SESSIONAL PAPERS

VOLUME 11

FIRST SESSION OF THE THIRTEENTH PARLIAMENT

OF THE

DOMINION OF CANADA

SESSION 1918

VOLUME LIII.
# ALPHABETICAL INDEX

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## SESSIONAL PAPERS

## OF THE

## PARLIAMENT OF CANADA

## FIRST SESSION, THIRTEENTH PARLIAMENT, 1918.

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42c. Copy of Order in Council P.C. 950, dated 19th of April, 1918.—Establishment of the rank of warrant writer in the R.N.C.V.R. Also,—Copy of Order in Council P.C. 70/942, dated 19th April, 1918.—Allowance to chief examining officers at Canadian naval ports. Presented by Hon. Mr. Ballantyne, April 24, 1918.... Not printed.


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44. P.C. 3110, dated 2nd November, 1917.—Regulations forbidding the use of grain for the distillation of potable liquors. P.C. 3473, dated 22nd December, 1917.—Regulations respecting the prohibition of the importation of intoxicating liquors except wine for use in Divine service; liquor for medicinal purposes; liquor for manufacturing purposes; and specifying the strength of an intoxicating liquor. P.C. 3484, dated 28th December, 1917, amending P.C. 3473, dated 22nd December, 1917, by striking out the word “alcohol” and substituting the words “proof spirits.” P.C. 134, dated 19th January, 1918, amending P.C. 3473, dated 22nd December, 1917, respecting the importation of liquors after 24th December, 1917, if actually purchased and shipped before 31st January, 1918, providing for the issuing of a special license by the Minister of Customs for the importation of liquors under certain circumstances. P.C. 539, dated 11th March, 1918.—Regulations regarding the manufacture and sale of intoxicating liquors in Canada. Presented by Sir Robert Borden, March 18, 1918. Not printed.


46. P.C. 432, dated 21st February, 1918.—Establishment of a Department of Soldiers’ Civil Re-Establishment.


P.C. 434, dated 21st February, 1918.—Invalided Soldiers’ Commission.

P.C. 442, dated 21st February, 1918.—Appointing Sir James Lougheed, K.C.M.G., Minister of Soldiers’ Civil Re-Establishment.

P.C. 443, dated 23rd February, 1918.—Accepting resignation of Mr. F. B. McCurdy, as Parliamentary Secretary of the Department of Militia and Defence.

P.C. 444, dated 23rd February, 1918.—Appointing F. B. McCurdy, Esq., Parliamentary Secretary of the Department of Soldiers’ Civil Re-Establishment.

P.C. 445, dated 23rd February, 1918.—Accepting the resignation of Sir James Lougheed, K.C.M.G., as Chairman of the Invalided Soldiers’ Commission; and appointing F. B. McCurdy, Esq., M.P., as Chairman of the said Commission.


P.C. 251, dated 2nd February, 1918.—Appointing Lloyd Harris, Chairman of the Canadian War Mission in the United States of America.


48a. Return to an Address to His Excellency the Governor General of the 26th March, 1918, for a copy of the Orders in Council creating the War Mission at Washington, appointments to the same, with instructions as to the extent of its powers and scope of its work. Presented by Mr. Clark (Bruce), March 26, 1918. Not printed.

49. P.C. 112, dated 22nd January, 1918.—Appointment of T. Sherman Rogers, K.C., William B. Wallace, Judge of the County Court, both of Halifax, and Frederick Luther Fowke, of Oshawa, gentleman, as Commissioners under the name of the Halifax Relief Commission.


CONTENTS OF VOLUME 14—Continued.

51. P.C. 335, dated 13th February, 1918.—Regulations re appointments to the Public Service.
   P.C. 391, dated 23rd February, 1918.—Respecting appointments, promotions, etc.,
   in the Civil Service other than in the several departments.
   P.C. 372, dated 18th February, 1918.—Appointment of a Committee of Council re
   preparation of a Bill respecting the Civil Service.
   P.C. 358, dated 15th March, 1918.—Approval of Interim Regulations made by
   the Civil Service Commission, under clause 3 of O.C. P.C. 335, dated 13th February, 1918.
   P.C. 457, dated 18th March, 1918.—Regulations re dismissal of public officials on
   the ground of offensive partisanship during the recent election. Presented by Sir

52. P.C. 2833, dated 5th October, 1917.—Public Service Committee of National Service. Pre-
52a. Registration Regulations made by the Canada Registration Board. Presented by Hon.
   Mr. McCurdy, April 23, 1918. Not printed.
52b. Memorandum respecting the plans of the Canada Registration Board and the progress it
   is making in its work. Presented by Sir George Foster, May 23, 1918. Not printed.

53. P.C. 1433, dated 31st May, 1917.—Regulations re departure out of Canada of male persons
   liable to or capable of military service.
   P.C. 1531, dated 4th June, 1917.—Statutory declaration—Schedule ‘B’ of O.C. May
   24, 1917, may be made before certain persons.
   P.C. 1799, dated 30th June, 1917.—Regulations made by O.C. May 24, 1917, amended.
   P.C. 2243, dated 3rd September, 1917.—Military Service Council: Appointment
   Deputy Minister of Justice, O. M. Biggar, John H. Moss, L. Loranger, and L.-Col. H. A. C.
   Machin as.
   P.C. 2497, dated 8th September, 1917.—Central Appeal Judge: Appointment Mr.
   Justice Duff as.
   P.C. 2498, dated 11th September, 1917.—Members of local tribunals: Minister of
   Justice may appoint after September 25, 1917.
   P.C. 2554, dated 15th September, 1917.—Registrar for British Columbia—R. S.
   Lennie, K.C.
   P.C. 2555, dated 15th September, 1917.—Registrar for New Brunswick—W. A.
   Ewing, K.C.
   P.C. 2556, dated 15th September, 1917.—Registrar for Quebec—Eugene Godin, K.C.
   P.C. 2559, dated 15th September, 1917.—Registrar for Toronto—Glynn Osler.
   P.C. 2560, dated 15th September, 1917.—Pranking privilege extended to Registrars
   and Deputy Registrars.
   P.C. 2564, dated 15th September, 1917.—Regulations re departure out of Canada
   of male persons capable of military service, made on May 24 and June 30, 1917, amended.
   P.C. 2595, dated 17th September, 1917.—Registrar for Prince Edward Island—W.
   W. Stanley.
   P.C. 2603, dated 18th September, 1917.—O. M. Biggar authorized to sign requisitions
   for printing and stationery for use of Military Service Council.
   P.C. 2618, dated 20th September, 1917.—Registrar for the Yukon—John Black.
   P.C. 2623, dated 21st September, 1917.—Deputy Registrars, Ontario—W. E.
   Wismer and Major H. P. Cook.
   P.C. 2624, dated 21st September, 1917.—Deputy Registrar for the Yukon—A. Gobeil.
   P.C. 2635, dated 23rd September, 1917.—Deputy Registrar for Quebec—F. A.
   Labelle.
   P.C. 2637, dated 25th September, 1917.—Re making alien residents of Allied
   nationality in Canada liable to military service.
   P.C. 2664, dated 24th September, 1917.—Deputy Registrar for Ontario—G. A.
   Toole.
   P.C. 2725, dated 3rd October, 1917.—List of officials to sign Letter of Credit
   cheques.
   P.C. 2781, dated 4th October, 1917.—Approval of Proclamation calling out for
   military service of Class 1.
   P.C. 2833, dated 8th October, 1917.—Public Service Committee of National Service
   Board, to investigate claims of Civil Servants for exemption.
   P.C. 2936, dated 15th October, 1917.—Time extended for calling out Class 1 in the
   Yukon.
   P.C. 2958, dated 19th October, 1917.—Regulations under Military Service Act, 1917.
   P.C. 3007, dated 20th October, 1917.—Travelling expenses of members of Board of
   Selection.
   P.C. 3088, dated 20th October, 1917.—Living and travelling expenses of Members
   of Military Service Council.
CONTENTS OF VOLUME 14—Continued.

P.C. 3025, dated 20th October, 1917.—Regulations re reporting for service and claims for exemption for men residing outside of Canada.

P.C. 3033, dated 23rd October, 1917.—Convention Great Britain and United States calling out for military service under its own colours its citizens resident in the other country.

P.C. 3036, dated 23rd October, 1917.—Re exemption of members of the R.N.W.M. Police.

P.C. 3093, dated 2nd November, 1917.—Clerk of Central Appeal Judge—J. L. McDougall—at salary of $250 a month.

P.C. 3055, dated 2nd November, 1917.—Expenses of Military Service Branch to be paid from War Appropriation.

P.C. 3112, dated 2nd November, 1917.—Expenses of Judges re making appointments to local tribunals.

P.C. 3118, dated 7th November, 1917.—Further regulations under Military Service Act, 1917.

P.C. 3168, dated 9th November, 1917.—Regulations re dealing with deserters and absentees without leave, etc.

P.C. 3169, dated 9th November, 1917.—Regulations re claims for exemptions by persons who have failed to comply with Proclamation under Military Service Act, 1917.

P.C. 3220, dated 19th November, 1917.—Regulations fixing penalties for non-compliance with the law.

P.C. 3231, dated 19th November, 1917.—Re applications for exemption in Northwest Territories and other remote regions.


P.C. 3283, dated 27th November, 1917.—Regulation re repatriation of citizens or subjects of Allied countries resident in Canada.

P.C. 3285, dated 27th November, 1917.—Minister of Justice authorized to designate a Judge to perform duties assigned to Chief Justice re appeal tribunals in case of a vacancy in said office.

P.C. 3288, dated 28th November, 1917.—Registrars and Deputy Registrars, remuneration of.

P.C. 3321, dated 30th November, 1917.—Regulations re appeal to Central Judge from decisions of tribunals.

P.C. 3344, dated 3rd December, 1917.—Re hearing of appeals as speedily as possible.

P.C. 3348, dated 3rd December, 1917.—Re discharge from military service of persons engaged in agriculture.

P.C. 3349, dated 3rd December, 1917.—Minister of Agriculture authorized to appoint representatives of Department of Agriculture to attend tribunals.

P.C. 3356, dated 8th December, 1917.—Remuneration of representatives of the Minister of Agriculture ($5 per diem).

P.C. 3463, dated 24th December, 1917.—Regulations re departure out of Canada of male persons, made by O.C. May 24, 1917, amended.

P.C. 35, dated 7th January, 1918.—Regulations re establishment of additional tribunals to decide appeals.

P.C. 35, dated 7th January, 1918.—Regulations; remuneration and expenses of tribunals.


P.C. 54, dated 8th January, 1918.—Enlargement of Dominion Police Force in connection with administration of the Military Service Act.

P.C. 111, dated 17th January, 1918.—Regulations re exemption of Indians and other disfranchised British subjects, from Military Service.

P.C. 115, dated 17th January, 1918.—Regulations prescribing obligations of exempted men under the Military Service Act.

P.C. 118, dated 17th January, 1918.—Appointment of Douglas Kerr as Commissioner of Police to enforce Military Service Act.

P.C. 178, dated 21st January, 1918.—Regulations re appeal claims for exemption under the Military Service Act, 1917.

P.C. 181, dated 26th January, 1918.—Regulations re furnishing of information by employers of employees liable for Military Service.

P.C. 182, dated 26th January, 1918.—Regulations re reporting for military duty in case of an appeal for exemption.

P.C. 195, dated 24th January, 1918.—Extension of time for appeals from decisions of local tribunals.

P.C. 196, dated 26th January, 1918.—Regulations re appeals from the grants of exemption by tribunals—production of foodstuffs.


P.C. 271, dated 2nd February, 1918.—Regulations re hearing of appeals in the Province of Quebec.
CONTENTS OF VOLUME 14—Continued.

P.C. 384, dated 18th February, 1918.—Appointment of an agricultural representa-
tive for each Military District to act as adviser to the Leave of Absence Boards.
P.C. 435, dated 23rd February, 1918.—Accepting resignation of Mr. Glyn Osler,
K.C., as Register under the Military Service Act, at Toronto, and appointing Mr. C.
Leslie Watson, Registrar for Ontario.
P.C. 450, dated 2nd March, 1918.—Constitution of a Directorship under the Military
Service Act, 1917; and appointing Lt.-Col. H. A. C. Machin, to the said office.
P.C. 451, dated 23rd February, 1918.—Use of certain of the Judges of the Circuit
Court of the District of Montreal for the determination of appeals under the Military
Service Act, 1917
P.C. 452, dated 23rd February, 1918.—Accepting the resignation of Mr. E. R. Chapman,
Registrar under the Military Service Act for Manitoba, and appointing Mr. George
A. Toole to succeed him.
P.C. 572, dated 9th March, 1918.—Application of the provisions of the Canadian
Military Service Act, 1917, to aliens of allied nationality resident in Canada. (Copy
of the Military Service Act, 1917, attached.) ........ Not printed.

53a. Copies of Orders in Council—
P.C. 815, dated 4th April, 1918.—Regulations, under the War Measures Act, 1914,
in respect to the utilization of the human energy of Canada for purposes essential to
the prosecution of the present war.
P.C. 834, dated 4th April, 1918.—Conferring certain powers on the General
Officer or the Officer Commanding Military Districts, in case of riot, insurrection or civil
disturbance, or obstructing the enforcement of the Military Service Act, 1917, etc. Pre-
SENTED BY HON. MR. CALDER, APRIL 5, 1918. .......... Not printed.

54. Copies of Orders in Council, as follows—
P.C. 3160, dated 9th November, 1917.—Regulations re appointment of a Director
of Public Information.
P.C. 3161, dated 9th November, 1917.—Appointing Mark E. Nicholls, Esq., Director
of Public Information. Presented by Hon. Mr. Rowlie, March 18, 1918. .......... Not printed.

55. Copy of the Minutes of the meetings of the Conference between the Dominion and Provin-
cial Governments of Canada, held at Ottawa, during February, 1918, respecting the
general war situation as conformed with financial, food, shipping, and military necessities.
Presented by Hon. Mr. Calder, March 18, 1918. .......... Printed for sessional papers only.

56. Copies of Orders in Council, as follows—
P.C. 1460, dated 16th June, 1917.—Regulations for appointment of Food Controller.
P.C. 1654, dated 21st June, 1917.—Appointment of Hon. W. J. Hanna as Food
Controller.
P.C. 1814, dated 3rd July, 1917.—Staff, office of Food Controller; appointment of
Todd, Willison and French.
P.C. 2079, dated 1st August, 1917.—Francking privilege extended to Food Con-
troller.
P.C. 2150, dated 9th August, 1917.—Regulations applicable to public eating places
and use of wheat for alcohol prohibited; penalties imposed, etc.
P.C. 2210, dated 11th August, 1917.—Food Controller’s Office; $25,000 for salaries
and expenses of.
P.C. 2292, dated 18th August, 1917.—Export of flour prohibited.
P.C. 2332, dated 23rd August, 1917.—Food Controller’s Office; appointment of
officers, clerks and others; authority to make such appointments, fix salaries, etc.
P.C. 2352, date 24th August, 1917.—Canned vegetables; prohibition of use of
while fresh vegetables are available.
P.C. 2720, dated 3rd October, 1917.—Francking privilege to secretaries of Provin-
cial Committee of Food Controller’s Office.
P.C. 2639, dated 5th October, 1917.—Food Control; Educational Bureau; appoint-
ments.
P.C. 2688, dated 11th October, 1917.—Regulations re wholesale producers and
dealers. Must make returns, etc.
P.C. 2959 (a), dated Extra Canada Gazette, 25th October, 1917.—Order of Food
Controller extending time for commencement of Cereal Food Regulations.
P.C. 3044, dated 23rd October 1917.—Oleomargarine; Regulations re importation
and sale of.
P.C. 3116, dated 2nd November, 1917.—Use of grain for distillation of potable
liquors prohibited.
P.C. 3141, dated 6th November, 1917.—$70,000 for expenses office of Food Con-
troller.
P.C. 3211, dated 15th November, 1917.—Export of foodstuffs; prohibition of.
P.C. 3214, dated 15th November, 1917.—Licensing of dealers in food, etc. Regu-
lations re. Food Controller authorized to fix profits, etc.
CONTENTS OF VOLUME 14—Continued.

P.C. 3223, dated 15th November, 1917.—Licensing of mills for the grinding of flour; regulations re.
P.C. 3215, dated 15th November, 1917.—Food Controller's Office; $100,000 for salaries and other expenses in.
P.C. 3256, dated 19th November, 1917.—Oleomargarine: Regulations re handling of; licenses for importation of to be issued from Office of Veterinary Director General.
P.C. 3256 (a), dated 2nd Extra Canada Gazette, 17th November, 1917.—Order of Food Controller re manufacture, importation and sale of oleomargarine.
P.C. 3259, dated 19th November, 1917.—Food Control Regulations framed by Food Controller re licenses for exportation of goods to allied countries, etc., approved.
P.C. 3259, dated 19th November, 1917.—Manufacture of malt; regulations re.
P.C. 3347, dated 3rd December, 1917.—Prohibition of export of certain foods to the United Kingdom, British possessions, etc., except under license from Minister of Customs.
P.C. 3430, dated 24th December, 1917.—Food Control Regulations re cars containing food being held for longer period than four days, etc.
P.C. 345, dated 19th January, 1918.—$50,000 for expenses of Food Controller's office.
P.C. 350, dated 21st January, 1918.—Regulations re licensing flour mills made by Order in Council 3223, 15th November, 1917, to extend to all flour mills.
P.C. 53, dated 26th January, 1918.—Regulations re exportation of certain goods.
P.C. 212, dated 26th January, 1918.—Staff, office of Food Controller. Former Orders in Council re cancelled, and Food Controller authorized to appoint of certain members of.
P.C. 225, dated 4th February, 1918.—Appointment Mr. H. R. Thomson as Food Controller in place of Hon. W. J. Hanna.
P.C. 341, dated 11th February, 1918.—Canada Food Board.
P.C. 345, dated 11th February, 1918.—Appointment members of Canada Food Board: Messrs. Thomson, Dunning and McGregor.
P.C. 420, dated 27th February, 1918.—Amending O.C. of February 11, 1918, creating the Canada Food Board—Powers not to include any of the powers or duties vested in the Board of Grain Supervisors for Canada.
P.C. 470, dated 28th February, 1918.—Prohibiting removal of flot or dent corn from the counties of Lambton, Essex, Kent and Elgin to any place outside of said district.
P.C. 543, dated 7th March, 1918.—Regulations re use of grain for feed purposes in stock yards, etc.
P.C. 567, dated 14th March, 1918.—Placing of sums of money to the credit of the Canada Food Board for the purchase of Ford tractors.
P.C. 550, dated 19th March, 1918.—Regulations re licensing of packing houses—Limitation on profit of sales.
P.C. 597, dated 12th March, 1918.—Regulations re power of The Canada Food Board to make orders regarding the kilos and amounts of foods that may be used, etc.
P.C. 597, dated 12th March, 1918.—Regulations forbidding the wilful waste of any food or food products; penalties imposed, etc. Not printed.


56b. Return to an Order of the House of the 20th March, 1918, for a return showing—1. When and upon whose recommendation the office of Food Controller in Canada was authorized and established. 2. To which Ministerial Department the Food Controller reports, and what member of the cabinet, if any, is responsible for the administration of the office of Food Controller. 3. The total amount incurred as salaries for Food Controller and his assistants and staff at Ottawa and throughout Canada from the establishment of the office up to and including end of February, 1918. 4. The total expense of Food Controller's Office at Ottawa and throughout Canada, including rents, furnishings, equipment, heat, light, salaries, travelling expenses, stationery, printing, advertising, telegrams, telephones, postage, and all other expenses of Food Controller's Office, Ottawa, and branch offices throughout Canada, since the establishment of the office, up to and including February, 1918. 5. The total cost of administration of Food Controller's Office at Ottawa and throughout Canada, including rents, furnishings, equipment, heat, light, salaries, travelling expenses, stationery, printing, advertising, telegrams, telephones, postage, etc., including all and every expense of Food Controller's Office at Ottawa and branch offices throughout Canada for each of following months, viz.: December, 1917, and February, 1918. 6. Whether there are any claims for salary or expenses from the Food Controller's Office outstanding or in dispute; if so, the amount involved. 7. How many employees there are on the Food Controller's staff at Ottawa and throughout Canada. 8. How many of the employees are returned soldiers who have been on active service since 1914. Presented April 18, 1918.—Mr. Lapointe (St. James). Not printed.
CONTENTS OF VOLUME 14—Continued.

56c. Return to an Address to His Excellency the Governor General of the 26th March, 1918, for a copy of the Order in Council recently passed making provision for the staff, the number of persons to be employed and their salaries, in the Food Controller's Office. Also a list of the names of those at present employed, showing their respective salaries and duties, former occupations, where formerly employed and salary received in former occupation. Presented April 18, 1918.—Mr. Devlin... Not printed.

56d. Return to an Address to His Excellency the Governor General, of the 27th March, 1918, for a copy of the Orders in Council creating the Canada Food Board, and all correspondence antecedent or posterior to the Order in Council with respect to the same, as well as all regulations not already brought down. Presented May 20, 1918.—Sir Wilfrid Laurier... Not printed.

56e. Supplementary return to an Order of the House of the 20th March, 1918, for a return showing—1. When and upon whose recommendation the office of Food Controller in Canada was set up, and established. 2. To which Ministerial Department the Food Controller reports, and what member of the cabinet, if any, is responsible for the administration of the office of Food Controller. 3. The total amount incurred as salaries for Food Controller and his assistants and staff at Ottawa and throughout Canada from the establishment of the office up to and including end of February, 1918. 4. The total expense of Food Controller's Office at Ottawa and throughout Canada, including rents, furnishing, equipment, heat, light, salaries, travelling expenses, stationery, printing, advertising, telegrams, telephones, postage, and all other expenses of Food Controller's Office, Ottawa, and branch offices throughout Canada, since the establishment of the office, up to and including February, 1918. 5. The total cost of administration of Food Controller's Office at Ottawa and throughout Canada, including rents, furnishings, equipments, heat, light, salaries, travelling expenses, stationery, printing, advertising, telegrams, telephone, postage, etc., including all and every expense of Food Controller's Office at Ottawa and branch office throughout Canada for each of following months, viz.: December, 1917, and February, 1918. 6. Whether there are any claims for salary or expenses from the Food Controller's Office outstanding or in dispute; if so, the amount involved. 7. How many employees there are on the Food Controller's staff at Ottawa and throughout Canada. 8. How many of the employees are returned soldiers who have been on active service since 1914. Presented May 20, 1918.—Mr. Lapointe (St. James) Not printed.

57. Copies of Orders in Council, as follows:—

P.C. 1579, dated 11th June, 1917.—Fuel Controller.—Report on coal situation and appointment of Chas. A. Magrath as.
P.C. 1862, dated 6th July, 1917.—Fuel Controller; $10,000 allocated from War Appropriation.
P.C. 1887, dated 12th July, 1917.—Fuel Controller.—Report on coal situation and appointment of Chas. A. Magrath as.
P.C. 2289, dated 22nd August, 1917.—Fuel Control. Appointment of Donald S. Kerr to assist and C. W. Peterson as Deputy Fuel Controller.
P.C. 2611, dated 19th September, 1917.—"David S. Kerr" instead of "Donald S. Kerr" (O.C. 22nd August, 1917—P.C. No. 2289, amended)....
P.C. 3068, dated 26th October, 1917.—Regulations re importation and sale of coal.
P.C. 105/3341, dated 3rd December, 1917.—Salary of Deputy Fuel Controller, C. W. Peterson, fixed at $500 per month.
P.C. 298, dated 4th February, 1918.—Duties of Fuel Controller; O.C. 12th July, 1917.—P.C. 1887, defining, amended
P.C. 298, dated 5th February, 1918.—Fuel Regulation. Providing for heatless days in factories, theatres, etc.
Sir George Foster laid on the Table, by Command of His Excellency,—Copies of Orders in Council, as follows:—
P.C. 359, dated 26th February, 1918.—Regulations providing for the conservation of fuel necessary to the national security.
P.C. 564, dated 5th March, 1918.—Amending regulations re conservation of fuel as regards the closing of golf, country, yacht, canoe or hunt clubs and places of amusement on certain days. Presented by Sir George Foster, March 19, 1918... Not printed.

58. Annual Report of the Editorial Committee on Government Publications, on its operations from the date of its appointment, 4th October, 1917, to 20th March, 1918. Presented by Sir George Foster, April 24, 1918... Printed for distribution and sessional papers.

CONTENTS OF VOLUME 14—Continued.

59. P.C. 337, dated 5th February, 1918.—Constitution of a Sub-Committee of the War Committee of the Cabinet to be known as the War Trade Board. Presented by Sir George Foster, March 19, 1918... Not printed.

59a. Return to an Address to His Excellency the Governor General of the 20th March, 1918, for a copy of all Orders in Council creating the War Trade Board, appointments to the same, instructions, and reports from the Board to this date. Presented by Sir Wilfrid Laurier, April 4, 1918... Not printed.

60. Statement of Governor General’s Warrants issued since the last Session of Parliament on account of 1917-18. Presented by Hon. Mr. Maclean, March 20, 1918... Not printed.

61. Statement of receipts and expenditures of the National Battlefields Commission to March 1917. Presented by Hon. Mr. Maclean, March 20, 1918... Not printed.

62. Statement showing distribution of the $25,000,000 advanced by the Dominion Government to the Canadian Northern Railway and its constituent companies, as provided for in Chapter 24, Statutes of 1917. Presented by Hon. Mr. Maclean, March 26, 1918... Not printed.

62a. Return showing:—1. What sums, if any, have been paid since the first day of August, 1917, to the Canadian Northern Railway or to any person, firm, corporation, bank or company in trust for and on behalf of the Canadian Northern. 2. Under what authority these sums have been paid. 3. If by virtue of Orders in Council, the date of each of said Orders in Council, and the amount authorized by each of said Orders, and so paid. Presented March 27, 1918.—Mr. Verville... Not printed.

63. Statement of the Receipts and Expenditures of the Royal Society of Canada, for the year ended April 30, 1917. Presented by Hon. Mr. Maclean, March 20, 1918... Not printed.

64. Interim Report of R. A. Pringle, K.C., Commissioner inquiring into the manufacture, sale, price and supply of newsprint in Canada. Presented by Hon. Mr. Maclean, March 20, 1918... Not printed.

64a. Return to an Address to His Excellency the Governor General of the 5th April, 1918, for a copy of the Order in Council creating a paper commission, and also a copy of the subsequent Orders in Council in regard to the work of this Commission. Presented April 18, 1918.—Mr. Devlin... Not printed.

64b. Return to an Order of the House of the 8th April, 1918, for a copy of all correspondence respecting Orders in Council creating a paper commission, and subsequent Orders in Council respecting the same, which have passed between newspaper publishers in Canada, more particularly those publishers in Toronto, and the Government. Presented April 25, 1918.—Mr. Devlin... Not printed.


66. Statement of Superannuation and Retiring Allowances in the Civil Service during the year ending 31st December, 1917, showing name, rank, salary, service allowance and cause of retirement of each person superannuated or retired, also whether vacancy has been filled by promotion, or by appointment, and the salary of any new appointee. Presented by Hon. Mr. Maclean, March 20, 1918... Not printed.


68. Statement of Expenditure on account of “Miscellaneous Unforeseen Expenses,” from the 1st April, 1917, to the 18th March, 1918, in accordance with the Appropriation Act of 1917. Presented by Hon. Mr. Maclean, March 20, 1918... Not printed.

69. Letter of the Honourable Albert Sévigny to the Right Honourable the Prime Minister, resigning his position as Minister of Inland Revenue, and the letter of the Prime Minister in acknowledgment thereof. Presented by Sir Robert Borden, March 26, 1918... Not printed.

70. Return to an Order of the House of the 21st March, 1918, for a Return showing:—1. Who were the officers of the Engineers Training Depot stationed at St. Johns, Quebec, barracks during the months of October and December, 1917. 2. Who were the officers of the Engineers Training Depot stationed at St. Johns, Quebec, barracks on the 17th December, 1917. 3. Where these officers enlisted. 4. Where these officers resided before their enlistment. 5. Where these officers were residing at the time of their enlistment. Presented March 27, 1918.—Mr. Archambault... Not printed.
CONTENTS OF VOLUME 14—Continued.

71. Return of Orders in Council which have been published in the Canada Gazette and in the British Columbia Gazette, between 1st January 1917, and the 8th March, 1918, in accordance with provisions of subsection (d) of section 38 of the regulations for the survey, administration, disposal and management of Dominion lands within the 49-mile Railway Belt in the Province of British Columbia, as follows:—

P.C. 3277, 5th January, 1917. License of occupation of a portion of the bed of the Fraser river to the Kettle Valley Railway Company.

P.C. 159, 19th January, 1917. Limiting the right of homestead entry in the Railway Belt to persons who were British subjects or subjects of a country allied to Great Britain, or subject of a neutral country and who have continued to be so.

P.C. 197, 12th February, 1917. Waiving completion of naturalization, before issue of patent for Dominion Lands in certain cases where entrant is on active service.

P.C. 572, 5th March, 1917. Regulations re natural resources necessitated on account of war conditions.

P.C. 756, 17th March, 1917. Providing for homesteaders being given credit for time spent at agricultural labour in Canada during the year 1918, towards the performance of residence duties.

P.C. 852, 10th April, 1917. Authorizing the sale of certain lands in British Columbia to Canadian Pacific Railway Company for pipe-line purposes.

P.C. 2076, 1st August, 1917. Authorizing certain changes in the Timber Regulations.

P.C. 2582, 15th September 1917. Vesting the title to certain lands in the Railway Belt in His Majesty for the purposes of the Province of British Columbia.


P.C. 3247, 27th November, 1917. Permitting a man on active service giving power of attorney with respect to his rights to Dominion lands in Railway Belt, British Columbia.


72. Return of Orders in Council which have been published in the Canada Gazette, between the 1st January, 1917, and the 8th March, 1918, in accordance with the provisions of "The Forest Reserves and Park Act," Section 19, of Chapter 10, 1-2 George V, as follows:—


P.C. 2595, 18th September, 1917, placing the control of certain lands in the Waterton Lakes Park under the Director of Forestry.

P.C. 2584, 18th September, 1917, rescinding Order in Council 8th June re Rocky Mountains Park. Presented by Hon. Mr. Meighen, April 2, 1918. . . . . . Not printed.

73. Return of Orders in Council which have been published in the Canada Gazette, between 1st January, 1917, and the 8th March, 1918, in accordance with the provisions of Section 77 of the "Dominion Lands Act." Chapter 29, 7-8 Edward VII, as follows:—

P.C. 12, 8th January, 1917. Rescinding Order in Council 4th March, 1910, re S.W. 1/4 of 4-9-14, W. 2nd Meridian, and making same available for homestead purposes.

P.C. 60, 13th January, 1917. Transferring certain lands in Cowessess Indian Reserve No. 73, to the Province of Saskatchewan, for road purposes.

P.C. 102, 15th January, 1917. Withdrawing from general disposition certain petroleum and natural gas rights in the vicinity of the City of Edmonton.


P.C. 159, 19th January, 1917. Providing that a person applying for a homestead entry in the Railway Belt, British Columbia, must be a British subject and has since continued to be a British subject, or a subject of a British Allied or neutral country.


P.C. 166, 20th January, 1917. Setting aside certain Dominion lands for Indian Reserve purposes.


CONTENTS OF VOLUME 14—Continued.

P.C. 316, 3rd February, 1917. Authorizing grant to L. F. Cardinal of the W. ½ of 22-108-13, W. 5th, by virtue of his occupation thereof at date of extinguishment of Indian Title.


P.C. 481, 20th February, 1917. Authorizing the issue of license of occupation to the Canadian Northern Western Railway of certain lands for a bridge site.


P.C. 560, 25th February, 1917. Authorizing time spent at farm labour in Canada during 1917, to count as residence duties on entries for Dominion lands.


P.C. 561, 5th March, 1917. Authorizing change in regulations permitting granting of one day's priority of right to make entry for available Dominion lands.


P.C. 572, 5th March, 1917. Limiting disposal of any natural resources except to a British subject, subject of Allied country, or neutral country.

P.C. 610, 7th March, 1917. Rescinding Order in Council 30th January, 1914, in so far as it affects descriptions of lands granted to Indians, and certain lands described be granted instead thereof.


P.C. 657, 16th March, 1917. Granting certain lands to Department of Militia and Defence.

P.C. 688, 16th March, 1917. Granting certain lands for church purposes to Synod of Diocese of Calagary.

P.C. 762, 20th March, 1917. Authorizing sale of certain lands to Council of the town of Maple Creek.

P.C. 845 29th March, 1917. Authorizing sale of lands to Western Canada Power Company for power development purposes.


P.C. 918, 3rd April, 1917. Amending Order in Council of 14th December, 1916, with respect to application thereof to Canadian Expeditionary Forces.

P.C. 919, 3rd April, 1917. Granting certain lands for cemetery purposes to the village of Vanguard, Saskatchewan.

P.C. 926, 3rd April, 1917. Authorizing sale of N.W. ¼ 36-45-25, W. 3rd, to Allan V. Mackie.

P.C. 927, 3rd April, 1917. Authorizing sale of certain lands to N. J. Bailey under certain conditions.


P.C. 1066, 16th April, 1917. Authorizing issue of license of occupation of certain lands to the city of Winnipeg for water-power purposes.

P.C. 1067, 15th April, 1917. Dispensing with residence duties and authorizing issue of patent to James Wilson, in connection with the N.E. ¼ of 35-19-11, W.P.M.

P.C. 1068, 15th April, 1917. Authorizing grant of certain lands for cemetery purposes to the village of Major, Saskatchewan.

P.C. 1071, 15th April, 1917. Authorizing grant of certain lands to rural municipality of Lakeview, No. 454 Alberta, for cemetery purposes.


P.C. 1189, 30th April, 1917. Granting certain lands for the erection of a creamery plant to the Canora Creamery Association, Limited.

P.C. 1225, 3rd May, 1917. Setting apart certain lands for the Indian of the Peguis.

P.C. 1226, 4th May, 1917. Authorizing issue of patent to Allen E. McDonald.

P.C. 1249, 8th May, 1917. Re granting patent to any person not a British subject by birth or naturalization who is on active service overseas.


P.C. 1315, 11th May, 1917. Granting certain lands for church and cemetery purposes to the Church of God of Edmonton, Alberta.

P.C. 1378, 21st May, 1917. Setting apart certain lands for park purposes and granting same to the rural municipality of Mariposa, No. 350, Saskatchewan.

P.C. 1377, 21st May, 1917. Relieving Mr. H. Wills of further residence duties on the north half of 22-25-10 W. 4th.

P.C. 1348, 21st May, 1917. Authorizing grant of certain lands to Winnipeg Electric Railway Company.

P.C. 1429, 25th May, 1917. Authorizing certain regulations for the disposal of quartz mining claims on Dominion lands.
Contents of Volume 14—Continued.

P.C. 1455, 29th May, 1917. Authorizing grant of certain lands to the town of The Pas for industrial purposes.

P.C. 1471, 1st June, 1917. Setting apart certain lands in the Province of Manitoba for Indians.

P.C. 1532, 4th June, 1917. Authorizing grant of certain lands for church purposes to the Board of Management of the Church and Manse Building Fund of the Presbyterian Church in Canada for Manitoba and the Northwest.

P.C. 1533, 4th June, 1917. Vesting certain lands in His Majesty in the right of the Province of Alberta.

P.C. 1536, 5th June, 1917. Authorizing Rev. W. B. Cumming, Saskatoon, to make entry by proxy on behalf of James Grossart.

P.C. 1580, 11th June, 1917. Withdrawing certain lands which had been reserved for the Hudson’s Bay Railway.

P.C. 1613, 13th June, 1917. Authorizing grant of certain lands to the town of Gimli, for cemetery purposes.


P.C. 1675, 21st June, 1917. Authorizing license of occupation to Canadian Northern Railway Company of certain lands on the Red Deer River for bridge construction purposes.

P.C. 1761, 26th June, 1917. Authorizing sale of certain lands to the Canadian Pacific Railway Company.

P.C. 1716, 26th June, 1917. Restoring the homestead entry of L. H. Roberts who died while on active service overseas.

P.C. 1717, 26th June, 1917. Authorizing sale of certain lands to William Rincheshen.

P.C. 1718, 26th June, 1917. Authorizing grant of certain lands for cemetery purposes to the rural municipality of Bright Sand, No. 529, Saskatchewan.

P.C. 1817, 30th June, 1917. Authorizing exchange of certain lands to Indians in lieu of lands surrendered.

P.C. 1820, 30th June, 1917. Authorizing grant of lands for church and cemetery purposes to the Bethel Evangelical Scandinavian Lutheran Congregation.


P.C. 1866, 6th July, 1917. Dispensing with residence duties in connection with the entry of W. L. Taylor for the N.W. 4 15-25-1, W.P.M.

P.C. 1877, 9th July, 1917. Authorizing person on active service overseas to appoint attorney to make application for patent.


P.C. 2035, 26th July, 1917. Authorizing grant of certain lands for park purposes to the town of Drumheller, Alberta.


P.C. 2068, 27th July, 1917. Authorizing sale of certain lands to Diocese of Rupert’s Land.

P.C. 2066, 27th July, 1917. Authorizing the cancellation of the survey of certain lands along the old Dawson Road.

P.C. 2075, 30th July, 1917. Amending Order in Council dated 29th May, 1917, with reference to the name of the Board of Trade of the town of The Pas, Manitoba.

P.C. 2076, 1st August, 1917. Authorizing regulations re timber.

P.C. 2090, 1st August, 1917. Amending forest reserve regulations.

P.C. 2108, 6th August, 1917. Authorizing certain changes in Dominion lands regulations for the protection of water-power resources.

P.C. 2109, 6th August, 1917. Authorizing license of occupation to Canadian Northern Pacific Railway Company of certain lands in the bed of the South Thompson River.

P.C. 2171, 8th August, 1917. Authorizing the disposition of certain lands for town-site purposes.

P.C. 2223, 15th August, 1917. Confirming the late C. R. Coutts in his entry for the S.E. 6-83-17 W. 6.


P.C. 2228, 15th August, 1917. Transferring certain lands from Indian Affairs to Interior Department to be used for church purposes.


CONTENTS OF VOLUME 14—Continued.

P.C. 2436, 1st September, 1917. Transferring certain lands to the Province of Manitoba for drainage purposes.


P.C. 2488, 11th September, 1917. Granting certain lands for summer home and shooting purposes.


P.C. 2509, 11th September, 1917. Relieving entrant on active service from necessity of erecting a house on his homestead.


P.C. 2583, 17th September, 1917. Granting certain lands to R. B. Clarke in lieu of other lands surrendered to the Crown by him.


P.C. 2721, 3rd October, 1917. Re purchase of certain reclaimed lands in Kleskun Lake.


P.C. 2857, 12th October, 1917. Re certain lands granted for creamery plant purposes.

P.C. 2858, 12th October, 1917. Granting certain lands for cemetery purposes.

P.C. 3027, 3rd November, 1917. Re status of applicants for homestead entries as to nationality.

P.C. 3163, 9th November, 1917. Granting certain lands for church and cemetery purposes.


P.C. 3201, 14th November, 1917. Setting apart certain lands for the Sioux Band of Indians.


P.C. 3244, 29th November, 1917. Authorizing the granting of grazing permits in the Big Stick Forest Reserve.

P.C. 3499, 4th January, 1918. Transferring certain lands to the Indian Affairs Department.

P.C. 3512, 4th January, 1918. Granting certain lands for use for Customs purposes.

P.C. No. 41-72, 10th January, 1918. Granting certain lands for right of way purposes.

P.C. 46, 12th January, 1918. Granting certain lands to Alex. Cardinal, Jr., Fort Vermilion.

P.C. 67, 12th January 1918. Granting certain lands to Chas. Enn, Calais, Alberta.


P.C. 24-238, 30th January, 1918. Granting certain lands for cemetery purposes.

P.C. 317, 8th February, 1918. Granting certain lands to the province of Saskatchewan for roadway purposes.

P.C. 332, 11th February, 1918. Authorizing sale of certain lands reclaimed by drainage.

P.C. 67-352, 11th February, 1918. Granting certain lands to A. McKillop.

P.C. 69-352, 11th February, 1918. Exchanging certain lands with Hudson Bay Company in order to grant homestead entry for land relinquished by the company.

P.C. 357, 13th February, 1918. Granting certain lands to the City of Regina for park purposes.

P.C. 400, 18th February, 1918. Setting apart certain lands as school lands.


P.C. 430, 21st February, 1918. Granting certain lands to the Grand Trunk Pacific Branch lines for terminal purposes.

P.C. 459, 7th March, 1918. Enacting regulations respecting homesteaders employed as farm labourers.

P.C. 538, 7th March, 1918. Enacting certain regulations respecting homesteaders on active service who hold homestead entries.

P.C. 37-593, 8th March, 1918. Enacting regulations governing the leasing of unpatented lands held under homestead entry. Presented by Hon. Mr. Meighen, April 2, 1918. ... Not printed.

74. Return called for by section 58, of chapter 62, Revised Statutes of Canada, requiring that the Minister of the Interior shall lay before Parliament, each year, a return of liquor brought from any place out of Canada into the Territories by special permission in writing of the Commissioner of the Northwest Territories, for the year ending 31st December, 1917. Presented by Hon. Mr. Meighen, April 2, 1918. ... Not printed.

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CONTENTS OF VOLUME 14—Continued.

75. Return showing all lands sold by the Canadian Pacific Railway Company during the year ending 30th September, 1917, together with the names of the purchasers, in accordance with the Statutes of Canada, 1886, chapter 9, section 8. Presented by Hon. Mr. Meighen, April 2, 1918. Not printed.

76. Return to an Order of the House of March 25, 1918, for a return showing the total money value of the emigrant coal, soft coal, oil and gasoline imported into Canada during the years ending March 31, 1914, 1915, 1916 and 1917, and for each month since March, 1917. Presented by Hon. Mr. Sifton, April 2, 1918. Not printed.

77. Detailed statement of remissions of customs duties and the refund thereof, under section 22, Consolidated Revenue and Audit Act, through the Department of Customs, for the fiscal year ended 31st March, 1917. Presented by Hon. Mr. Sifton, April 3, 1918. Not printed.

78. Memorandum of Conferences between representatives of Labour and the War Committee, January, 1918. Presented by Hon. Mr. Rowell, April 3, 1918. Printed for sessional papers only.


80. Return to an Order of the House, of the 25th March, 1918, for a copy of all letters, telegrams, petitions and other papers and documents relating to the appointment of a preventive officer at Mulgrave, N.S., to fill the position made vacant by the death of the late David Murray. Presented April 8, 1918.—Mr. Sinclair. Not printed.

81. Return to an Order of the House of the 25th March, 1918, for a return showing:—1. The total amount of war contracts fulfilled in the Province of Quebec, from August, 1914, to January, 1918. 2. How many war munitions establishments are in activity in the Province of Quebec. 3. How many shells are manufactured weekly in said province. 4. How many hands are engaged in such establishments in said province. Presented April 8, 1918.—Mr. Prevost. Not printed.

82. Return showing:—1. What sum of money has been spent for repairs to the wharf at Graham, since 1911. 2. Who has superintended the works, and the names of the parties who have been employed thereat. 3. What amount has been paid to each of them, and at what rate per diem. 4. The names of the parties supplying materials, and what amount has been paid to each of them. Presented April 8, 1918.—Mr. Boyer. Not printed.

83. Return showing:—1. From what person or persons, firm or firms, the stone used in the rebuilding of the new Parliament building was purchased. 2. From what quarries or quarries the said stone was taken. 3. Where the said quarry or quarries are situated. 4. Whether public tenders were called for the supplying of said stone. 5. If so, from whom, and at what prices offers were received, and if said offers were f.o.b. at place of shipment or f.o.b. Ottawa. 6. If said stone was supplied from different quarries what quantities were supplied from each quarry respectively. Presented April 8, 1918.—Mr. Copp. Not printed.


84c. Memorandum No. 4 respecting work of the Department of Militia and Defence, from January 1, 1917, to December 31, 1917. Presented by Hon. Mr. Mewburn, April 23, 1918. Not printed.

85. Return showing:—1. How many buildings have been rented by the Government in the city of Ottawa since February 1, 1915. 2. The owners of the said buildings. 3. Where said buildings are situated. 4. What rent per annum is paid for each building or part of building. 5. For what time or term said buildings are rented. Presented April 10, 1918.—Mr. Papineau. Not printed.

86. Return to an Address to His Excellency the Governor General of the 21st March, 1918, for a copy of all Orders in Council appointing members of the National Service Board, and all reports made individually or collectively by the members of the Board. Presented April 10, 1918.—Sir W. Laurier. Not printed.

87. Return to an Order of the House of the 3rd April, 1918, for a return showing:—1. Who are the commissioned officers employed at Quebec by the Military authorities in connection with Recruiting Branch, Army Service Corps, The Royal Canadian Engineers, The Royal Canadian Garrison Artillery and the Royal Canadian Artillery. 2. How long they have been connected with each branch. 3. What service each of them is
CONTENTS OF VOLUME 14—Continued.

performing. 4. What salary each one of them is receiving. 5. Who among them have performed service overseas, and how long they have been actually at the front. 6. How long they were in the trenches. 7. To which battalion they belonged when overseas. Presented April 11, 1918.—Mr. Power. ................................................. Not printed.

88. Return to an Order of the House of the 4th April, 1918, for a return showing:—1. What properties, if any, have been purchased by the Militia Department or the Military Hospitals Commission in Quebec City, since the first of January, 1917. 2. Frees when these purchases were made, and on whose recommendation. 3. The purchase price. Presented April 11, 1918.—Mr. Power. ................................................. Not printed.

89. Return to an Order of the House of the 4th April, 1918, for a return showing:—1. How many persons of all ranks are employed by the Military Hospitals Commission in British Columbia, and their names, rank and salaries. 2. Why they were appointed, and where they are stationed. 3. How many of these men have seen service at the front. 4. Who the senior officials of the Military Hospitals Commission in British Columbia. 5. What the total monthly cost of carrying on the work of the Commission in British Columbia is, and how many men are being looked after at present. 6. How many buildings are operated by the Military Hospitals Commission in British Columbia, and where they are situated. 7. How many officials from headquarters in Ottawa found it necessary to visit the Pacific Coast during the year, and for what purpose. 8. If the Military Hospital's Commission has a regularly appointed publicity agent. If so, what his name is, and what his duties are. 9. If he has seen overseas service, and what his salary is. 10. The total cost of the publicity department during 1917. Presented April 11, 1918.—Mr. Stevens. ................................................. Not printed.

90. Return to an Order of the House of the 29th March, 1918, for a return showing the names of the staff of the Hospital Commission, the number of persons employed, their names, duties, salaries, former occupation and amounts paid to each for travelling expenses. Presented April 11, 1918.—Mr. Devlin. ................................................. Not printed.

91. Return to an Order of the House of the 3rd April, 1918, for a return showing:—1. How many Victoria Crosses have been awarded to members of the Canadian Expeditionary Force to date. 2. The name, address, battalion, and rank of each recipient. 3. The official respective record in respect of which each decoration was given in each case. Presented April 11, 1918.—Mr. Middlebro. ................................................. Printed for sessional papers only.

92. Return to an Order of the House of the 8th April, 1918, for a copy of a certain memorandum sent to the Minister of Public Works by the senior member for Ottawa relating to the abolition of patronage, and of all papers, letters and other documents which passed between him and the Minister of Public Works in relation thereto since the 17th of December, 1917. Presented April 11, 1918.—Mr. McEachra. ................................................. Not printed.


94. Return to Order of the House of the 11th April, 1918, for a return showing:—1. What steps, if any, have been taken by the Government to investigate war trade conditions in the United States. 2. Apart from members of the Cabinet if any parties have been sent by the Canadian Government on missions respecting war trade conditions in the United States. If so, what the names are of those who have been sent. 3. If any such parties have been sent, what the total expense is to the Government of such missions. Presented April 15, 1918.—Mr. Devlin. ................................................. Not printed.

95. Return to an Address to His Excellency the Governor General, of the 29th March, 1918, for a copy of all Orders in Council, reports and correspondence with respect to the admission free of duty of farm tractors and other agricultural implements. Presented April 15, 1918.—Sir W. Laurier. ................................................. Not printed.

96. Copies of Orders in Council issued in connection with the Military Voters' Act, 1917, and the War-time Elections Act, as follows.—P.C. 3010, 7th November, 1917.—Instructions for the guidance of electors under the Military Voters' Act, 1917. P.C. 3158, 9th November, 1917.—Scrutineers; appointment of six and providing payment for services and expenses, etc. P.C. 3159, 9th November, 1917.—Presiding officers; appointment of certain and providing payment for services as, etc. P.C. 3275, 24th November, 1917.—Special returning officers and clerks; appointment of and providing payment for services as, etc. P.C. 3277, 27th November, 1917.—Regulation providing polls for returned military electors who are Indians. P.C. 3222, 29th November, 1917.—Provision for taking votes of military electors belonging to units or drafts under orders to leave Canada before polling day. P.C. 3404, 17th December, 1917.—Presiding officers: Engineer Captain W. M. Frowd, appointed in place of Captain F. C. C. Pascoe, at Halifax, N.S. P.C. 6405, 17th December, 1917.—Re taking votes of units under orders to leave Canada. O.C. 29th November, 1917, amended. P.C. 7, 8th January, 1918.—Special returning officers and clerks; appointment of further number of.
CONTENTS OF VOLUME 14—Continued.

P.C. 8, 4th January, 1918.—Scrutineers, travelling and living expenses of defined.
P.C. 9, 4th January, 1918.—Special returning officers and clerks; remuneration of.
P.C. 10, 4th January, 1918.—Scrutineers; appointment Major Thomas Gibson, of
P.C. 11, 4th January, 1918.—Further regulations for carrying the Military Voters' 
Act, 1917, into effect.
P.C. 12, 8th January, 1918.—Payment for services of Boards of Appeal in Ontario 
and revising officers in Nova Scotia re revision of voters' lists.
P.C. 13, 4th January, 1918.—Election in Halifax; Ward 8 constituted one single 
polling division.
P.C. 53, 8th January, 1918.—Special returning officers and clerks; remuneration 
of.
O.C. 4th January, 1918 (P.C. No. 9) amended.
P.C. 84, 12th January, 1918.—Special returning officers; appointment Capt. Harold 
P.C. 85, 12th January, 1918.—Clerk of special returning officer; appointment Archi-
bald Dickson, of Harrow, Eng., in place of Capt. Rippon, R.A.M.C.
P.C. 98, 15th January, 1918.—Clerk of special returning officers; appointment E.
L. Ginna in place of Ainslie W. Greene.
P.C. 162, 19th January, 1918.—Resignation of R. A. Pringle as special returning 
officer and appointment of John W. P. Richie in his stead, and appointment of special 
returning officers and clerks.
P.C. 323, 8th February, 1918.—Length of sessions to constitute a day's work.
P.C. 396, 18th February, 1918.—Lieut. N. G. Charlton, presently in France, 
appointed to replace Majot Powell as special returning officer.
P.C. 397, 18th February, 1918.—Edgar E. R. Chevrier appointed to replace J. A.
Pina as special returning officer.
P.C. 602, 12th March, 1918.—Proclamation of returns from overseas issued on 
receipt of telegraphic information. Presented by Hon. Mr. Doherty, April 15, 1918.

97. Return to an Order of the House of the 3rd April, 1918, for a copy of all judgments 
rendered up to date under the operation of the Military Service Act, 1917, by the Central 
Appeal Judge. Presented April 15, 1918.—Mr. Truhan .................. Not printed.

98. Return to an Order of the House of the 29th March, 1918, for a return showing the names 
of all persons employed in Ottawa in the Military Service Council, their salaries and 
former occupations. Presented April 15, 1918.—Mr. Devlin .................. Not printed.

99. Report of the Royal Commission appointed to inquire into and report upon the Pilotage 
System and its administration at the port of Halifax, N.S. Presented by Hon. Mr. 
Ballantyne, April 15, 1918 .................. Not printed.

100. Return to an Order of the Senate, dated 21st March, 1918, showing:—The details of cer-
tain totals, being the estimated cost of streets, sewers, etc., given on figures 29-30, 
placed between pages 96-97 of Rural Planning and Development, written by Thomas 
Adams, being a report published by the Commission of Conservation dated 1917. The 
said totals being $35,554, $26,736, $29,748 and $23,533.—The Senate .................. Not printed.

101. Return to an Order of the Senate, dated 22nd March, 1918, showing:—1. The different 
aviation camps established by the Canadian Government and their location, with the date 
of their establishment. 2. The number of aviators who have gone through those camps 
since their establishment, and of those who have obtained their certificates. 3. The 
number of aviators now qualifying in each of these camps. 4. The number of accidents 
which happened in each of these camps, distinguishing: (a) mortal accidents; (b) 
serious accidents; (c) slight accidents, with their respective dates. 5. The number of 
machines out of commission, as a total loss or seriously damaged.—The Senate. 
Not printed.

102. Return to an Order of the House of the 10th April, 1918, for a copy of all correspondence 
concerning the resignation of W. F. O'Connor, K.C., as Cost of Living Commissioner. 
Presented April 15, 1918.—Mr. Lemieux .................. Not printed.

103. Copy of Order in Council, P.C. 758, dated 26th March, 1918, relating to the making of a 
contract with the Dominion Steel Corporation, Limited, for the manufacture of steel 
plates required in the construction of ships and boilers. Presented by Hon. Mr. Ball-
antyne, April 18, 1918 .................. Not printed.

104. Copy of Order in Council, P.C. 915, dated 16th April, 1918, prohibiting the press from pub-
lishing any adverse statement, report or opinion concerning the action of the allied 
nations in the prosecution of the war; and also prohibiting any person from publicly 
expressing any adverse statement, report or opinion concerning the same. Presented 
by Hon. Mr. Doherty, April 18, 1918.

105. Report of the Military Service Council on the administration of the Military Service Act, 
1917 Presented by Hon. Mr. Doherty, April 15, 1918.

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CONTENTS OF VOLUME 14—Continued.

106. Return to an Order of the House of the 15th April, 1918, for a return showing:—1. The sums of money expended on repairs of a wharf at Ile Perrot Sud, since 1911. 2. The names of those who have been employed on said works, and the amount of money which has been paid to each of them. 3. The names of the parties who have supplied the materials, and the amount of money which has been paid to each of them. Presented April 18, 1918.—Mr. Boyer. Not printed.

107. Return to an Order of the House of the 15th April, 1918, for a return showing:—1. The sums of money expended on repairs at Hudson's Wharf, since 1911. 2. The names of those who have been employed on said works, and the amount of money which has been paid to each of them. 3. The names of the parties who have supplied the materials, and the amount of money which has been paid to each of them. Presented April 18, 1918.—Mr. Boyer. Not printed.

108. Return to an Order of the House of the 15th April, 1918, for a return showing:—1. The sums of money expended on repairs of wharf at Ile Perrot Nord, since 1911. 2. The names of those who have been employed on said works, and the amount of money which has been paid to each of them. 3. The names of the parties who have supplied the materials, and the amount of money which has been paid to each of them. Presented April 18, 1918.—Mr. Boyer. Not printed.

109. Return to an Order of the House of the 15th April, 1918, for a return showing:—1. The sums of money expended on repairs at St. Zotique Wharf, since 1911. 2. The names of those who have been employed on said works, and the amount of money which has been paid to each of them. 3. The names of the parties who have supplied the materials, and the amount of money which has been paid to each of them. Presented April 18, 1918.—Mr. Boyer. Not printed.

110. Return to an Order of the House of the 16th April, 1918, for a copy of all correspondence and other papers concerning the merger of the Bank of British North America with the Bank of Montreal. Presented April 18, 1918.—Mr. Devlin. Not printed.

111. Return to an Order of the House of the 11th April, 1918, for a return showing:—1. Referring to Canada Gazette statement of March 30th giving particulars as to circulation and specie, against what approved securities were Dominion notes issued to the value of $25,820,000. 2. To what banks these notes were issued, and what the respective security was in each case. Presented April 18, 1918.—Mr. Truax. Not printed.

112. Return to an Order of the Senate, dated April 16th, 1918, to the Clerk of the Senate for the following information:—1. The number of pages of the Senate Debates of last session, giving the number of unreviewed and the number of revised. 2. Is the French translation made from the unreviewed edition or from the revised? 3. Is the French translation of the Debates of last session completed? If so, when was the last copy delivered to the printing house? If not, what dates are not yet completed? 4. How many pages are untranslated on the 15th of March last? 5. How many translators are employed on the regular staff for this work? 6. What is the name and the salary of each? 6. Have they or any of them been employed at any other work for the Senate during or since last session? If so, what work? 7. Has any other person or persons been employed to assist the regular staff in the work of translating the Debates of last session? If so, what is the name of each such person, the length of time he has been so employed, and the amount of his remuneration therefor? 8. Is any translator expected to translate a definite minimum number of pages of the Debates each working day? If so, how many pages? 9. Does the regular staff of translators translate into English the speeches delivered in French during the last session? If so, how many pages? 9. If not, who did this work, and what amount of remuneration, if any, was paid for it? —The Senate. Not printed.

113. Statement issued by the War Cabinet at the request of the Board of Admiralty, showing for the United Kingdom and for the World, for the period August, 1911, to December, 1917:—1. Mercantile losses by enemy action and marine risk. 2. Mercantile Shipping Output. 3. Enemy vessels captured and brought into service: together with diagrams, showing mercantile losses and shipbuilding output for the United Kingdom and for the world, for the same period. Presented by Sir Robert Borden, April 18, 1918.

114. Return to an Order of the House of the 21st March, 1918, for a copy of all telegrams, letters, petitions and all other correspondence and documents, concerning the service of the steamer Angostura between the International and Magdalen Islands. Presented April 18, 1918.—Mr. Lemieux. Not printed.

115. Return to an Order of the Senate to the Clerk dated April 18, 1918, for a statement showing:—1. The names of all persons employed in connection with the work of preparing the Minutes of Proceedings, the Order Paper and the Journals of this House (a) in English and (b) in French, and the salary or other remuneration paid to each. 2. The number of each of these documents printed (a) in English and (b) in French, and the cost of printing and binding the same for the fiscal year ending the 31st of March, 1918.—The Senate. Not printed.
116. Statement showing how many members of the outside service have been transferred to the inside service since October 1, 1917, and how many persons have been appointed under section 21 of the present Civil Service Act since that time. Presented by Hon. Mr. Maclean, April 22, 1918. Not printed.

117. Return to an Address to His Excellency the Governor General of the 8th April, 1918, for a copy of Orders in Council in reference to the appointment of Colonel Lamington as Paymaster General in the Militia Department. Presented April 22, 1918.—Mr. Copp. Not printed.

118. Return to an Order of the House of the 18th April, 1918, for a return showing:—1. What blue books have been printed during the years 1916 and 1917. 2. Which of said books have been printed in both languages. 3. Which of said books have been printed in the English language only. 4. Which of said books have been printed in the French language only. Presented April 22, 1918.—Mr. Deniers. Not printed.

119. Copy of Order in Council P.C. 807, dated the 3rd of April, 1918, with respect to the reservation of Dominion Lands for disposition under the Soldiers' Settlement Act (Chapter 21, 7-8 George V). Presented by Hon. Mr. Melighen, April 23, 1918. Not printed.

120. Statement of amounts paid to newspapers, etc., on account of Victory Loan Advertising. Presented by Sir Robert Borden, April 24, 1918. Not printed.


122. Return to an Order of the House of the 8th April, 1918, for a return showing:—1. How many persons belonging to class one were liable to be called under the Military Service Act, 1917, in each of the provinces and the Yukon Territory, respectively. 2. How many in each province have reported themselves for service. 3. How many in each province have asked to be exempted from military service. 4. How many in each province have been exempted by local tribunals. 5. How many decisions rendered in each province by local tribunals have been appealed from by: (a) recruits; (b) representatives or military authorities. 6. In how many appeal cases have decisions been rendered in each province, how many appeals have been allowed, and how many rejected in each province. 7. How many cases are still pending before the Central Appeal Judge. 8. Whether it is the intention of the military authorities or public representatives to appeal in some other cases, either before the appeal tribunal or before the Central Appeal Judge. 9. If so, how many in each province. Presented April 24, 1918.—Mr. Trahan. Not printed.

123. Return to an Order of the House of the 8th April, 1918, for a copy of all correspondence, certificates, recommendations and other documents in reference to the granting of a total disability pension to Colonel R. H. Labatt. Presented April 24, 1918.—Mr. Copp. Not printed.

124. Return to an Order of the House of the 24th April, 1918, for a return showing:—1. Upon whose recommendation the returning officer for the county of Jolliet, in the last Federal election, was appointed. 2. Whether enumerators were appointed in accordance with paragraph one, section forty-two, of the Dominion Elections Act, as amended by the War-time Elections Act of 1917. 3. If so, the names of the enumerators so appointed, when the list of such enumerators was sent, and to what person or persons said list was sent. Presented April 25, 1918.—Mr. Denis. Not printed.

125. Copy of Order in Council, P.C. 812, dated 5th April, 1918.—Regulations governing the Soldiers Settlement Loan under the authority of the Soldier Settlement Act (Chapter 21, 7-8 George V). Presented by Hon. Mr. Melighen, April 26, 1918. Not printed.

126. Return to an Address to His Excellency the Governor General of the 25th March, 1918, for a copy of all letters and telegrams exchanged between the Dominion Government and the various provincial executives concerning the Order in Council of 22nd December, 1917, respecting the sale of securities by provincial, colonial or foreign governments, municipalities and other bodies. Presented April 29, 1918.—Mr. Lemieux. Not printed.
CONTENTS OF VOLUME 14—Continued.

127. Return to an Order of the House of the 25th March, 1918, for a return showing:—1. If any money has been paid to the Dundalk Herald, the Flesherton Advance, the Markdale Standard, the Durham Chronicle, the Grey Review, or the Hanover Post for advertising or for any other reason since 1st October, 1917. If so, how many was paid in the case of each of the papers mentioned. Presented April 29, 1918.—Mr. Cockbill. Not printed.

128. Return to an Order of the House of the 15th April, 1918, for a return showing:—1. The officers employed at Quebec on the staff of the Military District No. 5. 2. How long they have been connected with this branch. 3. What service each of them is performing. 4. What salary and allowance each of them is receiving. 5. Names of those amongst them who have performed service overseas. 6. How long they have been actually at the front. 7. How long they were in the trenches. 8. To which battalion they belonged while overseas. Presented April 29, 1918.—Mr. Power... Not printed.


130. Return to an Order of the House of the 24th April, 1918, for a return showing the details of certain totals being the estimated cost of street sewers, etc., given on figures 29 and 30 placed between pages 96-97 of Rural Planning and Development written by Thomas Adams, being a report published by the Commission of Conservation dated 1917. The said totals being $35,583, $26,726, $29,748 and $29,533. Presented May 1, 1918.—Mr. Lemieux... Not printed.

131. Statement of expenditure of the Dominion Publicity Committee in account with the Dominion Government, and in connection with the Victory Loan, 1917. Presented by Hon. Mr. Maclean, May 1, 1918.

131a. Report of Mr. A. E. Ames, Chairman of the Dominion Executive Committee of Canada, in connection with the Victory Loan, 1917. Presented by Hon. Mr. Maclean, May 1, 1918... Not printed.


132. Return to an Order of the House of the 3rd April, 1918, for a return showing:—1. How many local tribunals were established throughout Canada under the Military Service Act. 2. What remuneration per diem was allowed each member of such tribunal. 3. What was remuneration per day for Secretary of tribunal and also for constables or caretaker of the tribunal sessional chamber. 4. What has been the total expenditure to date on account of tribunals under the Military Service Act. 5. Whether there are any outstanding claims unpaid. Presented May 1, 1918.—Mr. White (Victoria). Not printed.


134. Return showing—1. Whether the building of the hospital for invalid soldiers at Ste. Anne de Bellevue is under Government control. 2. If not, through whose agency. Whether it is being built by contract or under the supervision of any public body. 3. What sum has been paid by the Government for the land where this hospital is being erected. 4. What the cost of construction will be. 5. How many invalid soldiers it will accommodate. 6. How far this hospital is from Macdonald College. 7. Whether the Government has considered the very grave inconvenience which may result from the erecting of such an institution in the vicinity of a college where hundreds of young ladies are being educated. Presented May 1, 1918.—Mr. Boyer. Not printed.

135. Return to an Order of the Senate, dated April 23, 1918, giving the following information:—The names, dates of appointments, salaries or wages of all clerks and employees of the Department of Public Printing and Stationery, under the following heads:—(a) King's Printer's staff, including advertising. (b) Printing Branch. 1. Clerks. 2. Proofreaders. 3. Typesetting rooms: Mono, Linotype, Job and Parliamentary. 4. Press rooms: Platen and Cylinder. 5. Binding: Book, Pamphlet. 6. Stereotyping. 7. Map engraving. 8. Any other Departments. (c) Outside Printing Branch. (d) Accountants. (e) Stationery. (f) Distribution. (g) Mechaniclin staff. (h) Canadian Gazette. (i) Caretaker. (j) Any other Departments.—(The Senate)... Not printed.

136. Return showing—1. Whether tenders have been recently submitted to the Department of Militia and Defence or to the War Purchasing Commission for a supply of Smoked Wiltshire Bacon, at Toronto, Kingston and London. 2. If so, who the tenderers are, and what their prices are, in each case. 3. To whom the contract has been awarded in each case, and at what price. Presented May 2, 1918.—Mr. Murphy... Not printed.

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CONTENTS OF VOLUME 14—Continued.

137. Order in Council, P.C. 26/912, dated the 19th April, 1918, with regard to remissions made under section 88 of the Indian Act, chapter 81, R.S.C. 1906, of the interest on arrears of purchase price of Park Lot No. 19, in the village of Southampton, in the County of Bruce, Ontario, amounting to $18.—(The Senate). ...... Not printed.

138. Order in Council, P.P. 871, dated 23rd April, 1917, being regulations for the protection of migratory game birds, migratory insectivorous and migratory non-game birds, which inhabit Canada during the whole or any part of the year, under the authority of The Migratory Bird Act, 7-5 George V, 1917.—(The Senate). ...... Not printed.

139. Return to an Order of the House of the 6th May, 1918, for a return showing:—What the gross earnings of the National Transcontinental railway were for the year ending 31st March, 1918; how much was earned between Moncton and Quebec, between Quebec and Chocrane Junction, between Cochrane Junction and Winnipeg, and between Lake Superior Junction and Fort William, and the amount paid by that railway to the Canadian Pacific for terminal charges at Quebec. Presented May 13, 1918.—Mr. Lavigne. ...... Not printed.

140. Return to an Order of the House of the 24th April, 1918, for a copy of all correspondence, letters, telegram and other papers exchanged between the Food Controller and the Winnipe Civic Authorities concerning cold storage conditions at Winnipeg. Presented May 13, 1918.—Mr. Lemieux. ...... Not printed.


143. Return to an Order of the House, of the 24th April, 1918, for a copy of all correspondence and petitions passed between the Prime Minister and Civil Service Federation, concerning certain appointments made in the Post Office and Customs Departments since the 17th of December, 1917. Presented May 13, 1918.—Mr. Lemieux. Not printed.

144. Return showing:—1. Whether the Government is aware that in the past sixteen months in the Cities of Winnipeg, Hamilton, Toronto, Ottawa and Montreal, the following quantities of foodstuffs, are reported to have been ordered to be destroyed as unfit for human consumption;—(a) Meats: Winnipeg, 7,592 lbs.; Hamilton, 4,874 lbs.; Toronto, quantities not given in lbs., only sides, quarters, legs, etc.; Ottawa, 7,757 lbs.; Montreal, 105,995 lbs. (b) Poultry: Winnipeg, 11,364 lbs.; Hamilton, 8 foul; Montreal, 2,344 lbs. (c) Fish: Winnipeg, 9,066 lbs.; Toronto, 74,587 lbs., weight not given, only number of packages for remainder; Montreal, 12,993 lbs. (d) Vegetables: Winnipeg, 265,565 lbs.; Toronto, 5,555 lbs. cabbage, the rest weight not given, only crates, baskets, etc., also recently 45,010 lbs., or 24 tons of food unfit for human consumption; Montreal, 13,910 lbs. (e) Eggs: Winnipeg, 3,013 lbs.; Hamilton, 40 doz.; Toronto, 1,956 doz., 6 tubs, 1 pall, and 8 gallons yolk. (f) Butter: Winnipeg, 5,374 lbs.; Hamilton, 22 lbs. (g) Fruit (fresh and dried): Winnipeg, fresh, 48,375 lbs., dried, 37,207 lbs.; Hamilton, fresh, 12 baskets; Montreal, fresh, 3,362 lbs. 2. If so, what action the Government proposes taking to prevent a continuance of such waste. Presented May 13, 1918.—Mr. Foster (York).

145. Return showing:—1. Whether the Government is aware that 236,490 pounds of food were destroyed in the city of Toronto between April 4 and April 29, 1918, according to a report of one of the Departments of the Toronto City Corporation. 2. Whether the Food Controller has taken any action to stop such wholesale waste of food. 3. If so, what he has done in this particular case. Presented May 15, 1918.—Mr. Proulx. Not printed.

146. Return to an Order of the House of the 22nd April, 1918, for a return showing:—1. The names of all persons employed in connections with the work of preparing the Votes and Proceedings, the Order Paper and the Journals of the House (a) in English, and (b) in French, and the salary and other remuneration paid to each. 2. The number of each of these documents printed, (a) in English, and (b) in French, and the cost of printing and binding the same for the fiscal year ending the 31st of March, 1918. Presented May 15, 1918.—Mr. Currie. ..... Not printed.

147. Return to an Order of the House of the 22nd April, 1918, for a return showing:—1. The names of all persons employed in connection with the work of reporting and translating in the House. 2. How long each has been so employed. 3. The rate of remuneration paid to each during the past year, with the total amount paid to each class of persons. 4. Number of copies of the Debates of the House printed during the past year, (a) in English, and (b) in French, specifying the number of the un-revised and of the revised editions, respectively. 5. The cost of printing and binding the same for each year since 1900, inclusive. 6. The amounts paid in addition to the above, in each year since 1900, inclusive, for (a) reporting, (b) translating, (c) typewriting, and (d) printing proceedings before Parliamentary Committees. Presented May 15, 1918. Mr. Currie. Not printed.
148. Return to an Order of the House of the 24th April, 1918, for a return showing:—1. What control the Canadian Government has over the operations of the Imperial Royal Flying Corps in Canada, and what Department of the Government would exercise this control. 2. Whether the Canadian Government has any officers or representatives on the Canadian Branch of the Imperial Flying Corps. If so, what their names are, and what positions they occupy. 3. Whether the Canadian Government intends to take over all the offices, plant, and equipment, of the Imperial Royal Flying Corps in Canada at an early date. If not, why not. How many accidents and deaths have occurred in Canada, United States and Overseas among our flying men. 5. The nature of the investigations into these accidents, and where the records are kept. 6. Whether the Government of Canada at the close of the war intends to establish and maintain a Canadian Flying Corps. If so, what preparations are under way, with this end in view. 7. How many Canadians and how many Americans, have joined the Imperial Royal Flying Corps in Canada. 8. How many mechanics are employed by the Imperial Royal Flying Corps in Canada. 9. What amount of money has been expended in Canada by the Imperial Royal Flying Corps. 10. How many Canadian Officers who have seen air service overseas are in the employ of the Imperial Royal Flying Corps in Canada. Presented May 16, 1918.—Mr. Armstrong (Lambton).

148a. Return to an Order of the House of the 24th April, 1918, for a return showing:—1. What status the Canadian recruits of the Royal Flying Corps have in the military affairs of Canada. 2. In the case of permanent injury or death of Canadians in the Royal Flying Corps in the discharge of their duties, what provision has been made to pension their dependents. 3. How many men came to Canada from England to establish training camps for the Royal Flying Corps; if any of these men were returned to England. If so, how many have been replaced by Canadians. 4. What comparative results were obtained in training cadets at the training camps around Toronto and the camps located in Texas. 5. Whether the Royal Flying Corps went to Texas and remained there at the expense of, and on the request of the United States Government. 6. Whether the authorities of the Royal Flying Corps were asked to give consideration to a location in British Columbia. If so, what the nature of the request was. 7. If it is not a fact that the weather conditions in Texas proved very unfavourable for flying corps training purposes. 8. What investigations of a technical character were made of the air conditions in Texas before selecting that place as a training ground for our airmen. 9. What investigations were made as to the atmospheric and climatic conditions in British Columbia regarding the locating of an air squadron training camp in that province. 10. Whether the Imperial Munitions Board took an option to lease a large area of land at Delta, near Vancouver, B.C., to establish winter training camps for the Canadian training squadrons of the Royal Flying Corps, and whether tenders were asked for to erect tents, hangers, buildings, etc. If so, why these negotiations were dropped. 11. How many deaths in the Royal Flying Corps training camps in Texas resulted from atmospheric conditions, which are unfavourable to the successful training of aviators. 12. Whether any requests have been made to the Canadian Government for assistance to the Royal Flying Corps either through appropriation or gifts of money for training machines. If so, the nature of these requests. 13. Where the records are kept of the causes of injury or illness of Canadian cadets and mechanics of the Royal Flying Corps. 14. Whether English-born drill sergeants are exclusively employed in the training of Canadian cadets in the Royal Flying Corps in Canada. 15. What efforts have been made by the Government or any individuals or corporations in aid of the Royal Flying Corps in Canada, and whether the Government has extended any assistance to these individuals or organizations. 16. Whether any part of the grant of $100 provided by Order in Council for each aviator trained in Canada to defray a part of the expense incurred in training has been paid, or whether any request for payment has been made. Presented May 16, 1918.—Mr. Armstrong (Lambton). Not printed.


150. Return to an Order of the Senate dated 5th May, 1918, for a return giving a statement of imports of petroleum oils and spirits (gallons, value and duty) during each of the following fiscal years ending 31st March: 1909-1910-11-12-13-14-15-16-17, and for each month of the unexpired year ending 31st March, 1918. (The Senate). Not printed.


152. Return to an Address to His Excellency the Governor General of the 13th May, 1918, for a copy of the Order in Council appointing Mr. Main Johnson and passed under the War Measures Act as mentioned by Hon. Mr. Powell on page 1250 of Unrevised Hansard. Presented May 20, 1918.—Mr. Archambault. Not printed.

CONTENTS OF VOLUME 14—Concluded.

154. Return to an Order of the House of the 22nd April, 1918, for a return showing:—What amounts have been paid by the Government for printing or advertising to the Globe, Toronto, and the Devoir, Montreal, during each of the fiscal years ending 31st March, 1915, 1916, 1917 and 1918. Presented May 20, 1918.—Mr. McMaster. Not printed.

155. Return to an Order of the House of the 25th March, 1918, for a copy of all petitions, letters or communications of any kind either asking for or opposing the importation of coolie labour, from first of September last to date. Presented May 20, 1918.—Sir Wilfrid Laurier. Not printed.


157. Return to an Order of the Senate, dated 12th April, 1918, for a return giving:—1. The name, rank, and qualifications of each of the persons, upon whose advice and recommendation, lobster hatcheries, heretofore operated in Canada by the Department of Naval Affairs, are to remain closed. 2. Copies of the reports and recommendations (or if the same are published, the references thereto in official publications), which fully disclose all the facts, reasons, and grounds, upon which the Department makes its decision to abandon the policy of operating lobster hatcheries.—(The Senate). Not printed.


159. Return to an Order of the House of the 2nd May, 1918, for a return showing:—1. The amount paid the Toronto Globe and the Toronto Star respectively, from 1st January, 1917, to 1st April, 1918, for all service between the said dates. 2. Whether any contract of any kind was made with either of the said newspapers between the dates mentioned for advertising, publicity, or news editorial and feature service. 3. If so, by whom said contract or contracts were made, and what the particulars are thereof. Presented May 22, 1918.—Mr. Murphy. Not printed.

160. Return to an Order of the House of the 5th April, 1918, for a return showing:—1. What quantity of bran, shorts, or mill feed have been exported to the United States (a) by license; (b) without license, between 1st August, 1917, and 25th February, 1918. 2. To what firms in Canada licenses to export this feed have been granted, and for what quantity in each case. Presented May 22, 1918.—Mr. Kay. Not printed.

161. Return to an Order of the House of the 15th May, 1918, for a return showing:—1. The total amount paid to the Journal Publishing Company of Ottawa, Limited, during the fiscal years 1912-13-14-15-16-17 inclusive, for (a) rentals; (b) printing. 2. Whether the official cheques of the Government for said rentals and printing jobs were issued directly in favour of the above company, or to P. D. Ross, Esq. Presented May 23, 1918.—Mr. Brouillard. Not printed.

162. Return to an Order of the House of the 16th May, 1918, for a return showing:—1. The total number of the families of soldiers deceased since the beginning of the war, who receive pensions from the Government. 2. Of this number, how many reside in Great Britain, how many reside in Canada, and how many reside elsewhere. Presented May 23, 1918.—Mr. Seguin. Not printed.

163. Report dealing with the purchase and sale of Fordson tractors by the Canada Food Board. Presented by Hon. Mr. Crerar, May 23, 1918. Not printed.
ANNUAL REPORT

OF THE

DEPARTMENT OF THE INTERIOR

FOR THE

Fiscal Year ending March 31, 1917

PRINTED BY ORDER OF PARLIAMENT

OTTAWA
J. de LABROQUERIE TACHÉ
PRINTER TO THE KING'S MOST EXCELLENT MAJESTY
1918

[No. 25—1918.]
To His Excellency the Duke of Devonshire, K.G., P.C., G.C.M.G., G.C.V.O., etc., etc.,
Governor General and Commander in Chief of the Dominion of Canada.

MAY IT PLEASE YOUR EXCELLENCY:

The undersigned has the honour to lay before Your Excellency the report of the transactions of the Department of the Interior for the fiscal year ending March 31, 1917.

Respectfully submitted,

W. J. ROCHE,
Minister of the Interior.

OTTAWA, September 1, 1917.
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REPORT

OF THE

DEPARTMENT OF THE INTERIOR

1916-1917.

The Hon. W. J. Roche,
Minister of the Interior,
Ottawa.

I have the honour to submit the forty-fourth Annual Report of the Department of the Interior, for the twelve months ending the 31st March, 1917.

The past year is the best, as far as conditions in Western Canada are concerned, since the commencement of the war.

Reports from the outside offices of the department indicate that although settlement on new land may not be up to the standard of other years, still, the productiveness of existing settlement is much increased.

The revenue of the department is highly satisfactory, and shows quite a material increase over last year. Owing to the necessity for the strictest possible economy, all expenditures have been kept down to the extreme minimum, and the great efficiency maintained has been the result of the loyal co-operation of the officers of the department.

The large number of enlistments from the service of this department, both at Ottawa and outside, has meant rather an onerous increase in the amount of work carried on by those officers who have not been able to participate in the more glorious part of our national service overseas.

Nine of our patriotic boys have made the supreme sacrifice, and are now resting somewhere along the front bulwarks of the defenders of the liberties of the world.
STATEMENT showing Gross Cash Revenue received from all sources during the fiscal year ended March 31, 1917, compared with the receipts for the previous fiscal year.

<table>
<thead>
<tr>
<th>Source of Revenue</th>
<th>Fiscal Year 1916-17</th>
<th>Fiscal Year 1915-16</th>
<th>Increase</th>
<th>Decrease</th>
<th>Net Increase</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$ 8 cts.</td>
<td>$ 8 cts.</td>
<td>$ 8 cts.</td>
<td>$ 8 cts.</td>
<td>$ 8 cts.</td>
</tr>
<tr>
<td>Dominion Lands</td>
<td>4,159,905 55</td>
<td>2,443,479 92</td>
<td>1,716,425 63</td>
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<tr>
<td>School Lands</td>
<td>1,699,570 06</td>
<td>934,965 37</td>
<td>764,604 69</td>
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<tr>
<td>Ordnance Lands</td>
<td>5,553 26</td>
<td>5,997 98</td>
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<td></td>
<td>444 72</td>
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<td>Seed Grain</td>
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<td>2,725,528 50</td>
<td>1,127,200 55</td>
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<td></td>
</tr>
<tr>
<td>Casual Revenue</td>
<td>15,618 26</td>
<td>26,062 62</td>
<td></td>
<td></td>
<td>12,444 36</td>
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<tr>
<td>Registration Fees—Yukon</td>
<td>796 55</td>
<td>908 15</td>
<td></td>
<td></td>
<td>112 30</td>
</tr>
<tr>
<td>Fines and Forfeitures—N.W.T.</td>
<td>95 60</td>
<td>92 50</td>
<td></td>
<td></td>
<td>7 10</td>
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<tr>
<td>Fines under Immigration Act.</td>
<td>2,689 72</td>
<td>2,982 71</td>
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<td></td>
<td>293 99</td>
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<tr>
<td>Chinese Immigration Revenue.</td>
<td>140,487 00</td>
<td>19,389 00</td>
<td>121,098 00</td>
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<tr>
<td>Sales of land, Special Account.</td>
<td>407,125 71</td>
<td>398,597 70</td>
<td>8,528 01</td>
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<td></td>
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<tr>
<td></td>
<td>10,113,770 46</td>
<td>6,359,944 45</td>
<td>3,753,826 01</td>
<td>13,833 37</td>
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</tr>
</tbody>
</table>

Source of Revenue:  
- Dominion Lands  
- School Lands  
- Ordnance Lands  
- Seed Grain  
- Casual Revenue  
- Registration Fees—Yukon  
- Fines and Forfeitures—N.W.T.  
- Fines under Immigration Act.  
- Chinese Immigration Revenue.  
- Sales of land, Special Account.
<table>
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<tr>
<th>Particulars</th>
<th>1916-1917</th>
<th>1915-1916</th>
<th>Increase</th>
<th>Decrease</th>
<th>Net Increase</th>
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<td>112,820 18</td>
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<td>1,651 35</td>
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<td>7,793,833 32</td>
<td>1,553,500 20</td>
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<td>98,764 82</td>
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<td></td>
<td>15,871 42</td>
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<td>11,485 83</td>
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<td>6,977 35</td>
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<td>388 67</td>
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<td>188,955 02</td>
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<td>63,604 52</td>
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<td>462 52</td>
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<td>175,572 00</td>
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<td>1,486 65</td>
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<td>Export tax on gold</td>
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<td>111,457 19</td>
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<td></td>
<td>12,414 12</td>
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<td>Free Certificates for export of gold</td>
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<td>82 50</td>
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<td>44 50</td>
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<td>642 00</td>
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<td>13 00</td>
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<td>16,872 15</td>
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<td>470 00</td>
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<td>495 00</td>
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<td>245 00</td>
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<td>Suspense Account</td>
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<td>2,258 87</td>
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<td></td>
<td>1,601 47</td>
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<td>Interim Receipt Account Yukon</td>
<td>190 00</td>
<td>285 75</td>
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<td></td>
<td>95 76</td>
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<td>Sand, Stone and Gravel</td>
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<td>1,030 32</td>
<td>1,059 14</td>
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<td>92,424 37</td>
<td>94,565 57</td>
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<td>2,141 20</td>
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<td>Forestry Branch—Sale of trees, etc</td>
<td>3,155 32</td>
<td>2,205 01</td>
<td>1,050 21</td>
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<td>Miscellaneous</td>
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<td>Jasper Park</td>
<td>3,280 73</td>
<td>1,566 61</td>
<td>1,262 12</td>
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<td></td>
<td>11 80</td>
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<td>Yoho Park</td>
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<td>56 91</td>
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<td>Buffalo Park</td>
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<td>219 15</td>
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<td>Elk Island Park</td>
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<td>11 50</td>
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<td>Glacier Park</td>
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<td>583 50</td>
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<td>41 25</td>
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<td>Moose Mountain Buffalo Park</td>
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<td>52 00</td>
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<td></td>
<td>50 50</td>
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<td>Antelope Park</td>
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<td>205 20</td>
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<td></td>
<td>0</td>
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<td>Revelstoke Park</td>
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<td>Refunds</td>
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<td>98,071 68</td>
<td>1,746,425 63</td>
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<td>143,929 45</td>
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<tr>
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<td>2,299,550 47</td>
<td>1,842,411 71</td>
<td>88,384 77</td>
<td>1,756,111 94</td>
</tr>
</tbody>
</table>

In addition to $112,636.24 on account of General Sales the Department received $407,125.71 from sales of railway lands, which sum, as provided for by Orders in Council, has been credited to special accounts in the books of the Finance Department.
<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Homesteads Fees</th>
<th>Preemption Fees</th>
<th>Improvements</th>
<th>Sales</th>
<th>Map Sales, Office and Registration Fees, etc.</th>
<th>Dominion Lands Surveyors Examination Fees</th>
<th>Rents, Survey Fees, Miscellaneous, including Trust Account</th>
<th>Purchased, Homestead, Inspection, Cancellation and Survey Fees</th>
<th>Timber Dues</th>
</tr>
</thead>
<tbody>
<tr>
<td>1872-73</td>
<td>6,900 00</td>
<td>17,450.45</td>
<td>269 00</td>
<td>19,170 26</td>
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<td>109 25</td>
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<td>17,835.75</td>
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<td>320 00</td>
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<td>3,755 25</td>
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<tr>
<td>1875-76</td>
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<td>171,426 34</td>
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<tr>
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<tr>
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<th>Colonization Lands</th>
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* 1907-1908: Final months.
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* Including the scrip.
## Statement showing Yearly the Gross Revenue (in cash only) received from all sources from July 1, 1897, to March 31, 1917.

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<th>Ordnance Lands</th>
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<th>Registration Fees</th>
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<tr>
<td>1914-1915</td>
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<td>68,283 56</td>
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<td>588,124 00</td>
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<tr>
<td>1915-1916</td>
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<td>934,963 37</td>
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<td>3,673 21</td>
<td>908 15</td>
<td>28,002 62</td>
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<td>1,699,570 86</td>
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<td>5,555 26</td>
<td>2,183 72</td>
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<td>6,938,401 67</td>
<td>350,771 57</td>
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<td>667,819 48</td>
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<td>41,090,989 54</td>
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### Rocky Mountains Park

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<th>Increase</th>
<th>Decrease</th>
<th>Net Increase</th>
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<tbody>
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<td></td>
<td>1916-1917</td>
<td>1915-1916</td>
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<tr>
<td>Rent</td>
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<td>Timber dues</td>
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<td>Water rates (sulphur)</td>
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<td>Cold water rates</td>
<td>7,640 53</td>
<td>6,215 35</td>
<td>1,425 18</td>
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<td></td>
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<td>Pool, billiard and bowling licenses</td>
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<td>40 00</td>
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<td>Butcher licenses</td>
<td>120 00</td>
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<td>304 00</td>
<td>78 00</td>
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<td>1,975 02</td>
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<td>98 66</td>
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<tr>
<td>Fines</td>
<td>296 00</td>
<td>600 50</td>
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<td>304 50</td>
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<td>Peddlers' licenses</td>
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<td>19 00</td>
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<td>Tea room licenses</td>
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<td>127 00</td>
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<td>96 00</td>
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<td>170 00</td>
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<td>Sand</td>
<td>306 23</td>
<td>339 19</td>
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<td>33 96</td>
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<td>Impounding fees</td>
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<td>Ice</td>
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<td>15 25</td>
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<td>21 00</td>
<td>17 00</td>
<td></td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>94 26</td>
<td>26 80</td>
<td>67 46</td>
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<tr>
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<td></td>
<td>30 00</td>
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<tr>
<td>Garden and dairy</td>
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<td></td>
<td>25 00</td>
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<td>Gum machines</td>
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<td>108 00</td>
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<td>Electricians' licenses</td>
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<td></td>
<td>2 00</td>
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**Total:** $40,290 93  
**Net Increase:** $2,356 69

### Glacier Park

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Fiscal Years</th>
<th>Increase</th>
<th>Decrease</th>
<th>Net Increase</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1916-1917</td>
<td>1915-1916</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rent</td>
<td>227 25</td>
<td>204 75</td>
<td></td>
<td>23 50</td>
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<td>Camping permits</td>
<td>6 00</td>
<td>9 00</td>
<td></td>
<td>3 00</td>
</tr>
<tr>
<td>Gravel</td>
<td>290 50</td>
<td>290 50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grazing rental</td>
<td>18 00</td>
<td>18 00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Building permits</td>
<td>1 00</td>
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<td>1 00</td>
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</table>

**Total:** $542 25  
**Net Increase:** $1 30

### Jasper Park

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Fiscal Years</th>
<th>Increase</th>
<th>Decrease</th>
<th>Net Increase</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1916-1917</td>
<td>1915-1916</td>
<td></td>
<td></td>
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<tr>
<td>Timber dues</td>
<td>574 84</td>
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<td>149 48</td>
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<tr>
<td>Rent</td>
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<td>733 00</td>
<td>321 14</td>
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<td>51 00</td>
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<td>33 00</td>
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</tr>
<tr>
<td>Boat licenses and ferry fees</td>
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<td>1 50</td>
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<tr>
<td>Hay dues</td>
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<td>1 35</td>
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<tr>
<td>Peddlers' licenses</td>
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<td>6 00</td>
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</tr>
<tr>
<td>Grazing rental</td>
<td>67 00</td>
<td>104 00</td>
<td></td>
<td>37 00</td>
</tr>
<tr>
<td>Guides' licenses</td>
<td>5 00</td>
<td></td>
<td>5 00</td>
<td></td>
</tr>
<tr>
<td>Drivers' and livery licenses</td>
<td>18 00</td>
<td>12 00</td>
<td>6 00</td>
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</tr>
<tr>
<td>Camping permits</td>
<td>92 00</td>
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<td>67 00</td>
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</tr>
<tr>
<td>Pool, billiard and bowling licenses</td>
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<tr>
<td>Dog licenses</td>
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<td>4 00</td>
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<td>10 60</td>
<td>121 40</td>
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<tr>
<td>Telephone rent</td>
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<td></td>
<td>10 25</td>
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</table>

**Total:** $2,828 73  
**Net Increase:** $67 50

---

**Statement of Revenue collected within the Canadian National Parks for the Fiscal Year ended March 31, 1917, as compared with the previous year.**
DEPARTMENT OF THE INTERIOR

GEORGE V, A. 1918

Statement of Revenue collected within the Canadian National Parks for the Fiscal Year ended March 31, 1917, as compared with the previous year.—Continued.

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Fiscal Years</th>
<th>Increase</th>
<th>Decrease</th>
<th>Net Increase</th>
</tr>
</thead>
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<tr>
<td></td>
<td>1916-1917</td>
<td>1915-1916</td>
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<tr>
<td><strong>Yoho Park</strong></td>
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<tr>
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<td>Transfer fees</td>
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<td>$8.00</td>
<td>$4.00</td>
<td></td>
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<tr>
<td>Camping permits</td>
<td>$7.00</td>
<td>$3.00</td>
<td>$4.00</td>
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</tr>
<tr>
<td>Cemetery lots</td>
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<tr>
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<td>$0.25</td>
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<tr>
<td>Building permits</td>
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<td>$2.00</td>
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<td>Fines</td>
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<td>$3.50</td>
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<tr>
<td>Drivers' and livery licenses</td>
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</tr>
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<td>Boat licenses</td>
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<td>$47.00</td>
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<td></td>
</tr>
<tr>
<td>Building permits</td>
<td>$2.00</td>
<td></td>
<td>$2.00</td>
<td></td>
</tr>
<tr>
<td>Tea room licenses</td>
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<td>$10.00</td>
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<td>$20.00</td>
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<td></td>
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<td><strong>1,393.80</strong></td>
<td><strong>454.21</strong></td>
<td><strong>516.01</strong></td>
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<td>$1.50</td>
<td>$0.75</td>
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<tr>
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<td>$5.00</td>
<td>$4.00</td>
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</tr>
<tr>
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<td>$5.00</td>
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<td></td>
<td><strong>8.25</strong></td>
<td><strong>11.50</strong></td>
<td><strong>3.75</strong></td>
<td><strong>4.00</strong></td>
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<tr>
<td><strong>Buffalo Park</strong></td>
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(Continued.)
SESSIONAL PAPER No. 25

Statement of Revenue collected within the Canadian National Parks for the Fiscal Year ended March 31, 1917, as compared with the previous year.—Concluded.

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Fiscal Years</th>
<th>Increase</th>
<th>Decrease</th>
<th>Net Increase</th>
</tr>
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<tbody>
<tr>
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<td>1916-1917</td>
<td>1915-1916</td>
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<td>Moose Mt., Buffalo Park</td>
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<td>$ 8 cts.</td>
<td>$ 8 cts.</td>
<td>$ 8 cts.</td>
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<td>150</td>
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<td>50.50</td>
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<td>Antelope Park</td>
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<tr>
<td>Grazing rental</td>
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<td>205.20</td>
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<td>Total</td>
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<td>37,423.53</td>
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<td>3,165.71</td>
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</table>

Comparative Statement of the Homestead Entries and Sales made during the Fiscal Years ending March 31, 1916, and March 31, 1917, respectively.

<table>
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<th>Fiscal Year ending March 31, 1916</th>
<th>Fiscal Year ending March 31, 1917</th>
</tr>
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<td>Homesteads</td>
<td>No. of Entries</td>
<td>Acres.</td>
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<td>Sales</td>
<td>453</td>
<td>13,472</td>
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</table>
**Statement showing the number of Homestead Entries reported in each year since 1874.**

<table>
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<th>Number of Entries</th>
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<td>October</td>
<td></td>
</tr>
<tr>
<td>31, 1874</td>
<td>1,376</td>
</tr>
<tr>
<td>&quot; 31, 1875</td>
<td>499</td>
</tr>
<tr>
<td>&quot; 31, 1876</td>
<td>347</td>
</tr>
<tr>
<td>&quot; 31, 1877</td>
<td>845</td>
</tr>
<tr>
<td>&quot; 31, 1878</td>
<td>1,758</td>
</tr>
<tr>
<td>&quot; 31, 1879</td>
<td>4,068</td>
</tr>
<tr>
<td>&quot; 31, 1880</td>
<td>2,074</td>
</tr>
<tr>
<td>&quot; 31, 1881</td>
<td>2,753</td>
</tr>
<tr>
<td>&quot; 31, 1882</td>
<td>7,483</td>
</tr>
<tr>
<td>&quot; 31, 1883</td>
<td>6,063</td>
</tr>
<tr>
<td>&quot; 31, 1884</td>
<td>3,753</td>
</tr>
<tr>
<td>&quot; 31, 1885</td>
<td>1,855</td>
</tr>
<tr>
<td>&quot; 31, 1886</td>
<td>2,557</td>
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<tr>
<td>&quot; 31, 1887</td>
<td>2,936</td>
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<tr>
<td>&quot; 31, 1888</td>
<td>2,655</td>
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<td>&quot; 31, 1889</td>
<td>4,416</td>
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<td>&quot; 31, 1890</td>
<td>2,955</td>
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<td>&quot; 31, 1891</td>
<td>3,523</td>
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<td>&quot; 31, 1892</td>
<td>4,140</td>
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<td>&quot; 31, 1893</td>
<td>4,667</td>
</tr>
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<td>&quot; 31, 1894</td>
<td>3,209</td>
</tr>
<tr>
<td>December</td>
<td></td>
</tr>
<tr>
<td>31, 1895</td>
<td>2,394</td>
</tr>
<tr>
<td>&quot; 31, 1896</td>
<td>1,857</td>
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<td>&quot; 31, 1897</td>
<td>2,534</td>
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<td>&quot; 31, 1898</td>
<td>4,848</td>
</tr>
<tr>
<td>&quot; 31, 1899</td>
<td>6,689</td>
</tr>
<tr>
<td>June</td>
<td></td>
</tr>
<tr>
<td>30, 1900</td>
<td>7,426</td>
</tr>
<tr>
<td>&quot; 30, 1901</td>
<td>8,167</td>
</tr>
<tr>
<td>&quot; 30, 1902</td>
<td>14,673</td>
</tr>
<tr>
<td>&quot; 30, 1903</td>
<td>21,583</td>
</tr>
<tr>
<td>&quot; 30, 1904</td>
<td>26,673</td>
</tr>
<tr>
<td>&quot; 30, 1905</td>
<td>30,319</td>
</tr>
<tr>
<td>&quot; 30, 1906</td>
<td>41,869</td>
</tr>
<tr>
<td>Nine months ended March 31, 1907</td>
<td>21,647</td>
</tr>
<tr>
<td>Year ended March 31, 1908</td>
<td>30,424</td>
</tr>
<tr>
<td>&quot; 31, 1909</td>
<td>39,081</td>
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<tr>
<td>&quot; 31, 1910</td>
<td>41,568</td>
</tr>
<tr>
<td>&quot; 31, 1911</td>
<td>44,410</td>
</tr>
<tr>
<td>&quot; 31, 1912</td>
<td>41,153</td>
</tr>
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<td>&quot; 31, 1913</td>
<td>33,659</td>
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<td>&quot; 31, 1914</td>
<td>31,329</td>
</tr>
<tr>
<td>&quot; 31, 1915</td>
<td>24,688</td>
</tr>
<tr>
<td>&quot; 31, 1916</td>
<td>17,050</td>
</tr>
<tr>
<td>&quot; 31, 1917</td>
<td>11,190</td>
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STATEMENT showing the number of Homestead Entries made during the fiscal years ended March 31, 1916 and 1917, and the Nationality of the Homesteaders, as reported by the several agencies of the department in Manitoba, Saskatchewan, Alberta, and British Columbia.

<table>
<thead>
<tr>
<th>Nationalities</th>
<th>No. of Entries 1916</th>
<th>No. of Entries 1917</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canadians from Quebec</td>
<td>505</td>
<td>496</td>
</tr>
<tr>
<td>&quot; Ontario</td>
<td>1,885</td>
<td>1,500</td>
</tr>
<tr>
<td>&quot; Nova Scotia</td>
<td>157</td>
<td>124</td>
</tr>
<tr>
<td>&quot; New Brunswick</td>
<td>82</td>
<td>70</td>
</tr>
<tr>
<td>&quot; Prince Edward Island</td>
<td>54</td>
<td>51</td>
</tr>
<tr>
<td>&quot; Manitoba</td>
<td>1,137</td>
<td>657</td>
</tr>
<tr>
<td>&quot; Saskatchewan</td>
<td>250</td>
<td>284</td>
</tr>
<tr>
<td>&quot; Alberta</td>
<td>310</td>
<td>233</td>
</tr>
<tr>
<td>&quot; British Columbia</td>
<td>63</td>
<td>68</td>
</tr>
<tr>
<td>Persons who had previous entry</td>
<td>2,779</td>
<td>1,642</td>
</tr>
<tr>
<td>Newfoundlanders</td>
<td>14</td>
<td>4</td>
</tr>
<tr>
<td>Canadians returned from the United States</td>
<td>19</td>
<td>17</td>
</tr>
<tr>
<td>Americans</td>
<td>2,416</td>
<td>1,754</td>
</tr>
<tr>
<td>English</td>
<td>2,374</td>
<td>1,499</td>
</tr>
<tr>
<td>Scotch</td>
<td>760</td>
<td>496</td>
</tr>
<tr>
<td>Irish</td>
<td>314</td>
<td>194</td>
</tr>
<tr>
<td>French</td>
<td>111</td>
<td>65</td>
</tr>
<tr>
<td>Belgians</td>
<td>163</td>
<td>46</td>
</tr>
<tr>
<td>Swiss</td>
<td>37</td>
<td>30</td>
</tr>
<tr>
<td>Italians</td>
<td>100</td>
<td>48</td>
</tr>
<tr>
<td>Roumanians</td>
<td>40</td>
<td>24</td>
</tr>
<tr>
<td>Syrians</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Germans</td>
<td>170</td>
<td>75</td>
</tr>
<tr>
<td>Austro-Hungarians</td>
<td>1,745</td>
<td>735</td>
</tr>
<tr>
<td>Hollanders</td>
<td>50</td>
<td>11</td>
</tr>
<tr>
<td>Danes (other than Icelanders)</td>
<td>100</td>
<td>57</td>
</tr>
<tr>
<td>Icelanders</td>
<td>74</td>
<td>36</td>
</tr>
<tr>
<td>Swedes</td>
<td>342</td>
<td>255</td>
</tr>
<tr>
<td>Norwegians</td>
<td>309</td>
<td>226</td>
</tr>
<tr>
<td>Russians (other than Finns)</td>
<td>719</td>
<td>489</td>
</tr>
<tr>
<td>Finns</td>
<td>4</td>
<td>9</td>
</tr>
<tr>
<td>Jews</td>
<td>6</td>
<td>4</td>
</tr>
<tr>
<td>Chinese</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Japanese</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Turks</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>Australians</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>New Zealanders</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Serbians</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>Bulgarians</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>Hindoos</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>South Africans</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Central Americans</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Montenegrins</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Arabians</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Brazilians</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>South Americans</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Spanish</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Portuguese</td>
<td>1</td>
<td>7</td>
</tr>
<tr>
<td>Poles</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Armenians</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Jamaicans</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Greeks</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Mexicans</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>17,030</td>
<td>11,199</td>
</tr>
</tbody>
</table>

Number of souls represented by above entries, 38,553—1916. " " " " 25,791—1917.
Statement showing the number of Letters Patent issued by the Department of the Interior for Dominion Lands since 1873, and the number of acres patented.

<table>
<thead>
<tr>
<th>Period</th>
<th>Number of Patents Issued</th>
<th>Acreage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1873, May to December 31</td>
<td>420</td>
<td>67,200</td>
</tr>
<tr>
<td>1874, January 1 to December 31</td>
<td>577</td>
<td>92,320</td>
</tr>
<tr>
<td>1875, January 1 to October 31</td>
<td>464</td>
<td>74,240</td>
</tr>
<tr>
<td>1876, year ended October 31</td>
<td>318</td>
<td>50,880</td>
</tr>
<tr>
<td>1877</td>
<td>2,437</td>
<td>478,840</td>
</tr>
<tr>
<td>1878</td>
<td>2,837</td>
<td>482,880</td>
</tr>
<tr>
<td>1879</td>
<td>2,663</td>
<td>426,080</td>
</tr>
<tr>
<td>1880</td>
<td>1,084</td>
<td>173,440</td>
</tr>
<tr>
<td>1881</td>
<td>1,885</td>
<td>400,802</td>
</tr>
<tr>
<td>1882</td>
<td>2,197</td>
<td>596,785</td>
</tr>
<tr>
<td>1883</td>
<td>3,341</td>
<td>831,341</td>
</tr>
<tr>
<td>1884</td>
<td>3,896</td>
<td>969,604</td>
</tr>
<tr>
<td>1885</td>
<td>3,533</td>
<td>838,464</td>
</tr>
<tr>
<td>1886</td>
<td>4,579</td>
<td>942,055</td>
</tr>
<tr>
<td>1887</td>
<td>4,559</td>
<td>1,071,304</td>
</tr>
<tr>
<td>1888</td>
<td>3,275</td>
<td>647,644</td>
</tr>
<tr>
<td>1889</td>
<td>3,282</td>
<td>661,636</td>
</tr>
<tr>
<td>1890</td>
<td>3,273</td>
<td>626,019</td>
</tr>
<tr>
<td>1891</td>
<td>2,449</td>
<td>411,073</td>
</tr>
<tr>
<td>1892</td>
<td>2,955</td>
<td>549,257</td>
</tr>
<tr>
<td>1893</td>
<td>2,936</td>
<td>592,691</td>
</tr>
<tr>
<td>1894</td>
<td>2,553</td>
<td>420,258</td>
</tr>
<tr>
<td>1894, November and December,</td>
<td>413</td>
<td>69,102</td>
</tr>
<tr>
<td>1895, year ended December 31</td>
<td>2,118</td>
<td>348,964</td>
</tr>
<tr>
<td>1896</td>
<td>2,665</td>
<td>531,861</td>
</tr>
<tr>
<td>1897</td>
<td>2,972</td>
<td>496,859</td>
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<tr>
<td>1898</td>
<td>3,087</td>
<td>616,671</td>
</tr>
<tr>
<td>1899</td>
<td>3,904</td>
<td>714,748</td>
</tr>
<tr>
<td>January 1, 1900, to June 30</td>
<td>1,970</td>
<td>310,501</td>
</tr>
<tr>
<td>1901, year ended June 30</td>
<td>6,461</td>
<td>6,846,857</td>
</tr>
<tr>
<td>1902</td>
<td>8,768</td>
<td>4,711,104</td>
</tr>
<tr>
<td>1903</td>
<td>7,349</td>
<td>3,280,388</td>
</tr>
<tr>
<td>1904</td>
<td>5,896</td>
<td>2,882,579</td>
</tr>
<tr>
<td>1905</td>
<td>8,738</td>
<td>6,157,354</td>
</tr>
<tr>
<td>1906</td>
<td>12,370</td>
<td>4,161,345</td>
</tr>
<tr>
<td>July 1, 1906, to March 31, 1907</td>
<td>19,596</td>
<td>2,961,330</td>
</tr>
<tr>
<td>1908, year ended March 31</td>
<td>18,690</td>
<td>6,138,977</td>
</tr>
<tr>
<td>1909</td>
<td>22,431</td>
<td>4,215,326</td>
</tr>
<tr>
<td>1910</td>
<td>22,884</td>
<td>3,662,259</td>
</tr>
<tr>
<td>1911</td>
<td>21,754</td>
<td>3,710,288</td>
</tr>
<tr>
<td>1912</td>
<td>19,334</td>
<td>3,153,388</td>
</tr>
<tr>
<td>1913</td>
<td>24,965</td>
<td>4,920,388</td>
</tr>
<tr>
<td>1914</td>
<td>31,063</td>
<td>5,192,141</td>
</tr>
<tr>
<td>1915</td>
<td>24,260</td>
<td>3,996,013</td>
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<tr>
<td>1916</td>
<td>18,969</td>
<td>3,688,636</td>
</tr>
<tr>
<td>1917</td>
<td>18,774</td>
<td>3,019,178</td>
</tr>
<tr>
<td></td>
<td>357,499</td>
<td>85,259,080</td>
</tr>
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</table>
**REPORT OF THE DEPUTY MINISTER**

**SESSIONAL PAPER No. 25**

Statement showing number of Homestead Entries granted in the provinces of Manitoba, Saskatchewan, Alberta and British Columbia for Fiscal Year 1916-17, as compared with Fiscal Year 1915-16.

<table>
<thead>
<tr>
<th>Agency</th>
<th>1916-17</th>
<th>1915-16</th>
<th>Increase</th>
<th>Decrease</th>
</tr>
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<tbody>
<tr>
<td><strong>MANITOBA.</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brandon</td>
<td>1,065</td>
<td>1,636</td>
<td></td>
<td>661</td>
</tr>
<tr>
<td>Dauphin</td>
<td>1,271</td>
<td>2,238</td>
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<td>967</td>
</tr>
<tr>
<td>Total</td>
<td>2,336</td>
<td>3,874</td>
<td></td>
<td>1,538</td>
</tr>
<tr>
<td><strong>SASKATCHEWAN.</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Battleford</td>
<td>518</td>
<td>739</td>
<td></td>
<td>221</td>
</tr>
<tr>
<td>Estevan</td>
<td>1</td>
<td>23</td>
<td></td>
<td>22</td>
</tr>
<tr>
<td>Humboldt</td>
<td>534</td>
<td>346</td>
<td></td>
<td>188</td>
</tr>
<tr>
<td>Moose Jaw</td>
<td>546</td>
<td>708</td>
<td></td>
<td>162</td>
</tr>
<tr>
<td>Prince Albert</td>
<td>736</td>
<td>1,225</td>
<td></td>
<td>489</td>
</tr>
<tr>
<td>Meadow Lake</td>
<td>7</td>
<td>7</td>
<td></td>
<td>0</td>
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<tr>
<td>Regina</td>
<td>332</td>
<td>439</td>
<td></td>
<td>107</td>
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<tr>
<td>Swift Current</td>
<td>433</td>
<td>765</td>
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<td>332</td>
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<tr>
<td>Yorkton</td>
<td>380</td>
<td>661</td>
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<td>281</td>
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<td>Total</td>
<td>4,195</td>
<td>6,217</td>
<td>2,022</td>
<td>1,392</td>
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<tr>
<td><strong>ALBERTA.</strong></td>
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<td></td>
</tr>
<tr>
<td>Calgary</td>
<td>511</td>
<td>685</td>
<td></td>
<td>174</td>
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<tr>
<td>Edmonton</td>
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<td>3,202</td>
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<td>1,344</td>
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<tr>
<td>Fort McMurray</td>
<td>235</td>
<td>39</td>
<td></td>
<td>276</td>
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<tr>
<td>High Prairie</td>
<td>836</td>
<td>968</td>
<td></td>
<td>132</td>
</tr>
<tr>
<td>Lethbridge</td>
<td>71</td>
<td>27</td>
<td></td>
<td>44</td>
</tr>
<tr>
<td>Medicine Hat.</td>
<td>158</td>
<td>201</td>
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<td>43</td>
</tr>
<tr>
<td>Peace River</td>
<td>443</td>
<td>338</td>
<td></td>
<td>105</td>
</tr>
<tr>
<td>Red Deer</td>
<td>250</td>
<td>429</td>
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<td>179</td>
</tr>
<tr>
<td>Total</td>
<td>4,590</td>
<td>6,410</td>
<td>1,820</td>
<td>1,820</td>
</tr>
<tr>
<td><strong>BRITISH COLUMBIA.</strong></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Kamloops</td>
<td>179</td>
<td>236</td>
<td></td>
<td>57</td>
</tr>
<tr>
<td>New Westminster</td>
<td>47</td>
<td>123</td>
<td></td>
<td>76</td>
</tr>
<tr>
<td>Revelstoke</td>
<td>51</td>
<td>54</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>268</td>
<td>413</td>
<td></td>
<td>145</td>
</tr>
</tbody>
</table>

Grand total fiscal year 1915-16: 17,039

"  " 1916-17: 11,199

Net decrease for fiscal year 1916-17: 5,831
Statement of Land Sales by Railway Companies having

<table>
<thead>
<tr>
<th>Year</th>
<th>Hudson’s Bay Company</th>
<th>Canadian Pacific Railway Company</th>
<th>Manitoba Southwestern Colonization Railway Company</th>
<th>Qu’Appelle, Long Lake and Saskatchewan Railroad and Steamboat Company</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Acres</td>
<td>Amount</td>
<td>Acres</td>
<td>Amount</td>
</tr>
<tr>
<td>1893</td>
<td>7,526</td>
<td>48,255</td>
<td>93,184</td>
<td>295,388</td>
</tr>
<tr>
<td>1894</td>
<td>4,431</td>
<td>23,209</td>
<td>43,175</td>
<td>131,629</td>
</tr>
<tr>
<td>1895</td>
<td>15,099</td>
<td>86,624</td>
<td>55,413</td>
<td>176,350</td>
</tr>
<tr>
<td>1896</td>
<td>10,784</td>
<td>53,277</td>
<td>135,021</td>
<td>431,095</td>
</tr>
<tr>
<td>1897</td>
<td>62,000</td>
<td>310,000</td>
<td>242,135</td>
<td>757,739</td>
</tr>
<tr>
<td>1898</td>
<td>56,875</td>
<td>274,665</td>
<td>261,882</td>
<td>814,837</td>
</tr>
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<td>1899</td>
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<td>352,651</td>
<td>374,001</td>
<td>1,152,336</td>
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<td>82,308</td>
<td>398,904</td>
<td>329,987</td>
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<td>230,577</td>
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<td>1,899,804</td>
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<tr>
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<td>144,857</td>
<td>875,319</td>
<td>857,474</td>
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<td>139,731</td>
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<td>1905</td>
<td>230,101</td>
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<tr>
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<td>69,158</td>
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<td>268,866</td>
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<tr>
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<td>635,585</td>
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<td>42,554</td>
<td>808,943</td>
<td>835,280</td>
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<tr>
<td>1912</td>
<td>53,581</td>
<td>1,128,806</td>
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<tr>
<td>1913</td>
<td>26,292</td>
<td>572,837</td>
<td>263,992</td>
<td>4,212,080</td>
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<td>1914</td>
<td>17,500</td>
<td>306,560</td>
<td>151,232</td>
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<td>1915</td>
<td>25,030</td>
<td>1,273,144</td>
<td>242,515</td>
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<td>304,941</td>
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<td>2,384,100</td>
<td>23,143,525</td>
<td>12,219,382</td>
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Amount: 1,693

Acres: 2,384,100

Amount: 1,693
### Calgary and Edmonton Railway Company

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<th>Acres</th>
<th>Amount</th>
<th>Acres</th>
<th>Amount</th>
<th>Acres</th>
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</tr>
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<tbody>
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<td>$</td>
</tr>
<tr>
<td>11,290</td>
<td>75,644</td>
<td>231,736</td>
<td>196,946</td>
<td>1,746,504</td>
<td>1,294</td>
<td>13,835</td>
<td>34,603</td>
</tr>
<tr>
<td>11,053</td>
<td>66,508</td>
<td>231,736</td>
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<td>13,835</td>
<td>34,603</td>
</tr>
<tr>
<td>46,815</td>
<td>52,037</td>
<td>313,575</td>
<td>17,593</td>
<td>103,564</td>
<td>990,995</td>
<td>5,046,572</td>
<td>5.09</td>
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<tr>
<td>10,553</td>
<td>52,037</td>
<td>313,575</td>
<td>17,593</td>
<td>103,564</td>
<td>990,995</td>
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<td>5.09</td>
</tr>
<tr>
<td>9,481</td>
<td>46,469</td>
<td>244,419</td>
<td>1,221,468</td>
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<td>103,564</td>
<td>990,995</td>
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<td>15,481</td>
<td>52,037</td>
<td>313,575</td>
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<td>990,995</td>
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<td>24,738</td>
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<td>2,201,795</td>
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### Canadian Northern Railway Company

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<th>Amount</th>
<th>Acres</th>
<th>Amount</th>
<th>Acres</th>
<th>Amount</th>
</tr>
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<tbody>
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<td>34,603</td>
<td>3,052,461</td>
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<td>3,052,461</td>
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<td>571</td>
<td>6,863</td>
<td>1,184,700</td>
<td>15,265,298</td>
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<td>11,820</td>
<td>116,231</td>
<td>277,414</td>
<td>3,356,977</td>
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<td>27,317</td>
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<td>19,123,937</td>
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<td>365,926</td>
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<td>1,601</td>
<td>32,105</td>
<td>707,149</td>
<td>9,872,155</td>
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<td>182,491</td>
<td>2,009,642</td>
<td>1,601</td>
<td>32,105</td>
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<td>2,783,016</td>
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<tr>
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### Great Northwest Central Railway Company

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<th>Acres</th>
<th>Amount</th>
<th>Acres</th>
<th>Amount</th>
<th>Acres</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
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<td>$</td>
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<tr>
<td>1,378,735</td>
<td>6,679,156</td>
<td>2,482,946</td>
<td>20,492,118</td>
<td>231,494</td>
<td>1,311,242</td>
<td>21,293,403</td>
<td>155,093,920</td>
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</table>

**Totals**

<table>
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<tr>
<th>Acres</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>13,835</td>
<td>34,603</td>
</tr>
<tr>
<td>3,052,461</td>
<td>5,046,572</td>
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</table>

**Average per cent.**

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<tr>
<td>3.02</td>
</tr>
<tr>
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<td>2.23</td>
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<td>3.18</td>
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<td>2.89</td>
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<tr>
<td>13.95</td>
</tr>
<tr>
<td>14.75</td>
</tr>
<tr>
<td>17.01</td>
</tr>
<tr>
<td>15.32</td>
</tr>
<tr>
<td>16.35</td>
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**Government Land Grants, and by the Hudson's Bay Company.**
### The Land Situation, Manitoba, Saskatchewan, and Alberta, corrected January 1, 1917.

<table>
<thead>
<tr>
<th>Province</th>
<th>Surveyed Area</th>
<th>Unsurveyed Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manitoba</td>
<td>31,330,899</td>
<td>4,088,237</td>
</tr>
<tr>
<td>Saskatchewan</td>
<td>76,985,339</td>
<td>1,879,666</td>
</tr>
<tr>
<td>Alberta</td>
<td>83,132,860</td>
<td>2,268,865</td>
</tr>
<tr>
<td>Totals</td>
<td>191,979,098</td>
<td>8,236,758</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Province</th>
<th>Total Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manitoba</td>
<td>143,570,698</td>
</tr>
<tr>
<td>Saskatchewan</td>
<td>152,340,320</td>
</tr>
<tr>
<td>Alberta</td>
<td>158,878,660</td>
</tr>
<tr>
<td>Totals</td>
<td>454,789,678</td>
</tr>
</tbody>
</table>

A large proportion of the unsurveyed area has not yet been explored except in a very partial way, and the area suitable for agriculture cannot be estimated with any degree of accuracy.

### Detailed Statement of Surveyed Areas in Manitoba, Saskatchewan, and Alberta, January 1, 1917.

<table>
<thead>
<tr>
<th>Area under Homestead (including Military Homesteads)</th>
<th>Manitoba</th>
<th>Saskatchewan</th>
<th>Alberta</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acres.</td>
<td>8,371,000</td>
<td>26,313,000</td>
<td>17,956,000</td>
<td>53,635,000</td>
</tr>
<tr>
<td>Area under Pre-emption and Purchased Homesteads</td>
<td>5,908,500</td>
<td>2,268,000</td>
<td>8,176,500</td>
<td>16,351,000</td>
</tr>
<tr>
<td>Area under Northwest Half-Breeds Scrip, Sales and Special Grants.</td>
<td>4,235,000</td>
<td>2,727,000</td>
<td>1,962,000</td>
<td>8,924,000</td>
</tr>
<tr>
<td>Area granted to Railway Companies</td>
<td>3,566,997</td>
<td>15,177,063</td>
<td>13,130,014</td>
<td>31,874,074</td>
</tr>
<tr>
<td>Area granted to Hudson's Bay Company</td>
<td>3,088,188</td>
<td>2,104,141</td>
<td>5,192,330</td>
<td>13,384,669</td>
</tr>
<tr>
<td>Area of School Land Endowment</td>
<td>3,957,700</td>
<td>3,424,000</td>
<td>7,381,700</td>
<td>14,763,400</td>
</tr>
<tr>
<td>Area sold under Irrigation System</td>
<td>3,689,028</td>
<td>786,680</td>
<td>4,475,700</td>
<td>13,857,406</td>
</tr>
<tr>
<td>Area of Manitoba Swamp Lands disposed of by the</td>
<td>3,689,028</td>
<td>786,680</td>
<td>4,475,700</td>
<td>13,857,406</td>
</tr>
<tr>
<td>Province</td>
<td>848,154</td>
<td>848,154</td>
<td>1,696,308</td>
<td>3,391,600</td>
</tr>
</tbody>
</table>

*Area under Timber Licenses. | 1,176,969 | 1,309,300 | 1,309,300 | 3,391,500 |

*Area under Grazing Leases. | 65,300 | 2,518,300 | 2,583,600 | 5,308,000 |

*Area of Forest Reserves and Parks. | 2,696,490 | 6,195,700 | 16,813,400 | 22,615,500 |

*Area of Road Allowances. | 964,943 | 1,466,647 | 2,431,590 | 3,806,200 |

*Area of Parish and River Lots. | 503,419 | 82,452 | 112,468 | 706,346 |

*Area of Indian Reserves. | 432,884 | 1,187,130 | 1,623,366 | 3,243,380 |

*Area of Indian Reserves Surrendered. | 87,560 | 326,738 | 312,906 | 726,300 |

*Area of Water-Covered Lands (Surveyed Area). | 4,988,257 | 1,879,156 | 2,368,956 | 9,237,375 |

*Area Reserved for Forestry Purposes (Inside Surveyed Tract). | 746,300 | 1,430,000 | 1,666,000 | 3,842,300 |

*Area now available for Entry. | 4,963,700 | 4,761,400 | 16,396,000 | 26,121,100 |

Total Surveyed Area. | 35,419,136 | 78,774,995 | 85,621,723 | 200,215,856 |

* Area not available for Cultivation.
THE UNEXPLOITED NORTH.

With the advent of the railway, the northern portions of the provinces of Manitoba, Saskatchewan, and Alberta are coming more and more into prominence. Northern Manitoba has been almost crossed by the Hudson Bay railway, from Pas to Nelson. In northern Alberta the steel now connects Edmonton with Peace River, Spirit River, and Grande Prairie in the Northwest, with Athabaska 100 miles due north, and with McMurray 290 miles to the northeast. The extension of the line from Spirit River to Pouce Coupé is well under way. All told, nearly 700 miles of railway have been completed in Alberta, north of Edmonton. Northern Saskatchewan is not quite so well served in the matter of railways, but several branches of the transcontinental roads are running into Prince Albert from the south, with a spur to the northwest, of some fifty miles. All these roads have been pushed ahead during the past three years, notwithstanding the tremendously adverse conditions created by the world war. In addition, the great waterways of the Peace, Saskatchewan, and Athabaska rivers, and the lakes Winnipeg and Lesser Slave, are now being traversed by modern freight and passenger steamers of considerable capacity.

British capital, largely furnished by the well-known Lord Rhondda—the present Food Controller of Great Britain—is being utilized to develop the Peace River district, with an already marked effect. The three great industries of agriculture, lumbering, and mining will soon be definitely tested, as to their ultimate possibilities; in these northern areas. Of the three, it is probable that the matter of the country’s ultimate prosperity will have to depend chiefly on the uncovered mineral deposits, the indications of which are becoming more and more encouraging from day to day.

Northern Manitoba has been attracting considerable attention within the past two seasons. In the summer of 1916, Messrs. Wallace and Delury, of the University of Manitoba—acting for the Provincial Government—made an exploratory tour of this new part of the province, and published a report which was replete with valuable information, not only as regards the mineral wealth of the district, but also the possibilities with respect to timber, water-powers, agricultural, and other natural resources.

As recently as last July, a great amount of actual work was in progress in the mineral belt on both sides of the Hudson Bay railway. Much of it was of a prospecting nature, but in several cases sulphide ore was being exported. The agricultural possibilities, too, along the line of the Hudson Bay railway appear very promising.

In northern Saskatchewan the work of investigation and report has not been so fully overtaken; although both the Forestry and Dominion Water Power Branches have gathered considerable data of a valuable nature. While the southern portions of this province have naturally been settled earliest, the central districts are rapidly filling up. There are, however, many acres of rich, fertile land open for the homesteader, both north and south of the Saskatchewan river: As has been said, several lines of railway are now running in to Prince Albert from the south, with one branch to the north. The advent of these roads will settle the great question of transportation. North of Prince Albert lies an immense forest district, stretching to the confines of the province. While the timber is comparatively small, many millions of feet of it will undoubtedly be converted into pulp, railway ties, etc., as the march of settlement advances.
When the population of this portion of Saskatchewan is sufficient to warrant the expenditure, the great river and its tributaries will furnish enormous water-power for industries of every description. Saskatchewan, besides being the largest wheat producer in Canada of the different provinces, has also the greatest timber output of the three prairie provinces, averaging, for spruce alone over two and one-half million dollars annually.

As to the province of Alberta, the Peace River district is now attracting the most attention, having come to the fore through the rapid railway development which has been carried north and west of Edmonton. With the cessation of hostilities in Europe, there will undoubtedly be a great influx of settlers from Britain and allied countries into this new-old corner of Alberta. Eighty per cent of the wood of this province is spruce, which augurs well for the development of a large pulp industry, carrying with it the ultimate establishment of many paper mills. As regards coal areas, it is not usually known that Alberta is the richest province in Canada, the deposits covering over 20,000 square miles in extent.

DESCRIPTION OF THE WORK OF THE TOPOGRAPHICAL SURVEYS BRANCH.

The number of survey parties engaged on the survey of Dominion Lands was reduced from sixty-five in 1915 to fifty in 1916. This was done in order to reduce expenditure during the war.

All the fifty parties were employed on daily pay, as no more work is being executed under contract. They were distributed as follows: Six parties in Manitoba, twelve in Saskatchewan, seventeen in Alberta, five in British Columbia, one in the Yukon Territory, and nine partly in one province and partly in another.

Only three parties were employed on base lines. They ran 568 miles in northern Alberta and northern Saskatchewan. One party was engaged in retracing old base lines, where errors were known to exist. 513 miles being surveyed in this way.

Fifteen parties were engaged on regular subdivision in Manitoba, Saskatchewan, and Alberta, and five parties worked in the railway belt of British Columbia.

Owing to the abrogation of the contract system, two surveyors were sufficient for inspection. These were not in charge of regular parties, but hired assistance locally when required.

The delimitation of the interprovincial boundary between Alberta and British Columbia was continued under the same arrangements as for the preceding year. The line is now marked in the passes from the international boundary to the main line of the Canadian Pacific railway.

Eleven surveyors were employed in revising the survey of lakes and rivers in townships subdivided many years ago in Saskatchewan and Alberta. Over 650 townships were investigated, and over 3,000 lakes were traversed.

Levelling on subdivision and block outlines was carried on as formerly, and several lines of precise levels were also run to connect up lines already levelled.

Three survey parties were engaged on miscellaneous subdivision, three on retracement and resurvey, and four surveyors were employed on scattered miscellaneous surveys, where the amount of work to be done did not at any one place warrant the expense of a survey party.
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Following is the usual table showing the subdivision or settlement survey work completed each year since the inception of the surveys, with the result of last season’s operations added:—

<table>
<thead>
<tr>
<th>Period</th>
<th>Acres</th>
<th>Number of farms of 160 acres each.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Previous to June, 1873</td>
<td>4,792,292</td>
<td>29,932</td>
</tr>
<tr>
<td>1874</td>
<td>4,297,864</td>
<td>26,487</td>
</tr>
<tr>
<td>1875</td>
<td>665,000</td>
<td>4,156</td>
</tr>
<tr>
<td>1876</td>
<td>420,307</td>
<td>2,628</td>
</tr>
<tr>
<td>1877</td>
<td>251,691</td>
<td>1,448</td>
</tr>
<tr>
<td>1878</td>
<td>306,436</td>
<td>1,918</td>
</tr>
<tr>
<td>1879</td>
<td>1,130,483</td>
<td>7,066</td>
</tr>
<tr>
<td>1880</td>
<td>4,472,000</td>
<td>27,950</td>
</tr>
<tr>
<td>1881</td>
<td>5,147,000</td>
<td>50,919</td>
</tr>
<tr>
<td>1882</td>
<td>10,156,000</td>
<td>63,662</td>
</tr>
<tr>
<td>1883</td>
<td>27,234,000</td>
<td>170,212</td>
</tr>
<tr>
<td>1884</td>
<td>6,435,000</td>
<td>40,218</td>
</tr>
<tr>
<td>1885</td>
<td>391,680</td>
<td>2,448</td>
</tr>
<tr>
<td>1886</td>
<td>1,179,610</td>
<td>8,620</td>
</tr>
<tr>
<td>1887</td>
<td>643,710</td>
<td>4,023</td>
</tr>
<tr>
<td>1888</td>
<td>1,131,840</td>
<td>7,074</td>
</tr>
<tr>
<td>1889</td>
<td>516,965</td>
<td>3,231</td>
</tr>
<tr>
<td>1890</td>
<td>817,075</td>
<td>5,106</td>
</tr>
<tr>
<td>1891</td>
<td>76,560</td>
<td>476</td>
</tr>
<tr>
<td>1892</td>
<td>1,395,200</td>
<td>8,720</td>
</tr>
<tr>
<td>1893</td>
<td>2,928,640</td>
<td>18,304</td>
</tr>
<tr>
<td>1894</td>
<td>300,340</td>
<td>1,876</td>
</tr>
<tr>
<td>1895</td>
<td>406,240</td>
<td>2,539</td>
</tr>
<tr>
<td>1896</td>
<td>506,506</td>
<td>3,166</td>
</tr>
<tr>
<td>1897</td>
<td>438,640</td>
<td>2,679</td>
</tr>
<tr>
<td>1898</td>
<td>839,540</td>
<td>5,374</td>
</tr>
<tr>
<td>1899</td>
<td>1,022,729</td>
<td>6,392</td>
</tr>
<tr>
<td>1900 (first 6 months)</td>
<td>735,480</td>
<td>4,506</td>
</tr>
<tr>
<td>1900-1901</td>
<td>1,603,680</td>
<td>10,023</td>
</tr>
<tr>
<td>1901-1902</td>
<td>2,533,120</td>
<td>15,957</td>
</tr>
<tr>
<td>1902-1903</td>
<td>6,176,440</td>
<td>38,584</td>
</tr>
<tr>
<td>1903-1904</td>
<td>12,706,600</td>
<td>79,435</td>
</tr>
<tr>
<td>1904-1905</td>
<td>10,671,520</td>
<td>66,697</td>
</tr>
<tr>
<td>1905-1906</td>
<td>4,973,920</td>
<td>31,087</td>
</tr>
<tr>
<td>1906-1907 (9 months)</td>
<td>3,819,700</td>
<td>23,873</td>
</tr>
<tr>
<td>1907-1908</td>
<td>6,133,040</td>
<td>38,299</td>
</tr>
<tr>
<td>1908-1909</td>
<td>7,412,870</td>
<td>46,330</td>
</tr>
<tr>
<td>1909-1910</td>
<td>7,433,290</td>
<td>46,395</td>
</tr>
<tr>
<td>1910-1911</td>
<td>5,683,280</td>
<td>35,250</td>
</tr>
<tr>
<td>1911-1912</td>
<td>5,146,080</td>
<td>32,163</td>
</tr>
<tr>
<td>1912-1913</td>
<td>5,155,520</td>
<td>32,222</td>
</tr>
<tr>
<td>1913-1914</td>
<td>5,193,280</td>
<td>32,458</td>
</tr>
<tr>
<td>1914-1915</td>
<td>4,484,960</td>
<td>28,031</td>
</tr>
<tr>
<td>1915-1916</td>
<td>3,112,640</td>
<td>19,454</td>
</tr>
<tr>
<td>1916-1917</td>
<td>2,221,280</td>
<td>13,883</td>
</tr>
</tbody>
</table>

| Total                           | 176,260,225 | 1,101,621                         |

THE DOMINION ASTRONOMICAL OBSERVATORY AND THE BOUNDARY AND GEODETIC SURVEYS.

The 72-inch reflecting telescope at the Dominion Astrophysical Observatory at Victoria will shortly be ready for actual observing, and provisional arrangements are being made for initiating the preliminary experimental and adjusting work as soon as the final figuring of the mirror is completed, probably early in June.

The 66-foot dome was erected and placed in satisfactory operating condition by October 1, 1916.

The mounting of the telescope, which had been temporarily erected at the works of the Warner & Swasey Company, was shipped from Cleveland about the end of
July last, arriving in Victoria the middle of August. Erection was commenced on September 5, and the heavy parts were all in place in ten days, although it was not until the middle of October that the elaborate permanent wiring was installed, and smaller details completed. The axis of the telescope was then placed in adjustment, and it is now ready for the insertion of the mirror and actual observing operations. The tests of the operating mechanism of the mounting and dome resulted most satisfactorily.

The 15-inch refractor at Ottawa has been employed during the past year in determining the radial velocities of spectroscopic binaries for the purpose of obtaining the elements of their orbits, a continuation of the work of previous years. During the year, 543 spectrograms were obtained on 162 nights, a further decrease from the number recorded last year, and for the same reasons. The orbits of six binaries have been obtained during the year, and these, with those already published and those ready for publication, make a total of fifty-one orbits obtained at Ottawa.

The 6-inch doublet of the photographic telescope has been used for extra-focal photometric observations of spectroscopic binaries whose orbits have been determined here, for variation in magnitude, but as yet without definite result. Observations by the same method for the purpose of improving the light curve of θ Librae are being made, and the methods of testing and developing the plates have been improved.

Observations with the coolostat telescope on the solar rotation and allied problems have been continued during the year, and four investigations bearing on this work have been made; the first on a variation in the solar rotation, referred to last year, showed good evidence of a cyclic change in the rate of about 8 per cent, while the last, on the effects of haze on the solar rotation, indicated the possibility that some of the changes in the rate found here and elsewhere are due to the presence of a varying amount of haze in the terrestrial atmosphere.

Since my last report the instrument for the study of the deformation of the earth under the influence of the moon and sun has been in continuous operation in the vault specially constructed therefor.

The various seismographic instruments have been in constant operation during the year, and 104 earthquakes have been recorded. The first complete seismological tables issued are now in general use for facilitating the reading of seismograms at other stations.

In the systematic magnetic survey of Canada, fifty-six stations were occupied, in which the complete magnetic elements were obtained and much new ground in northern Ontario was covered.

Owing to the war, the gravity survey was discontinued.

Observations with the meridian circle were obtained on 103 nights in 1916: they were devoted in part to determinations of clock error for longitude work and for the purposes of the Time Service, and in part to a continuation of work on the list of latitude stars mentioned in previous reports. Two observers took part during the whole year, and two others for shorter periods. Since May, 1916, the registration of transits has been effected by a printing chronograph originally designed by the late Professor Hough, of Dearborn Observatory, but considerably modified in our Observatory workshop. This instrument, which in original form was not very
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satisfactory, has, with the modifications mentioned, become quite efficient, and through its use a considerable saving of labour has been effected in the reading of the records.

Four new Laplace stations have been established, two in British Columbia, one in northwestern Ontario, and one in New Brunswick. The longitudes of three of these were determined by the ordinary telegraphic method, while that of the fourth was obtained by wireless telegraphy. At three of these stations the azimuth of one of the lines of the geodetic triangulation was measured with an alt-azimuth, while at the fourth a meridian mark was established and its azimuth determined by observations with the astronomical transit used for the longitude.

A new list of 519 stars has been prepared for use in field longitude operations: it includes principally stars whose positions in the sky are such as to render them useful for longitude work in Canadian latitudes during the summer months, and is somewhat more extended than the lists of the national ephemerides. The stars were selected from Lewis Boss's "Preliminary General Catalogue for 1900," and their right ascensions and proper motions revised by the inclusion of available data from recent observations at Ottawa and Greenwich.

The time service has been maintained as in previous years. During the year the system of clocks in the Government Printing Bureau has been placed under the control from the Observatory in a similar manner to those in other Government buildings. The total number of clocks and dials at present under control is as follows:

<table>
<thead>
<tr>
<th>Type</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minute dials</td>
<td>332</td>
</tr>
<tr>
<td>Seconds dials</td>
<td>15</td>
</tr>
<tr>
<td>Recording clocks</td>
<td>18</td>
</tr>
<tr>
<td>Tower clocks</td>
<td>2</td>
</tr>
<tr>
<td>Programme clocks</td>
<td>1</td>
</tr>
<tr>
<td>Secondary master clocks</td>
<td>9</td>
</tr>
<tr>
<td>Primary clocks</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>379</strong></td>
</tr>
</tbody>
</table>

In addition to the clock system, relays, beating seconds, are maintained in two offices in the city; time signals are sent out regularly by telegraph, and occasionally by telephone; the time is recorded on the various seismographs at the Observatory, and is given verbally over the 'phone to several hundred persons a week. A number of circuits are also maintained purely for observatory purposes, such as operation of chronographs, etc.

The final draft of the report on the survey of the 141st meridian—the boundary between Yukon Territory and Alaska—has been approved by the commissioners, and is ready for the printers. The last six of the thirty-eight map sheets have been printed; also the special Arctic sheet, index sheet, and profile of the line. Another special sheet of the St. Elias-Natazhat region is in course of preparation.

The field work of that section of the international boundary line from lake of the Woods to lake Superior is completed, with the exception of the inspection of the work, which will probably be made this coming season. This will complete the field work along the international boundary from the Arctic ocean to lake Superior.

The Quebec-Maine boundary along the Highlands was extended from monument No. 334, where the line passes between Portage lake in Quebec and Penobscot lake in Maine, to monument No. 347, which was connected with the Geodetic Survey station Linière.
Range marks on the Maine-New Brunswick water boundary were checked and verified.

A triangulation along the New Brunswick-Maine boundary from St. Leonard to the headwaters of the St. Croix was completed and a connection made with the primary triangulation of the United States Coast and Geodetic Survey.

On the Geodetic Survey of Canada the primary triangulation in New Brunswick and Nova Scotia was continued, and reconnaissance made to determine a suitable site for a base line.

In Ontario a geodetic survey party completed the observing of directions in the southwestern peninsula. A tower-building party operated in the district south of the Georgian bay, and a subsidiary triangulation was made connecting points in the city of Toronto with Scarborough station of the primary triangulation.

On the British Columbian coast a reconnaissance for the selection of triangulation stations was completed between Alert bay and Campbell river. One observing party measuring horizontal angles of the triangulation was employed in the vicinity of Prince Rupert.

Precise levelling was carried on during the season of 1916 by five parties, one of which operated in Quebec, two in Ontario, one in British Columbia, and one partly in British Columbia, and partly in Alberta. Some 1,400 miles of levelling was accomplished, including the completion of the first transcontinental line—from Halifax to Vancouver.

The total amount of precise levelling of the Geodetic Survey of Canada is now over 9,700 miles, and about 2,800 standard bench-marks have been established.

A large number of the publications giving results of precise levelling has been placed in the hands of engineers throughout the country.

**Forestry.**

Owing to the war the operations of the Forestry Branch have been kept to as small proportions as possible, considering the large extent of territory to be supervised and the value of the public forest property to be protected. Sixty-five men of the branch have enlisted for the war, and of these six have been killed. Of forest school undergraduates who had worked for this branch in vacation time, four have also been killed in action.

The season of 1916 was generally wet, and the fire loss was kept down to small proportions.

The great loss suffered by northern Ontario through fire in 1916 showed the need of controlling the setting out of fires by settlers in clearing their lands. As a result, the province of Ontario has enacted a new forest fire law in which settlers are allowed to burn brush only upon receiving a written permit from a fire guardian. Similar legislation has been enacted by Manitoba and Saskatchewan. This should greatly assist in protecting from fire those areas in the Prairie Provinces outside the forest reserves. The regulations covering the reserves give the necessary authority, so far as reserves are concerned.

The total number of fires reported was 891, as compared with 1,455 in 1915. The total area burned over was 116,310 acres, of which 2,000 acres contained merchantable timber. This is a large reduction as compared with the preceding two years. The fire
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record emphasizes that public education as to the necessity of fire prevention is the most pressing need and the most effective means to reduce fire losses. The most important causes of fire, in order of their importance, were: unknown causes, campers and travellers, settlers, railways. This improved situation in regard to railways was due to the operations of the patrol and inspection by officers of this branch, under the direction of the Dominion Board of Railway Commissioners.

The efficiency of fire protection on forest reserves continues to improve, owing to the increase in transportation, communication, and fire-fighting facilities, due also to a somewhat better service on the part of the rangers.

The improvements include houses in which the rangers live on the reserve, tool caches, lookout towers, bridges, fireguards, roads, trails, and telephone lines.

Scientific investigation to ascertain the conditions affecting forest development has been found necessary in every forested country. War conditions have prevented new appointments or expenditure, but the Council for Scientific and Industrial Research, recently created have considered the matter of such importance as to recommend its being given early consideration in programme of research to be carried out in Canada. Forest investigation will involve co-operation on the part of the provincial forest services, and what the provinces are now doing is an indication that this co-operation will be given as soon as the research work is undertaken.

The increasing complexity of forest administration necessitates the employment of specially trained men. Existing forest schools provide men for the higher grades of the service, but there are no schools training men for forest rangers. This lack is seriously felt, and will be still more seriously felt when the question of training physically fit returned soldiers for forest work comes to be dealt with.

In regard to forest surveys, the class of survey which is being pressed forward at the present time is the general reconnaissance or exploratory survey to ascertain where the timber is located, its quality, condition, etc. These surveys have covered the greater part of the Dominion timber lands, and in three or four years more, at the same rate of progress, the whole of this territory will be covered.

Reforestation was begun on several of the forest reserves in the prairie districts, and sufficient work was done to make a fair test. The results of these plantings have so far been very successful.

The grazing of live stock on the reserves, begun a few years ago, is a feature steadily increasing in importance, more than 17,000 horses and cattle having been pastured on forest reserves in 1916. This grazing is of advantage to the reserves, and is also recommended as tending to increase the food supplies of the Empire. The business gives every promise of developing to large proportions.

Owing to labour conditions and other factors introduced by the war, the demand for trees for planting on the prairie farms was less in 1916 than in the previous year. This has had, however, a result not altogether unwelcome, as it permitted the sending to each applicant of sufficient trees to make a good shelter-belt, whereas in the past few years the large demand cut down the number of trees per applicant to a point where it took him some time to secure adequate shelter. The number of trees distributed in 1917 was over 7,500,000, as compared with a little over 4,500,000 in 1916.
For several reasons, including a scarcity of coal, there was greater demand for wood from the reserves in the winter of 1916-17 than for several seasons past. Owing to increased experience, the burning of débris as cutting proceeds was more efficiently carried out than ever before, thus greatly reducing the fire hazard in the woods.

While no new lines of investigation have been opened at the Forest Products Laboratories of Canada, and while the engagement of some members of the staff on special war work in connection with munitions has reduced somewhat the working force, the general plan of investigation and testing has been followed. Investigations are under way covering some of the most important fundamental questions in regard to the constitution of wood. Among these is an investigation regarding the composition of the principal Canadian pulpwoods, which will be of great value to the pulp and paper industry. The faith of the public in the laboratories is shown in the interest and co-operation of the wood-using industries of Canada in the work being carried on. The bulletin on "Canadian Woods for Structural Timbers" issued during the year embodied one line of investigation. It was widely distributed in Canada, throughout the Empire, and among allied and neutral nations, and the interest which it has aroused shows the demand that Canada may expect after the war, and the importance of being able to give people, both at home and abroad, definite, scientific, and reliable information about our leading woods.

An investigation into the production of wood oils for ore flotation resulted most successfully and showed what scientific investigation can do to give our industries a good supply of a home product in place of a precarious and costly supply imported from abroad, and liable to be withheld entirely because of the needs of the producing country. The investigation demonstrated that oils can be produced in Canada to take the place of imported pine oil, which up to this discovery has been absolutely essential to the carrying out of the processes of extraction of ore by flotation.

IRRIGATION.

There has been little development in connection with the larger irrigation projects. Construction work has been practically completed on the three large projects which have been under way for several years, but colonization and development work have been hampered by the falling-off of immigration, the shortage of labour, and the prevailing high prices of both labour and material.

Serious financial difficulties, largely due to war conditions, have embarrassed another of the larger companies to such an extent that reorganization of the company has recently been effected, and there is now a reasonable prospect that the works may be at least partially completed and put into operation within a year or two, although here, again, the condition of the labour market and the high cost of material may seriously retard the progress of the work.

Notwithstanding the comparatively slow rate of development of irrigated farming, evidences are not lacking of a growing realization of its value to the settlers in the drier portions of the provinces of Alberta and Saskatchewan, particularly in the production of forage crops in connection with dairying or stock-raising. The recurrence of a cycle of dry years, which, while not desired may naturally be expected, will doubtless further stimulate interest in irrigation and lead to the adoption of better methods than have heretofore been generally practised.
Survey work for the extension of some of the present large projects, or for the location of new projects, has been temporarily abandoned in the interests of economy, and, for the same reason, the administrative work has been reduced wherever possible without seriously impairing its efficiency.

The work of hydrometric surveys (stream measurement) has, however, been carried on on about the same scale as in former years. It has not been found expedient to curtail this work, as its value consists primarily in the continuity of the work over a sufficiently long term of years to ensure at least approximately accurate records. This work might well be further extended, but existing conditions have not seemed to justify any more lavish expenditure.

**DRAINAGE.**

For several years the question of the drainage of public land in the prairie province has been under discussion with the respective Provincial Governments, and it is a source of considerable satisfaction to be able to report that a satisfactory arrangement has now been made for dealing with this vexatious problem. This arrangement was reached as the result of several conferences between officials representing the several Governments; it has been approved by the Dominion Government, and accepted and enacted into law by the province of Alberta and partially by the province of Saskatchewan, and it is hoped that the necessary action may be taken at an early date by the provinces of Saskatchewan and Manitoba to give full effect to the arrangement.

The ownership and control of the sources of water supply in these provinces is vested in the Dominion Government, as is also the ownership of the unalienated public land while the control of drainage is vested in the provinces. This divided jurisdiction has provoked controversy and has somewhat seriously interfered with the reclamation of large areas of swamp land in all of these provinces, thus retarding the development of many districts which comprise large submerged or swampy areas.

While the new arrangement may not fully and satisfactorily serve the purpose for which it is intended, there is reason to believe that it will at least point the way to a better and lasting arrangement under which immense areas of land, now waste and valueless, may be reclaimed and made productive.

**Dominion Parks.**

Owing to the present financial conditions, little was undertaken in the Dominion parks in the way of new development work during the year. Expenditure was restricted almost entirely to maintenance but, following the policy adopted last year, the labour of interned aliens was utilized in several of the parks for the building of roads and trails, clearing of fireguards, and removal of dead timber, and in this way a good deal was accomplished at slight expense, which could not otherwise have been undertaken.

While the number of tourists was not so large as last year, it was observed that visitors showed a tendency to make a longer stay than formerly, and in spite of a lower total traffic, hotel, transportation, and other interests reported that the season was one of the best, financially, that they had ever known.
The large increase in the number of people entering the parks by automobile indicates that a new factor must be taken into consideration insofar as tourists traffic is concerned. In both Rocky Mountain and Waterton Lakes parks the number of cars registered last season more than doubled those of any previous year. Both of these parks are now linked up by good roads with existing provincial highways, and it seems likely that increasing numbers from the three prairie provinces, as well as from the Western States will come into the parks in this way. Not only does this promise a largely increased revenue, but it brings the benefit and advantages of the parks within reach of a much larger section of the Canadian people.

An examination of the waters of the Hot Sulphur Springs at Banff, with special regard to their radioactive properties, was made during the year by Mr. R. T. Elworthy, of the Department of Mines. The results of the analysis showed that the Banff springs are more important in this respect than any others yet investigated in Canada, and that they resemble very closely the waters of the famous springs at Bath, England.

Through the courtesy of the United States authorities, a fine herd of over sixty elk was procured for Rocky Mountains park from the Yellowstone National park. The herd was brought over by special express train from Gardiner, Mont., and made the journey to Banff in record time. While a slight loss was suffered among the yearlings, the shipment arrived in a very satisfactory condition, and all the animals have since been doing well.

A farm was established in connection with Waterton Lakes park with a view to reducing the cost of management. Owing to an unfavourable season and the late date at which operations were begun, the results were not as satisfactory as could have been wished, but it is expected that a greater success will be obtained during the coming year. The completion of the Waterton bridge has made this park accessible to motorists from southern Alberta, and resulted in a large increase in the number of visitors. The fact that it adjoins the United States Glacier National park at the boundary opens up great possibilities in the way of future development.

The government herd of pure-blood bison at Buffalo park continues to do exceptionally well. The herd now numbers over 2,400 head, with an increase of 356 for the year. The farm in connection with the park is producing excellent results. In spite of the very wet season, it was able last year not only to supply all its own requirements in the way of feed for animals, but also to ship nearly twenty thousand bushels of oats to other parks and to some of the Forestry offices.

In Jasper park, one of the finest mountains has been set aside as a memorial to Nurse Edith Cavell. The mountain is one of outstanding beauty, over 11,000 feet in height, with a wonderful hanging glacier. It is situated about 14 miles from Jasper townsite in a district unusually interesting from the scenic point of view. A road is under construction to the base of the mountain, which will enable tourists to visit this neighbourhood with comfort and convenience.

An important step was taken with regard to game protection by the creation of an interdepartmental Advisory Wild Life Board. The board, which is composed of five members, will act in an advisory capacity in all questions relating to the conservation of wild life throughout the Dominion, and under its direction the Dominion
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Parks Branch will have charge of the administration of those matters which come under Federal authority. Steps will be taken in the immediate future to provide additional and much-needed protection for the barren-land caribou and fur-bearing animals of the far north.

The enforcement of the provisions of the Migratory Bird Treaty, which was recently entered into between Canada and the United States, has also been placed in the hands of the Parks Branch. The purpose of this treaty is to provide additional protection in both countries for game and insectivorous birds which migrate from one to the other. It is expected that the regulations which will shortly be promulgated will have very beneficial results in lessening the ravages among migratory birds, which have resulted in such serious damage to agriculture through the depredations of predatory insects.

With a view to supplying additional protection for wild fowl, 25 acres have been reserved in Saskatchewan and Alberta as provisional bird sanctuaries, and in the near future these will be inspected by a competent authority, and those which are suited for the purpose will be set aside and administered as Dominion bird sanctuaries.

The development of our water-powers is of vital importance to the Canadian people, intimately connected with national defence and with that great national necessity, reduction in the cost of living. It is necessary to the industrial progress of a nation and to the growth of its foreign commerce. It concerns the farmer on the Alberta prairie just as much as those who dwell in the great cities of Winnipeg, Calgary, and Edmonton.

The greatest need for the development of our water-powers is the imperative necessity, and it is indeed now a national necessity, that there should be safe and sane water-power administration. This involves two things: first, intelligent scientific investigation of our water resources, a study of their best utilization from a conservation and an economic standpoint; second, and most important of all, the establishment and intelligent enforcement of suitable water-power regulations.

While the engineering aspect of the water-powers of Western Canada has been thoroughly looked after in the investigations that have been carried on and are still under way under the direction of the Dominion Water Power Branch, the legal or administrative phase of the situation has also received most careful attention. Experts have been engaged for two years in studying the water-power administration regulations of every country in the world, which has water-power problems to solve comparable to those of Western Canada. It is recognized that there is a vital and imperatively urgent necessity for satisfactory water-power administration for the western provinces, of a character which will promote and encourage, in every way, development and utilization of enormous quantities of latent energy in our streams, now wasting to the sea, a necessity in no way local but national; it is necessary for the manufacture of ammunition for national defence; necessary for the manufacture of fertilizers that the cost of living may be decreased through increased crops; necessary for the electrification of railroads, especially terminals, for cheap carrying of freight and to provide a means of rapid and comfortable transportation for the people; necessary to the irrigation of vast tracts of land, meaning the building of thousands of homes on land now unoccupied; necessary to the establishment and bringing in of entirely new industries in Western Canada, meaning the investment
of hundreds of millions of dollars in the building of new cities and towns, and the employment of thousands of men and women; necessary if we are to maintain our commercial standing among the nations of the world; necessary in order that coal and oil may be preserved for the use of future generations; and finally, of vital necessity for promoting the safety and comfort, the welfare and prosperity of every citizen of Western Canada.

To-day it is recognized that no country in the world has a better or more modern or efficient water-power administration than that evolved under the direction of Dr. Roche for Western Canada.

SCHOOL LANDS.

During the fiscal year, in addition to sales made to railway companies for right-of-way purposes, and to school districts for school sites, nineteen auction sales of school lands were held at various points in the provinces of Manitoba, Saskatchewan, and Alberta, the total area sold in Manitoba being 37,370.10 acres for $352,538.52, an average of $9.43 per acre; in Saskatchewan, 116,695.29 acres for $1,664,233.70, an average of $14.26 per acre; and in Alberta, 144,993.03 acres for $2,039,037.37, an average of $14.06 per acre.

The sum of $5,388 was realized from the sale of townsites in the province of Manitoba, and $16,463 from sales in the province of Saskatchewan.

The total area disposed of to the 31st of March, 1917, after making deduction for cancellations, etc., was as follows:

<table>
<thead>
<tr>
<th>Province</th>
<th>Acres Disposed</th>
<th>Revenue Realized</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manitoba</td>
<td>692,250.06</td>
<td>$6,700,321.54</td>
</tr>
<tr>
<td>Saskatchewan</td>
<td>731,829.78</td>
<td>16,618,224.25</td>
</tr>
<tr>
<td>Alberta</td>
<td>701,894.94</td>
<td>8,538,826.25</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>2,125,974.78</strong></td>
<td><strong>$25,857,372.04</strong></td>
</tr>
</tbody>
</table>

Total 2,125,974.78 acres for $25,857,372.04.

The revenue derived from sources other than sales for the three provinces was as follows:

<table>
<thead>
<tr>
<th>Resource</th>
<th>Revenue (dollars)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grazing</td>
<td>$75,181.32</td>
</tr>
<tr>
<td>Coal</td>
<td>7,916.26</td>
</tr>
<tr>
<td>Petroleum and gas</td>
<td>6,705.29</td>
</tr>
<tr>
<td>Hay</td>
<td>9,711.09</td>
</tr>
<tr>
<td>Timber</td>
<td>3,383.12</td>
</tr>
<tr>
<td>Cultivation</td>
<td>425.15</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$103,322.33</strong></td>
</tr>
</tbody>
</table>

The total net revenue from each province for the fiscal year was as follows:

<table>
<thead>
<tr>
<th>Province</th>
<th>Revenue (dollars)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manitoba</td>
<td>$283,242.01</td>
</tr>
<tr>
<td>Saskatchewan</td>
<td>759,464.33</td>
</tr>
<tr>
<td>Alberta</td>
<td>646,896.06</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$1,689,603.40</strong></td>
</tr>
</tbody>
</table>
The following amounts were paid over to each province under the provisions of orders in council in that behalf, being the net revenue received from school lands in these provinces, less principal moneys of sales, and less expenditures, namely:

- Manitoba: $60,047.50
- Saskatchewan: 201,624.55
- Alberta: 162,214.53

In addition to the foregoing, the following amounts were also paid to the Provincial Governments of Manitoba, Saskatchewan, and Alberta as interest on the School Lands' fund for the fiscal year, namely:

- Manitoba: $119,198.61
- Saskatchewan: 100,846.82
- Alberta: 86,550.43

The total amount paid to each province for the fiscal year was as follows:

- Manitoba: $179,246.11
- Saskatchewan: 302,471.37
- Alberta: 248,764.96

Total: $730,482.44

The amount standing to the credit of each of the School Lands' funds on the 1st of April, 1917, was as follows:

- Manitoba: $4,068,350.37
- Saskatchewan: 3,891,343.21
- Alberta: 3,099,222.01

The total expenditure for the fiscal year on all accounts was as follows:

- Manitoba: $13,053.69
- Saskatchewan: 15,962.26
- Alberta: 16,239.05

Total: $45,255.00

W. W. Cory,
Deputy Minister of the Interior.
PART I.

DOMINION LANDS
DOMINION LANDS

REPORT OF THE COMMISSIONER.

This is a report for the twelve months ending March 31, 1917, on the Dominion Lands Branch of this department, together with the report of the chief inspector of Dominion Lands Agencies, the reports of the inspectors of Dominion Lands Agencies, and the agents of Dominion Lands for the several districts.

The following summary has been prepared of the work transacted in the Dominion Lands Branch during the period mentioned, as compared with the corresponding twelve months of the previous year:

<table>
<thead>
<tr>
<th></th>
<th>1916</th>
<th>1917</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of files dealt with</td>
<td>164,928</td>
<td>180,833</td>
</tr>
<tr>
<td>Letters written</td>
<td>105,612</td>
<td>108,350</td>
</tr>
<tr>
<td>Triplicate copies</td>
<td>76,670</td>
<td>75,014</td>
</tr>
<tr>
<td>Circulars, reports, etc.</td>
<td>63,859</td>
<td>58,729</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>249,141</td>
<td>242,093</td>
</tr>
</tbody>
</table>

Applications for patent—
- Number examined: 31,308 in 1916, 40,572 in 1917
- New applications: 17,778 in 1916, 26,281 in 1917
- Applications accepted and notifications sent out: 16,598 in 1916, 18,163 in 1917

J. W. GREENWAY,
Commissioner of Dominion Lands.
REPORT OF THE CHIEF INSPECTOR OF DOMINION LANDS AGENCIES.

During the year I held many investigations of a complicated nature in connection with Dominion Lands, seven of which were under oath, authorized by Order in Council, and thirty-five of a less serious nature. I have on hand at the present time three investigations to dispose of, one of which is under oath, and two where sworn statements will have to be taken.

I visited practically all the land offices in Manitoba, Saskatchewan and Alberta during the year, and found everything very satisfactory, although some of the offices were over-rushed with work in connection with seed grain and relief, and most of the staffs were working overtime in order to cope with the increased work. Owing to the heavy amount of work in the land agencies, through collections, I was compelled to allow several of them to engage temporary help.

Mr. F. Szablewski, Chief Homestead Inspector, who is attached to my office in Minnedosa, assisted, and held many investigations among the foreign element. He has now enlisted and no one has been appointed to fill the vacancy.

Mr. O. Neff, Inspector of Dominion Land Agencies for Manitoba and Saskatchewan, and Mr. J. W. Martin, Inspector for Alberta and British Columbia, will furnish the department with a detailed account of the work done throughout the provinces under their jurisdiction, in connection with the land agencies, sub-agencies, and homestead inspectors.

During the early part of August I was instructed by the department to open up a central office for the collection of seed grain and relief indebtedness at Moosejaw. I proceeded there August 14 and opened up the office. My staff was augmented by employees of the department from the different land offices throughout the West, and I had to engage a few other parties to assist in the work.

I divided the provinces up into small districts, and furnished the homestead inspectors and outsiders with copies of lists, with instructions to collect as much as possible of seed grain indebtedness. This proved very successful. I returned to my office in Minnedosa March 20, and I am still looking after the seed grain work. For the summer months I made out new lists of indebtedness and furnished each homestead inspector with one covering his homestead inspection district. Under the new instructions they are supposed to collect as much seed grain indebtedness as possible, while on their usual inspection work, without extra cost to the department.

I received several complicated investigations from head office while at Moosejaw and disposed of one hundred and ninety-eight. I have on hand at the present time fifty-seven investigations in connection with seed grain and relief indebtedness. The opening of the central office in the West to look after the collections of seed grain indebtedness has proved very beneficial to the financial interests, and also to the department at Ottawa, as I am satisfied that we would not have collected nearly the amount of money that we have, had it not been for the organization.

II. G. CUTTLE,

Chief Inspector of Dominion Lands Agencies.
REPORT OF INSPECTOR OF DOMINION LAND AGENCIES, CALGARY, ALBERTA.

I beg to submit my annual report for the departmental year ending March 31 last.

This contains a comparative statement of the business transactions and revenue as between the years 1915-16 and 1916-17, from which will be observed a vast increase in the receipts of the different agencies. A large proportion of this money was collected in connection with seed grain and relief, which entailed a tremendous amount of office work.

J. W. MARTIN,
Inspector.
### Statement showing Principal Work Performed by Homestead Inspectors in Alberta and British Columbia for Departmental Year ending March 31, 1917.

<table>
<thead>
<tr>
<th>Name of Homestead Inspector</th>
<th>Headquarters</th>
<th>Period</th>
<th>Land Inspections Made</th>
<th>Applications for Patent Taken</th>
<th>Miles Traveled</th>
<th>Expenditure</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Wagon</td>
<td>Rail</td>
<td>Salary</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$ ct.</td>
</tr>
<tr>
<td>Benzie, J. M.</td>
<td>Kamloops</td>
<td></td>
<td>457</td>
<td>30</td>
<td>3,251</td>
<td>2,264</td>
<td>1,200 00</td>
</tr>
<tr>
<td>Blackwell, A. J.</td>
<td>Edmonton</td>
<td></td>
<td>184</td>
<td>33</td>
<td>4,887</td>
<td>3,674</td>
<td>1,300 00</td>
</tr>
<tr>
<td>Creighton, H. E.</td>
<td>Red Deer.</td>
<td></td>
<td>210</td>
<td>140</td>
<td>4,424</td>
<td>4,230</td>
<td>1,200 00</td>
</tr>
<tr>
<td>Cunningham, T. J.</td>
<td>Edmonton</td>
<td></td>
<td>193</td>
<td>19</td>
<td>3,085</td>
<td>2,965</td>
<td>1,500 00</td>
</tr>
<tr>
<td>Cook, H.</td>
<td>Revelstoke</td>
<td></td>
<td>127</td>
<td>2</td>
<td>728</td>
<td>5,468</td>
<td>1,200 00</td>
</tr>
<tr>
<td>Doze, I. S.</td>
<td>Edmonton</td>
<td></td>
<td>475</td>
<td>2</td>
<td>1,770</td>
<td>1,650</td>
<td>1,300 00</td>
</tr>
<tr>
<td>Fletcher, Jos.</td>
<td>Grand Prairie</td>
<td></td>
<td>165</td>
<td></td>
<td>4,132</td>
<td></td>
<td>1,200 00</td>
</tr>
<tr>
<td>Fleming, G. W.</td>
<td>Calgary</td>
<td></td>
<td>151</td>
<td>80</td>
<td>3,906</td>
<td>1,165</td>
<td>1,200 00</td>
</tr>
<tr>
<td>Grey, A.</td>
<td>Edmonton</td>
<td>10 months</td>
<td>220</td>
<td>17</td>
<td>3,786</td>
<td>1,480</td>
<td>1,183 32</td>
</tr>
<tr>
<td>Grasse, P. L.</td>
<td>Red Deer.</td>
<td>10 months</td>
<td>198</td>
<td>6</td>
<td>3,679</td>
<td>1,478</td>
<td>1,300 00</td>
</tr>
<tr>
<td>Hagen, S. C.</td>
<td>Edmonton</td>
<td>10 months</td>
<td>346</td>
<td>33</td>
<td>4,179</td>
<td>1,431</td>
<td>1,200 00</td>
</tr>
<tr>
<td>Huntley, J. R.</td>
<td>Medicine Hat.</td>
<td>10 months</td>
<td>162</td>
<td>3</td>
<td>4,945</td>
<td>237</td>
<td>1,200 00</td>
</tr>
<tr>
<td>Kenbry, R. A.</td>
<td>Calgary</td>
<td>10 months</td>
<td>208</td>
<td>25</td>
<td>4,944</td>
<td>4,099</td>
<td>1,200 00</td>
</tr>
<tr>
<td>Key, A. E.</td>
<td>High Prairie</td>
<td>10 months</td>
<td>43</td>
<td>6</td>
<td>1,381</td>
<td>834</td>
<td>1,200 00</td>
</tr>
<tr>
<td>Letson, W. A.</td>
<td>Edmonton</td>
<td>10 months</td>
<td>127</td>
<td>2</td>
<td>2,690</td>
<td>2,569</td>
<td>1,200 00</td>
</tr>
<tr>
<td>Magee, W. D.</td>
<td>New Westminster</td>
<td>10 months</td>
<td>162</td>
<td>55</td>
<td>1,138</td>
<td>2,075</td>
<td>1,300 00</td>
</tr>
<tr>
<td>McMullen, J. F.</td>
<td>Peace River.</td>
<td>10 months</td>
<td>132</td>
<td>55</td>
<td>2,658</td>
<td>2,073</td>
<td>1,300 00</td>
</tr>
<tr>
<td>McCowan, H. S.</td>
<td>Edmonton</td>
<td>10 months</td>
<td>300</td>
<td>20</td>
<td>3,215</td>
<td>2,188</td>
<td>1,200 00</td>
</tr>
<tr>
<td>Ouillette, H. S.</td>
<td>Medicine Hat.</td>
<td>7 months</td>
<td>99</td>
<td>15</td>
<td>2,683</td>
<td>919</td>
<td>758 31</td>
</tr>
<tr>
<td>Ripley, Robt.</td>
<td>Lethbridge</td>
<td>7 months</td>
<td>277</td>
<td>178</td>
<td>3,639</td>
<td>1,185</td>
<td>1,200 00</td>
</tr>
<tr>
<td>Scott, Hugh.</td>
<td>Lethbridge</td>
<td>7 months</td>
<td>117</td>
<td>81</td>
<td>2,596</td>
<td>1,568</td>
<td>1,200 00</td>
</tr>
<tr>
<td>Tempany, Wm.</td>
<td>Calgary</td>
<td>7 months</td>
<td>165</td>
<td>9</td>
<td>5,921</td>
<td>2,287</td>
<td>1,300 00</td>
</tr>
<tr>
<td>Woodlock, P. A.</td>
<td>Calgary</td>
<td>7 months</td>
<td>440</td>
<td>23</td>
<td>4,605</td>
<td>5,194</td>
<td>1,300 00</td>
</tr>
<tr>
<td>Wynne, A. E.</td>
<td>Edmonton</td>
<td>7 months</td>
<td>275</td>
<td>28</td>
<td>4,186</td>
<td>2,241</td>
<td>1,300 00</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td></td>
<td></td>
<td>5,337</td>
<td>748</td>
<td>85,609</td>
<td>55,102</td>
<td>28,241 63</td>
</tr>
<tr>
<td>Agency</td>
<td>Homestead Entries Granted</td>
<td>Land Sales</td>
<td>Applications for Patent Received</td>
<td>Land Entries Cancelled</td>
<td>Permits Issued</td>
<td>Letters Received</td>
<td>Letters Sent</td>
</tr>
<tr>
<td>----------------</td>
<td>--------------------------</td>
<td>------------</td>
<td>----------------------------------</td>
<td>------------------------</td>
<td>---------------</td>
<td>-----------------</td>
<td>-------------</td>
</tr>
<tr>
<td>Calgary</td>
<td>511</td>
<td>19</td>
<td>160</td>
<td>34</td>
<td>2,492</td>
<td>564</td>
<td>318</td>
</tr>
<tr>
<td>Edmonton</td>
<td>1,858</td>
<td>139</td>
<td>4</td>
<td>5</td>
<td>1,904</td>
<td>1,604</td>
<td>1,259</td>
</tr>
<tr>
<td>Grande Prairie</td>
<td>836</td>
<td>30</td>
<td></td>
<td></td>
<td>409</td>
<td>272</td>
<td>440</td>
</tr>
<tr>
<td>High Prairie</td>
<td>70</td>
<td></td>
<td></td>
<td></td>
<td>31</td>
<td>41</td>
<td>44</td>
</tr>
<tr>
<td>Kamloops</td>
<td>170</td>
<td>26</td>
<td></td>
<td></td>
<td>114</td>
<td>62</td>
<td>405</td>
</tr>
<tr>
<td>Lethbridge</td>
<td>156</td>
<td>30</td>
<td>33</td>
<td>11</td>
<td>731</td>
<td>187</td>
<td>185</td>
</tr>
<tr>
<td>Medicine Hat</td>
<td>445</td>
<td>8</td>
<td>23</td>
<td>38</td>
<td>1,442</td>
<td>567</td>
<td>255</td>
</tr>
<tr>
<td>New Westminster</td>
<td>46</td>
<td></td>
<td></td>
<td></td>
<td>26</td>
<td>43</td>
<td></td>
</tr>
<tr>
<td>Peace River</td>
<td>423</td>
<td>23</td>
<td></td>
<td></td>
<td>205</td>
<td>175</td>
<td>446</td>
</tr>
<tr>
<td>Revelstoke</td>
<td>51</td>
<td>10</td>
<td></td>
<td></td>
<td>735</td>
<td>321</td>
<td>171</td>
</tr>
<tr>
<td>Red Deer</td>
<td>249</td>
<td>18</td>
<td>25</td>
<td>22</td>
<td>8,053</td>
<td>3,471</td>
<td>3,601</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td><strong>4,815</strong></td>
<td><strong>312</strong></td>
<td><strong>457</strong></td>
<td><strong>110</strong></td>
<td><strong>8,053</strong></td>
<td><strong>3,471</strong></td>
<td><strong>3,601</strong></td>
</tr>
<tr>
<td><strong>Totals 1915-16</strong></td>
<td><strong>6,783</strong></td>
<td><strong>316</strong></td>
<td><strong>610</strong></td>
<td><strong>93</strong></td>
<td><strong>7,031</strong></td>
<td><strong>4,702</strong></td>
<td><strong>3,821</strong></td>
</tr>
</tbody>
</table>
DOMINION Lands Sub-agencies—Work performed during the Departmental Year ending March 31, 1917.

<table>
<thead>
<tr>
<th>Name of Sub-agent</th>
<th>Sub-agency</th>
<th>Period and Agency</th>
<th>Applications for</th>
<th>Applications for</th>
<th>Amounts Remitted to Land Offices</th>
<th>Expenditure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Purchased</td>
<td></td>
<td></td>
<td>$ cts.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Homesteads.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spicer, S. E.</td>
<td>Alsask</td>
<td></td>
<td>38</td>
<td>26</td>
<td>170</td>
<td>62</td>
</tr>
<tr>
<td>Rennison, G. M.</td>
<td>Athabasca</td>
<td></td>
<td>65</td>
<td>24</td>
<td>161</td>
<td>58</td>
</tr>
<tr>
<td>Ostell, N.</td>
<td>Bonnyville</td>
<td></td>
<td>75</td>
<td>52</td>
<td>48</td>
<td>39</td>
</tr>
<tr>
<td>Binnie, H. P.</td>
<td>Brooks</td>
<td></td>
<td>29</td>
<td>9</td>
<td>112</td>
<td>39</td>
</tr>
<tr>
<td>Mercer, R. M.</td>
<td>Castor</td>
<td></td>
<td>57</td>
<td>12</td>
<td>167</td>
<td>20</td>
</tr>
<tr>
<td>Davidson, D.</td>
<td>Daysland</td>
<td></td>
<td>28</td>
<td>5</td>
<td>107</td>
<td>8</td>
</tr>
<tr>
<td>Walsh, J. J.</td>
<td>Edson</td>
<td></td>
<td>20</td>
<td>12</td>
<td>12</td>
<td>18</td>
</tr>
<tr>
<td>Brown, Alex</td>
<td>Entwistle</td>
<td></td>
<td>67</td>
<td>9</td>
<td>26</td>
<td>28</td>
</tr>
<tr>
<td>Cusack, John</td>
<td>Empress</td>
<td></td>
<td>88</td>
<td>9</td>
<td>54</td>
<td>2</td>
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<tr>
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REPORT OF THE INSPECTOR OF DOMINION LANDS AGENCIES, BRANDON, MAN.

Attached hereto you will find statements of the work performed by the Dominion Lands agencies, Dominion Lands sub-agencies, and homestead inspectors.

There are at present twelve agencies, those at Brandon, Regina and Estevan having been closed during the past year, and the one at The Pas having been opened recently; forty sub-agencies, and thirty-six homestead inspectors assigned to this office, all within the provinces of Manitoba and Saskatchewan. All the agencies and sub-agencies have been inspected as often as seemed necessary during the year, and the various officials have performed their duties in a satisfactory manner.

A number of matters have been referred to me for investigation during the year, and inquiries have been held and reported upon.

O. NEFF,
Inspector Dominion Lands Agencies.
<table>
<thead>
<tr>
<th>Agencies</th>
<th>Total for year 1916-1917</th>
<th>Total for year 1915-1916</th>
<th>Total for year 1914-1915</th>
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**Land Sales.**

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**Timber.**

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**Revenue.**

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**Expenditure.**

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**Dominion Lands Sub-agencies—Manitoba and Saskatchewan—Work performed during the Departmental Year ending March 31, 1917.**
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Totals                 |                     | 2,364      | 375       | 418       | 1,406      | 137,468   | 24,459    | 1,082      |

Compared with 1915-16   |                     | 3,986      | 630       | 5,314     | 2,631      | 91,492    | 25,467    | 885        |

Compared with 1914-15   |                     | 5,015      | 684       | 7,361     | 2,506      | 99,599    | 24,810    | 989        |
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REPORT OF THE AGENT OF DOMINION LANDS, BATTLEFORD, SASKATCHEWAN.

Statement of business transacted during the fiscal year ending March 31, 1917:

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L. P. O. NOEL,
Agent of Dominion Lands.
REPORT OF THE AGENT OF DOMINION LANDS, CALGARY, ALBERTA.

Statement showing the business transacted during the fiscal year ending March 31, 1917:

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<th>Revenue</th>
<th>Total</th>
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<tbody>
<tr>
<td>Homestead fees</td>
<td>511</td>
<td>$5,119.00</td>
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<tr>
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<td>160</td>
<td>1,600.00</td>
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<td>34</td>
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<tr>
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<td>200</td>
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<td>Land sales</td>
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</tr>
<tr>
<td>Pre-emption payments</td>
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<td>316,575.07</td>
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<td>&quot; cancellations</td>
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<td>374,542.66</td>
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</table>

| Seed Grain Branch              |        |             |           |
| Seed grain and provision payments | 2,029 | 217,293.77  | 217,293.77|

| Timber and Grazing Branch      |        |             |           |
| Ground rent                    | 33     | $1,766.67   |           |
| Royalty on sales               | 48     | 9,113.35    |           |
| Timber permits                 | 221    | 5,461.02    |           |
| " seizures                     | 25     | 2,908.75    |           |
| Hay permits                    | 25     | 43.10       |           |
| Grazing rentals, cash           | 327    | 4,856.37    |           |
| Sundries                       | 7      | 139.03      |           |
| Total                          |        |             | 24,579.29 |

| Forestry Branch                |        |             |           |
| Permit fees and rental         | 118    | $8,707.90   |           |
| Seizures                       | 4      | 58.50       |           |
| Grazing rent                   | 41     | 961.51      |           |
| Hay dues, etc.                 | 18     | 81.65       |           |
| Total                          |        |             | 9,898.06  |

| Irrigation Branch              |        |             |           |
| Sales                          | 8      | $1,109.59   |           |
| Reservoir rental               | 1      | 248.76      |           |
| Total                          |        |             | 1,356.35  |

| Mining Lands and Yukon Branch  |        |             |           |
| Mining fees (quartz and placer)| 115    | $415.00     |           |
| Rental (coal)                  | 181    | 23,488.65   |           |
| Royalty                        | 94     | 12,431.02   |           |
| Petroleum and natural gas      | 25     | 1,925.32    |           |
| Quarry                         | 1      | 5.00        |           |
| Coal land sales                | 2      | 862.00      |           |
| Sundries                       | 2      | 1.00        |           |
| Total                          |        |             | 38,241.60 |

| School Lands Branch            |        |             |           |
| Timber permits                 | 1      | $14.74      |           |
| Hay permits                    | 579    | 1,219.45    |           |
| Grazing rentals                | 469    | 8,271.14    |           |
| Coal rental                    | 19     | 1,598.40    |           |
| " royalty                      | 2      | 29.70       |           |
| Total                          |        |             | 10,843.43 |

| General                        |        |             |           |
| Letters received               | 69,630 |             |           |
| " written                      | 63,135 |             |           |

Grand total                    |        |             | $676,574.56|

W. E. TALBOT,
Agent of Dominion Lands.

Statement of business transacted during the fiscal year ending March 31, 1917:

<table>
<thead>
<tr>
<th>Patent Branch</th>
<th>Number</th>
<th>Revenue</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homestead fees</td>
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<td>$10,650 00</td>
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<tr>
<td>Improvements</td>
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<td>2,251 45</td>
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<tr>
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<tr>
<td>&quot; inspections</td>
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<tr>
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<tr>
<td>Sundries</td>
<td>1</td>
<td>10 00</td>
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<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>$13,507 28</strong></td>
<td></td>
</tr>
</tbody>
</table>

| Timber and Grazing Crown Lands       |        |               |         |
| Timber permits                       | 252    | $856 30       |         |
| " seizures                          | 25     | 611 35        |         |
| Hay permit                           | 283    | 614 73        |         |
| Grazing rentals                      | 44     | 479 10        |         |
| **Total**                            |        | **2,561 48**  |         |

| Forestry Branch                      |        |               |         |
| Timber permits                       | 1,116  | $7,007 89     |         |
| Permit fees and rental               | 33     | 165 00        |         |
| Seizures                             | 84     | 1,361 97      |         |
| Grazing rent, etc.                   | 29     | 207 85        |         |
| Hay dues                             | 267    | 396 35        |         |
| **Total**                            |        | **9,139 06**  |         |

| Mining Lands                         |        |               |         |
| Mining fees                          | 123    | $615 00       |         |
| Assessment payments                  | 2      | 200 00        |         |
| Sundries                             | 107    | 390 00        |         |
| **Total**                            |        | **1,205 00**  |         |

| School Lands                         |        |               |         |
| Annual sales                         | 1      | $165 60       |         |
| Timber permits                       | 4      | 19 95         |         |
| Hay permits                          | 250    | 466 45        |         |
| Grazing rentals                      | 37     | 654 95        |         |
| Timber seizure                       | 5      | 39 23         |         |
| Cultivation permits                  | 1      | 4 00          |         |
| **Total**                            |        | **1,350 20**  |         |

| Seed Grain                           |        |               |         |
| Seed grain                           | 56     | 1,629 99      |         |
| **Total**                            |        | **1,629 99**  |         |
| **Total**                            |        | **$29,384 01**|         |

| General                              |        |               |         |
| Letters received                     | 24,976 |               |         |
| " sent                              | 19,701 |               |         |

E. Widmeyer,
Agent of Dominion Lands.
REPORT OF THE AGENT OF DOMINION LANDS, EDMONTON, ALBERTA.

Statement of business transacted during the fiscal year ending March 31, 1917:

<table>
<thead>
<tr>
<th>Patent Branch</th>
<th>Number</th>
<th>Revenue</th>
<th>Total</th>
</tr>
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<tbody>
<tr>
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<td>00</td>
</tr>
<tr>
<td>Purchased homestead fees</td>
<td>5</td>
<td>50</td>
<td>00</td>
</tr>
<tr>
<td>Improvements</td>
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<td>96</td>
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<tr>
<td>Lands sales cash</td>
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<td>89</td>
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<tr>
<td>Pre-emption payments</td>
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<tr>
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<tr>
<td>Sundries</td>
<td>4</td>
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<tr>
<td><strong>Total</strong></td>
<td>1,904</td>
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</tbody>
</table>

| Timber and Grazing Branch            |        |         |        |
| Bonus                                |        | $8,454  | 67     |
| Ground rent                          | 51     | 2,606   | 89     |
| Royalty on sales                     | 63     | 19,976  | 96     |
| Timber permits                       | 1,157  | 7,660   | 76     |
| " Seizures                           | 74     | 11,175  | 20     |
| Hay permits                          | 618    | 950     | 00     |
| Grazing rents, cash                  | 110    | 444     | 86     |
| Fireguarding                         | 4      | 291     | 97     |
| Sundries                             | 614    | 32,926  | 82     |
| **Total**                            |        | $44,488 | 13     |

| Forestry Branch                      |        |         |        |
| Timber dues                          | 21     | $1,574  | 49     |
| Permit fees and rental               | 39     | 15      | 00     |
| " Seizures                           | 4      | 212     | 85     |
| Grazing rent, etc.                   | 33     | 143     | 60     |
| Hay dues, etc.                       | 33     | 117     | 35     |
| **Total**                            |        | 2,063   | 29     |

| Mining Lands and Yukon Branch        |        |         |        |
| Mining fees                          | 39     | $122    | 00     |
| Royalty                              | 54     | 14,070  | 28     |
| Assessment payments                  | 33     | 17,375  | 80     |
| Sundries                             | 263    | 36,063  | 22     |
| **Total**                            |        | 68,071  | 28     |

| School Lands Branch                  |        |         |        |
| General sales                        | 3      | $2,518  | 42     |
| Timber permits                       | 16     | 76      | 00     |
| Hay permits                          | 527    | 913     | 83     |
| Grazing rentals                       | 187    | 2,183   | 07     |
| Coal rent!                           | 11     | 314     | 30     |
| Sundries                             | 92     | 4,102   | 20     |
| **Total**                            |        | 10,107  | 92     |

| Miscellaneous                         |        |         |        |
| Re-payments                          | 428    | 13,430  | 46     |
| **Total**                            |        | 13,430  | 46     |

| Grand total                           |        | $219,462| 37     |

| General                              |        |         |        |
| Letters received                     | 57,917 |         |        |
| " written                            | 78,388 |         |        |

A. NORQUAY,
Agent of Dominion Lands.
REPORT OF THE AGENT OF DOMINION LANDS, GRANDE PRAIRIE, ALBERTA.

Statement of business transacted during the fiscal year ending March 31, 1917:

<table>
<thead>
<tr>
<th>Lands Patents Branch—</th>
<th>Number</th>
<th>Revenue.</th>
<th>Total.</th>
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<tbody>
<tr>
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<tr>
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<tr>
<td>Patent and interchange fees</td>
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<td>40 00</td>
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<tr>
<td>Searches</td>
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<td>1 75</td>
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<tr>
<td>Applications for patents</td>
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<tr>
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<td><strong>Total</strong></td>
<td></td>
<td></td>
<td><strong>$13,341 34</strong></td>
</tr>
</tbody>
</table>

| Timber and Grazing Branch—                 |        |          |        |
| Timber permits                             | 410    | $683 65  |        |
| " seizures                                 | 2      | 23 20    |        |
| Hay permits                                | 265    | 461 50   |        |
| Grazing rentals                            | 33     | 331 73   |        |
| Timber excess                              | 33     | 162 65   |        |
| Hay excess                                 | 5      | 5 50     |        |
| " lease rent                               | 1      | 20 09    |        |
| **Total**                                  |        |          | **1,638 33** |

| Mining Lands and Yukon Branch—             |        |          |        |
| Mining fees                               | 1      | $5 00    |        |
| Rentals                                    | 2      | 49 05    |        |
| Royalty                                    | 10     | 21 76    |        |
| Coal permits                               | 1      | 7 50     |        |
| **Total**                                  |        |          | **$3 31** |

| School Lands Branch—                       |        |          |        |
| Hay permits                                | 39     | $50 00   |        |
| Grazing rentals                            | 33     | 606 41   |        |
| **Total**                                  |        |          | **$686 41** |

| Seed Grain and Provision Repayments        | 58     |          | **1,687 02** |

Grand total:                                 **$18,006 41**

| General—                                   |        |          |        |
| Letters received                           | 9,645  |          |        |
| " written                                 | 8,315  |          |        |

J. J. E. CLARKE,  
Agent of Dominion Lands.
REPORT OF THE AGENT OF DOMINION LANDS, HIGH PRAIRIE, ALBERTA.

This office was moved from Grouard to High Prairie, Alta., December 1, 1916. We are now on a line of railway, and this will facilitate the transaction of business for the general public.

The crops in this district were very good last year, with the exception of High Prairie and Falher, which points were affected by frost. There was more land under cultivation in 1916 than in 1915 and this year there will be another third more, and should the crops prove successful, this will add to the prosperity of the settlers in this Northern country.

The following is a statement of the business transacted during the fiscal year, ending March 31, 1917:

<table>
<thead>
<tr>
<th>Branch</th>
<th>Number</th>
<th>Revenue</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lands Patents Branch—</td>
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</tr>
<tr>
<td>Homestead fees</td>
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<tr>
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<tr>
<td>Land sales, cash</td>
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<td>395 05</td>
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<tr>
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<td>0 50</td>
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<tr>
<td>Applications for patents</td>
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</tr>
<tr>
<td>&quot; inspections</td>
<td>23</td>
<td></td>
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<tr>
<td>Entries cancelled</td>
<td>41</td>
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<tr>
<td>Total</td>
<td></td>
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<td>$1,475 55</td>
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<tr>
<td>Timber and Grazing Branch—</td>
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<td></td>
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</tr>
<tr>
<td>Timber permits</td>
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<td>$92 50</td>
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<tr>
<td>Hay permits</td>
<td>31</td>
<td>74 80</td>
<td>74 80</td>
</tr>
<tr>
<td>Grazing rentals, cash</td>
<td>6</td>
<td>23 10</td>
<td>23 10</td>
</tr>
<tr>
<td>Excess dues on hay and timber permits</td>
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<td>77 82</td>
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<tr>
<td>Total</td>
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<td></td>
<td>268 22</td>
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<tr>
<td>Mining Lands and Yukon Branch—</td>
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<td></td>
</tr>
<tr>
<td>Royalty, coal</td>
<td>1</td>
<td>$1 90</td>
<td>$1 90</td>
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<tr>
<td>Total</td>
<td></td>
<td></td>
<td>1 90</td>
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<tr>
<td>School Lands Branch—</td>
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</tr>
<tr>
<td>Hay permits</td>
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<td>$10 00</td>
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<tr>
<td>Grazing rentals, cash</td>
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<td>65 10</td>
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<tr>
<td>Cultivation permit</td>
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<td>4 60</td>
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<tr>
<td>Total</td>
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<td>79 70</td>
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<tr>
<td>Miscellaneous</td>
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<td>Seed grain repayments</td>
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<td>$27 40</td>
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<td>Grand total</td>
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<tr>
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</table>

W. F. W. CARSTAIRS.
Agent of Dominion Lands.
REPORT OF THE AGENT OF DOMINION LANDS, HUMBOLDT, SASKATCHEWAN.

Statement of business transacted during the fiscal year ending March 31, 1917:

<table>
<thead>
<tr>
<th>Patent Branch—</th>
<th>Number</th>
<th>Revenue.</th>
<th>Total.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homestead fees</td>
<td>334</td>
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<tr>
<td>Improvements</td>
<td>72</td>
<td>2,549 50</td>
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</tr>
<tr>
<td>Land sales</td>
<td>22</td>
<td>1,510 69</td>
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</tr>
<tr>
<td>Searches, etc.</td>
<td>216</td>
<td>53 75</td>
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</tr>
<tr>
<td>Applications for patents received</td>
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<td></td>
</tr>
<tr>
<td>&quot; inspections</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Entries cancelled</td>
<td>197</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>$7,453 94</td>
<td></td>
</tr>
</tbody>
</table>

| Timber and Grazing Branch— | | | |
| Timber permits          | 69   | $ 51 70 |
| " seizures              | 6    | 49 60  |
| Hay permits             | 170  | 231 15 |
| Grazing rentals         | 55   | 216 20 |
| Timber excess dues      | 3    | 4 51   |
| Hay excess dues         | 4    | 2 40   |
| **Total**               |      | 615 56 |

| School Lands Branch— | | | |
| Timber permits       | 6    | $ 82 75 |
| Hay permits          | 424  | 742 65 |
| Grazing rentals      | 258  | 2,405 14|
| Timber seizures      | 1    | 10 30  |
| Hay excess dues      | 15   | 8 35   |
| **Total**            |      | 3,218 89|

| Seed Grain— | | | |
| Seed grain repayments | 380 | $27,621 29 |
| **Total**       |      | 27,621 29 |
| Grand total.    |      | $38,939 68|

| General— | | |
| Letters received | 14,740 |
| " written       | 14,571 |

R. GEO. MACKEY.
Agent of Dominion Lands.
 REPORT OF THE AGENT OF DOMINION LANDS, KAMLOOPS, B.C.

Statement of business transacted during the fiscal year ending March 31, 1917:

<table>
<thead>
<tr>
<th>Patent Branch—</th>
<th>Number</th>
<th>Revenue</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homesteads</td>
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<td>$1,670.00</td>
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<tr>
<td>Improvements</td>
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<td>Land sales</td>
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</tr>
<tr>
<td>Ground rent</td>
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<tr>
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</tr>
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<td>Applications for patents</td>
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<tr>
<td>&quot; inspections</td>
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<td></td>
</tr>
<tr>
<td>Homestead entries cancelled</td>
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<tr>
<td>Total</td>
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<td></td>
<td>$10,248.63</td>
</tr>
</tbody>
</table>

| Timber and Grazing Branch— |       |           |          |
| Ground rent               | 52     | $2,515.83 |          |
| Royalty                   | 21     | 5,374.90  |          |
| Timber permits            | 377    | 2,555.49  |          |
| " seizures                | 2      | 13.30     |          |
| Hay permits               | 11     | 10.30     |          |
| Grazing rentals           | 435    | 6,916.99  |          |
| Registration fees         | 20     | 40.00     |          |
| Fire-guarding collections | 7      | 71.75     |          |
| Total                     |        |           | 18,008.54 |

| Forestry Branch—         |       |           |          |
| Timber dues              | 15     | $132.54   |          |
| Permit fees              | 24     | 6.00      |          |
| Rentals                  | 9      | 117.40    |          |
| Hay dues                 | 6      | 12.70     |          |
| Total                    |        |           | 298.64   |

| Mining Lands Branch—     |       |           |          |
| Mining fees              | 7      | $35.00    |          |
| Rental                   | 9      | 281.88    |          |
| Permits                  | 1      | 50.00     |          |
| Total                    |        |           | 317.38   |

| Miscellaneous—           |       |           |          |
| Seed grain collections   | 21     | $394.60   |          |
| Total                   |        |           | 394.60   |

| Grand total             |        |           | $29,268.89 |

| Letters received        | 12,091 |           |          |
| " written              | 11,449 |           |          |

W. C. COWELL,
Agent of Dominion Lands.
REPORT OF THE AGENT OF DOMINION LANDS, LETHBRIDGE, ALBERTA.

Statement of business transacted during the fiscal year ending March 31, 1917:

<table>
<thead>
<tr>
<th>Patent Branch—</th>
<th>Number</th>
<th>Revenue</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homestead fees</td>
<td>156</td>
<td>$1,566</td>
<td>00</td>
</tr>
<tr>
<td>Pre-emption fees</td>
<td>32</td>
<td>330</td>
<td>00</td>
</tr>
<tr>
<td>Purchased homestead fees</td>
<td>11</td>
<td>110</td>
<td>00</td>
</tr>
<tr>
<td>Improvements</td>
<td>30</td>
<td>3,301</td>
<td>40</td>
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<tr>
<td>Land sales, cash.</td>
<td>769</td>
<td>211,298</td>
<td>33</td>
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<tr>
<td>Pre-emption payments</td>
<td>44</td>
<td>6,505</td>
<td>54</td>
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<tr>
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<td>70</td>
</tr>
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<tr>
<td>&quot; inspections received</td>
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<tr>
<td>Sundries—Registration fees</td>
<td>2</td>
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<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td>226,718 27</td>
</tr>
</tbody>
</table>

| Timber and Grazing Branch— |       |         |         |
| Timber permits.            | 74     | $62     | 20      |
| Grazing rentals, cash.      | 248    | 3,027   | 06      |
| **Total**                  |        |         | 3,096 26 |

| Forestry Branch—           |       |         |         |
| Permit fees and rental.    | 120    | $492    | 27      |
| Seizures.                  | 4      | 259     | 19      |
| Grazing rent.              | 60     | 1,901   | 82      |
| Hay dues.                  | 15     | 25      | 10      |
| **Total**                  |       |         | 2,679 38 |

| Irrigation Branch—         |       |         |         |
| Sales.                    | 1      | $59     | 65      |
| **Total**                 |       |         | 59 65   |

| Mining Lands and Yukon Branch— |       |         |         |
| Mining fees.                | 65     | $515    | 00      |
| Royalty.                   | 51     | 6,785   | 15      |
| Sundries.                  | 12     | 26      | 00      |
| **Total**                  |       |         | 16,388 18 |

| School Lands Branch—       |       |         |         |
| General sales.             | 17     | $9,815  | 03      |
| Timber permits.            | 1      | 329     | 68      |
| Hay permits.               | 45     | 45      | 80      |
| Grazing rentals.            | 124    | 1,530   | 86      |
| Petroleum, gas and coal rental. | 14   | 571     | 54      |
| Coal royalty.              | 4      | 55      | 79      |
| **Total**                  |       |         | 12,969 09 |

| Miscellaneous—             |       |         |         |
| Seed grain and provision payments. | 3,565 | $337,519 86 |
| **Total**                  |       |         | 337,519 86 |

| Grand total                |       |         | $649,450 69 |

| General—                  |       |         |         |
| Letters received.          | 35,451 |         |         |

J. A. Reid,  
Agent of Dominion Lands.
REPORT OF THE AGENT OF DOMINION LANDS, MAPLE CREEK, SASKATCHEWAN.

Statement of business transacted during the fiscal year ending March 31, 1917:

<table>
<thead>
<tr>
<th>Branch</th>
<th>Number</th>
<th>Revenue</th>
<th>Total</th>
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<tbody>
<tr>
<td><strong>Patent Branch</strong></td>
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<td></td>
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<tr>
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<tr>
<td>Pre-emption fees</td>
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<td>Purchased homestead fees</td>
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<tr>
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<td><strong>Timber and Grazing Branch</strong></td>
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</tr>
<tr>
<td>Excess hay</td>
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<tr>
<td>Improvements</td>
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<td><strong>Forestry Branch</strong></td>
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<tr>
<td>Timber dues</td>
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<tr>
<td>Seizures</td>
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<tr>
<td>Excess timber</td>
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<td><strong>Irrigation Branch</strong></td>
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<td><strong>Mining Lands and Yukon Branch</strong></td>
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<td><strong>School Lands Branch</strong></td>
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<td><strong>Total</strong></td>
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<tr>
<td><strong>Miscellaneous</strong></td>
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<tr>
<td>Seed grain and provision repayments</td>
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<td></td>
<td>$483,126.88</td>
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<td><strong>Grand total</strong></td>
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<tr>
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<tr>
<td>&quot; written</td>
<td>38,379</td>
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C. H. STOCKDALE,
Agent of Dominion Lands.
REPORT OF THE AGENT OF DOMINION LANDS, MEDICINE HAT, ALBERTA.

Statement of business transacted during the fiscal year ending March 31, 1917:

<table>
<thead>
<tr>
<th>Patent Branch—</th>
<th>Number</th>
<th>Revenue</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homestead fees</td>
<td>445</td>
<td>$4,450 00</td>
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<tr>
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<td>239</td>
<td>2,300 00</td>
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<tr>
<td>Purchased homestead fees</td>
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<td>380 00</td>
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<td>Improvements</td>
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<td>7,930 13</td>
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<tr>
<td>Land sales, cash</td>
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<td>794 02</td>
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<tr>
<td>Pre-emption payments</td>
<td>758</td>
<td>226,094 65</td>
</tr>
<tr>
<td>Purchased homestead payments</td>
<td>110</td>
<td>16,572 65</td>
</tr>
<tr>
<td>Searches, map sales, office fees, etc</td>
<td>276</td>
<td>69 00</td>
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<td>Applications for patents received</td>
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<td>Entries cancelled</td>
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<table>
<thead>
<tr>
<th>Timber and Grazing Branch—</th>
<th>Number</th>
<th>Revenue</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timber permits</td>
<td>13</td>
<td>$ 6 25</td>
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<tr>
<td>Hay permits</td>
<td>146</td>
<td>161 85</td>
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<tr>
<td>Grazing rentals, cash</td>
<td>973</td>
<td>21,812 16</td>
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<tr>
<td>Sundries</td>
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<td>179 00</td>
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<td><strong>Total</strong></td>
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<td><strong>22,099 26</strong></td>
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<table>
<thead>
<tr>
<th>Forestry Branch—</th>
<th>Number</th>
<th>Revenue</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timber dues</td>
<td>68</td>
<td>$173 02</td>
</tr>
<tr>
<td>Permit fees and rental</td>
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<td>33 75</td>
</tr>
<tr>
<td>Seizures</td>
<td>3</td>
<td>25 00</td>
</tr>
<tr>
<td>Hay dues, etc</td>
<td>30</td>
<td>149 75</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>381 52</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Irrigation Branch—</th>
<th>Number</th>
<th>Revenue</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sales</td>
<td>25</td>
<td>$6,158 25</td>
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<td><strong>Total</strong></td>
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<td><strong>6,158 25</strong></td>
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</table>

<table>
<thead>
<tr>
<th>Mining Lands and Yukon Branch—</th>
<th>Number</th>
<th>Revenue</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mining fees</td>
<td>6</td>
<td>$ 30 00</td>
</tr>
<tr>
<td>Rental</td>
<td>11</td>
<td>222 61</td>
</tr>
<tr>
<td>Royalty</td>
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<td>162 72</td>
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<tr>
<td>Assessment payments</td>
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<td>147 20</td>
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<td><strong>704 53</strong></td>
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<table>
<thead>
<tr>
<th>School Lands Branch—</th>
<th>Number</th>
<th>Revenue</th>
</tr>
</thead>
<tbody>
<tr>
<td>General sales</td>
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<tr>
<td>Hay permits</td>
<td>113</td>
<td>117 90</td>
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<tr>
<td>Grazing rentals</td>
<td>174</td>
<td>3,510 38</td>
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<td><strong>Total</strong></td>
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<td><strong>8,657 97</strong></td>
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<table>
<thead>
<tr>
<th>Miscellaneous—</th>
<th>Number</th>
<th>Revenue</th>
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<tbody>
<tr>
<td>Seed grain and provision repayments</td>
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<table>
<thead>
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<th>Number</th>
<th>Revenue</th>
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<tbody>
<tr>
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<td><strong>Total</strong></td>
<td></td>
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</table>

GEO. H. MACDONELL,  
Agent of Dominion Lands.
REPORT OF THE AGENT OF DOMINION LANDS, MOOSEJAW, SASKATCHEWAN.

Statement of business transacted during the fiscal year ending March 31, 1917:

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<tr>
<th>Patent Branch</th>
<th>Number</th>
<th>Revenue</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homestead fees</td>
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<tr>
<td>Pre-emption fees</td>
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<td>Purchased homestead fees</td>
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<tbody>
<tr>
<td>Timber permits</td>
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<tr>
<td>Grazing permits</td>
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<tbody>
<tr>
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<tbody>
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<tr>
<th>School Lands Branch</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>General sales</td>
<td>2</td>
<td>$1,033 60</td>
<td></td>
</tr>
<tr>
<td>Timber permits</td>
<td>3</td>
<td>4 00</td>
<td></td>
</tr>
<tr>
<td>Hay permits</td>
<td>750</td>
<td>1,646 70</td>
<td></td>
</tr>
<tr>
<td>Grazing rentals</td>
<td>1,167</td>
<td>4,595 20</td>
<td></td>
</tr>
<tr>
<td>Mining fees</td>
<td>1</td>
<td>5 00</td>
<td></td>
</tr>
<tr>
<td>Coal rentals</td>
<td>2</td>
<td>40 00</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td>7,234 50</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Miscellaneous</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Seed grain and provision</td>
<td>4,225</td>
<td>324,735 74</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td>324,735 74</td>
</tr>
<tr>
<td>Grand total</td>
<td></td>
<td></td>
<td>$756,345 77</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>General</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Letters received</td>
<td>60,168</td>
<td></td>
<td></td>
</tr>
<tr>
<td>written</td>
<td>47,154</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

G. K. SMITH,  
Agent of Dominion Lands.
REPORT OF THE AGENT OF DOMINION LANDS, NEW WESTMINSTER, BRITISH COLUMBIA.

Statement of business transacted during the fiscal year ending March 31, 1917:—

<table>
<thead>
<tr>
<th>Patent Branch—</th>
<th>Number</th>
<th>Revenue</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homestead fees</td>
<td>46</td>
<td>$460 00</td>
<td>$460 00</td>
</tr>
<tr>
<td>Improvements</td>
<td>9</td>
<td>215 00</td>
<td>215 00</td>
</tr>
<tr>
<td>Land sales</td>
<td>9</td>
<td>613 51</td>
<td>613 51</td>
</tr>
<tr>
<td>Purchased homestead payments</td>
<td>59</td>
<td>1,420 20</td>
<td>1,420 20</td>
</tr>
<tr>
<td>Applications for patents received</td>
<td>26</td>
<td>..........</td>
<td>..........</td>
</tr>
<tr>
<td>&quot; inspections received</td>
<td>32</td>
<td>..........</td>
<td>..........</td>
</tr>
<tr>
<td>Entries cancelled</td>
<td>43</td>
<td>..........</td>
<td>..........</td>
</tr>
<tr>
<td>Sundries</td>
<td>3</td>
<td>50 00</td>
<td>50 00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>$2,758 71</strong></td>
<td></td>
</tr>
</tbody>
</table>

| Mining Lands and Yukon Branch—|
| Mining fees | 181 | $905 00 |
| Rental | 220 | 11,036 92 |
| Sundries | 3 | 6 00 |
| **Total** | | **11,947 92** |

**Grand total** | | **$14,706 63** |

Letters received | 2,409 |
" written | 2,076 |

W. D. MAGEE,
Agent of Dominion Lands.
REPORT OF THE AGENT OF DOMINION LANDS, THE PAS, MANITOBA.

Statement of business transacted during the fiscal year ending March 31, 1917:

<table>
<thead>
<tr>
<th>Branch</th>
<th>Number</th>
<th>Revenue</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timber and Grazing Branch</td>
<td>3</td>
<td>$26.25</td>
<td>$26.25</td>
</tr>
<tr>
<td>Mining Lands and Yukon Branch</td>
<td>146</td>
<td>387.50</td>
<td>413.75</td>
</tr>
</tbody>
</table>

Total: $413.75

Letters received: 476
Letters written: 676

N.B.—This agency was opened February 9, 1917.

F. BARKER,
Agent of Dominion Lands.
REPORT OF THE AGENT OF DOMINION LANDS, PEACE RIVER, ALBERTA.

Statement of business transacted during the fiscal year ending March 31, 1917:—

<table>
<thead>
<tr>
<th>Patent Branch</th>
<th>Number</th>
<th>Revenue</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homestead entries</td>
<td>423</td>
<td>$4,230.00</td>
<td></td>
</tr>
<tr>
<td>Improvements</td>
<td>46</td>
<td>1,862.00</td>
<td></td>
</tr>
<tr>
<td>Land sales</td>
<td>22</td>
<td>1,495.27</td>
<td></td>
</tr>
<tr>
<td>Searches</td>
<td>6</td>
<td>1.50</td>
<td></td>
</tr>
<tr>
<td>Assessment names</td>
<td>124</td>
<td>1.24</td>
<td>$7,590.01</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Applications for patents</td>
<td>205</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inspections</td>
<td>73</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Entries cancelled</td>
<td>175</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Timber and Grazing Branch</th>
<th>Number</th>
<th>Revenue</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timber permits issued</td>
<td>426</td>
<td>$685.40</td>
<td></td>
</tr>
<tr>
<td>Hay permits issued</td>
<td>135</td>
<td>249.90</td>
<td></td>
</tr>
<tr>
<td>Grazing leases</td>
<td>38</td>
<td>297.89</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td>2,137.59</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>School Lands Branch</th>
<th>Number</th>
<th>Revenue</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>General sales</td>
<td>1</td>
<td>$289.80</td>
<td></td>
</tr>
<tr>
<td>Petroleum leases</td>
<td>15</td>
<td>234.50</td>
<td></td>
</tr>
<tr>
<td>Hay permits issued</td>
<td>19</td>
<td>23.00</td>
<td></td>
</tr>
<tr>
<td>Grazing permits</td>
<td>20</td>
<td>397.98</td>
<td></td>
</tr>
<tr>
<td>Cultivation permits</td>
<td>1</td>
<td>11.50</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td>1,545.62</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mining Lands and Yukon Branch</th>
<th>Number</th>
<th>Revenue</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum leases</td>
<td>204</td>
<td>$11,772.63</td>
<td></td>
</tr>
<tr>
<td>Coal permits</td>
<td>14</td>
<td>205.80</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td>11,978.43</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Seed Grain Branch</th>
<th>Number</th>
<th>Revenue</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seed grain collections</td>
<td>24</td>
<td>$541.33</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td>541.33</td>
</tr>
<tr>
<td>Total receipts</td>
<td></td>
<td></td>
<td>$23,792.98</td>
</tr>
</tbody>
</table>

Letters received              | 5,691  |          |         |
" written                      | 6,859  |          |         |

J. E. CARSON,
Agent of Dominion Lands.
REPORT OF THE AGENT OF DOMINION LANDS, PRINCE ALBERT, SASKATCHEWAN.

This district has been particularly favoured in the past, having been least affected by the drought of 1914. Stock raising has considerably increased throughout this district, and a large number of new grazing leases have been applied for. Settlements are beginning to see more clearly the advantages of mixed farming, for which this district is particularly well adapted. Numerous inquiries have been received from outside points and especially from the United States re lands in this district, and this office has endeavoured to furnish the intending settlers with most reliable information.

Statement of business transacted during the fiscal year ending March 31, 1917:

<table>
<thead>
<tr>
<th>Patent Branch—</th>
<th>Number</th>
<th>Revenue</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homestead fees</td>
<td>737</td>
<td>$7,370.00</td>
<td></td>
</tr>
<tr>
<td>Pre-emption fees</td>
<td>1</td>
<td>10.00</td>
<td></td>
</tr>
<tr>
<td>Purchased homestead fees</td>
<td>1</td>
<td>10.00</td>
<td></td>
</tr>
<tr>
<td>Improvements</td>
<td>117</td>
<td>$3,128.85</td>
<td></td>
</tr>
<tr>
<td>Land sales, cash</td>
<td>65</td>
<td>3,966.28</td>
<td></td>
</tr>
<tr>
<td>Pre-emption payments</td>
<td>8</td>
<td>507.80</td>
<td></td>
</tr>
<tr>
<td>Purchased homestead payments</td>
<td>8</td>
<td>666.71</td>
<td></td>
</tr>
<tr>
<td>Searches, map sales, office fees, etc.</td>
<td>204</td>
<td>51.00</td>
<td></td>
</tr>
<tr>
<td>Applications for patents received</td>
<td>753</td>
<td></td>
<td></td>
</tr>
<tr>
<td>“ inspections received</td>
<td>300</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Entries cancelled</td>
<td>400</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>$15,364.64</strong></td>
<td></td>
</tr>
</tbody>
</table>

| Timber and Grazing Branch—|        |             |             |
| Ground rent               | 14     | $7,278.27   |             |
| Royalty on sales          | 33     | 45,684.63   |             |
| Timber permits            | 561    | 7,504.85    |             |
| " seizures                | 44     | 4,778.76    |             |
| Hay permits               | 337    | 561.45      |             |
| Grazing rentals, cash      | 154    | 756.78      |             |
| Fire tax                   | 301    | 301.71      |             |
| **Total**                 |        | **66,866.45** |            |

| Forestry Branch—           |        |             |             |
| Permit fees and rental     | 434    | $2,638.93   |             |
| Seizures                   | 12     | 194.85      |             |
| Grazing rent, etc.         | 17     | 184.80      |             |
| Hay dues, etc.             | 86     | 231.60      |             |
| **Total**                 |        | **3,249.68** |            |

| Mining Lands and Yukon Branch—|        |             |             |
| Mining fees                | 383    | $1,357.55   |             |
| Rental                     | 1      | 3.00        |             |
| **Total**                 |        | **1,360.55** |            |

| School Lands Branch—       |        |             |             |
| Timber permits             | 18     | $231.15     |             |
| Hay permits                | 330    | 645.35      |             |
| Grazing rentals             | 79     | 822.26      |             |
| **Total**                 |        | **1,699.76**|            |

| Miscellaneous—            |        |             |             |
| Seed grain and provision repayments | 215 | $8,736.39   |             |
| **Total**                 |        | **8,736.39**|             |

| General—                  |        |             |             |
| Letters received          | 28,082 |             |             |
| " written                | 31,060 |             |             |

**Grand total**            |        | **$97,277.47** |            |

R. M. TREEN,  
Acting Agent of Dominion Lands.
REPORT OF THE AGENT OF DOMINION LANDS, RED DEER, ALBERTA.

Statement of business transacted during the fiscal year ending March 31, 1917:

<table>
<thead>
<tr>
<th>Department</th>
<th>Number</th>
<th>Revenue</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patent Branch</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Homestead fees</td>
<td></td>
<td>$2,490 00</td>
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</tr>
<tr>
<td>Pre-emption fees</td>
<td></td>
<td>300 00</td>
<td></td>
</tr>
<tr>
<td>Purchased homestead fees</td>
<td></td>
<td>220 00</td>
<td></td>
</tr>
<tr>
<td>Improvement payments</td>
<td></td>
<td>4,357 63</td>
<td></td>
</tr>
<tr>
<td>Land sales</td>
<td></td>
<td>2,119 62</td>
<td></td>
</tr>
<tr>
<td>Pre-emption payments</td>
<td></td>
<td>22,312 29</td>
<td></td>
</tr>
<tr>
<td>Purchased homestead payments</td>
<td></td>
<td>21,775 35</td>
<td></td>
</tr>
<tr>
<td>Sundries</td>
<td></td>
<td>30 60</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>$63,604 89</td>
<td></td>
</tr>
<tr>
<td>Timber Grazing and Irrigation</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Timber permits</td>
<td></td>
<td>$742 28</td>
<td></td>
</tr>
<tr>
<td>&quot; seizures</td>
<td></td>
<td>185 52</td>
<td></td>
</tr>
<tr>
<td>Hay permits</td>
<td></td>
<td>306 10</td>
<td></td>
</tr>
<tr>
<td>Grazing rentals</td>
<td></td>
<td>594 84</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>1,838 74</td>
<td></td>
</tr>
<tr>
<td>Forestry Branch</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Timber permits</td>
<td></td>
<td>$90 50</td>
<td></td>
</tr>
<tr>
<td>Grazing rental</td>
<td></td>
<td>26 40</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>116 90</td>
<td></td>
</tr>
<tr>
<td>Mining Lands and Yukon Branch</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mining royalty</td>
<td></td>
<td>$1,494 71</td>
<td></td>
</tr>
<tr>
<td>&quot; rental</td>
<td></td>
<td>2,307 47</td>
<td></td>
</tr>
<tr>
<td>&quot; fees and sundries</td>
<td></td>
<td>102 00</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>3,904 13</td>
<td></td>
</tr>
<tr>
<td>School Lands Branch</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Timber permits</td>
<td></td>
<td>$27 25</td>
<td></td>
</tr>
<tr>
<td>Hay permits</td>
<td></td>
<td>909 77</td>
<td></td>
</tr>
<tr>
<td>Grazing rental</td>
<td></td>
<td>3,711 89</td>
<td></td>
</tr>
<tr>
<td>Coal royalty</td>
<td></td>
<td>64 63</td>
<td></td>
</tr>
<tr>
<td>Coal rental</td>
<td></td>
<td>259 90</td>
<td></td>
</tr>
<tr>
<td>Mining fees and sundries</td>
<td></td>
<td>34 50</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>5,007 87</td>
<td></td>
</tr>
<tr>
<td>Seed Grain</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Seed grain payments</td>
<td>162</td>
<td>$13,899 27</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>13,899 27</td>
<td></td>
</tr>
<tr>
<td>Grand total</td>
<td></td>
<td>$88,351 85</td>
<td></td>
</tr>
<tr>
<td>Letters written</td>
<td>16,511</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&quot; received</td>
<td>25,522</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

P. PIDGEON,
Agent of Dominion Lands.
**Report of the Agent of Dominion Lands, Revelstoke, B.C.**

Statement of business transacted during the fiscal year ending March 31, 1917:

<table>
<thead>
<tr>
<th>Patent Branch</th>
<th>Number</th>
<th>Revenue</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homestead fees</td>
<td>51</td>
<td>$510.00</td>
<td></td>
</tr>
<tr>
<td>Improvements</td>
<td>39</td>
<td>1,596.87</td>
<td></td>
</tr>
<tr>
<td>Land sales</td>
<td>2</td>
<td>85.00</td>
<td></td>
</tr>
<tr>
<td>Townsite payments</td>
<td>10</td>
<td>350.02</td>
<td></td>
</tr>
<tr>
<td>Purchased homestead payments</td>
<td>3</td>
<td>61.88</td>
<td></td>
</tr>
<tr>
<td>Searches, map sales, etc.</td>
<td>67</td>
<td>22.10</td>
<td></td>
</tr>
<tr>
<td>Sundries</td>
<td>5</td>
<td>21.60</td>
<td></td>
</tr>
<tr>
<td>Applications for patents</td>
<td>14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inspections</td>
<td>14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Entries cancelled</td>
<td>35</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>$2,647.47</strong></td>
<td></td>
</tr>
</tbody>
</table>

| Timber and Grazing Lands Branch        |        |               |           |
| Bonus on timber                        | 1      | $2,100.00     |           |
| Ground rents                           | 73     | 2,370.04      |           |
| Royalties                              | 25     | 25,571.79     |           |
| Timber permits                         | 111    | 518.75        |           |
| "  seizures                            | 1      | 10.50         |           |
| Grazing rentals                         | 2      | 6.40          |           |
| Fireguarding                           | 3      | 211.83        |           |
| Sundries                               | 2      | 150.94        |           |
| **Total**                              |        | **30,940.25** |           |

| Mining Lands and Yukon Branch          |        |               |           |
| Rentals                                | 1      | $40.35        |           |
| **Total**                              |        | **40.35**     |           |

| General                                |        |               |           |
| Letters received                       | 11,668 |               |           |
| "  written                             | 12,780 |               |           |

T. J. Wadman,
Agent of Dominion Lands.
REPORT OF THE AGENT OF DOMINION LANDS, SASKATOON, SASKATCHEWAN.

Statement of business transacted during the fiscal year ending March 31, 1917—

<table>
<thead>
<tr>
<th>Patent Branch</th>
<th>Number</th>
<th>Revenue</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homestead fees</td>
<td>335</td>
<td>$3,340 00</td>
<td></td>
</tr>
<tr>
<td>Pre-emption</td>
<td>80</td>
<td>800 00</td>
<td></td>
</tr>
<tr>
<td>Purchased homestead fees</td>
<td>41</td>
<td>410 00</td>
<td></td>
</tr>
<tr>
<td>Improvements</td>
<td>98</td>
<td>5,268 00</td>
<td></td>
</tr>
<tr>
<td>Land sales, cash</td>
<td>39</td>
<td>2,750 20</td>
<td></td>
</tr>
<tr>
<td>Pre-emption payments</td>
<td>479</td>
<td>145,302 62</td>
<td></td>
</tr>
<tr>
<td>Purchased homestead payments</td>
<td>374</td>
<td>56,269 69</td>
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</tr>
<tr>
<td>Searches, etc</td>
<td>558</td>
<td>222 00</td>
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</tr>
<tr>
<td>Applications for patents</td>
<td>1,516</td>
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<td></td>
</tr>
<tr>
<td>Inspections</td>
<td>307</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Entries cancelled</td>
<td>300</td>
<td></td>
<td>$214,392 51</td>
</tr>
</tbody>
</table>

| Timber and Grazing Lands Branch | | | |
| Timber permits | 38 | $76 50 | |
| Hay permits | 72 | 458 95 | |
| Grazing rentals | 78 | 226 48 | |
| Sundries | 1 | 0 25 | |
| Total | | | 762 18 |

| Forestry Branch | | | |
| Timber dues | 64 | $30 50 | |
| Permit fees and rental | 4 | 1 00 | |
| Seizures | 2 | 1 25 | |
| Grazing rent, etc | 17 | 281 25 | |
| Hay dues, etc | 14 | 23 20 | |
| Total | | | 337 20 |

| Mining Lands and Yukon Branch | | | |
| Royalty | 1 | $23 35 | |
| Coal permits | 2 | 70 00 | |
| Sundries | 57 | 6,246 73 | |
| Total | | | 6,340 08 |

| School Lands Branch | | | |
| General sales | 1 | $1,929 42 | |
| Hay permits | 522 | 1,157 60 | |
| Grazing rentals | 150 | 1,973 83 | |
| Sundries | 7 | 210 40 | |
| Total | | | 5,276 25 |

| Miscellaneous | | | |
| Seed grain and provision | 3,528 | $371,702 67 | |
| Total | | | 371,702 67 |
| Grand total | | | $598,810 89 |
| Letters received | 44,020 | | |
| " written | 49,630 | | |

L. C. PATERSON,

Acting Agent of Dominion Lands.
REPORT OF THE AGENT OF DOMINION LANDS, SWIFT CURRENT, SASKACHEWAN.

Statement of business transacted during the fiscal year ending March 31, 1917:

<table>
<thead>
<tr>
<th>Patent Branch—</th>
<th>Number</th>
<th>Revenue</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homestead fees</td>
<td>494</td>
<td>$4,940 00</td>
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</tr>
<tr>
<td>Pre-emption fees</td>
<td>244</td>
<td>2,440 00</td>
<td></td>
</tr>
<tr>
<td>Purchased homestead fees</td>
<td>30</td>
<td>300 00</td>
<td></td>
</tr>
<tr>
<td>Improvements</td>
<td>92</td>
<td>8,288 95</td>
<td></td>
</tr>
<tr>
<td>Land sales, cash</td>
<td>35</td>
<td>7,317 18</td>
<td></td>
</tr>
<tr>
<td>Pre-emption payments</td>
<td>1,348</td>
<td>448,345 13</td>
<td></td>
</tr>
<tr>
<td>Searches, map sales, etc.</td>
<td>1,438</td>
<td>359 50</td>
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<tr>
<td>Applications for patents received</td>
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<tr>
<td>Inspections received</td>
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<tr>
<td>Entries cancelled</td>
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<td></td>
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<td>Total</td>
<td>497,201 00</td>
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<table>
<thead>
<tr>
<th>Timber and Grazing Lands Branch—</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Timber permits</td>
<td>10</td>
<td>$2 50</td>
</tr>
<tr>
<td>Hay permits</td>
<td>77</td>
<td>126 60</td>
</tr>
<tr>
<td>Grazing rentals, cash</td>
<td>346</td>
<td>5,379 42</td>
</tr>
<tr>
<td>Sundries</td>
<td>2</td>
<td>2 30</td>
</tr>
<tr>
<td>Total</td>
<td>5,520 82</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Forestry Branch—</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Grazing rent</td>
<td>26</td>
<td>$256 20</td>
</tr>
<tr>
<td>Hay dues</td>
<td>22</td>
<td>58 60</td>
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<tr>
<td>Total</td>
<td>314 80</td>
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<table>
<thead>
<tr>
<th>Irrigation Branch—</th>
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<tr>
<td>Sales</td>
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<td>$1,199 40</td>
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<tr>
<td>Total</td>
<td>1,199 40</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Mining Lands and Yukon Branch—</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Mining fees</td>
<td>2</td>
<td>$10 00</td>
</tr>
<tr>
<td>Royalty</td>
<td>1</td>
<td>5 00</td>
</tr>
<tr>
<td>Coal permits</td>
<td>2</td>
<td>1 60</td>
</tr>
<tr>
<td>Sundries</td>
<td>1</td>
<td>(Free)</td>
</tr>
<tr>
<td>Total</td>
<td>18 60</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>School Lands Branch—</th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Hay permits</td>
<td>394</td>
<td>$7,537 80</td>
</tr>
<tr>
<td>Grazing rentals</td>
<td>307</td>
<td>4,459 87</td>
</tr>
<tr>
<td>Sundries</td>
<td>6</td>
<td>3 75</td>
</tr>
<tr>
<td>Total</td>
<td>5,001 42</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Miscellaneous—</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Seed grain and provision repayments</td>
<td>2,927</td>
<td>$552,763 80</td>
</tr>
<tr>
<td>Total</td>
<td>552,763 80</td>
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<tr>
<td>Grand total</td>
<td>$1,062,019 84</td>
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</table>

<table>
<thead>
<tr>
<th>General—</th>
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</thead>
<tbody>
<tr>
<td>Letters received</td>
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<tr>
<td>written</td>
<td>46,564</td>
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</tr>
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</table>

S. LEE,
Acting Agent of Dominion Lands.
# REPORT OF THE DOMINION LANDS AGENT, WEYBURN, SASKATCHEWAN.

Statement showing the business transacted during the fiscal year ending March 31, 1917:

<table>
<thead>
<tr>
<th>Patent Branch</th>
<th>Number</th>
<th>Revenue</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homestead fees</td>
<td>260</td>
<td>$2,000</td>
<td>$2,000</td>
</tr>
<tr>
<td>Pre-emption fees</td>
<td>57</td>
<td>$700</td>
<td>$700</td>
</tr>
<tr>
<td>Purchased homestead fees</td>
<td>6</td>
<td>$60</td>
<td>$60</td>
</tr>
<tr>
<td>Improvements</td>
<td>63</td>
<td>$4,707</td>
<td>$4,707</td>
</tr>
<tr>
<td>Land sales, cash</td>
<td>6</td>
<td>$675</td>
<td>$675</td>
</tr>
<tr>
<td>Pre-emption payments</td>
<td>215</td>
<td>$56,827</td>
<td>$56,827</td>
</tr>
<tr>
<td>Purchased homestead payments</td>
<td>28</td>
<td>$2,417</td>
<td>$2,417</td>
</tr>
<tr>
<td>Searches, etc.</td>
<td>333</td>
<td>$98</td>
<td>$98</td>
</tr>
<tr>
<td>Applications for patents</td>
<td>462</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&quot; inspections.</td>
<td>179</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Entries cancelled</td>
<td>217</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>$71,565</td>
<td></td>
</tr>
</tbody>
</table>

| Timber and Grazing Lands Branch   |        |          | 776 55 |
| Timber permits                    | 3      | $0.75    |        |
| Hay permits and excess            | 86     | $626.60  |        |
| Grazing rentals, cash             | 104    | $547.20  |        |
| Sundries                          | 1      | $2.00    |        |
| **Total**                         |        |          | 166 35 |

| Forestry Branch                   |        |          |        |
| Permit fees and rental            | 1      | $0.50    |        |
| Timber                            | 2      | $7.00    |        |
| Hay                               | 2      | $5.65    |        |
| Excess                            | 16     | $23.75   |        |
| Hay                               | 26     | $60.05   |        |
| **Total**                         |        |          | 106 49 |

| Mining Lands and Yukon Branch     |        |          | 2,094 49|
| Mining fees, coal                 | 16     | $80.00   |        |
| Clay                              | 1      | $5.00    |        |
| Rental, coal                      | 20     | $417.55  |        |
| Royalty, clay                     | 1      | $40.00   |        |
| " coal                           | 33     | $1,451.94|        |
| Sundries                          | 1      | $19.00   |        |
| **Total**                         |        |          | 2,887 60|

| School Lands Branch               |        |          |        |
| Timber permits                    | 3      | $1.75    |        |
| Hay permits and excess            | 385    | $331.65  |        |
| Grazing rentals                   | 104    | $1,291.85|        |
| Mining fees                       | 1      | $5.00    |        |
| Coal rental                       | 4      | $182.60  |        |
| Royalty                           | 5      | $653.75  |        |
| **Total**                         |        |          | 2,887 60|

| Miscellaneous                      |        |          |        |
| Seed grain and provision repayments| 327    | $19,933.11| $19,933.11|
| **Total**                         |        |          | 19,933 11|

| Letters received                  | 1,351  |          |        |
| " written                         | 1,253  |          |        |

**Grand total**                    |        | $97,363 84|

S. C. MURRAY, Agent of Dominion Lands.
REPORT OF AGENT OF DOMINION LANDS, WINNIPEG, MANITOBA.

Statement of business transacted during the fiscal year ending March 31, 1917:

<table>
<thead>
<tr>
<th>Branch</th>
<th>Number</th>
<th>Revenue</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patent Branch</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Homestead entries</td>
<td>1,270</td>
<td>$12,700.00</td>
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</tr>
<tr>
<td>Improvements</td>
<td>242</td>
<td>10,037.81</td>
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</tr>
<tr>
<td>Land sales, cash</td>
<td>60</td>
<td>6,251.01</td>
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<tr>
<td>Searches, maps, etc.</td>
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<td>390.15</td>
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<tr>
<td>Seed grain</td>
<td>129</td>
<td>9,819.23</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>39,198.20</strong></td>
<td></td>
</tr>
<tr>
<td>Timber and Grazing Lands Branch</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grazing rentals</td>
<td>78</td>
<td>$374.24</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>374.24</strong></td>
<td></td>
</tr>
<tr>
<td>Mines Branch</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mining fees</td>
<td>1,465</td>
<td>$6,581.65</td>
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</tr>
<tr>
<td>Rentals</td>
<td>59</td>
<td>1,157.52</td>
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</tr>
<tr>
<td>Quarries</td>
<td>14</td>
<td>55.60</td>
<td></td>
</tr>
<tr>
<td>Petroleum and gas</td>
<td>12</td>
<td>535.63</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>8,279.80</strong></td>
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</tr>
<tr>
<td>School Lands Branch</td>
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<td></td>
</tr>
<tr>
<td>Sales</td>
<td>18</td>
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</tr>
<tr>
<td>Grazing rentals</td>
<td>73</td>
<td>981.50</td>
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<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>4,136.17</strong></td>
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</tr>
<tr>
<td><strong>Grand total</strong></td>
<td></td>
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</tr>
<tr>
<td>General</td>
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</tr>
<tr>
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<td></td>
</tr>
<tr>
<td>&quot; inspections</td>
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</tr>
<tr>
<td>Entries cancelled</td>
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</tr>
<tr>
<td>Letters received</td>
<td>21,307</td>
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</tr>
<tr>
<td>&quot; written</td>
<td>27,482</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

L. RANKIN,

Agent of Dominion Lands.
REPORT OF THE AGENT OF DOMINION LANDS, YORKTON,
SASKATCHEWAN.

Statement of business transacted during the fiscal year ending March 31, 1917:

<table>
<thead>
<tr>
<th>Branch</th>
<th>Number</th>
<th>Revenue</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patent Branch</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Homestead entries</td>
<td>380</td>
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<tr>
<td>Improvements</td>
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<tr>
<td>Land sales</td>
<td>15</td>
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<tr>
<td>Searches, etc.</td>
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</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td>$6,264.05</td>
</tr>
<tr>
<td>Timber and Grazing Branch</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Timber permits</td>
<td>54</td>
<td>$123.90</td>
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</tr>
<tr>
<td>seizures</td>
<td>3</td>
<td>319.75</td>
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</tr>
<tr>
<td>Hay permits</td>
<td>22</td>
<td>201.10</td>
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</tr>
<tr>
<td>Grazing rentals</td>
<td>13</td>
<td>53.00</td>
<td></td>
</tr>
<tr>
<td>Total</td>
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<td></td>
<td>698.35</td>
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<td>Forestry Branch</td>
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</tr>
<tr>
<td>Timber dues</td>
<td>121</td>
<td>$465.21</td>
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</tr>
<tr>
<td>Permit fees and rentals</td>
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<td>26.25</td>
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<tr>
<td>Seizures</td>
<td>6</td>
<td>56.05</td>
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</tr>
<tr>
<td>Grazing rentals</td>
<td>14</td>
<td>139.65</td>
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<tr>
<td>Hay dues</td>
<td>58</td>
<td>324.10</td>
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<td>Total</td>
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<td>1,065.16</td>
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<tr>
<td>School Lands Branch</td>
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<tr>
<td>General sales</td>
<td>18</td>
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<tr>
<td>Timber permits</td>
<td>1</td>
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<tr>
<td>Hay permits</td>
<td>272</td>
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<tr>
<td>Grazing rentals</td>
<td>73</td>
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<td>Total</td>
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<td>11,025.59</td>
</tr>
<tr>
<td>Miscellaneous</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Seed grain and relief repayments</td>
<td>438</td>
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<tr>
<td>Total</td>
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<td>24,396.54</td>
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<tr>
<td>Grand total</td>
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<tr>
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<tr>
<td>&quot; inspections</td>
<td>213</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Entries cancelled</td>
<td>215</td>
<td></td>
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</tr>
<tr>
<td>Letters received</td>
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</tr>
<tr>
<td>&quot; written</td>
<td>13,724</td>
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<td></td>
</tr>
</tbody>
</table>

J. A. DUNCAN,
Agent of Dominion Lands.
REPORT OF THE MINING LANDS AND YUKON BRANCH.

The total revenue of this branch, derived from all sources during the fiscal year, amounts to $612,928.06, being an increase of $125,956.99 over the previous year. Owing to conditions resulting from the war it has been found necessary to grant, in a number of cases, extensions of time within which to pay the rental of mining locations acquired under lease.

The statements lettered "A" and "B," showing in different forms how the revenue is made up, will be found at the end of this report. The statement lettered "A" shows the total revenue for each month, and the statement lettered "B" shows the revenue collected at each agency, including the Yukon Territory.

The revenue for the Yukon Territory for the year amounts to $174,565.92.

The reports and statements for the fiscal year from the Administrator, the Gold Commissioner, Crown Timber and Land Agent, the Comptroller, the Assistant Gold Commissioner at Whitehorse, and the Inspecting Engineer will be found under this part of the report.

TIMBER IN THE YUKON TERRITORY.

The total amount of dues collected on account of timber in the Yukon Territory during the fiscal year was $14,560.48. During the year 163 permits were issued, under the authority of which 308,502 feet (board measure) of timber and 22,317½ cords of wood were cut. The dues collected on permits issued amounted to $11,353.57.

There are in existence 93 timber berths held under license to cut timber within the territory, covering an area of 185.61 square miles, which licenses were granted prior to May 10, 1906, on which date the regulations governing the granting of licenses to cut such timber in the territory were rescinded, and regulations for the issue of permits to cut timber substituted therefor.

According to returns received in the department, the number of feet (board measure) of lumber manufactured under license during the year, and sold, was 79,408. Seizure dues, amounting to $644.50, were collected on 757 cords of wood cut in trespass. This does not include the very large amount of timber and cordwood cut free of dues for mining purposes.

MINING LANDS OTHER THAN COAL.

During the fiscal year, 967 entries for quartz-mining claims and seven entries for placer-mining claims were granted by the mining recorders in Manitoba, Saskatchewan and Alberta, and by the mining recorder for unorganized districts.

According to the returns received from the Yukon Territory during the fiscal year, 143 entries for placer-mining claims, 218 entries for quartz-mining claims, and 3,982 renewals and relocations were recorded during that period. The revenue collected from these sources and from fees for registering documents in connection with mining operations was $47,673.

ROYALTY ON GOLD MINED IN THE YUKON TERRITORY.

The total amount collected up to March 31, 1917, for royalty on the output of placer-mining claims in the Yukon Territory, after deducting the exemption at one
time allowed under the regulations, was $4,582,970.09, of which amount $99,007.92 was collected during the last fiscal year. For the purpose of estimating this royalty, the gold is valued at $15 an ounce, which is much below its real value.

The actual value of gold produced from placer-mining operations in the Yukon Territory, up to March 31 last, might be safely placed at $148,070,285.

The statement lettered "D," at the end of this report, shows the total gold production, the total production subject to royalty, and the total royalty collected for each fiscal year from May 1, 1898, to March 31, 1917.

DREDGING.

Twenty-five leases to dredge for minerals in the beds of rivers in the Yukon Territory are now in force, covering a total frontage of 157.76 miles. The total revenue derived from this source up to March 31, 1917, amounts to $197,559.22, of which amount $1,317.91 was collected during the fiscal year just closed.

These dredging leases are confined to the Yukon, McQuesten, Fortymile, Big Salmon, Klondike and Sixymile rivers.

There are in operation in the Yukon Territory eleven dredges. Most of these dredges are working on the Klondike river and tributaries, and are operated by hydro-electric motive power. Two of the largest gold-saving dredges in the world are now being operated most successfully on the Klondike river-flat.

Twelve leases to dredge for minerals in the submerged beds of rivers in the provinces of Alberta and Saskatchewan are now in force, covering a total frontage of 59 miles. Of these leases, four are in the province of Alberta and include 20 miles, and eight are in the province of Saskatchewan and include 39 miles. The total revenue derived from this source up to March 31, 1917, amounts to $16,056.15, of which amount $222.95 was collected during the past fiscal year.

HYDRAULIC MINING.

The Hydraulic Mining Regulations relating to the Yukon Territory were rescinded by an Order in Council, dated February 2, 1904, but leases already granted were not affected by such withdrawal.

There are still in force in the Yukon Territory seven hydraulic mining leases, covering an area of 15.27 square miles. Since the Hydraulic Mining Regulations were first established in December, 1898, forty-seven hydraulic mining leases have been issued, all of which have now been cancelled, with the exception of the above number.

HOMESTEADS IN THE YUKON TERRITORY.

Eighty-seven homestead entries in the Yukon Territory have been granted, of which seventy-two are now in force, comprising a total area of 11,096.21 acres. Patents have been issued for five homesteads.

PETROLEUM AND NATURAL GAS.

There are now in force under the regulations 2,694 petroleum and natural gas leases, embracing a total area of 1,073.114 acres, distributed as follows: In Manitoba, 9 leases, comprising 2,232 acres; in Saskatchewan, 78 leases, comprising 42,480 acres; in Alberta, 2,327 leases, comprising 951,355 acres; in British Columbia, 272
SESSIONAL PAPER No. 25

leases, comprising 68.107 acres: and in the Northwest Territories 8 leases, comprising 8,960 acres. The total revenue derived from petroleum lands during the year amounts to $91,973.93.

Natural gas has been discovered and is now being utilized for commercial and domestic purposes in different parts of the province of Alberta. Boring operations are being carried on throughout Alberta and Saskatchewan with a view to the further discovery.

QUARRYING.

The number of leases now in force, issued under the provisions of the regulations, is 303, distributed as follows: In Manitoba, 93 leases, comprising 2,840 acres; in Saskatchewan, 40 leases, comprising 1,266 acres; in Alberta, 121 leases, comprising 5,411 acres; and in British Columbia, 51 leases, comprising 1,582 acres.

The total revenue collected during the fiscal year on account of quarrying leases, including the application fees, amounts to $8,407.59.

WATER-RIGHTS.

There are now in force in the Yukon Territory 455 grants to divert water for mining purposes, aggregating a total of 109,646 miner's inches. During the last fiscal year nine water-rights were issued, comprising 1,310 miner's inches.

Grants are issued by this department, authorizing the diversion of water in the Yukon Territory for power purposes. Up to date, thirteen grants have been issued, authorizing the diversion of 131,200 miner's inches of water. Four of these grants have been permitted to lapse, but the remaining nine, authorizing the diversion of 66,200 miner's inches of water, are in good standing. Two power plants have been installed, one of which is situated on the north fork of the Klondike river, and it appears that this plant is kept in operation during the winter, and the power generated is being used for heating and lighting purposes in the city of Dawson.

COAL-MINING LANDS.

The total amount collected on account of the sale of coal-mining lands up to March 31, 1917, was $2,093,628.54.

The statement lettered "C," at the end of this report, shows the revenue derived from the sale of coal lands for each fiscal year since 1896.

COAL LEASES.

The total number of coal-mining leases in force at the close of the fiscal year was 540, including a total area of 270,762 acres, distributed as follows: In the province of Alberta, 462 leases, comprising 265,181 acres; in Saskatchewan, 77 leases, comprising 5,541 acres; and in Yukon Territory, one lease, comprising 40 acres.

The total number of leases of coal-mining rights issued during the year was 67, comprising 17,020 acres. The total revenue received during the year for rental of coal-mining rights was $168,420.34.

ROYALTY ON COAL.

Under the regulations governing the issue of leases to mine coal the royalty is fixed at five cents per ton of 2,000 pounds on the merchantable output of the mine.
The following is a statement showing the amount collected on account of royalty on coal mined from lands in the western provinces, the Northwest Territories, and the Yukon Territory, respectively, during each year since the regulations came into effect:

<table>
<thead>
<tr>
<th>Year</th>
<th>Alberta</th>
<th>Saskatchewan</th>
<th>British Columbia</th>
<th>Yukon</th>
<th>Northwest Territories</th>
</tr>
</thead>
<tbody>
<tr>
<td>1903-4</td>
<td>$56</td>
<td>Nil</td>
<td>$110</td>
<td>Nil</td>
<td>47</td>
</tr>
<tr>
<td>1904-5</td>
<td>2,822</td>
<td>110</td>
<td>47</td>
<td>569</td>
<td></td>
</tr>
<tr>
<td>1905-6</td>
<td>2,379</td>
<td>47</td>
<td>3,865</td>
<td>517</td>
<td></td>
</tr>
<tr>
<td>1906-7</td>
<td>7,621</td>
<td>4</td>
<td>1,543</td>
<td>731</td>
<td></td>
</tr>
<tr>
<td>1907-8</td>
<td>5,322</td>
<td>358</td>
<td>2,380</td>
<td>416</td>
<td></td>
</tr>
<tr>
<td>1908-9</td>
<td>158,559</td>
<td>1,672</td>
<td>$358</td>
<td>315</td>
<td></td>
</tr>
<tr>
<td>1909-10</td>
<td>218,932</td>
<td>2,184</td>
<td>1,040</td>
<td>128</td>
<td></td>
</tr>
<tr>
<td>1910-11</td>
<td>104,894</td>
<td>2,034</td>
<td>278</td>
<td>350</td>
<td></td>
</tr>
<tr>
<td>1911-12</td>
<td>142,927</td>
<td>3,145</td>
<td>6,66</td>
<td>1,069</td>
<td></td>
</tr>
<tr>
<td>1912-13</td>
<td>147,198</td>
<td>2,123</td>
<td>195</td>
<td>Nil</td>
<td></td>
</tr>
<tr>
<td>1913-14</td>
<td>104,489</td>
<td>1,680</td>
<td>4,900</td>
<td>Nil</td>
<td></td>
</tr>
<tr>
<td>1914-15</td>
<td>67,190</td>
<td>2,601</td>
<td>3,585</td>
<td>$5 10</td>
<td></td>
</tr>
<tr>
<td>1915-16</td>
<td>149,447</td>
<td>2,228</td>
<td>8,32</td>
<td>Nil</td>
<td></td>
</tr>
</tbody>
</table>

By an Order in Council dated April 7, 1913, provision was made that, owing to the scarcity of fuel in the Yukon Territory, no royalty shall be levied or collected on coal mined in that territory for a period of five years, that is, up to April 7, 1918.

The total amount derived from coal-mining lands on account of purchase price, rental, royalty and application fees, during the fiscal year, amounted to $324,899.93.

There are thirteen members of the staff of this branch on active service.
The following is a statement of the office work performed during the year:

<table>
<thead>
<tr>
<th>Description</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Letters received and recorded</td>
<td>18,416</td>
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<tr>
<td>Sent</td>
<td>68,780</td>
</tr>
<tr>
<td>Pages of memoranda and schedule</td>
<td>5,740</td>
</tr>
<tr>
<td>Reports on land from other branches</td>
<td>4,500</td>
</tr>
<tr>
<td>Plans and sketches prepared</td>
<td>1,364</td>
</tr>
<tr>
<td>Accounts kept posted</td>
<td>24,157</td>
</tr>
<tr>
<td>Rendered</td>
<td>13,468</td>
</tr>
<tr>
<td>Assignments accepted and registered</td>
<td>156</td>
</tr>
<tr>
<td>Returns examined and posted</td>
<td>2,029</td>
</tr>
<tr>
<td>Receipts issued</td>
<td>463</td>
</tr>
<tr>
<td>Refunds examined and prepared</td>
<td>102</td>
</tr>
<tr>
<td>New entries and renewals for mining locations granted in the Western</td>
<td>1,554</td>
</tr>
<tr>
<td>Provinces and Territories, not including the Yukon</td>
<td></td>
</tr>
<tr>
<td>Applications for coal locations received</td>
<td>178</td>
</tr>
<tr>
<td>&quot; stone, gypsum and clay received</td>
<td>40</td>
</tr>
<tr>
<td>&quot; petroleum and natural gas received</td>
<td>772</td>
</tr>
<tr>
<td>&quot; quartz claims in Alberta, Saskatchewan, Manitoba and the Northwest</td>
<td>962</td>
</tr>
<tr>
<td>Territories</td>
<td></td>
</tr>
<tr>
<td>&quot; placer mining claims in Alberta, Saskatchewan and Manitoba</td>
<td>7</td>
</tr>
<tr>
<td>&quot; dredging leases</td>
<td>4</td>
</tr>
<tr>
<td>&quot; homestead entries in the Yukon</td>
<td>6</td>
</tr>
<tr>
<td>&quot; to purchase or lease lands in the Yukon</td>
<td>16</td>
</tr>
<tr>
<td>&quot; for grazing leases in the Yukon</td>
<td>6</td>
</tr>
<tr>
<td>Homestead entries granted</td>
<td>6</td>
</tr>
<tr>
<td>Agricultural leases in force in the Yukon, comprising 157.85 acres</td>
<td>26</td>
</tr>
<tr>
<td>Water-front leases in existence</td>
<td>29</td>
</tr>
<tr>
<td>Gold dredging leases issued</td>
<td>4</td>
</tr>
<tr>
<td>Coal mining leases issued, comprising 17,020 acres</td>
<td>67</td>
</tr>
<tr>
<td>Quarrying leases issued, comprising 105 acres</td>
<td>18</td>
</tr>
<tr>
<td>Clay leases issued, comprising 20 acres</td>
<td>1</td>
</tr>
<tr>
<td>Petroleum and natural gas leases issued, comprising 183.871 acres</td>
<td>616</td>
</tr>
<tr>
<td>Grazing leases issued in the Yukon Territory</td>
<td>1</td>
</tr>
<tr>
<td>Prospecting reservations made under Section 18 of the Coal Mining Regulations, comprising 13.545 acres</td>
<td>16</td>
</tr>
</tbody>
</table>

H. H. ROWATT,  
Comptroller.
## REVENUE OF DOMINION LANDS

### A. — Statement of Receipts on account of Coal and Minerals in the Provinces and Mining Fees, Rental of Agricultural Lands, Water-power and Water Fronts, and

<table>
<thead>
<tr>
<th>Month</th>
<th>Quartz Acreage Sales</th>
<th>Dominion Lands Sales</th>
<th>Coal Sales</th>
<th>Coal Mining</th>
<th>CoalRoyalty</th>
<th>Coal Rental</th>
<th>Rental, Yukon</th>
<th>Timber Dues, Yukon</th>
<th>Mining Fees</th>
<th>Hydraulic Leases</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$</td>
<td>$</td>
<td>$</td>
<td>$</td>
<td>$</td>
<td>$</td>
<td>$</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>April</td>
<td>9 81</td>
<td>924 77</td>
<td>235 00</td>
<td>7,607 09</td>
<td>9,659 73</td>
<td>4,398 73</td>
<td>1,068 69</td>
<td>2,750 50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>May</td>
<td>265 09</td>
<td>385 00</td>
<td>15,265 74</td>
<td>19,080 92</td>
<td>3,833 36</td>
<td>2,404 15</td>
<td>2,708 60</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>June</td>
<td>78 30</td>
<td>335 00</td>
<td>5,085 86</td>
<td>1,340 53</td>
<td>1,340 53</td>
<td>1,340 53</td>
<td>3,141 31</td>
<td>8,419 35</td>
<td></td>
<td></td>
</tr>
<tr>
<td>July</td>
<td>5 00</td>
<td>380 00</td>
<td>10,122 27</td>
<td>11,950 76</td>
<td>7,563 27</td>
<td>13 79</td>
<td>1,986 24</td>
<td>5,350 35</td>
<td></td>
<td>73 50</td>
</tr>
<tr>
<td>August</td>
<td>137 54</td>
<td>50 00</td>
<td>17,097 38</td>
<td>3,703 27</td>
<td>75 63</td>
<td>993 22</td>
<td>8,705 25</td>
<td></td>
<td></td>
<td>507 00</td>
</tr>
<tr>
<td>September</td>
<td>143 87</td>
<td>135 00</td>
<td>11,847 57</td>
<td>7,239 34</td>
<td>285 19</td>
<td>1,033 75</td>
<td>11,796 50</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>October</td>
<td>283 71</td>
<td>75 25</td>
<td>6,223 55</td>
<td>13,763 21</td>
<td>3 66</td>
<td>1,323 37</td>
<td>5,338 71</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>November</td>
<td>65 00</td>
<td>235 00</td>
<td>15,125 23</td>
<td>22,369 28</td>
<td>90 00</td>
<td>1,020 75</td>
<td>2,323 00</td>
<td>3,375 00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>December</td>
<td>88 37</td>
<td>135 36</td>
<td>11,090 48</td>
<td>12,147 32</td>
<td>336 69</td>
<td>1,050 75</td>
<td>8,887 70</td>
<td>1,383 00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>16 50</td>
<td>180 00</td>
<td>23,906 75</td>
<td>15,087 72</td>
<td>1,146 98</td>
<td>373 00</td>
<td>2,909 75</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>February</td>
<td>2 75</td>
<td>800 00</td>
<td>9,369 67</td>
<td>16,288 68</td>
<td>14 57</td>
<td>761 00</td>
<td>1,878 50</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>March</td>
<td>372 08</td>
<td>1,789 77</td>
<td>3,005 00</td>
<td>151,684 82</td>
<td>82,168,50</td>
<td>7,909 91</td>
<td>14,590 48</td>
<td>58,693 61</td>
<td>12,338 50</td>
<td></td>
</tr>
</tbody>
</table>

Total: $3,005 00 $151,684 82 $82,168,50 $7,909 91 $14,590 48 $58,693 61 $12,338 50
INCLUDING THE YUKON TERRITORY.

Territories, also Timber, Hay, Coal, Hydraulic Mining, Dredging, Royalty on Gold, Sale of Dominion Lands in the Yukon, for the Fiscal Year ended March 31, 1917.

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>8 cts.</td>
<td>8 cts.</td>
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<td>8 cts.</td>
<td>8 cts.</td>
<td></td>
</tr>
<tr>
<td>40 00</td>
<td>200 00</td>
<td>4,912 18</td>
<td>10 00</td>
<td>512 40</td>
<td>2 00</td>
<td>27 06</td>
<td>30 00</td>
<td>27 06</td>
<td>3,900 02</td>
<td>7,254 88</td>
<td>40,650 00</td>
<td>918 56</td>
<td>28,113 77</td>
</tr>
<tr>
<td>14,359 70</td>
<td>3 00</td>
<td>1,154 34</td>
<td>10 00</td>
<td>10 00</td>
<td>40 00</td>
<td>26 75</td>
<td>50 00</td>
<td>50 00</td>
<td>7,254 88</td>
<td>51,475 64</td>
<td>43,736 77</td>
<td>50 00</td>
<td>59,996 80</td>
</tr>
<tr>
<td>13,349 46</td>
<td>3 00</td>
<td>662 44</td>
<td>18 50</td>
<td>50 00</td>
<td>50 00</td>
<td>50 00</td>
<td>50 00</td>
<td>50 00</td>
<td>5,865 02</td>
<td>49,760 93</td>
<td>49,760 93</td>
<td>51,475 64</td>
<td>59,996 80</td>
</tr>
<tr>
<td>150 00</td>
<td>60 00</td>
<td>775 27</td>
<td>10 00</td>
<td>50 00</td>
<td>50 00</td>
<td>50 00</td>
<td>50 00</td>
<td>50 00</td>
<td>5,865 02</td>
<td>49,760 93</td>
<td>49,760 93</td>
<td>51,475 64</td>
<td>59,996 80</td>
</tr>
<tr>
<td>96 81</td>
<td>10 00</td>
<td>282 84</td>
<td>40 00</td>
<td>50 00</td>
<td>50 00</td>
<td>50 00</td>
<td>50 00</td>
<td>50 00</td>
<td>3,190 13</td>
<td>54,594 89</td>
<td>54,594 89</td>
<td>51,475 64</td>
<td>59,996 80</td>
</tr>
<tr>
<td>32 95</td>
<td>208 73</td>
<td>23,596 78</td>
<td>3 00</td>
<td>1,194 32</td>
<td>4 00</td>
<td>50 00</td>
<td>50 00</td>
<td>50 00</td>
<td>3,190 13</td>
<td>54,594 89</td>
<td>54,594 89</td>
<td>51,475 64</td>
<td>59,996 80</td>
</tr>
<tr>
<td>32 95</td>
<td>208 73</td>
<td>23,596 78</td>
<td>3 00</td>
<td>1,194 32</td>
<td>4 00</td>
<td>50 00</td>
<td>50 00</td>
<td>50 00</td>
<td>3,190 13</td>
<td>54,594 89</td>
<td>54,594 89</td>
<td>51,475 64</td>
<td>59,996 80</td>
</tr>
<tr>
<td>4,936 10</td>
<td>10 00</td>
<td>507 42</td>
<td>7 00</td>
<td>10 00</td>
<td>10 00</td>
<td>70 00</td>
<td>70 00</td>
<td>70 00</td>
<td>55 73 00</td>
<td>10,650 32</td>
<td>55 73 00</td>
<td>51,475 64</td>
<td>59,996 80</td>
</tr>
<tr>
<td>496 60</td>
<td>387 51</td>
<td>624 18</td>
<td>10 00</td>
<td>10 00</td>
<td>10 00</td>
<td>10 00</td>
<td>10 00</td>
<td>10 00</td>
<td>4,924 86</td>
<td>43,736 78</td>
<td>43,736 78</td>
<td>51,475 64</td>
<td>59,996 80</td>
</tr>
<tr>
<td>152 20</td>
<td>933 79</td>
<td>784 51</td>
<td>10 00</td>
<td>10 00</td>
<td>10 00</td>
<td>10 00</td>
<td>10 00</td>
<td>10 00</td>
<td>4,924 86</td>
<td>43,736 78</td>
<td>43,736 78</td>
<td>51,475 64</td>
<td>59,996 80</td>
</tr>
<tr>
<td>496 60</td>
<td>387 51</td>
<td>624 18</td>
<td>10 00</td>
<td>10 00</td>
<td>10 00</td>
<td>10 00</td>
<td>10 00</td>
<td>10 00</td>
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<td>43,736 78</td>
<td>43,736 78</td>
<td>51,475 64</td>
<td>59,996 80</td>
</tr>
<tr>
<td>222 93</td>
<td>1,317 91</td>
<td>99,067 92</td>
<td>84 00</td>
<td>8,407 59</td>
<td>117 50</td>
<td>83 50</td>
<td>83 50</td>
<td>83 50</td>
<td>21,113 69</td>
<td>52,245 76</td>
<td>52,245 76</td>
<td>51,475 64</td>
<td>59,996 80</td>
</tr>
<tr>
<td>309 80</td>
<td>1,609 23</td>
<td>91,973 93</td>
<td>26 00</td>
<td>8,407 59</td>
<td>117 50</td>
<td>83 50</td>
<td>83 50</td>
<td>83 50</td>
<td>21,113 69</td>
<td>52,245 76</td>
<td>52,245 76</td>
<td>51,475 64</td>
<td>59,996 80</td>
</tr>
<tr>
<td>222 93</td>
<td>1,317 91</td>
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DOMINION LANDS REVENUE.

B.—Statement showing the total amount of Revenue collected at each Agency, including the Yukon Territory, for the Fiscal Year ended March 31, 1917. (Revenue received at head office is in the statement credited to the several Agencies in which the lands are situated.)

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<th>Coal Sales</th>
<th>Coal Mining</th>
<th>Coal Royalty</th>
<th>Coal Rental</th>
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<th>Timber Dues, Yukon</th>
<th>Mining Fees</th>
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**DOMINION LANDS REVENUE.**

B.—Statement showing the total amount of Revenue collected at each Agency, including the Yukon Territory, for the Fiscal Year ended March 31, 1917. (Revenue received at head office is in the statement credited to the several Agencies in which the lands are situated.)—Concluded.

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<th>Homestead Fees</th>
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<td>Dawson Gold Commissioner's Office</td>
<td></td>
<td></td>
<td>190.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3,972.21</td>
</tr>
<tr>
<td>Duncan Mining Recorder's Office</td>
<td></td>
<td></td>
<td>362.40</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2,136.00</td>
</tr>
</tbody>
</table>

---

8 GEORGE V. A. 1918
<table>
<thead>
<tr>
<th>Department</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dawson Royalty Collector's Office</td>
<td>38,555 45</td>
</tr>
<tr>
<td>Dawson Comptroller's Office</td>
<td>33 00</td>
</tr>
<tr>
<td>Dawson Crown Timber Office</td>
<td></td>
</tr>
<tr>
<td>Dawson Dominion Lands Office</td>
<td>22 00 50 00 83 50</td>
</tr>
<tr>
<td>Dawson Mining Recorder's Office</td>
<td></td>
</tr>
<tr>
<td>Whitehorse Ass't. Gold Commissioner's Office</td>
<td>1,246 50</td>
</tr>
<tr>
<td>Conrad Mining Recorder's Office</td>
<td>350 00</td>
</tr>
<tr>
<td>Kluane Mining Recorder's Office</td>
<td>449 00</td>
</tr>
<tr>
<td>Whitehorse Royalty Collector's Office</td>
<td>452 47</td>
</tr>
<tr>
<td>Whitehorse Comptroller's Office</td>
<td>5 00</td>
</tr>
<tr>
<td>Whitehorse Crown Timber Office</td>
<td></td>
</tr>
<tr>
<td>Whitehorse Dominion Lands Office</td>
<td>10 00</td>
</tr>
<tr>
<td></td>
<td>99,007 92</td>
</tr>
<tr>
<td></td>
<td>38 00 8,407 59</td>
</tr>
<tr>
<td></td>
<td>117 50 60 00 83 50 399 80 1,609 23</td>
</tr>
<tr>
<td></td>
<td>2 60 91,973 93</td>
</tr>
<tr>
<td></td>
<td>35 15 612,928 06</td>
</tr>
</tbody>
</table>
C.—Statement showing the total Revenue derived from the Sale of Coal Lands for each Fiscal Year since 1896.

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Gold Production</th>
<th>Subject to Royalty</th>
<th>Royalty Collected</th>
<th>Total Revenue</th>
</tr>
</thead>
<tbody>
<tr>
<td>1896-1897</td>
<td>$75 76</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1897-1898</td>
<td>1,883 74</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1898-1899</td>
<td>350 09</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1899-1900</td>
<td>5,650 33</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1900-1901</td>
<td>101,772 00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1901-1902</td>
<td>18,370 32</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1902-1903</td>
<td>31,055 38</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1903-1904</td>
<td>65,948 75</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1904-1905</td>
<td>35,695 00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1905-1906</td>
<td>125,754 12</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1897-1898</td>
<td>335,795 97</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1906-1907</td>
<td>246,813 23</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1907-1908</td>
<td>276,188 86</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1908-1909</td>
<td>377,445 86</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1909-1910</td>
<td>191,257 23</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1910-1911</td>
<td>11,861 66</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1911-1912</td>
<td>1,889 52</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1912-1913</td>
<td>5,529 55</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1913-1914</td>
<td>326 29</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1914-1915</td>
<td>165 03</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1915-1916</td>
<td>1,789 77</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1916-1917</td>
<td>1,789 77</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total... $1,936,517 37

D.—Statement showing the total Gold Production, the total subject to Royalty, and the total Royalty collected for each Fiscal Year from May 1, 1898, to March 31, 1917.

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Gold Production</th>
<th>Subject to Royalty</th>
<th>Royalty Collected</th>
<th>Total Revenue</th>
</tr>
</thead>
<tbody>
<tr>
<td>1897-1898</td>
<td>3,672,773 20</td>
<td>2,732,928 20</td>
<td>273,292 82</td>
<td>273,292 82</td>
</tr>
<tr>
<td>1898-1899</td>
<td>7,582,283 02</td>
<td>5,882,636 00</td>
<td>388,262 37</td>
<td>388,262 37</td>
</tr>
<tr>
<td>1899-1900</td>
<td>9,809,464 64</td>
<td>7,307,730 06</td>
<td>730,771 99</td>
<td>730,771 99</td>
</tr>
<tr>
<td>1900-1901</td>
<td>9,162,082 79</td>
<td>7,234,146 17</td>
<td>592,660 88</td>
<td>592,660 88</td>
</tr>
<tr>
<td>1901-1902</td>
<td>9,566,340 52</td>
<td>8,367,295 88</td>
<td>331,436 79</td>
<td>331,436 79</td>
</tr>
<tr>
<td>1902-1903</td>
<td>12,113,015 34</td>
<td>12,113,015 31</td>
<td>302,893 48</td>
<td>302,893 48</td>
</tr>
<tr>
<td>1903-1904</td>
<td>10,790,663 12</td>
<td>10,790,663 12</td>
<td>272,217 96</td>
<td>272,217 96</td>
</tr>
<tr>
<td>1904-1905</td>
<td>8,222,053 91</td>
<td>8,222,053 91</td>
<td>296,799 87</td>
<td>296,799 87</td>
</tr>
<tr>
<td>1905-1906</td>
<td>6,540,007 09</td>
<td>6,540,007 09</td>
<td>163,963 25</td>
<td>163,963 25</td>
</tr>
<tr>
<td>1906-1907</td>
<td>3,304,791 05</td>
<td>3,304,791 05</td>
<td>82,622 42</td>
<td>82,622 42</td>
</tr>
<tr>
<td>1907-1908</td>
<td>2,829,161 60</td>
<td>2,829,161 60</td>
<td>70,504 65</td>
<td>70,504 65</td>
</tr>
<tr>
<td>1908-1909</td>
<td>3,260,282 80</td>
<td>3,260,282 80</td>
<td>81,507 07</td>
<td>81,507 07</td>
</tr>
<tr>
<td>1909-1910</td>
<td>3,504,231 20</td>
<td>3,504,231 20</td>
<td>89,844 10</td>
<td>89,844 10</td>
</tr>
<tr>
<td>1910-1911</td>
<td>4,126,727 60</td>
<td>4,126,727 60</td>
<td>103,168 19</td>
<td>103,168 19</td>
</tr>
<tr>
<td>1911-1912</td>
<td>4,024,236 75</td>
<td>4,024,236 75</td>
<td>100,606 29</td>
<td>100,606 29</td>
</tr>
<tr>
<td>1912-1913</td>
<td>5,018,411 85</td>
<td>5,018,411 85</td>
<td>125,400 52</td>
<td>125,400 52</td>
</tr>
<tr>
<td>1913-1914</td>
<td>5,301,507 60</td>
<td>5,301,507 60</td>
<td>132,537 69</td>
<td>132,537 69</td>
</tr>
<tr>
<td>1915-1916</td>
<td>4,458,278 00</td>
<td>4,458,278 00</td>
<td>111,457 19</td>
<td>111,457 19</td>
</tr>
</tbody>
</table>

Total... 121,377,173 47 113,709,145 55 4,573,217 59 4,582,970 09

The duties of the inspecting engineer are as follows: The inspecting and surveying of coal mines on Dominion and school lands, the output of which is subject to the payment of royalty; to keep an accurate record of the underground workings of all such mines; to ascertain, by computation from survey, whether the operators have paid the proper amount of royalty; to ascertain whether the operators are confining their underground operations to the limits of their own lands, and, generally, to inspect and report on any mining matters under investigation by either the Mining Lands and Yukon Branch or by the School Lands Branch.

In order to carry out this work, I have one assistant, who accompanies me in the field; a draftsman, who is employed in the office at Ottawa; and a mining inspector, whose headquarters are at Calgary.

The following is a summary of the work performed during the year in question:

<table>
<thead>
<tr>
<th>Number of mines inspected</th>
<th>245</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot; complete surveys of new mines</td>
<td>9</td>
</tr>
<tr>
<td>&quot; extensions of former surveys in old mines</td>
<td>38</td>
</tr>
<tr>
<td>&quot; reports made and submitted</td>
<td>350</td>
</tr>
<tr>
<td>&quot; plans compiled from field notes</td>
<td>49</td>
</tr>
<tr>
<td>&quot; declarations re output, approximately</td>
<td>150</td>
</tr>
</tbody>
</table>

Numbers of cases were discovered where operators were furnishing incorrect returns. Those mining with proper authority, but making incorrect returns, were charged with what should have been paid originally. Those mining without authority were charged double dues.

During the winter of 1916-17, the field-notes were extended; plans drawn, computations of output made, and the maps and reports, referred to above, submitted.

In addition to this, we have compiled a large map of the province of Alberta, showing the coal lands disposed of by lease and sale, and showing also school lands, Hudson's Bay lands, railway lands, parks and forest reservations. This will be a useful map to coal operators in the West, and to the public generally. There is no doubt that the demand for it will be great, and it is hoped it will be published and ready for distribution at an early date.

O. S. FINNIE,
Inspecting Engineer.


GOLD PRODUCTION.

The amount of gold mined on which royalty was paid was 264,020.47 ounces, value being $3,960,306.95, at $15 per ounce. The royalty paid on the output amounted to $99,007.92. There was a decrease of $497,971.05 from the total output for the year ending March 31, 1916. This is mainly due to the fact that one of the Yukon Gold Company's largest dredges, which had been operating on Eldorado, one of the best gold-producing creeks in the district, reached the limits of the company's holdings on this creek in the fall of 1916, and was not operated during the season of 1916.

The gold produced was chiefly from the dredging and hydraulic operations carried on by the various dredging and hydraulic mining companies in the territory.

The Walker's Fork Gold Dredging Company terminated its operations on the Miller Creek concession in September, 1916, having worked out all the dredgeable gold—the first time any group has worked out the Yukon gold in this manner.
ground contained in the concession. The dredge and other equipment of the company is now being moved and reassembled on the Upper Sixtymile river, where there seems to be sufficient scope for extensive operations.

A new mining company has entered the field in the Upper Stewart River district, and is now engaged in constructing a dredge to be operated on Highet creek.

There are also a large number of individual miners operating and prospecting on the many gold bearing creeks throughout the territory.

A more detailed amount of the operations of the large companies, as well as the individual or smaller concerns may be seen in the report of the Gold Commissioner.

**QUARTZ MINING.**

The Silver King Mining property, situate in the Upper Stewart River district, from which a large quantity of silver ore, averaging over $250 per ton, was taken during the winter of 1915-16, has since been disposed of by the former owner, and the new owners of the property have intimated their intention of doing a large amount of development work on this property, during the present season.

At its last session the Yukon council voted an appropriation for the purchase of a diamond drill. This drill will be used for prospecting the many promising lode properties now being held in the Stewart river and Whitehorse districts. It is to be regretted, however, that owing to a very serious accident, which occurred to the underground workings in the Pueblo copper mine, it is now shut down indefinitely. This mine has been much the largest shipper of ore from the territory while in operation for the past several years. However, it is hoped that this property will soon again be put into good condition and placed on the ore-shipping list.

**PUBLIC WORKS.**

The appropriation provided by the Yukon council for the proper care and maintenance of the road system of the territory and the construction of new roads, where it was found necessary, were properly administered; a large amount of repair work was done and a considerable mileage of new roads was constructed.

**PUBLIC BUILDINGS.**

The necessary repairs and improvements were made to all government buildings in the territory; a large addition was built on to the Whitehorse public school for the accommodation of a high-school class, which was inaugurated at the beginning of the present school year.

The public schools of the territory have been kept at their usual high standard of efficiency. The average attendance at both the Dawson and Whitehorse public schools for the past several years was fully maintained. Assisted schools are provided wherever it is found necessary throughout the territory.

**ADMINISTRATION OF JUSTICE.**

The territory has been remarkably free from crime. The numerical strength of the Royal Northwest Mounted Police has been sufficient for the proper policing of the territory.

I transmit herewith the reports of the Gold Commissioner, the Crown Timber and Land Agent, and the Comptroller.

G. N. WILLIAMS,
Administrator.
SESSIONAL PAPER No. 25

Annual report of the Comptroller's office for the fiscal year ending March 31, 1917:—

Under the appropriation through the Department of the Interior, "Administration of the Yukon Territory," the expenditure amounted to $118,566.54, as shown by the monthly statements and vouchers forwarded to the department. This is a decrease in expenditure of $11,399.33 from fiscal year ending March 31, 1916.

The expenditure on account of the Department of Justice was $14,143.19, as per monthly returns made to that department. This represents a decrease of $3,267.37 from previous year's expenditure.

Under the letter-of-credit account, Department of Public Works, for maintenance and repairs of public buildings in the Yukon territory, the expenditure was $46,093.91, being $12,643.73 less than year ending March 31, 1916. For river improvement work the expenditure amounted to $5,394.82.

The expenditure on account of the Department of Indian Affairs for the relief of sick and destitute Indians in the Yukon territory was $13,482.37, being an increase of $2,975.91 over previous year.

The royalty export tax collected in the territory for the year ended March 31 amounts to $99,007.92; collected at Dawson, $98,555.45; Whitehorse, $452.47; at Forty-mile, nil.

The revenue from free certificates issued to exporters of gold from Alaska was $37.50; collected at Dawson, $33, and Whitehorse, $4.50.

The revenue collected in the Gold Commissioner's office, on account of mining dues, amounted to $48,854.11; and in the Crown Timber and Land Agent's office, on account of crown timber, $13,345.98, and Dominion lands, $5,597.51. The revenue from these various sources was deposited in the Dominion Revenue Trust account, in the Canadian Bank of Commerce, daily, as received, and drafts purchased weekly in favour of the Receiver General and forwarded to the department. Weekly statements of these various sources of revenue, with counterfoils, were checked in this office and transmitted to the department, and monthly summaries were also checked and transmitted.

The revenue in the registrar's office on account of land titles fees, for the year ending March 31, amounted to $796.85, which was deposited daily in the Dominion Revenue Trust account, as received, and drafts purchased weekly in favour of the Receiver General and forwarded to the department. Monthly statements in duplicate were also checked in this office and forwarded to the department.

The revenue from the sale of Yukon Territorial court law stamps amounted to $2,268.25.

G. A. JECKELS,
Comptroller.

Annual report of Gold Commissioner of the Yukon territory for the fiscal year ending March 31, 1917, accompanied by the following statements:—

1. A financial statement showing the receipts in the Gold Commissioner's office during the said year, and also receipts in the offices of the mining recorders for the Duncan and Sixty-mile district.

2. A financial statement of the receipts in the Gold Commissioner's office for the fiscal year, being a recapitulation.

The comparative statement referred to shows a decrease in revenue of $7,186.78, compared with that for the previous year. This decrease is accounted for in the main by conditions brought about by the war. One hundred and eighty-two placer claims and forty-three mineral claims are being held free from cancellation, owing to the owners' absence at the front. This entails a very considerable loss of revenue, and the enlisting of so many prospectors and miners has reduced the number of new locations, with a consequent loss of revenue from this source.

THE YUKON GOLD COMPANY.

_Dredging Operations._—The Yukon Gold Company operated seven dredges during the year and utilized their various hydraulic plants to capacity. Dredge No. 3, referred to in my report of last year as being reassembled at Bear creek, was not ready for operating until near the end of the season. The other dredges operated for 162 days. Particulars as follows:—

<table>
<thead>
<tr>
<th>No.</th>
<th>Make.</th>
<th>Capacity of Buckets</th>
<th>Location.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Bucyrus</td>
<td>5 cubic feet</td>
<td>97A to 102 below on bonanza.</td>
</tr>
<tr>
<td>2</td>
<td>&quot;</td>
<td>3 &quot;</td>
<td>41 to 37 below on bonanza.</td>
</tr>
<tr>
<td>3</td>
<td>&quot;</td>
<td>3 &quot;</td>
<td>46 to 50 below on Hunker.</td>
</tr>
<tr>
<td>4</td>
<td>Marion</td>
<td>7 &quot;</td>
<td>Disc. Bonanza to 1 Eldorado.</td>
</tr>
<tr>
<td>5</td>
<td>Bucyrus</td>
<td>7 &quot;</td>
<td>11 to 9 on Gold Run Creek.</td>
</tr>
<tr>
<td>6</td>
<td>&quot;</td>
<td>7 &quot;</td>
<td>30 to 38 above on bonanza.</td>
</tr>
</tbody>
</table>

The company's hydro-electric plant on the Twelve Mile river furnished ample power to operate the equipment of the company.

The average number of men employed operating these dredges and the steam thawing plants used in connection therewith was 281, and a total yardage of 5,400,000 cubic yards of material was dredged.

_Hydraulic Operations._—Hydraulic operations were carried on at nine different points on the company's property, as follows:—

<table>
<thead>
<tr>
<th>Points</th>
<th>Men</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adams Hill</td>
<td>72</td>
</tr>
<tr>
<td>Bunker Hill</td>
<td></td>
</tr>
<tr>
<td>Monte Cristo Gulch</td>
<td></td>
</tr>
<tr>
<td>American Gulch</td>
<td></td>
</tr>
<tr>
<td>Lovett Gulch</td>
<td></td>
</tr>
<tr>
<td>American Hill</td>
<td></td>
</tr>
<tr>
<td>Fox Gulch</td>
<td></td>
</tr>
<tr>
<td>Magnet Gulch</td>
<td></td>
</tr>
</tbody>
</table>

An average of 72 men were employed, and 2,200,000 cubic yards of material removed.

_Miscellaneous._—In addition to the men directly employed in the dredging and hydraulic operations, a considerable force was employed in prospecting, in ditch maintenance, and in their power plant and machine shops.

The average number of men employed by this company during the open season was as follows:—

<table>
<thead>
<tr>
<th>Category</th>
<th>Men</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydraulic mines (April to October)</td>
<td>72</td>
</tr>
<tr>
<td>Dredges and thawing (April to October)</td>
<td>281</td>
</tr>
<tr>
<td>Ditch (April to October)</td>
<td>37</td>
</tr>
<tr>
<td>Otherwise employed (April to October)</td>
<td>37</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>477</strong></td>
</tr>
</tbody>
</table>
Dredging Operations.—This company operated their four dredges during the season, and up to January 1, 1917, had dredged 5,950,400 cubic yards of material. Particulars regarding these operations are as follows:—

<table>
<thead>
<tr>
<th>No.</th>
<th>Capacity of Buckets</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canadian No. 1</td>
<td>7½ cubic feet</td>
<td>Upper Hunker Creek.</td>
</tr>
<tr>
<td>&quot; No. 2</td>
<td>17 &quot;</td>
<td>In the Klondike Valley on Hydraulic Mining Lease 18.</td>
</tr>
<tr>
<td>&quot; No. 3</td>
<td>17 &quot;</td>
<td>In the Klondike Valley on Hydraulic Mining Lease 18.</td>
</tr>
<tr>
<td>&quot; No. 4</td>
<td>17 &quot;</td>
<td>In the Klondike Valley on Hydraulic Mining Lease 18.</td>
</tr>
<tr>
<td>Canadian No. 1 operated 235 days.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&quot; No. 2</td>
<td>318 &quot;</td>
<td></td>
</tr>
<tr>
<td>&quot; No. 3</td>
<td>188 &quot;</td>
<td></td>
</tr>
<tr>
<td>&quot; No. 4</td>
<td>197 &quot;</td>
<td></td>
</tr>
</tbody>
</table>

In my report of last year reference was made to the fact that dredge Canadian No. 4 was operated until January 25, breaking all previous records for winter dredging in the Yukon. This year this company has kept at least one dredge in operation throughout the entire winter. Dredge Canadian No. 2 operated continuously until March 26, on which date the dredge was closed down to enable the necessary yearly repairs to be made. Simultaneous with the closing down of this dredge, Canadian No. 4, having been refitted, resumed operations. This accomplishment is all the more remarkable when the fact is taken into consideration that the past winter was one of exceptional severity.

All of the dredges operated by this company are electrically driven, the power being furnished by the Canadian Klondike Power Company's hydro-electric plant at the north fork of the Klondike river. This plant, which is under the same management as the Canadian Klondike Mining Company, Limited, was in continuous operation throughout the winter.

A large reservoir is being constructed at a point about three miles above the intake of the present ditch on the north fork. This reservoir is for the purpose of conserving the surplus waters of the north fork, so that the same can be utilized when the water supply is low in that stream. The reservoir when completed will have a capacity sufficient to operate the entire hydro-electric plant for a period of sixty days. $125,000 was spent on these betterments during 1916, and an expenditure of a like sum will be required to complete the undertaking.

Hydraulic Operations.—The pumping plant installed last year near the mouth of Hunker creek was operated throughout the season, 163,060 cubic yards of gravel having been handled. The supply of water for these pumping operations is obtained from the Klondike river, being conducted to the pumping plant through four miles of ditch. The discharge of the pump is into a ditch on the left limit of Hunker creek, which ditch in turn conveys the water to the point of hydraulic operations on Last Chance creek, about four miles distant. The pumping equipment consists of a 4-stage Kingsford centrifugal pump, direct connected to a 1,200 horse-power rotor-wound motor pumping against a 600-foot hydraulic head.

Miscellaneous.—In addition to the men directly employed in the dredging and hydraulic operations, a considerable force was employed in ditch maintenance, prospecting, wood-cutting and hauling, and in the machine shop. An average of 300 men was employed by this company during the open season.
This corporation, through its holding companies, the Dominion Mining Company, the Big Creek Mining Company, and the Calder Mining Company, controls the greater portion of the Dominion, Sulphur, and Quartz creeks.

No gold was recovered during the year, the operations being confined entirely to ground sluicing. The Dominion Mining Company operated on Upper Dominion, removing 121,413 cubic yards; the Big Creek Mining Company operated on Lower Dominion, removing 267,551 cubic yards; and the Calder Mining Company on Quartz creek, removing 267,351 cubic yards.

As stated in my report of last year, it is unlikely that extensive operations will be carried on by this corporation until the war is ended.

NISLING MINING DEVELOPMENT AND MERCANTILE COMPANY.

This company has acquired by purchase seventy placer claims on Upper Nansen creek and tributaries. During the past year they have incurred a heavy expenditure in transporting hydraulic pipe and other hydraulic equipment to the property, and during the coming season anticipate completing their system of ditches and the installation of their hydraulic equipment.

INDIVIDUAL OPERATIONS.

Although the greater portion of the creeks and tributaries of the Klondike and Indian rivers are now controlled by the companies referred to, considerable individual mining is still carried on on these creeks.

During the past year Sulphur creek had nineteen steam thawing and hoisting plants in operation; Hunker and tributaries, ten such plants; and five outfits operated by open-cut method, and nine outfits carried on hydraulic operations.

Dominion creek had five individual outfits working; Quartz creek and tributaries, fifteen; Black Hills, eight; Scroggie and tributaries, fifteen; Barker creek, three; Thistle creek, seven; Kirkman creek, eleven; All Gold, three; Gold Run Creek, two; Bonanza creek and tributaries, twenty-five; Rude creek, eight; Henderson creek, eight; Clear creek, five; and Ten Mile, seven.

In addition to these actual mining operations, considerable prospecting was being carried on on the creeks referred to and on other outlying creeks of the district.

LODE MINING, DAWSON DISTRICT.

Of the large number of mineral claims in good standing in this district, only on a very few is any work being done, except the necessary representation work to keep the properties in good standing.

Mr. James Lloyd continued his tunnel on the "Red Hill" mineral claim, situated on Gold Run creek, to a length of 170 feet, and reports himself well satisfied with his prospects.

The Bear Creek Mining Company, during the past summer, had a mill shipped to Dawson, with the intention of installing the same on their property at Bear Creek, but owing to some hitch in the financial arrangements, have not yet had the mill set up on the property.

Dr. J. O. Lachapelle and associates have done considerable development on their copper properties on Williams creek, and have now, on the bank of the Yukon, a few tons of ore for shipment on the opening of navigation.
PLACER MINING, DUNCAN DISTRICT.

Placer mining operations in this district were on about the same scale as in 1916. Dublin, Haggart, Hightet, and Duncan creeks continued to be operated profitably. Further development on Gull creek, in the Mayo Lake section of this district, has brought this creek into the producing class.

The Klascio Dredging Company, an American company, incorporated under the laws of the state of Washington, has secured a working option on the greater portion of Hightet creek, and proposes installing a dredge there during 1917. The machinery for this dredge was landed at Mayo before the close of navigation last year, was freighted to Hightet creek during the past winter, and the dredge is expected to be in operation during the coming summer. If this dredge is a success, it will probably mean the installation of other dredges in this district.

The Dublin Creek concession, which was thrown open for placer entry on the 5th February last, was practically all located. A discovery of scheelite on this creek has stimulated activity in prospecting.

LODE MINING, DUNCAN DISTRICT.

Considerable development work was performed during the year on the different mineral claims in this district, particularly on the Stewart and Catto group of claims on Dublin gulch, and on the Silver Lead properties on Galena creek.

One thousand one hundred and fifty-four tons of very rich ore was mined and shipped from the "Silver King" mineral claim during the past year, and although no work was performed on this property during the past winter, the owners state that they will continue operations during the present summer.

PLACER MINING, SIXTMILE DISTRICT.

This district continues to be a steady producer: 170 placer claims are in good standing and about 100 men were engaged during the year in individual mining operations in the district.

The Milvain dredge, which for several years has been operating on Miller Creek concession, completed the work on that leasehold, and is now being reassembled on placer claims owned by the North American Transportation and Trading Company, situated on the Sixymile, between the mouths of Big Gold and Miller creeks.

G. P. MACKENZIE,
Gold Commissioner.

Report of Crown Timber and Land Agent for the Dawson district, for the fiscal year ending March 31, 1917, accompanied by the following statements:

1. Statement showing the revenue collected in the timber branch of this office from royalty on wood and timber cut on timber berths, dues paid in connection with timber and wood permits, seizure dues on wood and timber cut in trespass, and hay permits.

2. Statement of revenue collected in the Dominion Lands branch of this office, on land rentals, land sales, office fees, rental coal lands, and homestead entries.
These statements show a net increase in revenue of $477,16 in the Crown Lands branch, and a net increase of $4,118.76 in the Crown Timber branch, compared with the revenue as shown by the statement for the fiscal year ending March 31, 1916. The increase of revenue in the timber branch is accounted for chiefly in the amount of wood cut for the Dawson market. Owing to transportation difficulties, the supply of coal brought to Dawson was not sufficient to supply the market, and as a consequence more wood was used for fuel purposes.

WOOD AND TIMBER.

One hundred and fifty-eight permits were issued during the year, under the authority of which 398,502 feet board measure lumber, 20,201 1/4 cords of wood, and 2,550 lineal feet telephone poles were cut. 1,969 1/2 cords of wood and 79,408 feet board measure lumber were cut under license and sold. Seizure dues were paid on 728 1/2 cords of wood.

Four saw-mills operated in the district during the year. The Yukon Saw Mill Company operated their mill at Dawson, manufacturing all the native lumber required to supply the Dawson market and nearby creeks. This company has on hand a well-assorted stock of both native and British Columbia lumber. The mill owned by the Canadian Klondike Mining Company, Limited, situated on the north fork of the Klondike river, manufactured all the lumber required by that company in their extensive mining operations. The mills owned and operated by Messrs. C. L. Snell and J. B. Lefebvre, at Mayo, manufactured sufficient lumber to supply the requirements of the Upper Stewart district.

Frequent inspections of the various wood and timber camps were made throughout the year. No forest fires of any magnitude occurred during the year.

COAL.

The Five Fingers Coal Company operated their mine at Tantalus during the summer, and shipped to Dawson all the coal the Transportation Company would handle. Owing to a strike of the Transportation Company's dock employees they were unable to furnish transportation to the coal company, as a consequence of which many of the patrons of the coal company in Dawson, being unable to secure coal, were forced to substitute wood in their various heating plants.

No coal was mined on the property of the Northern Light Power and Coal Company, Limited, at Coal Creek.

AGRICULTURE.

Five homestead entries were granted during the year and a larger acreage was under cultivation than in any previous year. The crops were excellent both in quantity and quality. The growth of the various grains, which were cut mostly for fodder, was very heavy.

The potato crop was good and each year the quality of the potatoes appears to improve. About 85 per cent of the potatoes used in the territory are grown locally, and practically all the other vegetables used.

Interesting experiments in growing different grains are being carried on by the farmers in the vicinity of Dawson. On the farm of James R. Farr, at the mouth of Swede creek, wheat sown on the 22nd April and harvested on the 17th August was fully matured, was of excellent quality, and gave a phenomenal yield.

G. P. MACKENZIE,

Crown Timber and Land Agent.
### CROWN LAND BRANCH.

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|        | 4,771 21      | 724 30      | 0 12         | 0 40             | 0 50       | 5,597 51 |

Total Receipts 1915-1916 ............. $ 5,120 35
Total Receipts 1916-1917 ............. $ 5,597 51
Net Increase 1916-1917 ............. $ 477 16

### CROWN TIMBER BRANCH.

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|        | 1,264 41 | 11,353 57       | 644 50        | 83 50       | 13,345 98 |

Total Receipts 1915-1916 ............. $ 3,227 22
Total Receipts 1916-1917 ............. $ 13,345 98
Net Increase 1916-1917 ............. $ 4,118 76
## Recapitulation

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<th>Reloc Grant</th>
<th>Reg. Doc. Placer</th>
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<td>$866.03</td>
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<th>Cert. of Improv</th>
<th>Reg. Doc. Quartz</th>
<th>Lieu of Astat.</th>
<th>Acre. and Crown Grant</th>
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<td>$422.08</td>
<td>$26.50</td>
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## Financial Statement


### Receipts

#### Placer
- To Grants: $600.00
- Renewals: $33,325.00
- Relocations: $1,310.00
- Registered documents: $2,697.00
- Abstracts: $13.50

#### Quartz
- To Grants: $270.00
- Certificates of work: $920.00
- Certificate of partnership: $17.50
- Improvements: $5.00
- Registered documents: $150.00
- Lieu of assessment: $200.00
- Acreage and Crown grants: $98.37

#### Sundry Accounts
- To Water rights: $270.00
- Hydraulics: $1,963.50
- Dredging: $866.03

#### Duncan
- To Placer grants: $560.00
  - Renewals: $1,710.00
  - Relocations: $340.00
  - Registered documents: $127.00
- Quartz records: $345.00
- Certificate of work: $307.50
- Certificate of partnership: $17.50
- Improvements: $20.00
- Registered documents: $195.00
- Abstracts: $26.50
- Acreage and Crown grants: $323.71

Total: $3,972.21
Sixtymile—
To Placer grants. $70.00
To Placer renewals. 1,556.00
To Placer relocations. 106.00
To Placer registered documents. 116.00
$2,136.00
$48,854.11

DISBURSEMENTS.
To Comptroller. $48,854.11
$48,854.11
$48,854.11

COMPARATIVE STATEMENT—Returns, Gold Commissioner's Office, Dawson, Y.T.

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REPORT OF THE WHITEHORSE DOMINION LANDS AND MINING DISTRICT.

This is intended to cover all the operations dealt with by this office in connection with mining, Dominion lands and Crown timber, and also the operations of the Kluane and Conrad mining offices, up to the first day of January last. Both these offices were closed at that time, and their records turned over to the Whitehorse office, where their work will be carried forward henceforth. I have little doubt that this can be done with much less inconvenience to the miners of Kluane and Conrad than might have been expected. Two most suitable agents have been appointed, Mr. A. D. MacLennan, the former recorder, for Kluane, and Mr. Matthew Watson, for Conrad, and I feel assured that with their assistance the task of carrying forward the work of their former districts will be continued with a minimum of dissatisfaction.
LODE MINING.

The year started out with most bright prospects in regard to the development of this the most important part of the Whitehorse district. Six of the most important of the copper properties in the Whitehorse copper belt were either in full operation or making preparations to that end. These were the "Pueblo," "Grafter," "War Eagle," "Copper King," "Anaconda, No. 2," and "Carlisle." All of these were operated pretty steadily throughout the year, and large and valuable shipments of ore made. Unfortunately a most serious accident to the largest of these, the "Pueblo," occurred on March 21 last, when a slide occurred, involving practically the whole workings between the 200- and the 400-foot levels, with the exception of the main shaft. Nine men were engulfed by this slide, but after most heroic efforts on the part of their fellows, three of these were rescued, but the case of the others was hopeless and all efforts to reach them had to be abandoned, as at this time it was found that the main shaft was becoming unsafe. Accordingly, all the men were called out and the mine shut down. The machinery and tools, including the Government diamond drill, were thus lost. Mr. Greenough, the manager, estimates this loss at close to $40,000. The mine is now fully flooded and there is no hope that it can again be operated unless a new shaft be sunk.

The quantity of copper ore shipped during the year was in excess of 61,000 tons, and the smelter returns from this, after deducting freight charges and smelter treatment, are approximately $668,000. The details as to this are as follows:

"Pueblo," 51,554 tons; net value as above...... $515,540.00
"Grafter," 6,500 tons; net value as above...... 80,000.00
"War Eagle," 1,931 tons; net value as above...... 38,926.00
"Copper King," 741 tons; net value as above...... 23,419.00
"Anaconda," 369 tons; net value as above...... 10,000.00

In addition to this fully 500 tons of ore have been mined on the "Venus" property, and a few tons on a couple of adjoining gold, silver and lead properties, situated on Windy arm of lake Tagish. The average net return from this, as shown by a return from 150 tons shipped, appears to be about $42 per ton. This "Venus" property is being operated by the Lakinaw and Tagish mines, whose head office is in Seattle, Washington. There is a concentrating mill attached to this property. It was installed by Col. J. H. Conrad some years since, but was found unsuitable in many respects at that time; too large a percentage of the values in the ore were lost in treatment. This mill is now being remodelled in line with more recent knowledge, and it is hoped will prove all the success that may be desired.

The placer situation of the district has remained pretty much as before, and the production has, if anything, somewhat declined. It was hoped a year ago that Livingstone creek would have developed new sources of value, but thus far such has not proved to be the case. However, the miners have absolute faith in their camp and feel assured that its output will materially increase at an early day; and the same may be said of Klune. Both these camps are sadly hampered by lack of capital and to a certain extent, too, by labour shortage, which is aggravated by the fact that not a few of the younger men have volunteered for the European war.

There has been nothing unusual in the timber and land situation during the year. Seven permits to cut cordwood and one for sawn timber were issued, and dues collected on 3,220 cords of wood.

The fox farms are maintained about as last year, but I believe the prospects have brightened a good deal this spring. It is difficult to get details as to increases; many of the owners are not aware as to these themselves. But the general opinion appears to be that, both in numbers and quality, the additions to the stock have been highly encouraging.

R. C. MILLER, Assistant Gold Commissioner.
REPORT OF THE TIMBER AND GRAZING LANDS BRANCH.

The following is a report for the fiscal year ending March 31, 1917:

The revenue derived from timber, grazing and hay lands for the year amounted to $534,381.75, which is an increase of $40,410.63 over the preceding year.

At the conclusion of this report will be found statement A, which sets out the total revenue of the branch from its various sources for the year; statement B, showing the revenue from timber by agencies; statement C, other sources of revenue by agencies; and statement D, the office work performed.

Statements from the Crown Timber agents at Calgary, Edmonton, Prince Albert, Winnipeg, Kamloops, Revelstoke and New Westminster, showing the revenue collected on Dominion lands within their respective agencies and other information, are appended hereto.

The report of the Inspector of Crown Timber agencies, whose headquarters are at Winnipeg, and the reports of the inspectors of branches located at Calgary, Maple Creek, Moosejaw, Minnedosa and Prince Albert, are also attached.

The revenue derived from timber and grazing lands, received at the Crown Timber agencies above mentioned, also the number of mills operated on timber berths held under license, and the number of portable saw-mills in operation, may be summarized as follows:

<table>
<thead>
<tr>
<th>Agency</th>
<th>Total Revenue</th>
<th>No. of mills operating under license</th>
<th>No. of mills operating under permit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calgary</td>
<td>35,253 85</td>
<td>15</td>
<td>16</td>
</tr>
<tr>
<td>Edmonton</td>
<td>93,311 74</td>
<td>39</td>
<td>75</td>
</tr>
<tr>
<td>Prince Albert</td>
<td>67,816 99</td>
<td>23</td>
<td>35</td>
</tr>
<tr>
<td>Winnipeg</td>
<td>64,469 60</td>
<td>24</td>
<td>32</td>
</tr>
<tr>
<td>Kamloops</td>
<td>20,883 51</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>New Westminster</td>
<td>92,768 25</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>Revelstoke</td>
<td>31,576 07</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

The returns of operations received show the following quantities of building timber to have been manufactured and sold under government license during the year in the timber agencies above mentioned:

<table>
<thead>
<tr>
<th></th>
<th>Manufactured</th>
<th>Sold</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sawn lumber, feet B.M.</td>
<td>277,189,607</td>
<td>250,460,536</td>
</tr>
<tr>
<td>Shingle bolts</td>
<td>39,711</td>
<td>39,499</td>
</tr>
<tr>
<td>Railway ties</td>
<td>133,650</td>
<td>213,708</td>
</tr>
<tr>
<td>Laths</td>
<td>46,053,744</td>
<td>42,435,884</td>
</tr>
<tr>
<td>Lineal feet piling</td>
<td>38,940</td>
<td>47,160</td>
</tr>
<tr>
<td>Telegraph poles</td>
<td>2,365</td>
<td>2,365</td>
</tr>
<tr>
<td>Cordwood</td>
<td>5,351</td>
<td>3,218</td>
</tr>
<tr>
<td>Fence posts</td>
<td>783,552</td>
<td></td>
</tr>
</tbody>
</table>
The following material was manufactured on permit berths and portable saw-mill berths, and sold:—

<table>
<thead>
<tr>
<th></th>
<th>Manufactured</th>
<th>Sold</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sawn lumber, feet B.M.</td>
<td>13,390,435</td>
<td>13,936,771</td>
</tr>
<tr>
<td>Cordwood</td>
<td>7,677</td>
<td>10,785</td>
</tr>
<tr>
<td>Shingles</td>
<td>206,000</td>
<td>879,000</td>
</tr>
<tr>
<td>Railway ties</td>
<td>4,698</td>
<td>4,698</td>
</tr>
<tr>
<td>Fence posts</td>
<td>2,000</td>
<td>2,700</td>
</tr>
</tbody>
</table>

The quantity of lumber manufactured and sold within each agency will be found in the agents' reports appended hereto.

The area of timbered lands held under license and permit in the provinces of Manitoba, Alberta and Saskatchewan, and in the Railway Belt in the province of British Columbia, is as follows:—

<table>
<thead>
<tr>
<th>Agency</th>
<th>Under license</th>
<th>Under permit</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Square miles</td>
<td>Square miles</td>
</tr>
<tr>
<td>Manitoba</td>
<td>1,217.34</td>
<td>507.17</td>
</tr>
<tr>
<td>Alberta</td>
<td>2,019.25</td>
<td>34.88</td>
</tr>
<tr>
<td>Saskatchewan</td>
<td>1,858.49</td>
<td>112.89</td>
</tr>
<tr>
<td>British Columbia</td>
<td>1,724.82</td>
<td>4.51</td>
</tr>
<tr>
<td>Totals</td>
<td>6,819.90</td>
<td>719.40</td>
</tr>
</tbody>
</table>

During the year 116 timber berths were granted, of which two were license berths, 51 portable saw-mill and 63 cordwood berths.

Grazing Lands.

There were in force March 31, 1917, 4,060 grazing leases, covering a total area of 5,689,464 acres, in the provinces of Manitoba, Alberta, Saskatchewan and British Columbia, as follows:—

<table>
<thead>
<tr>
<th>Agency</th>
<th>Acres</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manitoba</td>
<td>64,539</td>
</tr>
<tr>
<td>Alberta</td>
<td>2,569,527</td>
</tr>
<tr>
<td>Saskatchewan</td>
<td>2,734,368</td>
</tr>
<tr>
<td>British Columbia</td>
<td>391,170</td>
</tr>
<tr>
<td>Total</td>
<td>5,689,464</td>
</tr>
</tbody>
</table>

This is an increase over the previous year of 474,397 acres. During the year there were 1,008 new leases issued.
The following is a partial statement of the office work performed at Ottawa during the fiscal year:

Letters received and recorded... 28,991
" sent... 49,773
Plans and sketches prepared... 604
Timber berths applied for... 212
Return of survey of timber berths examined and re-examined... 5
Applications for grazing lands... 1,524
" hay lands... 15
Number of township plans on which timber berths, ranches and other reserves were plotted for agents... 548
Other township plans examined for same purpose, which were clear... 298
Timber and grazing assignments registered... 272
" ledger accounts posted... 914
Fire-guarding accounts posted... 734
Grazing accounts posted... 4,060
Seizures checked and entered... 257
Timber permits checked and entered... 6,089
Hay permits checked and entered... 3,800
Grazing leases issued in triplicate... 1,010
License berths granted... 657
Portable saw-mill berths granted... 51
Cordwood berths granted... 63
Cash receipts issued in quadruplicate... 2,252

B. L. YORK, Controller.

STATEMENT "A."—Statement of Revenue for Fiscal Year 1916-17.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>1916</td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>April</td>
<td>49,182</td>
<td>8,846 72</td>
<td>32 80</td>
<td>6 00</td>
<td>1,704 23</td>
<td>90 00</td>
<td>59,922 45</td>
</tr>
<tr>
<td>May</td>
<td>32,826 72</td>
<td>10,124 15</td>
<td>3,867 25</td>
<td>12 00</td>
<td>5,917 69</td>
<td>69 80</td>
<td>52,827 61</td>
</tr>
<tr>
<td>June</td>
<td>23,618 97</td>
<td>11,870 95</td>
<td>4,196 50</td>
<td>10 30</td>
<td>6,257 82</td>
<td>60 00</td>
<td>43,304 24</td>
</tr>
<tr>
<td>July</td>
<td>47,522 40</td>
<td>8,987 47</td>
<td>1,707 23</td>
<td>57 10</td>
<td>907 55</td>
<td>256 00</td>
<td>55,557 77</td>
</tr>
<tr>
<td>August</td>
<td>45,401 36</td>
<td>8,823 28</td>
<td>582 70</td>
<td>19 00</td>
<td>2,092 78</td>
<td>150 00</td>
<td>55,699 12</td>
</tr>
<tr>
<td>September</td>
<td>26,344 20</td>
<td>6,207 65</td>
<td>86 95</td>
<td>28 00</td>
<td>188 48</td>
<td>350 00</td>
<td>33,205 28</td>
</tr>
<tr>
<td>October</td>
<td>32,739 51</td>
<td>11,286 99</td>
<td>16 40</td>
<td>4 00</td>
<td>436 88</td>
<td>40 00</td>
<td>41,523 78</td>
</tr>
<tr>
<td>November</td>
<td>14,147 76</td>
<td>10,057 66</td>
<td>53 55</td>
<td>15 00</td>
<td>31 26</td>
<td>30 00</td>
<td>24,305 23</td>
</tr>
<tr>
<td>December</td>
<td>17,985 29</td>
<td>12,540 06</td>
<td>15 95</td>
<td>43 00</td>
<td>42 45</td>
<td>21 00</td>
<td>30,647 73</td>
</tr>
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<tr>
<td>1917</td>
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<td></td>
</tr>
<tr>
<td>January</td>
<td>40,748 60</td>
<td>11,483 11</td>
<td>8 70</td>
<td>12 70</td>
<td>84 97</td>
<td>209 50</td>
<td>52,547 58</td>
</tr>
<tr>
<td>February</td>
<td>15,828 99</td>
<td>7,304 26</td>
<td>20 75</td>
<td>8 20</td>
<td>294 72</td>
<td>65 00</td>
<td>22,522 02</td>
</tr>
<tr>
<td>March</td>
<td>21,255 62</td>
<td>13,430 07</td>
<td>9 80</td>
<td>6 00</td>
<td>2 43</td>
<td>155 00</td>
<td>34,868 92</td>
</tr>
<tr>
<td></td>
<td>385,612 02</td>
<td>120,992 37</td>
<td>7,958 60</td>
<td>211 10</td>
<td>18,051 36</td>
<td>1,556 30</td>
<td>534,381 75</td>
</tr>
</tbody>
</table>

25—i—5
### Statement of Revenue from Timber for Fiscal Year 1916-17

<table>
<thead>
<tr>
<th>Agency</th>
<th>Bonus under license</th>
<th>Rental under license</th>
<th>Royalty under license</th>
<th>Permit fees, dues and rental</th>
<th>Seizures</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battleford</td>
<td>$1,745 50</td>
<td>$9,413 35</td>
<td>$5,434 14</td>
<td>$2,908 76</td>
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<td>$19,501 54</td>
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<tr>
<td>Calgary</td>
<td>$2,738 14</td>
<td>$14 90</td>
<td></td>
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<td>$2,858 04</td>
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<tr>
<td>Dauphin</td>
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<tr>
<td>Head Office</td>
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<tr>
<td>Edmonton</td>
<td>$8,454 67</td>
<td>$2,666 89</td>
<td>$19,956 90</td>
<td>$40,514 78</td>
<td>$11,175 20</td>
<td>$82,728 50</td>
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<tr>
<td>Grande Prairie</td>
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<td>$879 50</td>
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<td>High Prairie</td>
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<td>$105 81</td>
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<tr>
<td>Kamloops</td>
<td>$2,515 83</td>
<td>$5,574 90</td>
<td>$2,663 40</td>
<td>$13 30</td>
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<tr>
<td>Lethbridge</td>
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<td>$23 87</td>
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<td>$26 25</td>
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<tr>
<td>Moose Jaw</td>
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<td>$5 00</td>
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</tr>
<tr>
<td>New Westminster</td>
<td>$8,107 56</td>
<td>$13,006 64</td>
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<td>$18,464 40</td>
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<td>The Pas</td>
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<td>$2 25</td>
<td>$26 25</td>
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<td>Peace River</td>
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<td>$904 40</td>
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<td>$45,584 63</td>
<td>$7,564 96</td>
<td>$4,774 09</td>
<td>$65,246 74</td>
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<tr>
<td>Red Deer</td>
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<td>$460 88</td>
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<tr>
<td>Weyburn</td>
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</tr>
<tr>
<td>Winnipeg</td>
<td>$7,264 30</td>
<td>$19,600 42</td>
<td>$24,591 49</td>
<td>$11,026 00</td>
<td>$61,792 26</td>
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</tr>
<tr>
<td>Yorkton</td>
<td>$178 90</td>
<td>$8 45</td>
<td>$140 81</td>
<td>$328 16</td>
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</tr>
<tr>
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<td></td>
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</tr>
</tbody>
</table>

**Totals** | $19,368 22 | $44,410 01 | $178,140 06 | $104,023 76 | $39,669 97 | $385,612 02 |
### Sessional Paper No. 25

**Statement "C."—Statement of Revenue from Grazing, Hay, Registration Fees, Fire-guarding Dues, and Improvements, for Fiscal Year 1916-17.**

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Referring to schedules B, C, and D in regard to the timber business of this district, you will note that operations increased over last season, while the prices obtained for lumber have been higher than for a number of years past.

Shipments were somewhat curtailed, however, owing to car shortage, while bush operations were handicapped by the scarcity of labour and high wages prevailing.

There is no reason to anticipate lower prices during the coming season, while, as the stock of lumber and logs on hand is lower than last year, there is some likelihood of a shortage of native lumber if the facilities for shipping same are at all improved.

W. E. TALBOT,
**Crown Timber Agent.**
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<thead>
<tr>
<th>Month</th>
<th>Ground Rent under License</th>
<th>Royalty Dues under License</th>
<th>Permit Fees, Dues and Rental</th>
<th>Total Seizures</th>
<th>Grazing Land Rental</th>
<th>Hay Permits, Fees and Dues</th>
<th>Fireguarding Fees</th>
<th>Registration Fees</th>
<th>Total</th>
<th>Remarks</th>
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SCHEDULE B.—Showing the Saw-Mills Operating within the Calgary Agency, under Government License, for the fiscal year ending March 31, 1917.

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<th>Location of Mill</th>
<th>Berth No.</th>
<th>Kind of Power</th>
<th>Horse Power</th>
<th>Capacity per 10 Hours</th>
<th>Species of Timber Cut</th>
<th>Manufactured</th>
<th>Sold</th>
<th>On Hand</th>
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<td>Calgary</td>
<td>468 and 318 H.</td>
<td>Steam and</td>
<td>35</td>
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<td>Spruce and Pine</td>
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<td>V. W. De Mille</td>
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<td>1280</td>
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<td>1,596,346</td>
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<td>741,148</td>
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<td>Hon. Peter McLaren</td>
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<td>250</td>
<td>40,000</td>
<td></td>
<td>2,558,767</td>
<td>4,413,575</td>
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<td>15,000</td>
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<td>Mill-Owner</td>
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<td>Laths.</td>
<td>Number of Returns Made</td>
<td>Date of Last Return</td>
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<td></td>
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<tr>
<td></td>
<td></td>
<td>Logs Cut.</td>
<td>Logs Manufactured</td>
<td>Logs on Hand</td>
<td>Manufactured</td>
<td>Sold</td>
<td>On Hand</td>
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<td>Sold</td>
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<td>39,635</td>
<td>72,877</td>
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<td>381,350</td>
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<td>381,400</td>
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<td>41,489</td>
<td>80,015</td>
<td>57-7</td>
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<td>F. R. Peenefather, Chas. Grant</td>
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<td>99,606</td>
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<td>Carter &amp; McEwen</td>
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<td>18,855</td>
<td>54-0</td>
<td>49,950</td>
<td>13,286</td>
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<td>34,667</td>
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<td>V. W. De Mille</td>
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<td>10,296</td>
<td>4,014</td>
<td>37-84</td>
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<td></td>
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<td>145,800</td>
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<td>W. C. MacDougall</td>
<td>99,773</td>
<td>62,217</td>
<td>121,804</td>
<td>49-35</td>
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<td></td>
<td>143,800</td>
<td>145,800</td>
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<td>276,550</td>
<td>393,807</td>
<td>49,950</td>
<td>13,286</td>
<td>36,670</td>
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<td>908,550</td>
<td>69,700</td>
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<tr>
<td>No.</td>
<td>Mill owner</td>
<td>Location of mill</td>
<td>Species of timber cut</td>
<td>Lumber</td>
<td>Log Count</td>
<td>Average per log Ft. B.M.</td>
<td>No. of returns made</td>
<td>Date of last return</td>
<td>Remarks</td>
<td></td>
</tr>
<tr>
<td>-----</td>
<td>---------------------</td>
<td>------------------</td>
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<td>---------------------</td>
<td>---------------------</td>
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</tr>
<tr>
<td>2</td>
<td>J. T. Johannesen &amp; Sons</td>
<td>2,101</td>
<td>Pine</td>
<td>133,886</td>
<td>68,974</td>
<td>147,548</td>
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<tr>
<td>3</td>
<td>Cha. Stabbs</td>
<td>2,414</td>
<td>Fir</td>
<td>71,640</td>
<td>130,863</td>
<td>127,812</td>
<td>Nil</td>
<td>Mar. 31, '17</td>
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<td></td>
</tr>
<tr>
<td>4</td>
<td>W. T. Hagen</td>
<td>1,386</td>
<td>Spr. &amp; Pine</td>
<td>Nil</td>
<td>8,006</td>
<td>58,007</td>
<td>Nil</td>
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<tr>
<td>5</td>
<td>J. P. McPherson</td>
<td>1,297</td>
<td></td>
<td>40,414</td>
<td>48,772</td>
<td>8,625</td>
<td>Nil</td>
<td>Mar. 31, '17</td>
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<tr>
<td>6</td>
<td>Edward Mason</td>
<td>31</td>
<td></td>
<td>1,47,960</td>
<td>1,532,471</td>
<td>9,261</td>
<td>34,878</td>
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<tr>
<td>7</td>
<td>Pelletier Lumber Co.</td>
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<td>349,323</td>
<td>88,713</td>
<td>88,079</td>
<td>Mar. 31, '17</td>
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</tr>
<tr>
<td>8</td>
<td>Brazan Collieries, Ltd.</td>
<td>Nordeg.</td>
<td></td>
<td>16</td>
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</tr>
<tr>
<td>9</td>
<td>Napoleon Lacoste</td>
<td>On Berth.</td>
<td></td>
<td>Nil</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>10</td>
<td>E. R. Baker</td>
<td>2,295</td>
<td></td>
<td>140,688</td>
<td>140,688</td>
<td>1,671</td>
<td>2,241</td>
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<tr>
<td>12</td>
<td>H. A. Hansen</td>
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<td>15,500</td>
<td>Nil</td>
<td>1,076</td>
<td>Mar. 31, '17</td>
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<td>Geo. Cummings</td>
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<td>86,515</td>
<td>56,515</td>
<td>Nil</td>
<td>849</td>
<td>Mar. 31, '17</td>
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<tr>
<td>14</td>
<td>Finlay McLaren</td>
<td>40</td>
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<td>Nil</td>
<td>Nil</td>
<td>4,323</td>
<td>4,323</td>
<td>Mar. 31, '17</td>
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<tr>
<td>15</td>
<td>C. O. Johanneson</td>
<td>2,346</td>
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<td>Nil</td>
<td>Nil</td>
<td>4,629</td>
<td>4,629</td>
<td>Mar. 31, '17</td>
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<td>16</td>
<td>J. A. Burt</td>
<td>48</td>
<td></td>
<td>93,959</td>
<td>32,276</td>
<td>61,689</td>
<td>946</td>
<td>Mar. 31, '17</td>
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</tbody>
</table>

Total: 2,481,875 sold, 3,088,439 on hand, 534,132 logs cut, 166,694 logs manufactured, 171,628 logs on hand, 69,627 average per log Ft. B.M.
**SESSIONAL PAPER No. 25**

**SCHEDULE D.—General Office Return of the Crown Timber Agency, Calgary, for fiscal year ending March 31, 1917.**

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Number, etc.</th>
<th>As compared with previous year increase.</th>
<th>As compared with previous year decrease.</th>
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<tr>
<td>Letters received</td>
<td>69,630</td>
<td>41,635</td>
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<td>Letters written</td>
<td>63,135</td>
<td>29,198</td>
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<td>Permits subject to dues issued</td>
<td>82</td>
<td>13</td>
<td></td>
</tr>
<tr>
<td>Free permits issued</td>
<td>161</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Seizures made</td>
<td>7</td>
<td>17</td>
<td></td>
</tr>
<tr>
<td>Mill returns received and verified</td>
<td>231</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Mills operating under Government license</td>
<td>14</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>&quot; Government permits</td>
<td>16</td>
<td>Nil</td>
<td>Nil</td>
</tr>
<tr>
<td>Quantity of lumber manufactured, under license</td>
<td>13,065,409</td>
<td>3,822,870</td>
<td>2,545,196</td>
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<tr>
<td>&quot; sold</td>
<td>17,141,651</td>
<td>3,306,020</td>
<td>214</td>
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<tr>
<td>&quot; on hand</td>
<td>8,336,516</td>
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<tr>
<td>Hay permits issued</td>
<td>592</td>
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</table>
REPORT OF CROWN TIMBER AGENT, EDMONTON.

The revenue, $84,488.13, shows a decrease from the preceding year, of $15,692.87. This is accounted for by the non-operation of the Edmonton firms, John Walter, Limited, D. R. Fraser & Company, and the Edmonton Lumber Company, who took out no logs this year.

Owing to their disastrous experiences in previous years, through floods, I understand these firms have practically decided not to again use the Saskatchewan river for driving their logs, and have been awaiting some other means of transportation before again operating their limits. I am pleased to say there is a prospect of a railway being built before long through a good portion of their timber and I trust they will again be operating this year.

There is a great demand for lumber at the present time, at prices better than have been received for years, and I look for a generous increase in the timber business for the coming year.

A. NORQUAY,

Crown Timber Agent.
### Schedule A—Statement of Receipts from Crown Timber Agency at Edmonton, for fiscal year ending March 31, 1917.

<table>
<thead>
<tr>
<th>Month</th>
<th>Bonus under License</th>
<th>Ground rent under License</th>
<th>Royalty dues under License</th>
<th>Permit Fees, Dues &amp; Rental</th>
<th>Seizures</th>
<th>Total Timber</th>
<th>Grazing Land Rental</th>
<th>Hay Permits, Fees &amp; Dues</th>
<th>Fire-guarding Fees</th>
<th>Registration Fees</th>
<th>Total</th>
</tr>
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<tbody>
<tr>
<td>1916</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>April</td>
<td>$516.95</td>
<td>$3,654.54</td>
<td>$2,612.91</td>
<td>$563.63</td>
<td></td>
<td>$6,729.65</td>
<td>$268</td>
<td>$522.25</td>
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<td>6,729.71</td>
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<td>May</td>
<td>$600.87</td>
<td>$991.40</td>
<td>$2,539.96</td>
<td>$501.88</td>
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<td>$4,083.75</td>
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<td></td>
<td></td>
<td></td>
<td>5,672.33</td>
</tr>
<tr>
<td>June</td>
<td>$174.70</td>
<td>$4.33</td>
<td>$466.76</td>
<td>$109.85</td>
<td></td>
<td>$695.74</td>
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<td>$195.60</td>
<td>$45.10</td>
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<td>966.41</td>
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<tr>
<td>July</td>
<td>$8,454.67</td>
<td></td>
<td>$1,655.43</td>
<td>$1,783.70</td>
<td>$1,248.07</td>
<td>$3,906.25</td>
<td></td>
<td>$144.25</td>
<td>$46.85</td>
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<td>13,898.53</td>
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<tr>
<td>August</td>
<td>$207.12</td>
<td>$4,425.73</td>
<td>$12,516.27</td>
<td>$264.12</td>
<td></td>
<td>$17,414.26</td>
<td>$22.56</td>
<td>$88.00</td>
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<td>17,591.82</td>
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<tr>
<td>September</td>
<td>$410.70</td>
<td>$5,319.87</td>
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<td>$53.91</td>
<td>$10,785.70</td>
<td>$41.93</td>
<td>$7.50</td>
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<td>10,842.17</td>
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<tr>
<td>October</td>
<td>$11.28</td>
<td>$1,473.47</td>
<td>$1,183.57</td>
<td>$1,318.52</td>
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<td>$3,681.94</td>
<td>$22.33</td>
<td>0.90</td>
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<td>November</td>
<td>$11.40</td>
<td>$119.04</td>
<td>$1,026.15</td>
<td>$168.89</td>
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<td>$1,232.39</td>
<td>$25.67</td>
<td>1.00</td>
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<td>1,351.46</td>
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<tr>
<td>December</td>
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<tr>
<td>January</td>
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<td>3,891.75</td>
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<td>February</td>
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<td>5,942.95</td>
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<tr>
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<td>$2,606.80</td>
<td>$19,956.96</td>
<td>$40,514.78</td>
<td>$11,175.20</td>
<td>$82,728.50</td>
<td>$441.86</td>
<td>$966.70</td>
<td>$291.97</td>
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<td>84,488.13</td>
</tr>
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</table>

Collected at head office:

| 1916         |                     |                           |                             |                             |          |              |                      |                           |                     |                 |       |
| April        |                     |                           |                             |                             |          |              |                      |                           |                     |                 | 114.40  |
| May          |                     |                           |                             |                             |          |              |                      |                           |                     |                 | 138.60  |
| June         | $705.60             | $72.55                    | $1,820.76                   | $176.01                     | $8.00    | $2,004.77    | $9.60                  |                         | 5,540.06             | 19.16            | 10.66   |
| July         |                     |                           |                             |                             |          |              |                      |                           |                     |                 | 2,014.37 |
| August       |                     |                           |                             |                             |          |              |                      |                           |                     |                 | 5,540.36 |
| September    |                     |                           |                             |                             |          |              |                      |                           |                     |                 | 20.50   |
| October      |                     |                           |                             |                             |          |              |                      |                           |                     |                 | 28.22   |
| November     |                     |                           |                             |                             |          |              |                      |                           |                     |                 | 12.02   |
| December     |                     |                           |                             |                             |          |              |                      |                           |                     |                 | 12.02   |
| Totals       | $705.60             | $1,903.51                 | $290.01                     | $116.00                     | 5,555.06 | 8,670.18     | 141.43                 |                           |                     |                 | 8,825.61 |

Grand totals:

|                     | $9,160.27           | $4,510.46                  | $20,366.97                  | $49,630.78                  | $16,730.26| $91,398.68   | $586.29                | $966.70                   | $291.97             |                 | 93,311.74 |

Imp. 12 00
<table>
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<tr>
<th>Mill-owner</th>
<th>Location of Mill</th>
<th>Berth No.</th>
<th>Species of Timber Cut</th>
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<th>Lumber Sold</th>
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<td>6,414,768</td>
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1 Cordwood.—Manufactured 37 cords; sold 37 cords.
2 Manufactured Mining Timber.—Manufactured 5,268; sold 5,268.
### Schedule B—Showing the Saw-Mills operating within the Edmonton Agency under Government License, for the fiscal year ending March 31, 1917—Continued.

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<th>Average per Log.</th>
<th>Railway Ties</th>
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-------------|---------------|-----------------|
245,543      | 15,425        | 63,060          |
100,000      | 63,060        | 37,000          |
224,040      | 68,208        | 155,831         |
89,818       | 77,818        | 12,000          |
165,000      | 165,000       | 10,000          |
86,729       | 76,729        | 10,000          |
565,500      | 203,513       | 361,987         |
84,706       | 56,506        | 28,200          |
77,241       | 30,729        | 46,562          |
6,807,702    | 6,719,589     | 5,200,029       |
the Edmonton Agency, under Government Permits, for the fiscal year ending March
Continued.

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<th>Manufactured</th>
<th>Sold</th>
<th>On hand.</th>
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Mfg. | Sold | On hand. |
REPORT OF CROWN TIMBER AGENT, PRINCE ALBERT.

Schedule A. Revenue derived from the timber and grazing branch of this agency.

Schedule B. Showing the saw-mills operating within this agency under government license.

Schedule C. Showing the mills, including portable saw-mills, operating under government permits.

Schedule D. General office return.

Owing to the increased demand on the prairies and in the United States for lumber, a marked increase is noted in the manufacture and sales of lumber from mills operating under government license.

The prevailing high price of lumber, no doubt, in a large measure, accounts for the increase of permits issued to settlers to cut timber for their own use.

A remarkable increase in the amount of cordwood manufactured over previous years is noted. This is largely due to the growing demand for wood as fuel, due possibly to the unsettled conditions among the miners in coal-mining districts. We anticipate a greater increase in the quantity of cordwood manufactured during the current year.

The operations of lumbermen, settlers and cordwood cutters should be more carefully supervised in order to prevent, as far as possible, the waste of timber, through careless slashing and leaving the brush, so as to endanger the standing timber through fire.

The transfer of twenty-nine license berths from Winnipeg Crown Timber agency to this agency has considerably increased the work of this branch.

R. M. TREEN,  
Acting Crown Timber Agent.

<table>
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<tr>
<th>Month</th>
<th>Ground Rent under License</th>
<th>Royalty Dues under License</th>
<th>Permit Fees, Dues and Rental</th>
<th>Seizures</th>
<th>Total Timber</th>
<th>Grazing Land Rental</th>
<th>Hay Permits, Fees &amp; Dues</th>
<th>Fire-guarding Fees</th>
<th>Registration Fees</th>
<th>Total</th>
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**Collected at Head office:**

**1916.**

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<th>Ground Rent under License</th>
<th>Royalty Dues under License</th>
<th>Permit Fees, Dues and Rental</th>
<th>Seizures</th>
<th>Total Timber</th>
<th>Grazing Land Rental</th>
<th>Hay Permits, Fees &amp; Dues</th>
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<td>Steam</td>
<td>Spruce</td>
<td>710</td>
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<td></td>
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<td>108</td>
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<td>Spruce</td>
<td>708 and 802</td>
<td>708 and 802</td>
<td>708 and 802</td>
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<td>36,706</td>
<td>357,095</td>
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<td>Big River Lbr. Co.</td>
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<td>1048</td>
<td>Steam</td>
<td>Spruce</td>
<td>633</td>
<td>633</td>
<td>Nil</td>
<td>54,776</td>
<td>38,777</td>
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<tr>
<td>Sask. Lumber Co.</td>
<td>Crooked River</td>
<td>961</td>
<td>Steam</td>
<td>Spruce</td>
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<td>Nil</td>
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<td>Nil</td>
<td>20,095</td>
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<tr>
<td>Finger Lbr. Co.</td>
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<td>Steam</td>
<td>Spruce</td>
<td>1,274</td>
<td>1,274</td>
<td>Nil</td>
<td>104,244</td>
<td>Nil</td>
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<td>329</td>
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<td>Spruce</td>
<td>1,275</td>
<td>1,275</td>
<td>Nil</td>
<td>54,756</td>
<td>41,756</td>
<td>96,512</td>
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<tr>
<td>Fritz Stormont Lbr. Co.</td>
<td></td>
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<td>1,275</td>
<td>1,275</td>
<td>Nil</td>
<td>78,454</td>
<td>49,454</td>
<td>127,908</td>
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<td>Red Deer Lbr. Co.</td>
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<td>Steam</td>
<td>Spruce</td>
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<td>1,275</td>
<td>Nil</td>
<td>54,756</td>
<td>41,756</td>
<td>96,512</td>
</tr>
<tr>
<td>H. R. Knudson</td>
<td>Dalhain</td>
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<td>Steam</td>
<td>Spruce</td>
<td>1,275</td>
<td>1,275</td>
<td>Nil</td>
<td>78,454</td>
<td>49,454</td>
<td>127,908</td>
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<td>H. Pearse and Edworthy Bros.</td>
<td>Peaceine</td>
<td>2036</td>
<td>Steam</td>
<td>Spruce</td>
<td>1,275</td>
<td>1,275</td>
<td>Nil</td>
<td>52,061</td>
<td>32,061</td>
<td>84,122</td>
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<td>Big River</td>
<td>1048</td>
<td>Steam</td>
<td>Spruce</td>
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<td>1,275</td>
<td>Nil</td>
<td>52,061</td>
<td>32,061</td>
<td>84,122</td>
</tr>
<tr>
<td>H. Blackburn</td>
<td>Bannock</td>
<td>1,681</td>
<td>Steam</td>
<td>Spruce</td>
<td>1,275</td>
<td>1,275</td>
<td>Nil</td>
<td>52,061</td>
<td>32,061</td>
<td>84,122</td>
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<td>Totals</td>
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<td></td>
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<td>104,877,540</td>
<td>33,389,584</td>
<td>1,728,429</td>
<td>1,858,077</td>
<td>2,038,857</td>
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<td>Laths</td>
<td>Cordwood</td>
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<td></td>
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<td></td>
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<td>Manufactured</td>
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<td>On hand</td>
<td>Manufactured</td>
<td>Sold</td>
<td>On hand</td>
<td>Manufactured</td>
<td>Sold</td>
<td>On hand</td>
<td>Number of Returns made</td>
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<td></td>
<td>Nil</td>
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<td>Nil</td>
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<td></td>
<td>2,115,050</td>
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<td></td>
<td>812,500</td>
<td></td>
<td></td>
<td>Nil</td>
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<td>1 June 30, 1916</td>
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<tr>
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<td>Nil</td>
<td></td>
<td></td>
<td>Nil</td>
<td></td>
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<td>69</td>
<td></td>
<td>69</td>
<td>4 &quot; 31, 1917</td>
</tr>
<tr>
<td>&quot;</td>
<td>Nil</td>
<td></td>
<td></td>
<td>Nil</td>
<td></td>
<td></td>
<td>1,279,250</td>
<td></td>
<td>1,318,750</td>
<td>4 &quot; 31, 1917</td>
</tr>
</tbody>
</table>
| Finger Lbr. Co.             | 4,964,200    |        |          | 2,315,800 | 3,061,300 |        | 55,000     |        |          | 1 Dec. 31, 1916 Sold to Fritz Strom-
| Ruby Lake Lbr. Co.          | Nil          |        |          | Nil       |        |          | 500,000    |        | 650,000   | 4 " 31, 1917            |                    | 4 " 31, 1917. |
| Ladder Lake Lbr. Co.        | 14,091,450   | 13,074,900 | 5,483,400 | 2,446,700 | 2,446,700 | Nil        | 4,621      | 2,500      | 1,521      | 4 " 31, 1917            |                    | 4 " 31, 1917. |
| Totals                     | 98,896       | 31,078,200 | 31,083,650 | 12,270,300 | 4,621      | 2,500      | 1,521      | 100        | 4 " 31, 1917            |                    | 100 4 " 31, 1917. |
### Schedule C.—Showing the Mills (including the Portable Mills) operating within March

<table>
<thead>
<tr>
<th>Mill Owner</th>
<th>Location of Mill</th>
<th>Berth No.</th>
<th>Species of timber cut</th>
<th>Manufactured Feet B.M.</th>
<th>Sold Feet B.M.</th>
<th>On Hand Feet B.M.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bank of Ottawa</td>
<td>Prince Albert</td>
<td>876</td>
<td>Jack Pine</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>H. R. Knudson</td>
<td>Dahlon</td>
<td>1630</td>
<td>Spruce</td>
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<td></td>
</tr>
<tr>
<td>Warren Shaw</td>
<td>Perigord</td>
<td>1906</td>
<td>&quot;</td>
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<td></td>
</tr>
<tr>
<td>Andrew Nigent</td>
<td>Steep Creek</td>
<td>1906a</td>
<td>&quot;</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>J. B. Albert</td>
<td>Prince Albert</td>
<td>2063</td>
<td>&quot;</td>
<td></td>
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<td>Chas. Shaw, sr.</td>
<td>&quot;</td>
<td>2049</td>
<td>&quot;</td>
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<tr>
<td>F. L. Smyth</td>
<td>Avebury</td>
<td>2023</td>
<td>&quot;</td>
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<td></td>
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<tr>
<td>R. J. Schwartz</td>
<td>Shell Lake</td>
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<td>&quot;</td>
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<tr>
<td>H. M. Egehund</td>
<td>Canwood</td>
<td>2130</td>
<td>&quot;</td>
<td></td>
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<td></td>
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<tr>
<td>Joseph Otte</td>
<td>Shellbrook</td>
<td>2157</td>
<td>&quot;</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>J. S. Spitzia</td>
<td>Fort Pitt.</td>
<td>2198</td>
<td>&quot;</td>
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<tr>
<td>W. N. Asselstine</td>
<td>Moose Range</td>
<td>2174</td>
<td>&quot;</td>
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<td></td>
<td></td>
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<tr>
<td>Andrew Jacobsen</td>
<td>Midnight Lake</td>
<td>2213</td>
<td>&quot;</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Wm. Nichol</td>
<td>Perigord</td>
<td>2217</td>
<td>&quot;</td>
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<td>A. G. Cook</td>
<td>Norbury</td>
<td>2219</td>
<td>&quot;</td>
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<tr>
<td>Peter Eidsvig</td>
<td>Lea Park</td>
<td>2259</td>
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<tr>
<td>Theo. Nadon</td>
<td>St. Walburg</td>
<td>2260</td>
<td>&quot;</td>
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<tr>
<td>McKenzie Ellis Wood Co.</td>
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<td>878</td>
<td>Jack Pine &amp; Poplar</td>
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<td></td>
</tr>
<tr>
<td>&quot;</td>
<td>&quot;</td>
<td>877</td>
<td>&quot;</td>
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</tr>
<tr>
<td>&quot;</td>
<td>&quot;</td>
<td>941</td>
<td>&quot;</td>
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</tr>
<tr>
<td>Leonard Hodgson</td>
<td>Blaine Lake</td>
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<td>Chas. Shaw</td>
<td>Bjorkdale</td>
<td>2251</td>
<td>&quot;</td>
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</tr>
<tr>
<td>Hornsett &amp; Jocklin</td>
<td>Ravine Bank</td>
<td>2257</td>
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<tr>
<td>D. McRae</td>
<td>Rabbitt Lake</td>
<td>2226</td>
<td>&quot;</td>
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<tr>
<td>J. B. Albert</td>
<td>Prince Albert</td>
<td>2271</td>
<td>&quot;</td>
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<tr>
<td>Chas. Cornerford</td>
<td>Mullinger</td>
<td>2241</td>
<td>&quot;</td>
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<tr>
<td>Hans Mons-braten</td>
<td>Canwood</td>
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<tr>
<td>A. H. Cunningham</td>
<td>Ravine Bank</td>
<td>2366</td>
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<tr>
<td>Prince Albert Lumber Co.</td>
<td>Prince Albert</td>
<td>Permit</td>
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<tr>
<td>Ladder Lake Lumber Co.</td>
<td>Big River</td>
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</tr>
<tr>
<td>John Vald.</td>
<td>Prince Albert</td>
<td>2-35</td>
<td>Jack Pine</td>
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<tr>
<td>Med Foucher</td>
<td>Arborfield</td>
<td>2408</td>
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<tr>
<td>A. L. Brown</td>
<td>St. Walberg</td>
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<td>A. L. Brown</td>
<td>St. Walberg</td>
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<td><strong>Totals</strong></td>
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<td><strong>517,752</strong></td>
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the Prince Albert Agency, under Government Permits, for the fiscal year ending 31, 1917.

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<th>Logs Manufactured</th>
<th>Logs on Hand</th>
<th>Manuf.</th>
<th>Sold.</th>
<th>On Hand</th>
<th>No. of Returns made</th>
<th>Date of Last Returns</th>
<th>Remarks</th>
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<td>7,077</td>
<td>10,765</td>
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</table>

37,000 shingles.
2,000 posts mfg. 2,700 sold, nil on hand.

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<th>Particulars</th>
<th>Number &amp;c.</th>
<th>As Compared with Previous Year.</th>
<th>As Compared with Previous Year.</th>
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<td></td>
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<td>Increase</td>
<td>Decrease</td>
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<td>Letters written</td>
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<tr>
<td>Permits subject to dues issued</td>
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<td>43</td>
<td>113</td>
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<tr>
<td>Free permits issued</td>
<td>396</td>
<td></td>
<td>11</td>
</tr>
<tr>
<td>Seizures made</td>
<td>28</td>
<td></td>
<td>2</td>
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<tr>
<td>Mill returns received and verified</td>
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<td>2</td>
<td>26</td>
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<tr>
<td>Mills operating under Government license</td>
<td>11</td>
<td>5</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>30</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Quantity of lumber manufactured, under license</td>
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<td>31,348,661</td>
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<tr>
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<td>104,577,540</td>
<td>17,016,362</td>
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<td>33,889,584</td>
<td>8,081,727</td>
<td>26</td>
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</table>

REPORT OF CROWN TIMBER AGENT, WINNIPEG.

Schedule A, showing receipts from timber, grazing and hay on Dominion lands. Schedule B, showing saw-mills operating under license, and the extent of such operations. Schedule C, showing the mills, including portable mills operating under permits, and the extent of such operations. Schedule G, General office return.

In addition to the figures and information furnished in the above, the following statement shows the quantity of timber authorized under permits issued to settlers and others on Dominion lands:

Quantity Authorized—

Number of free permits issued to settlers and others: 807

Lumber feet B.M. 1,985,446
Building logs (lineal feet) 280,375
Roof poles 23,815
Fence rails 99,225
Fence posts 76,610
Cords of wood 11,647
Lineal feet of piling 50,000
Railway ties (Hudson's Bay Construction Co.) 280,000

Settlers' permits and others on which dues were paid: 713

Quantity Authorized—

Lumber feet B.M. 893,085
Building logs (lineal feet) 3,180
Roof poles 2,660
Fence rails 250
Fence posts 15,845
Cords of wood 24,835
Shingles 10,000
Piling (lineal feet) 31,600
Railway ties 100,150
Telegraph and telephone poles 15
Pulpwood (cords) 224

Cordwood Berths.

Number of permits issued on cordwood berths: 70

Authorizing the cutting of the following quantity of timber, viz:

Fence posts 55,850
Cords of wood 12,050
Telephone and telegraph poles 7,000
**SESSIONAL PAPER No. 25**

**Permit Berths.**

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feet B.M. lumber</td>
<td>1,140,000</td>
</tr>
<tr>
<td>Fence rails</td>
<td>500</td>
</tr>
<tr>
<td>&quot; posts</td>
<td>4,600</td>
</tr>
<tr>
<td>Cords of wood</td>
<td>41,160</td>
</tr>
<tr>
<td>Piling (lineal feet)</td>
<td>2,500</td>
</tr>
</tbody>
</table>

**License Berths.**

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fence posts</td>
<td>1,500</td>
</tr>
<tr>
<td>Cords of wood</td>
<td>500</td>
</tr>
</tbody>
</table>

**Total number of permits issued during year.**

| Total | 1,660 |

**Seizures.**

During the year 72 seizures were made, covering timber cut on Dominion lands as follows—

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of feet B.M. lumber covered</td>
<td>5,613,198</td>
</tr>
<tr>
<td>Lineal feet of logs</td>
<td>5,031</td>
</tr>
<tr>
<td>Fence rails</td>
<td>200</td>
</tr>
<tr>
<td>&quot; posts</td>
<td>29,519</td>
</tr>
<tr>
<td>Roof poles</td>
<td>648</td>
</tr>
<tr>
<td>Cords of wood</td>
<td>2,171½</td>
</tr>
<tr>
<td>Telegraph poles</td>
<td>208</td>
</tr>
<tr>
<td>Linical feet piling</td>
<td>2,954</td>
</tr>
<tr>
<td>Railway ties</td>
<td>35,716</td>
</tr>
</tbody>
</table>

**Hay Permits.**

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of hay permits issued on Dominion lands during the year</td>
<td>896</td>
</tr>
<tr>
<td>Number of tons of hay covered thereby</td>
<td>12,672½</td>
</tr>
</tbody>
</table>

A. F. CROWE,
Crown Timber Agent.
Schedule A.—Statement of Receipts from Crown Timber Agency at Winnipeg, for fiscal year ending March 31, 1917.

<table>
<thead>
<tr>
<th>Month</th>
<th>Ground Rent Under License</th>
<th>Royalty Dues Under License</th>
<th>Permit Fees and Dues</th>
<th>Seizures</th>
<th>Total Timber</th>
<th>Hay Permits Fees and Dues</th>
<th>Fire-gaging Fees</th>
<th>Registration Fees</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1916</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>April</td>
<td>2,809 80</td>
<td>1,337 23</td>
<td>1,466 00</td>
<td>804 61</td>
<td>6,412 24</td>
<td></td>
<td></td>
<td></td>
<td>6,412 24</td>
</tr>
<tr>
<td>May</td>
<td>685 55</td>
<td>131 00</td>
<td>2,661 87</td>
<td>542 01</td>
<td>4,021 12</td>
<td></td>
<td></td>
<td></td>
<td>4,993 47</td>
</tr>
<tr>
<td>June</td>
<td>1,799 19</td>
<td>1,665 83</td>
<td>1,700 00</td>
<td>4,104 26</td>
<td>9,334 88</td>
<td></td>
<td></td>
<td></td>
<td>9,373 04</td>
</tr>
<tr>
<td>July</td>
<td>918 62</td>
<td>1,517 60</td>
<td>1,067 16</td>
<td>2,332 24</td>
<td>5,835 62</td>
<td></td>
<td></td>
<td></td>
<td>6,125 24</td>
</tr>
<tr>
<td>August</td>
<td>174 19</td>
<td>2,726 15</td>
<td>1,673 16</td>
<td>2,418 26</td>
<td>6,391 76</td>
<td></td>
<td></td>
<td></td>
<td>6,553 76</td>
</tr>
<tr>
<td>September</td>
<td>270 64</td>
<td>2,484 30</td>
<td>1,497 57</td>
<td>97 10</td>
<td>4,349 61</td>
<td></td>
<td></td>
<td></td>
<td>4,348 79</td>
</tr>
<tr>
<td>October</td>
<td>369 79</td>
<td>4,729 68</td>
<td>3,456 27</td>
<td>10 06</td>
<td>8,586 65</td>
<td></td>
<td></td>
<td></td>
<td>8,615 25</td>
</tr>
<tr>
<td>November</td>
<td>48 72</td>
<td>20 89</td>
<td>1,340 74</td>
<td>19 00</td>
<td>1,429 35</td>
<td></td>
<td></td>
<td></td>
<td>1,129 35</td>
</tr>
<tr>
<td>December</td>
<td>161 89</td>
<td>1,508 85</td>
<td>3,568 36</td>
<td>323 24</td>
<td>5,557 34</td>
<td></td>
<td></td>
<td></td>
<td>5,576 00</td>
</tr>
<tr>
<td>1917</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>January</td>
<td>1,538 04</td>
<td>2,337 64</td>
<td>7 00</td>
<td>3,882 68</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3,885 38</td>
</tr>
<tr>
<td>February</td>
<td>23 59</td>
<td>2,351 79</td>
<td>8 00</td>
<td>2,388 38</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2,407 31</td>
</tr>
<tr>
<td>March</td>
<td>1,326 17</td>
<td>1,916 73</td>
<td>359 73</td>
<td>3,602 63</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3,612 66</td>
</tr>
<tr>
<td>Totals</td>
<td>7,294 30</td>
<td>19,000 42</td>
<td>24,504 49</td>
<td>11,926 05</td>
<td>61,792 26</td>
<td></td>
<td>1,949 40</td>
<td>367 78</td>
<td>64,140 44</td>
</tr>
<tr>
<td>Collected at Head Office</td>
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</tr>
<tr>
<td>April</td>
<td>123 80</td>
<td>8 45</td>
<td>132 25</td>
<td></td>
<td>132 25</td>
<td></td>
<td></td>
<td></td>
<td>132 25</td>
</tr>
<tr>
<td>June</td>
<td>25 00</td>
<td></td>
<td>25 00</td>
<td></td>
<td>25 00</td>
<td></td>
<td></td>
<td></td>
<td>25 00</td>
</tr>
<tr>
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<tr>
<td>September</td>
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<tr>
<td>October</td>
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</tr>
<tr>
<td>December</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1917</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>30 10</td>
<td></td>
<td>140 81</td>
<td>30 10</td>
<td>140 81</td>
<td></td>
<td></td>
<td></td>
<td>140 81</td>
</tr>
<tr>
<td>February</td>
<td></td>
<td></td>
<td>140 81</td>
<td>328 16</td>
<td>328 16</td>
<td></td>
<td></td>
<td></td>
<td>328 16</td>
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<tr>
<td>March</td>
<td></td>
<td></td>
<td></td>
<td>1 00</td>
<td>1 00</td>
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<td></td>
<td></td>
<td>1 00</td>
</tr>
<tr>
<td>Totals</td>
<td>178 90</td>
<td>8 45</td>
<td>140 81</td>
<td>328 16</td>
<td>329 16</td>
<td></td>
<td></td>
<td></td>
<td>329 16</td>
</tr>
<tr>
<td>Grand totals</td>
<td>7,443 20</td>
<td>19,000 42</td>
<td>24,509 94</td>
<td>11,166 86</td>
<td>62,120 42</td>
<td>1,950 40</td>
<td>40,367 78</td>
<td>31 00</td>
<td>64,419 60</td>
</tr>
</tbody>
</table>


SCHEDULE B.—Showing the Saw-mills operating within the Winnipeg Agency, under Government License for the fiscal year ending March 31, 1917.

<table>
<thead>
<tr>
<th>Number</th>
<th>Mill-owner</th>
<th>Location of Mill</th>
<th>Berth No.</th>
<th>Kind of Power</th>
<th>Horse Power</th>
<th>Capacity per 10 hours</th>
<th>Species of Timber Cut</th>
<th>Lumber</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Brown &amp; Rutherford</td>
<td>No mill</td>
<td>1,928</td>
<td></td>
<td></td>
<td>450</td>
<td>Spruce and tamarack</td>
<td>28,200</td>
</tr>
<tr>
<td>2</td>
<td>Bjornson Hall</td>
<td>575</td>
<td>1,250</td>
<td>Steam</td>
<td>60 to 70</td>
<td>200</td>
<td>Spruce and tamarack</td>
<td>325,000</td>
</tr>
<tr>
<td>3</td>
<td>Burrows, J. A.</td>
<td>Grandview</td>
<td>1,579</td>
<td>Steam</td>
<td>450</td>
<td>125,000</td>
<td>Spruce and tamarack</td>
<td>238,025</td>
</tr>
<tr>
<td>4</td>
<td>Caverly Bros.</td>
<td>27 38-29 W. 1.</td>
<td>1,713</td>
<td>Steam</td>
<td>250</td>
<td>50,000</td>
<td>Spruce and tamarack</td>
<td>1,673,301</td>
</tr>
<tr>
<td>5</td>
<td>Dutton, W. P.</td>
<td>546</td>
<td>546</td>
<td>Steam</td>
<td>45</td>
<td>20,000</td>
<td>Spruce</td>
<td>1,181,456</td>
</tr>
<tr>
<td>6</td>
<td>Frank &amp; Shannon</td>
<td>Clements Pt.</td>
<td>1,545</td>
<td>Steam</td>
<td>100</td>
<td>20,000</td>
<td>Spruce and tamarack</td>
<td>438,608</td>
</tr>
<tr>
<td>7</td>
<td>Gunn, John</td>
<td>964</td>
<td>1,063</td>
<td>Steam</td>
<td>80</td>
<td>30,000</td>
<td>Spruce and tamarack</td>
<td>9,885</td>
</tr>
<tr>
<td>8</td>
<td>McCalister &amp; Milner</td>
<td>Ruby Lake</td>
<td>1,120</td>
<td>Steam</td>
<td>150</td>
<td>150</td>
<td>Spruce and tamarack</td>
<td>7,433,652</td>
</tr>
<tr>
<td>9</td>
<td>McArthur, Peter</td>
<td>Winnipegosis</td>
<td>824</td>
<td>Steam</td>
<td>50</td>
<td>140,000</td>
<td>Spruce</td>
<td>2,389,837</td>
</tr>
<tr>
<td>10</td>
<td>McArthur, J. D.</td>
<td>Lac du Bonnet (Ex. Blk. 4)</td>
<td>762</td>
<td>Steam</td>
<td>50</td>
<td>40,000</td>
<td>Spruce and tamarack</td>
<td>649,757</td>
</tr>
<tr>
<td>11</td>
<td>McArthur, J. D.</td>
<td>Lac du Bonnet</td>
<td>1,180</td>
<td>Steam</td>
<td>50</td>
<td>40,000</td>
<td>Spruce</td>
<td>924,388</td>
</tr>
<tr>
<td>12</td>
<td>National Trust Co., Ltd.</td>
<td>Birch River</td>
<td>984</td>
<td>Steam</td>
<td>150</td>
<td>150</td>
<td>Spruce and tamarack</td>
<td>785,542</td>
</tr>
<tr>
<td>13</td>
<td>National Trust Co., Ltd.</td>
<td>Fishtown Spar</td>
<td>992</td>
<td>Steam</td>
<td>60</td>
<td>25,000</td>
<td>Spruce</td>
<td>2,389,837</td>
</tr>
<tr>
<td>14</td>
<td>National Trust Co., Ltd.</td>
<td>Grandview</td>
<td>1,120</td>
<td>Steam</td>
<td>450</td>
<td>125,000</td>
<td>Spruce</td>
<td>649,757</td>
</tr>
<tr>
<td>15</td>
<td>Red Deer Lumber Co.</td>
<td>Barrows</td>
<td>92</td>
<td>Steam</td>
<td>650</td>
<td>150,000</td>
<td>Spruce</td>
<td>4,690,900</td>
</tr>
<tr>
<td>16</td>
<td>Red Deer Lumber Co.</td>
<td>1,230</td>
<td>1,230</td>
<td>Steam</td>
<td>650</td>
<td>150,000</td>
<td>Spruce</td>
<td>4,185,134</td>
</tr>
<tr>
<td>17</td>
<td>Royal Bank of Canada</td>
<td>No mill</td>
<td>624</td>
<td>Steam</td>
<td>100</td>
<td>35,000</td>
<td>Spruce and tamarack</td>
<td>5,279,194</td>
</tr>
<tr>
<td>18</td>
<td>Robinson, Wm.</td>
<td>Black River</td>
<td>869</td>
<td>Steam</td>
<td>100</td>
<td>150</td>
<td>Spruce and tamarack</td>
<td>9,048,578</td>
</tr>
<tr>
<td>19</td>
<td>Ritchie, Wm.</td>
<td>N.E. 31-44-27 W.</td>
<td>2,229</td>
<td>Steam</td>
<td>60</td>
<td>10,000</td>
<td>Spruce</td>
<td>31,364,987</td>
</tr>
<tr>
<td>20</td>
<td>Sparrow, W. H.</td>
<td>Sec. 15-23-4 E.</td>
<td>1,685</td>
<td>Steam</td>
<td>60</td>
<td>15,000</td>
<td>Spruce</td>
<td>29,357,738</td>
</tr>
<tr>
<td>21</td>
<td>Thorsoldon &amp; Simpson</td>
<td>Sec. 19-23-4 E.</td>
<td>1,857</td>
<td>Steam</td>
<td>45</td>
<td>15,000</td>
<td>Spruce</td>
<td>10,000</td>
</tr>
<tr>
<td>22</td>
<td>Williams, W. J. S.</td>
<td>Fork River</td>
<td>944</td>
<td>Steam</td>
<td>25</td>
<td>7,000</td>
<td>Spruce and poplar</td>
<td>78,929</td>
</tr>
</tbody>
</table>

1 Correction. 2 The lumber manufactured from 5,650 less ft. of piling.
### SCHEDULE B.—Showing the Saw-mills operating within the Winnipeg Agency, under Government License for the fiscal year ending March 31, 1917—Concluded.

<table>
<thead>
<tr>
<th>Number</th>
<th>Mill-owner</th>
<th>Logs Cut.</th>
<th>Logs Manufactured</th>
<th>Logs on Hand.</th>
<th>Average per Log.</th>
<th>Railway Ties Manufactured</th>
<th>Sold</th>
<th>Made</th>
<th>Laths Manufactured</th>
<th>Sold</th>
<th>On Hand</th>
<th>Number of Returns Made</th>
<th>Date of Last Return</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Brown &amp; Rutherford</td>
<td>29,177</td>
<td>29,177</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>431 Mar. '17...</td>
<td>431...</td>
<td>431...</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Bannow, Halli.</td>
<td>7,912</td>
<td>7,391</td>
<td>541</td>
<td>44</td>
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<td></td>
<td></td>
<td>230 Sept. '16...</td>
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<td>Transferred Prince Albert 22-11-16.</td>
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<tr>
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<td>Burrows, L. A.</td>
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<td>3,972</td>
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<td>431 Mar. '17...</td>
<td>431...</td>
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<td></td>
</tr>
<tr>
<td>4</td>
<td>Caverly Bros.</td>
<td>5,000</td>
<td>5,000</td>
<td>5,000</td>
<td>5</td>
<td></td>
<td></td>
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<td>431 Mar. '17...</td>
<td>431...</td>
<td>431...</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Dutton, W. P.</td>
<td>19,882</td>
<td>5,000</td>
<td>7,461</td>
<td>5,000</td>
<td>516,200</td>
<td>53,800</td>
<td>629,950</td>
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<td>431...</td>
<td>431...</td>
<td>431...</td>
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</tr>
<tr>
<td>6</td>
<td>Frank &amp; Shannon</td>
<td>3,000</td>
<td>3,000</td>
<td>3,000</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td>431 Mar. '17...</td>
<td>431...</td>
<td>431...</td>
<td></td>
</tr>
<tr>
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2These logs destroyed by fire written off A. O. letter 9-8-16. 14 Destroyed by fire, written off. 2Lost from boom, written off.
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<th>Number</th>
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<th>Lumber</th>
<th>Log Count</th>
<th>Average per log Ft. B.M.</th>
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**Schedule C.**—Showing the Mills (including the Portable Mills) operating within the Winnipeg Agency, under Government Permits, for the fiscal year ending March 31, 1917.
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**SESSIONAL PAPER No. 25**

**SCHEDULE D.—General Office Return of the Crown Timber Agency, Winnipeg, for fiscal year ending March 31, 1917.**

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<td>Seizures made</td>
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<td>Mill returns received and verified</td>
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<tr>
<td>Hay permits issued</td>
<td>896</td>
<td>53</td>
</tr>
</tbody>
</table>

**REPORT OF CROWN TIMBER AGENT, KAMLOOPS.**

Schedules A, B, C, D, and E, all of which are comparative statements completely covering the timber business done at this agency during the fiscal year ending March 31, 1917.

There is nothing further material to report regarding the lumbering within the Kamloops district since my last report for the year ending March 31, 1916. In the latter I stated that there was a good demand for timber cut by our mills at that time, also that an increased cut was anticipated. This situation still prevails, and while only one saw-mill has of late cut to any extent, on Dominion holdings within the Kamloops district during the past year, it is expected that at least one other additional saw-mill will operate extensively in the near future.

W. C. COWELL,  
*Agent.*
<table>
<thead>
<tr>
<th>Month</th>
<th>Ground Rent under License</th>
<th>Royalty Dues under License</th>
<th>Permit Fees, Dues and Rental</th>
<th>Seizures</th>
<th>Total Timber</th>
<th>Grazing Land Rental</th>
<th>Hay Permits, Fees and Dues</th>
<th>Fire-guarding Fees</th>
<th>Registration Fees</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>April</td>
<td>$248 25</td>
<td>2,457 64</td>
<td>129 69</td>
<td>2,826 49</td>
<td>257 17</td>
<td>3,089 66</td>
<td></td>
<td></td>
<td>6 00</td>
<td></td>
</tr>
<tr>
<td>May</td>
<td>1,514 01</td>
<td>10 80</td>
<td>78 25</td>
<td>1,663 06</td>
<td>816 51</td>
<td>2,502 57</td>
<td></td>
<td></td>
<td>4 00</td>
<td></td>
</tr>
<tr>
<td>June</td>
<td>792 45</td>
<td>1,579 68</td>
<td>38 05</td>
<td>2,320 18</td>
<td>56 19</td>
<td>2,376 37</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>July</td>
<td>9 08</td>
<td>0 90</td>
<td>110 18</td>
<td>133 46</td>
<td>93 26</td>
<td>208 98</td>
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<td></td>
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<tr>
<td>August</td>
<td>25 94</td>
<td>72 24</td>
<td>195 25</td>
<td>221 19</td>
<td>53 24</td>
<td>274 43</td>
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<td></td>
<td></td>
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</tr>
<tr>
<td>September</td>
<td>16 10</td>
<td>138 90</td>
<td>169 15</td>
<td>262 45</td>
<td>394 64</td>
<td>656 09</td>
<td></td>
<td></td>
<td>8 00</td>
<td></td>
</tr>
<tr>
<td>October</td>
<td>33 30</td>
<td>1,215 62</td>
<td></td>
<td>1,215 62</td>
<td>927 96</td>
<td>2,143 58</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>November</td>
<td>281 44</td>
<td>191 34</td>
<td>13 30</td>
<td>13 30</td>
<td>10 969 52</td>
<td>18,068 54</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>December</td>
<td>37 50</td>
<td>130 00</td>
<td>167 50</td>
<td>42 49</td>
<td>71 13</td>
<td>40 00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Totals</td>
<td>2,515 88</td>
<td>5,874 90</td>
<td>2,565 49</td>
<td>13 30</td>
<td>10,969 52</td>
<td>69,169 99</td>
<td>10 30</td>
<td>71 13</td>
<td>40 00</td>
<td>18,068 54</td>
</tr>
</tbody>
</table>

Collected at Head Office.

<table>
<thead>
<tr>
<th>Month</th>
<th>1916</th>
<th>1917</th>
</tr>
</thead>
<tbody>
<tr>
<td>April</td>
<td>32 56</td>
<td>32 56</td>
</tr>
<tr>
<td>May</td>
<td>71 21</td>
<td>71 21</td>
</tr>
<tr>
<td>June</td>
<td>1 80</td>
<td>1 80</td>
</tr>
<tr>
<td>July</td>
<td>264 31</td>
<td>264 31</td>
</tr>
<tr>
<td>August</td>
<td>4 30</td>
<td>4 30</td>
</tr>
<tr>
<td>September</td>
<td>15 90</td>
<td>15 90</td>
</tr>
<tr>
<td>October</td>
<td>15 90</td>
<td>15 90</td>
</tr>
<tr>
<td>November</td>
<td>53 20</td>
<td>53 20</td>
</tr>
<tr>
<td>December</td>
<td>42 49</td>
<td>42 49</td>
</tr>
<tr>
<td>Totals</td>
<td>1,932 73</td>
<td>1,935 28</td>
</tr>
<tr>
<td>March</td>
<td>160 98</td>
<td>160 98</td>
</tr>
<tr>
<td>Totals</td>
<td>1,932 73</td>
<td>2,874 97</td>
</tr>
<tr>
<td>Grand totals</td>
<td>4,418 56</td>
<td>20,883 51</td>
</tr>
</tbody>
</table>

DEPARTMENT OF THE INTERIOR

8 GEORGE V, A. 1918
<table>
<thead>
<tr>
<th>No.</th>
<th>Mill Owner</th>
<th>Location of Mill</th>
<th>Berth No.</th>
<th>Kind of Power</th>
<th>Horse Power</th>
<th>Capacity per 10 hours</th>
<th>Species of Timber cut</th>
<th>Lumber</th>
<th>Log Count</th>
<th>Shingle bolts</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Okanagan Sawmills Ltd.</td>
<td>Enderby</td>
<td>238</td>
<td>Steam</td>
<td>500</td>
<td>80 M.</td>
<td>Fir, Cedar</td>
<td>635,174</td>
<td>5,137</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>540</td>
<td>Steam</td>
<td>500</td>
<td>80 M.</td>
<td>White pine, Bull's</td>
<td>151,115</td>
<td>1,339</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>E. G. Wallinder.</td>
<td>Kamloops</td>
<td>336</td>
<td>Portable</td>
<td>800</td>
<td>150 M.</td>
<td>Fir, Yellow pine</td>
<td>20,000</td>
<td>93,665</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Adams River Lumber Co.</td>
<td>Chase</td>
<td>432</td>
<td>Steam</td>
<td>800</td>
<td>150 M.</td>
<td>Yellow and white pine</td>
<td>9,363,191</td>
<td>2,134</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>437</td>
<td>Steam</td>
<td>800</td>
<td>150 M.</td>
<td>Bull, Fir, Cedar,</td>
<td>164,925</td>
<td></td>
<td>109</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Poplar</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Columbia River Lumber Co.</td>
<td>Malakwa</td>
<td>245</td>
<td>Shingle</td>
<td></td>
<td></td>
<td>Shingle bolts</td>
<td>10,424,465</td>
<td>102,975</td>
<td>109</td>
</tr>
<tr>
<td></td>
<td>Totals</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SCHEDULE C.—Showing the Mills (including the Portable Mills) operating within the Kamloops Agency, under Government Permits, for the fiscal year ending March 31, 1917. There are no mills operating under Government Permits within the Kamloops Agency.


<table>
<thead>
<tr>
<th>Particulars</th>
<th>Number, etc.</th>
<th>As compared with previous year.</th>
<th>As compared with previous year.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Letters received</td>
<td>12,691</td>
<td>182</td>
<td></td>
</tr>
<tr>
<td>Letters written</td>
<td>11,449</td>
<td>1,164</td>
<td></td>
</tr>
<tr>
<td>Permits subject to dues issued</td>
<td>77</td>
<td>31</td>
<td></td>
</tr>
<tr>
<td>Free permits issued</td>
<td>285</td>
<td></td>
<td>41</td>
</tr>
<tr>
<td>Seizures made</td>
<td>3</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Mill returns received and verified</td>
<td>349</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>Mills operating under government license</td>
<td>4</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Quantity of Lumber, manufactured under license</td>
<td>10,424,406</td>
<td>3,883</td>
<td></td>
</tr>
<tr>
<td>Hay permits issued</td>
<td>13</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

REPORT OF CROWN TIMBER AGENT, NEW WESTMINSTER.

Annual report of this agency for the fiscal year ended March 31, last, comprising schedule A, statement of receipts, $92,764.45, or $15,654.76 more than the amount collected in the preceding year, and which figures are exclusive of the amount collected at head office.

Schedule B, operations under license, shows the quantity of timber thus accounted for as:

- Saw logs: 67,431,496 feet b.m.
- Piling and poles: 33,532 lineal ft.
- Shingle bolts: 32,559.31 cords.
- Cordwood: 817.83 cords.

A slight decrease in the quantity of sawlogs in comparison with the preceding year will be observed, which fact is explained by the weather conditions during the past winter. Shingle bolts, however, show a considerable increase. On lands under homestead entry the following quantity of timber was cut under permit:

- Saw logs: 908,664 feet b.m.
- Shingle bolts: 10,152.63 cords.
- Piling and poles: 12,330 lineal feet.
- Railway ties: 3,746 pieces.
- Cordwood: 400 cords.

Timber accounted for under permits issued to the owners of lands sold, wherein the timber is reserved to the Crown:

- Saw logs: 7,515,799 feet b.m.
- Shingle bolts: 4,883 cords.
- Piling and poles: 42,555 lineal ft.
- Railway ties: 1,314 pieces.
- Cordwood: 390 cords.
Timber cut on vacant Dominion lands under permit:

<table>
<thead>
<tr>
<th></th>
<th>feet b.m</th>
<th>cords</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sawlogs</td>
<td>4,407,030</td>
<td></td>
</tr>
<tr>
<td>Shingle bolts</td>
<td>3,506.47</td>
<td></td>
</tr>
<tr>
<td>Cordwood</td>
<td>70.5</td>
<td></td>
</tr>
</tbody>
</table>

Timber cut by the Western Canada Power Company, Limited, on flooded lands at Stave lake, under special arrangement with the department:

<table>
<thead>
<tr>
<th></th>
<th>feet b.m</th>
<th>cords</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sawlogs</td>
<td>219,677</td>
<td>134</td>
</tr>
</tbody>
</table>

Timber cut without authority, and accounted for as under seizure:

<table>
<thead>
<tr>
<th></th>
<th>feet b.m</th>
<th>cords</th>
<th>lineal feet</th>
<th>cords</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sawlogs</td>
<td>293,897</td>
<td>570.05</td>
<td>6,900</td>
<td>94.5</td>
</tr>
<tr>
<td>Shingle bolts</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Piling and poles</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cordwood</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Schedule “D” shows that the general work of the office has been well maintained, all of which is respectfully submitted.

E. W. BECKETT,  
*Crown Timber Agent.*
**Schedule A.—Statement of Receipts from Crown Timber Agency at New Westminster, for fiscal year ending March 31, 1917.**

<table>
<thead>
<tr>
<th>Month</th>
<th>Bonus under License. $</th>
<th>Ground Rent under License. $</th>
<th>Royalty Dues under License. $</th>
<th>Permit Fees, Dues and Rental. $</th>
<th>Seizures $</th>
<th>Total Timber. $</th>
<th>Grazing Land Rental. $</th>
<th>Total. $</th>
</tr>
</thead>
<tbody>
<tr>
<td>April</td>
<td>4,874 51</td>
<td>5,695 86</td>
<td>552 76</td>
<td>234 29</td>
<td>11,357 42</td>
<td>11,357 42</td>
<td></td>
<td></td>
</tr>
<tr>
<td>May</td>
<td>6,913 31</td>
<td>1,564 56</td>
<td>3,814 00</td>
<td>44 75</td>
<td>12,336 62</td>
<td>12,336 62</td>
<td></td>
<td></td>
</tr>
<tr>
<td>June</td>
<td>3,437 62</td>
<td>2,126 94</td>
<td>4,108 40</td>
<td>295 06</td>
<td>10,266 22</td>
<td>10,266 22</td>
<td></td>
<td></td>
</tr>
<tr>
<td>July</td>
<td>122 61</td>
<td>4,788 98</td>
<td>873 93</td>
<td>103 46</td>
<td>5,899 98</td>
<td>5,899 98</td>
<td></td>
<td></td>
</tr>
<tr>
<td>August</td>
<td>211 64</td>
<td>9,358 47</td>
<td>1,228 81</td>
<td>0 00</td>
<td>10,798 92</td>
<td>10,798 92</td>
<td></td>
<td></td>
</tr>
<tr>
<td>September</td>
<td>4,635 00</td>
<td>335 36</td>
<td>1,369 45</td>
<td>19 00</td>
<td>6,349 81</td>
<td>6,349 81</td>
<td></td>
<td></td>
</tr>
<tr>
<td>October</td>
<td>2 00</td>
<td>9,764 68</td>
<td>75 17</td>
<td>96 00</td>
<td>10,620 45</td>
<td>10,620 45</td>
<td></td>
<td></td>
</tr>
<tr>
<td>November</td>
<td>348 75</td>
<td>3,711 61</td>
<td>2,654 38</td>
<td>138 84</td>
<td>6,653 99</td>
<td>6,653 99</td>
<td></td>
<td></td>
</tr>
<tr>
<td>December</td>
<td>17 06</td>
<td>10 60</td>
<td>2,588 39</td>
<td>518 07</td>
<td>3,158 52</td>
<td>3,158 52</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**1917.**

<table>
<thead>
<tr>
<th>Month</th>
<th>Bonus under License. $</th>
<th>Ground Rent under License. $</th>
<th>Royalty Dues under License. $</th>
<th>Permit Fees, Dues and Rental. $</th>
<th>Seizures $</th>
<th>Total Timber. $</th>
<th>Grazing Land Rental. $</th>
<th>Total. $</th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td></td>
<td>7,984 76</td>
<td>147 75</td>
<td>8,132 51</td>
<td>0 36</td>
<td>8,132 87</td>
<td></td>
<td></td>
</tr>
<tr>
<td>February</td>
<td></td>
<td>1,065 67</td>
<td>2,315 97</td>
<td>136 50</td>
<td>3,518 14</td>
<td>3,518 14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>March</td>
<td>18 87</td>
<td>224 96</td>
<td>3,027 82</td>
<td>132 10</td>
<td>3,506 15</td>
<td>3,506 15</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Totals** | 8,107 96 | 13,006 64 | 52,012 50 | 18,464 40 | 1,172 24 | 92,763 73 | 0 72 | 92,764 45 |

**Collected at head office:**

<table>
<thead>
<tr>
<th>Month</th>
<th>Bonus under License. $</th>
<th>Ground Rent under License. $</th>
<th>Royalty Dues under License. $</th>
<th>Permit Fees, Dues and Rental. $</th>
<th>Seizures $</th>
<th>Total Timber. $</th>
<th>Grazing Land Rental. $</th>
<th>Total. $</th>
</tr>
</thead>
<tbody>
<tr>
<td>April</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>May</td>
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<td></td>
</tr>
<tr>
<td>June</td>
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</tr>
<tr>
<td>July</td>
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<tr>
<td>August</td>
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<td></td>
</tr>
<tr>
<td>September</td>
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</tr>
<tr>
<td>October</td>
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<td></td>
</tr>
<tr>
<td>November</td>
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</tr>
<tr>
<td>December</td>
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<td></td>
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<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**1917.**

<table>
<thead>
<tr>
<th>Month</th>
<th>Bonus under License. $</th>
<th>Ground Rent under License. $</th>
<th>Royalty Dues under License. $</th>
<th>Permit Fees, Dues and Rental. $</th>
<th>Seizures $</th>
<th>Total Timber. $</th>
<th>Grazing Land Rental. $</th>
<th>Total. $</th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>February</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>March</td>
<td>8 80</td>
<td></td>
<td></td>
<td></td>
<td>3 80</td>
<td>3 80</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Totals** | 8 80 | 3 80 | 3 80 | 3 80 |

**Grand totals** | 8,107 95 | 13,010 44 | 52,012 50 | 18,464 40 | 1,172 24 | 92,767 52 | 0 72 | 92,768 25 |
<table>
<thead>
<tr>
<th>Mill-Owner</th>
<th>Log Count</th>
<th>Average per Log</th>
<th>Piling and Poles</th>
<th>Shingle Bolts</th>
<th>Date of Last Return</th>
<th>Cordwood</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brunette Saw Mill Co., Ltd.</td>
<td>1,305</td>
<td>824</td>
<td>351</td>
<td>819</td>
<td>814-8</td>
<td>12 Mar. 17</td>
</tr>
<tr>
<td>Abbotsford Timber and Trading Co.</td>
<td>15,746</td>
<td>10,193</td>
<td>553</td>
<td>466-2</td>
<td>32,872</td>
<td>32,872</td>
</tr>
<tr>
<td>Campbell River Lumber Co., Ltd.</td>
<td>18,836</td>
<td>18,836</td>
<td>600</td>
<td>653-6</td>
<td>1,822-5</td>
<td>1,917-25</td>
</tr>
<tr>
<td>M. B. King Lumber Co., Ltd.</td>
<td>18,835</td>
<td>19,235</td>
<td>1,300</td>
<td>678-8</td>
<td>3,600-1</td>
<td>2,780</td>
</tr>
<tr>
<td>Cheek Lumber Co.</td>
<td>3,948</td>
<td>4,248</td>
<td></td>
<td>573-1</td>
<td>1,281-7</td>
<td>3,616-17</td>
</tr>
<tr>
<td>Pacific Shingle Co., Ltd.</td>
<td>4,506</td>
<td>4,506</td>
<td></td>
<td>147-4</td>
<td>1,280-5</td>
<td>290-5</td>
</tr>
<tr>
<td>Port Moody Shingle Co., Ltd.</td>
<td>9,956</td>
<td>9,956</td>
<td>400</td>
<td>750-9</td>
<td>3,000-6</td>
<td>3,634-62</td>
</tr>
<tr>
<td>British Canadian Lbr. Corp.</td>
<td>2,836</td>
<td>2,836</td>
<td></td>
<td>783-6</td>
<td>2,800-6</td>
<td>2,800-6</td>
</tr>
<tr>
<td>Stoltze Manufacturing Co., Ltd.</td>
<td>2,659</td>
<td>2,659</td>
<td></td>
<td>843-6</td>
<td>2,800-7</td>
<td>2,800-7</td>
</tr>
<tr>
<td>Pitt River Shingle Co., Ltd.</td>
<td>17,221</td>
<td>16,295</td>
<td>2,219</td>
<td>742-9</td>
<td>1,213</td>
<td>1,213</td>
</tr>
<tr>
<td>British Empire Trust Co.</td>
<td>4,596</td>
<td>4,596</td>
<td></td>
<td>749-7</td>
<td>2,800-7</td>
<td>2,800-7</td>
</tr>
<tr>
<td>H. P. Sullivan</td>
<td>3,948</td>
<td>3,948</td>
<td></td>
<td>749-7</td>
<td>2,800-7</td>
<td>2,800-7</td>
</tr>
<tr>
<td>U. Tamaki</td>
<td>2,836</td>
<td>2,836</td>
<td></td>
<td>783-6</td>
<td>2,800-6</td>
<td>2,800-6</td>
</tr>
<tr>
<td>B. Willson</td>
<td>2,836</td>
<td>2,836</td>
<td></td>
<td>783-6</td>
<td>2,800-6</td>
<td>2,800-6</td>
</tr>
<tr>
<td>E. G. English and P. McCoy</td>
<td>105</td>
<td>105</td>
<td></td>
<td>1,294-6</td>
<td>2,800-6</td>
<td>2,800-6</td>
</tr>
<tr>
<td>P. McCoy</td>
<td>4,412</td>
<td>4,412</td>
<td></td>
<td>992-8</td>
<td>2,800-6</td>
<td>2,800-6</td>
</tr>
<tr>
<td>R. T. Smith and C. H. Zeigler.</td>
<td>813</td>
<td>613</td>
<td>200</td>
<td>848-6</td>
<td>2,800-7</td>
<td>2,800-7</td>
</tr>
<tr>
<td>R. C. Morrison</td>
<td>2,659</td>
<td>2,659</td>
<td></td>
<td>848-6</td>
<td>2,800-7</td>
<td>2,800-7</td>
</tr>
<tr>
<td>Jenkins Estate, Ltd.</td>
<td>17,221</td>
<td>16,295</td>
<td>2,219</td>
<td>742-9</td>
<td>1,213</td>
<td>1,213</td>
</tr>
<tr>
<td>R. V. Gray et al.</td>
<td>4,596</td>
<td>4,596</td>
<td></td>
<td>749-7</td>
<td>2,800-7</td>
<td>2,800-7</td>
</tr>
<tr>
<td>John Oliver</td>
<td>2,836</td>
<td>2,836</td>
<td></td>
<td>783-6</td>
<td>2,800-6</td>
<td>2,800-6</td>
</tr>
<tr>
<td>G. S. Macgowan</td>
<td>102,142</td>
<td>99,578</td>
<td>5,833</td>
<td>33,892</td>
<td>33,892</td>
<td>1,625</td>
</tr>
<tr>
<td>Vancouver Power Co., Ltd.</td>
<td>46</td>
<td>46</td>
<td>261-4</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Schedule B.—Showing the Saw-mills operating within the New Westminster, B.C., Agency under Government License, for the fiscal year ending March 31, 1917.

<table>
<thead>
<tr>
<th>Mill-Owner</th>
<th>Location of Mill</th>
<th>Berth No.</th>
<th>Kind of Power</th>
<th>Horse Power</th>
<th>Capacity per 10 Hours</th>
<th>Species of Timber Cut</th>
<th>Manufactured</th>
<th>Sold</th>
<th>On Hand</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brunette Saw Mill Co., Ltd.</td>
<td>New Westminster</td>
<td>33 (2), 432,511</td>
<td>Steam</td>
<td>500</td>
<td>100,000</td>
<td>Fir, cedar, hemlock,</td>
<td>675,498</td>
<td>675,498</td>
<td></td>
</tr>
<tr>
<td>Abbotsford Timber and Trading Co.</td>
<td>Abbotsford</td>
<td>57, 81, 259</td>
<td>&quot;</td>
<td>500</td>
<td>125,000</td>
<td>Fir, cedar, hemlock</td>
<td>7,083,401</td>
<td>7,083,401</td>
<td></td>
</tr>
<tr>
<td>Campbell River Lumber Co., Ltd.</td>
<td>White Rock</td>
<td>&quot; B &quot;</td>
<td>&quot; and elect.</td>
<td>700</td>
<td>50,000</td>
<td>&quot;</td>
<td>12,369,101</td>
<td>12,369,101</td>
<td></td>
</tr>
<tr>
<td>M. B. King Lumber Co., Ltd.</td>
<td>Newton, B.C.</td>
<td>&quot; H &quot;</td>
<td>&quot;</td>
<td>225</td>
<td>45,000</td>
<td>&quot;</td>
<td>2,434,400</td>
<td>2,434,400</td>
<td></td>
</tr>
<tr>
<td>Timberland Lumber Co., Ltd.</td>
<td>Craig, B.C.</td>
<td>&quot; R &quot;</td>
<td>Steam</td>
<td>175</td>
<td>35,000</td>
<td>&quot;</td>
<td>12,974,725</td>
<td>12,974,725</td>
<td></td>
</tr>
<tr>
<td>Chemn Lumber Co.</td>
<td>Rosedale</td>
<td>&quot; A &quot;</td>
<td>&quot;</td>
<td>150</td>
<td>90,000</td>
<td>Cedar only</td>
<td>3,371,271</td>
<td>3,371,271</td>
<td></td>
</tr>
<tr>
<td>Pacific Shingle Co., Ltd.</td>
<td>Port Coquitlam, B.C.</td>
<td>P.C. 286, 562</td>
<td>&quot;</td>
<td>60</td>
<td>90,000</td>
<td>&quot;</td>
<td>7,505,247</td>
<td>7,505,247</td>
<td></td>
</tr>
<tr>
<td>Port Moody Shingle Co., Ltd.</td>
<td>Port Moody X</td>
<td>556 and 1294</td>
<td>&quot;</td>
<td>750</td>
<td>150,000</td>
<td>&quot;</td>
<td>135,834</td>
<td>135,834</td>
<td></td>
</tr>
<tr>
<td>British Canadian Lbr. Corporation, Vancouver</td>
<td>Vancouver</td>
<td>36, 110</td>
<td>&quot;</td>
<td>120</td>
<td>350,000</td>
<td>Fir, cedar, hemlock</td>
<td>4,370,112</td>
<td>4,370,112</td>
<td></td>
</tr>
<tr>
<td>Roht McNair Shingle Co.</td>
<td>Port Moody</td>
<td>83, 585</td>
<td>&quot;</td>
<td>120</td>
<td>350,000</td>
<td>&quot;</td>
<td>520,172</td>
<td>520,172</td>
<td></td>
</tr>
<tr>
<td>Stoltze Manufacturing Co., Ltd.</td>
<td>Ruskin, B.C.</td>
<td>106</td>
<td>&quot;</td>
<td>120</td>
<td>350,000</td>
<td>&quot;</td>
<td>1,605,760</td>
<td>1,605,760</td>
<td></td>
</tr>
<tr>
<td>Pitt River Shingle Co., Ltd.</td>
<td>Port Coquitlam</td>
<td>99, 314</td>
<td>&quot;</td>
<td>75</td>
<td>50,000</td>
<td>&quot;</td>
<td>12,106,640</td>
<td>12,106,640</td>
<td></td>
</tr>
<tr>
<td>British Empire Trust Co.</td>
<td>No. mill.</td>
<td>126</td>
<td>&quot;</td>
<td>80</td>
<td>90,000</td>
<td>&quot;</td>
<td>2,219,313</td>
<td>2,219,313</td>
<td></td>
</tr>
<tr>
<td>H. B. Sullivan</td>
<td>&quot;</td>
<td>370</td>
<td>&quot;</td>
<td>80</td>
<td>90,000</td>
<td>&quot;</td>
<td>135,834</td>
<td>135,834</td>
<td></td>
</tr>
<tr>
<td>U. Tanaki</td>
<td>&quot;</td>
<td>494</td>
<td>&quot;</td>
<td>80</td>
<td>90,000</td>
<td>&quot;</td>
<td>4,370,112</td>
<td>4,370,112</td>
<td></td>
</tr>
<tr>
<td>B. Wilson</td>
<td>&quot;</td>
<td>361, 362</td>
<td>&quot;</td>
<td>80</td>
<td>90,000</td>
<td>&quot;</td>
<td>520,172</td>
<td>520,172</td>
<td></td>
</tr>
<tr>
<td>E. G. English and P. McCoy</td>
<td>&quot;</td>
<td>88</td>
<td>&quot;</td>
<td>80</td>
<td>90,000</td>
<td>&quot;</td>
<td>1,605,760</td>
<td>1,605,760</td>
<td></td>
</tr>
<tr>
<td>P. McCoy</td>
<td>&quot;</td>
<td>366</td>
<td>&quot;</td>
<td>80</td>
<td>90,000</td>
<td>&quot;</td>
<td>12,106,640</td>
<td>12,106,640</td>
<td></td>
</tr>
<tr>
<td>K. T. Smith and C. H. Zeigler</td>
<td>&quot;</td>
<td>400</td>
<td>&quot;</td>
<td>80</td>
<td>90,000</td>
<td>&quot;</td>
<td>1,605,760</td>
<td>1,605,760</td>
<td></td>
</tr>
<tr>
<td>R. C. Morrison</td>
<td>&quot;</td>
<td>338</td>
<td>&quot;</td>
<td>80</td>
<td>90,000</td>
<td>&quot;</td>
<td>12,106,640</td>
<td>12,106,640</td>
<td></td>
</tr>
<tr>
<td>Jenkins Estate, Ltd.</td>
<td>&quot;</td>
<td>330</td>
<td>&quot;</td>
<td>80</td>
<td>90,000</td>
<td>&quot;</td>
<td>12,106,640</td>
<td>12,106,640</td>
<td></td>
</tr>
<tr>
<td>R. V. Grosvenor &amp; H. S. Reitlinger</td>
<td>&quot;</td>
<td>&quot; N&quot;, 96, 148, 150, 185, 268</td>
<td>&quot;</td>
<td>80</td>
<td>90,000</td>
<td>&quot;</td>
<td>12,106,640</td>
<td>12,106,640</td>
<td></td>
</tr>
<tr>
<td>John Oliver</td>
<td>&quot;</td>
<td>334</td>
<td>&quot;</td>
<td>80</td>
<td>90,000</td>
<td>&quot;</td>
<td>12,106,640</td>
<td>12,106,640</td>
<td></td>
</tr>
<tr>
<td>G. S. Macgowan</td>
<td>&quot;</td>
<td>69</td>
<td>&quot;</td>
<td>80</td>
<td>90,000</td>
<td>&quot;</td>
<td>12,106,640</td>
<td>12,106,640</td>
<td></td>
</tr>
<tr>
<td>Vancouver Power Co., Ltd.</td>
<td>&quot;</td>
<td>48</td>
<td>&quot;</td>
<td>80</td>
<td>90,000</td>
<td>&quot;</td>
<td>12,106,640</td>
<td>12,106,640</td>
<td></td>
</tr>
</tbody>
</table>

**Total:** 67,431,496
**REPORT OF CROWN TIMBER AGENT, REVELSTOKE.**

This is the annual report of this agency for the fiscal year ended March 31, 1917, consisting of schedule A, statement of receipts, which shows the collections in this office as being $30,940.25, or an increase of $10,369.62 over the preceding year, to which please add the amount collected at head office. Schedule B gives the quantity of timber cut under license, being as follows:

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Number, etc.</th>
<th>As compared with previous year.</th>
<th>As compared with previous year.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Letters received</td>
<td>2,891</td>
<td>6</td>
<td>164</td>
</tr>
<tr>
<td>Letters written</td>
<td>5,157</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>Permits subject to dues issued</td>
<td>178</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Free permits issued</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Seizures made</td>
<td>16</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Mill returns received and verified</td>
<td>822</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Mills operating under Government license</td>
<td>12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Government permits</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quantity of lumber manufactured under license</td>
<td>67,431,496</td>
<td>3,240,996</td>
<td></td>
</tr>
<tr>
<td>&quot; sold</td>
<td>67,431,496</td>
<td>3,240,996</td>
<td></td>
</tr>
<tr>
<td>&quot; of logs on hand</td>
<td>not scaled</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hay permits issued</td>
<td>5,853</td>
<td>2,564</td>
<td></td>
</tr>
</tbody>
</table>

which is a large increase over the preceding year.

In addition to the above the following timber was cut under the different headings enumerated hereunder:

- 25,307,038 feet b.m. sawlogs.
- 1,390 cords of shingle bolts.
- 783,222 fence posts.
- 477 cords of cordwood.
- 22,780 lineal feet piling.
- 470 telephone poles.
- 2 cars waste filling.

Vacant Dominion lands permits were issued to cut:

- 263,000 feet b.m. sawlogs.
- 10,800 lineal feet building logs and piling.
- 100 fence rails.
- 114,000 fence posts.
- 2,822 cords of cordwood.
- 200 railway ties.
- 231 cords of shingle bolts.
- 1,000 roof poles.

On lands held under homestead entry permits were issued to cut:

- 100,000 feet b.m. sawlogs.
- 30 cords of cordwood.

Vacant Dominion lands permits were issued to cut:

- 20,000 feet b.m. sawlogs.
- 3,200 lineal feet building logs and piling.
- 500 fence posts.
- 4 cords of shingle bolts.
- 23 cords of cordwood.
- 50 fence rails.

Schedule C, portable saw-mills operating under government permit.
Schedule D, general office return, showing comparison with previous year.
All of which is respectfully submitted.

T. J. WADMAN,
Crown Timber Agent.
### Schedule A.—Statement of Receipts from Crown Timber Agency at Revelstoke, for fiscal year ending March 31, 1917.

<table>
<thead>
<tr>
<th>Month</th>
<th>Bonus under License</th>
<th>Ground Rent under License</th>
<th>Royalty Due under License</th>
<th>Permit Fees, Dues and Rental</th>
<th>Seizures</th>
<th>Total Timber</th>
<th>Grazing Land Rental</th>
<th>Fire-guards Fees</th>
<th>Registration Fees</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>April</td>
<td>361 34</td>
<td>1,669 65</td>
<td>2 00</td>
<td>2,632 99</td>
<td>5 20</td>
<td>42 30</td>
<td>4,882 84</td>
<td>201 10</td>
<td>4,505 92</td>
<td>7 75</td>
</tr>
<tr>
<td>May</td>
<td>1,568 50</td>
<td>3,267 29</td>
<td>4 25</td>
<td>4,840 04</td>
<td>7 75</td>
<td>1,535 07</td>
<td>5,505 07</td>
<td>3 35</td>
<td>5,501 42</td>
<td>1,538 12</td>
</tr>
<tr>
<td>June</td>
<td>154 10</td>
<td>4,248 92</td>
<td>7 75</td>
<td>4,505 92</td>
<td>10 50</td>
<td>581 13</td>
<td>5,307 13</td>
<td>200 00</td>
<td>5,307 13</td>
<td>201 10</td>
</tr>
<tr>
<td>July</td>
<td>237 75</td>
<td>5,088 88</td>
<td>7 75</td>
<td>3,701 77</td>
<td>1 10</td>
<td>1 10</td>
<td>3,701 77</td>
<td>1 10</td>
<td>3,701 77</td>
<td>1 10</td>
</tr>
<tr>
<td>August</td>
<td>7 75</td>
<td>5,088 88</td>
<td>7 75</td>
<td>3,701 77</td>
<td>10 50</td>
<td>2,177 38</td>
<td>2,177 38</td>
<td>31 00</td>
<td>2,177 38</td>
<td>31 00</td>
</tr>
<tr>
<td>September</td>
<td>2,177 38</td>
<td>25,571 79</td>
<td>25,571 79</td>
<td>30,656 02</td>
<td>6 40</td>
<td>31 00</td>
<td>30,906 25</td>
<td>31 00</td>
<td>30,906 25</td>
<td>31 00</td>
</tr>
<tr>
<td>October</td>
<td>2,177 38</td>
<td>2,335 44</td>
<td>25,571 79</td>
<td>31,326 84</td>
<td>6 40</td>
<td>211 83</td>
<td>31,937 67</td>
<td>31 00</td>
<td>31,937 67</td>
<td>31 00</td>
</tr>
<tr>
<td>November</td>
<td>30,906 25</td>
<td>3,005 86</td>
<td>25,571 79</td>
<td>31,576 07</td>
<td>6 40</td>
<td>211 83</td>
<td>31,937 67</td>
<td>31 00</td>
<td>31,937 67</td>
<td>31 00</td>
</tr>
</tbody>
</table>

**Collected at Head Office**

<table>
<thead>
<tr>
<th>Month</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1916</td>
<td>7 60</td>
</tr>
<tr>
<td>April</td>
<td>7 60</td>
</tr>
<tr>
<td>May</td>
<td>286 05</td>
</tr>
<tr>
<td>June</td>
<td>286 05</td>
</tr>
<tr>
<td>July</td>
<td>286 05</td>
</tr>
<tr>
<td>August</td>
<td>286 05</td>
</tr>
<tr>
<td>September</td>
<td>286 05</td>
</tr>
<tr>
<td>October</td>
<td>286 05</td>
</tr>
<tr>
<td>November</td>
<td>286 05</td>
</tr>
<tr>
<td>December</td>
<td>286 05</td>
</tr>
<tr>
<td>January</td>
<td>30,906 25</td>
</tr>
<tr>
<td>February</td>
<td>3,005 86</td>
</tr>
<tr>
<td>March</td>
<td>25,571 79</td>
</tr>
<tr>
<td>Totals</td>
<td>670 82</td>
</tr>
<tr>
<td>Grand totals</td>
<td>2,100 00</td>
</tr>
<tr>
<td>-----</td>
<td>------------</td>
</tr>
<tr>
<td>3</td>
<td>Forest Mills of B.C., Ltd.</td>
</tr>
</tbody>
</table>

Schedule C.—Showing the Mills (including the Portable Mills) operating within the Revelstoke Agency, under Government Permits, for the fiscal year ending March 31, 1917.
REPORT OF THE CHIEF INSPECTOR OF CROWN TIMBER OFFICES.

I beg to submit the annual report of my office for the year ended March 31, 1917, appended to which are the following statements, namely:

A.—Business transacted at the several Crown Timber offices and amount of revenue collected.

B.—Amount of lumber and other products of timber cut and disposed of by licensees and holders of permit berths.

C.—Amount of timber covered by permits issued to actual settlers.

D.—Number of hay permits issued on Dominion School and Forestry lands, and tons of hay covered thereby, and amount of revenue collected thereon.

The year’s business shows a satisfactory increase in revenue over that of the previous year, as will be seen from the figures given in statement A.

The output of lumber at the mills, manufacturing wholly from Dominion timber, during the year, was 309,580,991 feet b.m., an excess amount of upwards of 50,000,000 feet over the previous year.

The demand for lumber supplies throughout the farming districts in the West is active, notwithstanding the great advance in price, due to well known causes.

The supply, apart from the manufacture within the Prairie provinces, comes principally from British Columbia, and the lake of the Woods and Rainy Lake districts in Western Ontario. Practically no lumber is being imported, at the present time, from the United States.

In the round of my inspection of the offices, during the year, I found an increased interest being taken by the officials, in carrying on the timber work, and an improvement in the service having taken place.

Collection of revenue is being kept up closely, and practically no loss occurred.

Notwithstanding the activity shown by the timber inspectors in prosecuting their duties, considerable trespassing took place, as indicated from the figures given hereunder of seizures:—

16,435,025 feet b.m. of lumber.
350,461 linear feet of round timber.
49,950 railway ties.
473,013 linear feet of mining timber.
18,715 cords of wood.
370 cords of shingle bolts.

The system of yearly audit of the camp and mill books of mill operators is being carried forward promptly by my assistant, Mr. H. W. Clarke, who continues to render most valuable service to my office.

E. F. STEPHENSON,
Chief Inspector, O. T. Agencies.
### Statement A.—Summary of work performed and revenue collected at the respective Crown Timber Offices, during the year ended March 31, 1917.

<table>
<thead>
<tr>
<th>Agency</th>
<th>Timber and Grazing</th>
<th>Forestry</th>
<th>School Lands</th>
<th>Revenue</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ground Rent</td>
<td>Royalty on Sales</td>
<td>Timber Permits</td>
<td>Timber Seizures</td>
</tr>
<tr>
<td>Battleford</td>
<td>674</td>
<td>254</td>
<td>304</td>
<td>250</td>
</tr>
<tr>
<td>Calgary</td>
<td>33</td>
<td>46</td>
<td>231</td>
<td>255</td>
</tr>
<tr>
<td>Dauphin</td>
<td>75</td>
<td>202</td>
<td>255</td>
<td>283</td>
</tr>
<tr>
<td>Edmonton</td>
<td>51</td>
<td>63</td>
<td>1,187</td>
<td>74</td>
</tr>
<tr>
<td>Grande Prairie</td>
<td>410</td>
<td>159</td>
<td>296</td>
<td>38</td>
</tr>
<tr>
<td>High Prairie</td>
<td>42</td>
<td>69</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Humboldt</td>
<td>62</td>
<td>59</td>
<td>170</td>
<td>55</td>
</tr>
<tr>
<td>Kamloops</td>
<td>52</td>
<td>14</td>
<td>37</td>
<td>55</td>
</tr>
<tr>
<td>Lethbridge</td>
<td>74</td>
<td>74</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Maple Creek</td>
<td>89</td>
<td>39</td>
<td>232</td>
<td>1,574</td>
</tr>
<tr>
<td>Medicine Hat</td>
<td>13</td>
<td>13</td>
<td>116</td>
<td>973</td>
</tr>
<tr>
<td>Moosejaw</td>
<td>61</td>
<td>61</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>New Westminster</td>
<td>6</td>
<td>184</td>
<td>162</td>
<td>17</td>
</tr>
<tr>
<td>Peace River</td>
<td>6</td>
<td>45</td>
<td>5</td>
<td>133</td>
</tr>
<tr>
<td>Prince Albert</td>
<td>4</td>
<td>38</td>
<td>44</td>
<td>139</td>
</tr>
<tr>
<td>Red Deer</td>
<td>1</td>
<td>73</td>
<td>25</td>
<td>111</td>
</tr>
<tr>
<td>Revelstoke</td>
<td>1</td>
<td>131</td>
<td>9</td>
<td>77</td>
</tr>
<tr>
<td>Saskatchewan</td>
<td>3</td>
<td>38</td>
<td>72</td>
<td>78</td>
</tr>
<tr>
<td>Swift Current</td>
<td>1</td>
<td>10</td>
<td>17</td>
<td>34</td>
</tr>
<tr>
<td>The Pas</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Yorkton</td>
<td>3</td>
<td>54</td>
<td>3</td>
<td>92</td>
</tr>
<tr>
<td>Weyburn</td>
<td>3</td>
<td>3</td>
<td>86</td>
<td>141</td>
</tr>
<tr>
<td>Winnipeg</td>
<td>109</td>
<td>63</td>
<td>1,660</td>
<td>80</td>
</tr>
<tr>
<td>Total</td>
<td>7</td>
<td>516</td>
<td>419</td>
<td>6,196</td>
</tr>
<tr>
<td>Previous Year</td>
<td>13</td>
<td>563</td>
<td>358</td>
<td>6,335</td>
</tr>
</tbody>
</table>

N.B. — Revenue, exclusive of payments made to the department on account of the respective agencies.
**STATEMENT B.—Showing Manufacture and Sale of Timber Products cut by holders of ended**

<table>
<thead>
<tr>
<th>Agency</th>
<th>Lumber Ft. B.M.</th>
<th>Lath.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calgary</td>
<td>13,005,409</td>
<td>17,141,651</td>
</tr>
<tr>
<td>Edmonton</td>
<td>25,755,289</td>
<td>31,672,651</td>
</tr>
<tr>
<td>Kamloops</td>
<td>10,424,405</td>
<td>10,424,405</td>
</tr>
<tr>
<td>New Westminster</td>
<td>67,431,496</td>
<td>67,431,496</td>
</tr>
<tr>
<td>Prince Albert</td>
<td>103,900,989</td>
<td>104,877,540</td>
</tr>
<tr>
<td>Revelstoke</td>
<td>25,307,638</td>
<td>25,307,638</td>
</tr>
<tr>
<td>Winnipeg</td>
<td>31,364,987</td>
<td>23,357,798</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>277,189,607</td>
<td>286,191,979</td>
</tr>
</tbody>
</table>

Timber cut under permit for commercial

<table>
<thead>
<tr>
<th>Agency</th>
<th>Lumber Ft. B.M.</th>
<th>Lath.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calgary</td>
<td>2,481,875</td>
<td>3,688,435</td>
</tr>
<tr>
<td>Edmonton</td>
<td>6,807,792</td>
<td>6,791,589</td>
</tr>
<tr>
<td>Kamloops</td>
<td>7,129,767</td>
<td>7,129,767</td>
</tr>
<tr>
<td>New Westminster</td>
<td>13,051,170</td>
<td>13,051,170</td>
</tr>
<tr>
<td>Prince Albert</td>
<td>894,546</td>
<td>1,263,933</td>
</tr>
<tr>
<td>Revelstoke</td>
<td>425,000</td>
<td>425,000</td>
</tr>
<tr>
<td>Winnipeg</td>
<td>1,901,324</td>
<td>1,665,199</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>32,691,384</td>
<td>33,355,153</td>
</tr>
<tr>
<td>Grand total</td>
<td>309,880,991</td>
<td>319,547,192</td>
</tr>
<tr>
<td>Year 1915-1916</td>
<td>248,423,811</td>
<td>300,327,294</td>
</tr>
</tbody>
</table>
Timber Berths on Dominion Lands cut under yearly License during the fiscal year March 31, 1917.

<table>
<thead>
<tr>
<th>Railway Ties</th>
<th>Shingles</th>
<th>Piling and Mining props</th>
<th>Saw Logs</th>
<th>Fence posts</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Manufactured</td>
<td>Bolts</td>
<td>Sold.</td>
<td>Cords</td>
</tr>
<tr>
<td></td>
<td>Sold.</td>
<td>Cords</td>
<td>Lin. Ft.</td>
<td>Pes. cut</td>
</tr>
<tr>
<td>49,950</td>
<td>117,315</td>
<td>22,000</td>
<td>109</td>
<td>39,999</td>
</tr>
<tr>
<td>88,896</td>
<td>1,800</td>
<td>23,250</td>
<td>33,892</td>
<td>1,728,420</td>
</tr>
<tr>
<td>14,216</td>
<td>41,998</td>
<td>62,410</td>
<td>586,184</td>
<td>377,759</td>
</tr>
<tr>
<td>2,503,782</td>
<td>22,943</td>
<td>130,567</td>
<td>Not known.</td>
<td>171,628</td>
</tr>
<tr>
<td>26,631</td>
<td>879,000</td>
<td>20,393</td>
<td>54,935</td>
<td>378,885</td>
</tr>
<tr>
<td>307,009</td>
<td>901,000</td>
<td>62,191</td>
<td>117,345</td>
<td>3,532,679</td>
</tr>
<tr>
<td>1,289,945</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
STATEMENT C.—Timber Material covered by Permits issued at the respective Agencies, principally to Homestead Settlers, during the year ended March 31, 1917.

<table>
<thead>
<tr>
<th>Agency</th>
<th>Lumber and Logs.</th>
<th>Fence Rails</th>
<th>Roof Poles</th>
<th>Fence Posts</th>
<th>Cordwood</th>
<th>Railway Ties</th>
<th>Telegraph and Telephone Poles</th>
<th>Round Timber</th>
<th>Cords Shingle Bolts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ft. B.M.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Battleford</td>
<td>1,332,742</td>
<td>66,690</td>
<td>16,315</td>
<td>39,105</td>
<td>3,063</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calgary</td>
<td>1,534,949</td>
<td>61,375</td>
<td>8,679</td>
<td>137,200</td>
<td>4,940</td>
<td>20,006</td>
<td></td>
<td>6,213,208</td>
<td></td>
</tr>
<tr>
<td>Dauphin</td>
<td>3,979,212</td>
<td>3,949</td>
<td>1,456</td>
<td>56,885</td>
<td>13,250</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Edmonton</td>
<td>6,990,909</td>
<td>1,107,648</td>
<td>210,381</td>
<td>271,230</td>
<td>5,667</td>
<td>714,238</td>
<td></td>
<td>1,340,725</td>
<td></td>
</tr>
<tr>
<td>Grande Prairie</td>
<td>1,887,375</td>
<td>537,571</td>
<td>103,661</td>
<td>120,356</td>
<td>1,411</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>High Prairie</td>
<td>578,737</td>
<td>58,400</td>
<td>11,380</td>
<td>14,700</td>
<td>618</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humboldt</td>
<td>272,281</td>
<td>4,300</td>
<td>800</td>
<td>8,570</td>
<td>69</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kamloops</td>
<td>7,129,767</td>
<td>28,300</td>
<td>7,735</td>
<td>253,302</td>
<td>7,838</td>
<td>20,610</td>
<td>4,992</td>
<td>36,219</td>
<td>1,277</td>
</tr>
<tr>
<td>Lethbridge</td>
<td>103,245</td>
<td>13,455</td>
<td>4,660</td>
<td>12,075</td>
<td>1,822</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maple Creek</td>
<td>340,305</td>
<td>96,336</td>
<td>23,580</td>
<td>170,165</td>
<td>2,576</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medicine Hat</td>
<td>151,155</td>
<td>31,946</td>
<td></td>
<td>16,575</td>
<td>759</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Moosejaw</td>
<td>13,746</td>
<td>357</td>
<td>500</td>
<td>7,334</td>
<td>1,987</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Westm't'r.</td>
<td>13,051,170</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Peace River</td>
<td>3,997,496</td>
<td>589,120</td>
<td>197,034</td>
<td>120,792</td>
<td>1,475</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prince Albert</td>
<td>7,937,508</td>
<td>1,268,382</td>
<td>67,353</td>
<td>131,519</td>
<td>32,042</td>
<td></td>
<td></td>
<td>5,736,940</td>
<td>11</td>
</tr>
<tr>
<td>Red Deer</td>
<td>139,520</td>
<td>10,370</td>
<td>1,308</td>
<td>49,861</td>
<td>1,204</td>
<td></td>
<td>300</td>
<td>39,000</td>
<td>285</td>
</tr>
<tr>
<td>Revelstoke</td>
<td>435,069</td>
<td>150</td>
<td>1,000</td>
<td>114,500</td>
<td>2,875</td>
<td>290</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Saskatoon</td>
<td>49,200</td>
<td>2,200</td>
<td>1,490</td>
<td>12,350</td>
<td>765</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Swift Current</td>
<td></td>
<td>500</td>
<td>355</td>
<td>900</td>
<td>39</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Pas</td>
<td>5,400</td>
<td></td>
<td></td>
<td></td>
<td>39</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yorkton</td>
<td>925,227</td>
<td>11,750</td>
<td>200</td>
<td>10,150</td>
<td>991</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weyburn</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Winnipeg</td>
<td>8,902,006</td>
<td>99,985</td>
<td>31,475</td>
<td>153,755</td>
<td>97,866</td>
<td>380,450</td>
<td>7,015</td>
<td>91,350</td>
<td>10,000 Shingles</td>
</tr>
<tr>
<td>Total</td>
<td>59,493,180</td>
<td>1,092,856</td>
<td>680,961</td>
<td>1,094,874</td>
<td>182,221</td>
<td>1,141,713</td>
<td>12,335</td>
<td>13,666,845</td>
<td>26,697</td>
</tr>
<tr>
<td>Previous Year</td>
<td>61,103,009</td>
<td>4,266,175</td>
<td>1,081,602</td>
<td>1,594,450</td>
<td>153,102</td>
<td>904,902</td>
<td>10,628</td>
<td>Pes.536,234</td>
<td>12,616</td>
</tr>
</tbody>
</table>

E. F. STEPHENSON,  
Inspector.
STATEMENT D.—Showing the number of Hay Permits issued at the several Crown Timber Offices and the amount of hay covered thereby for the year ended March 31, 1917.

<table>
<thead>
<tr>
<th>Agency</th>
<th>Dominion Lands</th>
<th>School Lands</th>
<th>Forestry Lands</th>
<th>Revenue</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Number of Permits Issued.</td>
<td>Tons of Hay.</td>
<td>Number of Permits Issued.</td>
<td>Tons of Hay.</td>
</tr>
<tr>
<td>Battleford</td>
<td>591</td>
<td>5,576</td>
<td>510</td>
<td>7,408</td>
</tr>
<tr>
<td>Calgary</td>
<td>25</td>
<td>400</td>
<td>254</td>
<td>554</td>
</tr>
<tr>
<td>Dauphin</td>
<td>31</td>
<td>2,600</td>
<td>241</td>
<td>3,045</td>
</tr>
<tr>
<td>Edmonton</td>
<td>618</td>
<td>5,715</td>
<td>525</td>
<td>5,355</td>
</tr>
<tr>
<td>Grande Prairie</td>
<td>516</td>
<td>8,942</td>
<td>39</td>
<td>578</td>
</tr>
<tr>
<td>High Prairie</td>
<td>31</td>
<td>513</td>
<td>80</td>
<td>80</td>
</tr>
<tr>
<td>Humboldt</td>
<td>170</td>
<td>2,688</td>
<td>424</td>
<td>8,324</td>
</tr>
<tr>
<td>Kamloops</td>
<td>11</td>
<td>168</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Lethbridge</td>
<td>2</td>
<td>160</td>
<td>41</td>
<td>449</td>
</tr>
<tr>
<td>Maple Creek</td>
<td>232</td>
<td>6,331</td>
<td>446</td>
<td>7,969</td>
</tr>
<tr>
<td>Medicine Hat</td>
<td>146</td>
<td>5,090</td>
<td>113</td>
<td>5,579</td>
</tr>
<tr>
<td>Moosejaw</td>
<td>37</td>
<td>491</td>
<td>750</td>
<td>11,179</td>
</tr>
<tr>
<td>New Westminster</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Peace River</td>
<td>135</td>
<td>1,900</td>
<td>19</td>
<td>227</td>
</tr>
<tr>
<td>Prince Albert</td>
<td>337</td>
<td>3,253</td>
<td>230</td>
<td>3,764</td>
</tr>
<tr>
<td>Red Deer</td>
<td>78</td>
<td>3,829</td>
<td>581</td>
<td>11,198</td>
</tr>
<tr>
<td>Revelstoke</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Saskatoon</td>
<td>72</td>
<td>1,465</td>
<td>532</td>
<td>9,980</td>
</tr>
<tr>
<td>Swift Current</td>
<td>17</td>
<td>1,151</td>
<td>394</td>
<td>5,027</td>
</tr>
<tr>
<td>The Pas</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Yorkton</td>
<td>92</td>
<td>1,476</td>
<td>272</td>
<td>5,500</td>
</tr>
<tr>
<td>Weyburn</td>
<td>86</td>
<td>1,811</td>
<td>385</td>
<td>6,350</td>
</tr>
<tr>
<td>Winnipeg</td>
<td>896</td>
<td>12,672</td>
<td>718</td>
<td>10,221</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>3,834</td>
<td>62,689</td>
<td>6,676</td>
<td>108,227</td>
</tr>
<tr>
<td>Previous year</td>
<td>3,987</td>
<td>58,542</td>
<td>7,316</td>
<td>101,753</td>
</tr>
</tbody>
</table>

E. F. STEPHENSON,
Inspector.

REPORT OF INSPECTOR OF RANCHES, PRINCE ALBERT.

The number of applications for grazing leases has increased considerably in my district during the past year. As to the grazing conditions, the season has been very favourable, although there has been a shortage of hay for winter months, in some parts, owing to the abnormal rainfall during the past summer.

The number of inspections made were 236, the number of miles driven, 4,310, the number of miles travelled by rail, 3,133.

JNO. E. SINCLAIR,
Ranch Inspector.
REPORT OF THE INSPECTOR OF RANCHES, CALGARY.

I beg to report herewith that during the fiscal year which ended March 31, 1917, I travelled 15,483 miles by rail and 7,450 miles by wagon. In the course of the year 4,094 land inspections were made.

GEO. H. CLOAKEY,
Inspector of Ranches.

REPORT OF THE INSPECTOR OF RANCHES, MOOSEJAW.

This report covers only the period from April 1 to October 31, 1916. The period from November 1, 1916, to March 31, 1917, I was engaged in work for the Seed Grain Department.

The work done in connection with this office for the year ending March 31, 1916, is as follows:

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of inspections reported</td>
<td>170</td>
</tr>
<tr>
<td>&quot; quarter-sections covered by reports</td>
<td>527</td>
</tr>
<tr>
<td>&quot; quarter-sections recommended to be leased</td>
<td>401</td>
</tr>
<tr>
<td>&quot; miles travelled by rail</td>
<td>7,781</td>
</tr>
<tr>
<td>&quot; &quot; team</td>
<td>4,168</td>
</tr>
<tr>
<td>&quot; letters received</td>
<td>806</td>
</tr>
<tr>
<td>&quot; &quot; written</td>
<td>298</td>
</tr>
</tbody>
</table>

G. H. LYDIARD,
Inspector of Ranches.

REPORT OF THE INSPECTOR OF RANCHES, MINNEDOSA.

I beg to submit my annual report, covering the transactions of my office, for the fiscal year ending March 31, 1917. All of the work was performed between April 1 and November 1, 1916.

I made 152 inspections, necessitating travelling 9,292 miles by rail, 2,395 miles by wagon, and 608 miles by boat, making a total mileage travelled of 12,355. In all, there were recommended for grazing purposes, 61,945 acres, and for other purposes, 37,265 acres. Applications received during the fiscal year were 153. At the present time there are 101 outstanding inspections.

From November 1, 1916, to March 31, 1917, I was engaged in seed-grain collections, under H. G. Cuttle, Chief Inspector of Dominion Land agencies, at Moosejaw, Sask., working out from the city of Moosejaw.

H. L. BOWYER,
Inspector of Ranches.
REPORT OF INSPECTOR OF RANCHES, MAPLE CREEK.

<table>
<thead>
<tr>
<th>Date</th>
<th>How employed</th>
<th>No. Special Investigations</th>
<th>Miles travelled</th>
<th>Days at Hdqts.</th>
<th>Days off Duty</th>
<th>Total Amount Expenses</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>By Rail</td>
<td>By Wagon</td>
<td></td>
<td></td>
</tr>
<tr>
<td>April</td>
<td>No. ½ Section inspected</td>
<td>168</td>
<td>682</td>
<td>7</td>
<td>174.00</td>
<td></td>
</tr>
<tr>
<td>May</td>
<td>43</td>
<td>170</td>
<td>244</td>
<td>19</td>
<td>76.80</td>
<td></td>
</tr>
<tr>
<td>June</td>
<td>64</td>
<td>1,041</td>
<td>475</td>
<td>8</td>
<td>1,811.60</td>
<td></td>
</tr>
<tr>
<td>July</td>
<td>34</td>
<td>417</td>
<td>269</td>
<td>16</td>
<td>90.85</td>
<td></td>
</tr>
<tr>
<td>August</td>
<td>132</td>
<td>262</td>
<td>810</td>
<td>5</td>
<td>219.15</td>
<td></td>
</tr>
<tr>
<td>September</td>
<td>87</td>
<td>252</td>
<td>527</td>
<td>9</td>
<td>152.00</td>
<td></td>
</tr>
<tr>
<td>October</td>
<td>104</td>
<td>264</td>
<td>551</td>
<td>10</td>
<td>137.50</td>
<td></td>
</tr>
<tr>
<td>November</td>
<td>70</td>
<td>179</td>
<td>521</td>
<td>12</td>
<td>141.25</td>
<td></td>
</tr>
<tr>
<td>December</td>
<td>23</td>
<td>384</td>
<td>251</td>
<td>16</td>
<td>88.80</td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>73</td>
<td>748</td>
<td>24</td>
<td>17</td>
<td>46.80</td>
<td></td>
</tr>
<tr>
<td>February</td>
<td>15</td>
<td>1,644</td>
<td>249</td>
<td>24</td>
<td>3.80</td>
<td></td>
</tr>
<tr>
<td>March</td>
<td>By re-inspection of old leases</td>
<td>243</td>
<td>5,362</td>
<td>156</td>
<td>1,464.25</td>
<td></td>
</tr>
</tbody>
</table>

RUSSELL SEXSMITH, Inspector.

REPORT OF THE SUPERINTENDING ACCOUNTANT.

Statements of revenue collected from various sources during the fiscal year ended March 31, 1917, as follows:

A.—Dominion lands, including Yukon. $4,189,905 55
B.—Ordnance lands. 5,553 26
C.—School lands. 1,699,370 06
D.—Registration fees, Yukon. 786 85
E.—Fines and forfeitures, N.W.T. 95 00
F.—Casual revenue. 15,518 26
G.—Seed grain and relief repayments. 3,652,729 05
H.—Fines under Immigration Act. 2,059 72
I.—Chinese immigration revenue. 140,487 00
J.—Sales of land, special account. 407,125 71

$10,113,770 46

A statement of revenue on account of Dominion lands (marked K) shows the receipts monthly, classified under subheads. Statement (marked L) shows a comparison between the receipts on account of revenue of the previous twelve months.

GEO. D. POPE,
Acting Superintending Accountant.
### Department of the Interior

**A.—Dominion Lands Revenue (Cash and Scrip) for the fiscal year ended March 31, 1917.**

<table>
<thead>
<tr>
<th>Agencies</th>
<th>Cash</th>
<th>Scrip</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yukon Territory—</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sales of land...</td>
<td>$1,249.55</td>
<td></td>
<td>$1,249.55</td>
</tr>
<tr>
<td>Rentals of land...</td>
<td>$7,909.91</td>
<td></td>
<td>$7,909.91</td>
</tr>
<tr>
<td>Map sales, office fees, etc.</td>
<td>$5,553.00</td>
<td></td>
<td>$5,553.00</td>
</tr>
<tr>
<td>Timber dues...</td>
<td>$14,560.48</td>
<td></td>
<td>$14,560.48</td>
</tr>
<tr>
<td>Hay permits...</td>
<td>$83.50</td>
<td></td>
<td>$83.50</td>
</tr>
<tr>
<td>Mining fees...</td>
<td>$47,673.09</td>
<td></td>
<td>$47,673.09</td>
</tr>
<tr>
<td>Export tax on gold...</td>
<td>$99,043.07</td>
<td></td>
<td>$99,043.07</td>
</tr>
<tr>
<td>Free certificates for export of gold...</td>
<td>$38.00</td>
<td></td>
<td>$38.00</td>
</tr>
<tr>
<td>Hydraulic leases...</td>
<td>$2,338.50</td>
<td></td>
<td>$2,338.50</td>
</tr>
<tr>
<td>Dredging leases...</td>
<td>$1,317.91</td>
<td></td>
<td>$1,317.91</td>
</tr>
<tr>
<td>Coal royalty and fees...</td>
<td>$40.00</td>
<td></td>
<td>$40.00</td>
</tr>
<tr>
<td>Homestead fees...</td>
<td>$63.51</td>
<td></td>
<td>$63.51</td>
</tr>
<tr>
<td>Interim receipt account...</td>
<td>$190.00</td>
<td></td>
<td>$190.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Agencies</th>
<th>Cash</th>
<th>Scrip</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dominon Lands Agencies—</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Battleford...</td>
<td>$104,971.61</td>
<td></td>
<td>$104,971.61</td>
</tr>
<tr>
<td>Brandon...</td>
<td>$1.00</td>
<td></td>
<td>$1.00</td>
</tr>
<tr>
<td>Calgary...</td>
<td>$35,888.76</td>
<td></td>
<td>$35,888.76</td>
</tr>
<tr>
<td>Dauphin...</td>
<td>$15,033.57</td>
<td></td>
<td>$15,033.57</td>
</tr>
<tr>
<td>Edmonton...</td>
<td>$45,074.68</td>
<td></td>
<td>$45,074.68</td>
</tr>
<tr>
<td>Estevan...</td>
<td>$136.07</td>
<td></td>
<td>$136.07</td>
</tr>
<tr>
<td>Grande Prairie...</td>
<td>$13,939.84</td>
<td></td>
<td>$13,939.84</td>
</tr>
<tr>
<td>High Prairie...</td>
<td>$1,499.25</td>
<td></td>
<td>$1,499.25</td>
</tr>
<tr>
<td>Humboldt...</td>
<td>$8,028.63</td>
<td></td>
<td>$8,028.63</td>
</tr>
<tr>
<td>Kamloops...</td>
<td>$11,014.77</td>
<td></td>
<td>$11,014.77</td>
</tr>
<tr>
<td>Lethbridge...</td>
<td>$234,700.58</td>
<td></td>
<td>$234,700.58</td>
</tr>
<tr>
<td>Maple Creek...</td>
<td>$443,036.70</td>
<td></td>
<td>$443,036.70</td>
</tr>
<tr>
<td>Meadow Lake...</td>
<td>$70.00</td>
<td></td>
<td>$70.00</td>
</tr>
<tr>
<td>Medicine Hat...</td>
<td>$260,899.26</td>
<td></td>
<td>$260,899.26</td>
</tr>
<tr>
<td>Moosejaw...</td>
<td>$452,245.43</td>
<td></td>
<td>$452,245.43</td>
</tr>
<tr>
<td>New Westminster...</td>
<td>$3,538.29</td>
<td></td>
<td>$3,538.29</td>
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<tr>
<td>Peace River...</td>
<td>$7,697.32</td>
<td></td>
<td>$7,697.32</td>
</tr>
<tr>
<td>Prince Albert...</td>
<td>$15,861.54</td>
<td></td>
<td>$15,861.54</td>
</tr>
<tr>
<td>Red Deer...</td>
<td>$66,230.69</td>
<td></td>
<td>$66,230.69</td>
</tr>
<tr>
<td>Regina...</td>
<td>$2,029.04</td>
<td></td>
<td>$2,029.04</td>
</tr>
<tr>
<td>Revelstoke...</td>
<td>$3,054.47</td>
<td></td>
<td>$3,054.47</td>
</tr>
<tr>
<td>Saskatoon...</td>
<td>$227,291.58</td>
<td></td>
<td>$227,291.58</td>
</tr>
<tr>
<td>Swift Current...</td>
<td>$511,566.02</td>
<td></td>
<td>$511,566.02</td>
</tr>
<tr>
<td>Weyburn...</td>
<td>$77,468.99</td>
<td></td>
<td>$77,468.99</td>
</tr>
<tr>
<td>Winnipeg...</td>
<td>$34,338.04</td>
<td></td>
<td>$34,338.04</td>
</tr>
<tr>
<td>Yorkton...</td>
<td>$6,839.80</td>
<td></td>
<td>$6,839.80</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Agencies</th>
<th>Cash</th>
<th>Scrip</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crown Timber Agencies—</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Battleford...</td>
<td>$834.62</td>
<td></td>
<td>$834.62</td>
</tr>
<tr>
<td>Calgary...</td>
<td>$32,667.08</td>
<td></td>
<td>$32,667.08</td>
</tr>
<tr>
<td>Dauphin...</td>
<td>$10,799.26</td>
<td></td>
<td>$10,799.26</td>
</tr>
<tr>
<td>Edmonton...</td>
<td>$93,446.02</td>
<td></td>
<td>$93,446.02</td>
</tr>
<tr>
<td>Grande Prairie...</td>
<td>$879.50</td>
<td></td>
<td>$879.50</td>
</tr>
<tr>
<td>High Prairie...</td>
<td>$167.82</td>
<td></td>
<td>$167.82</td>
</tr>
<tr>
<td>Humboldt...</td>
<td>$10,566.02</td>
<td></td>
<td>$10,566.02</td>
</tr>
<tr>
<td>Kamloops...</td>
<td>$13,650.41</td>
<td></td>
<td>$13,650.41</td>
</tr>
<tr>
<td>Lethbridge...</td>
<td>$818.91</td>
<td></td>
<td>$818.91</td>
</tr>
<tr>
<td>Maple Creek...</td>
<td>$244.20</td>
<td></td>
<td>$244.20</td>
</tr>
<tr>
<td>Medicine Hat...</td>
<td>$213.02</td>
<td></td>
<td>$213.02</td>
</tr>
<tr>
<td>Moosejaw...</td>
<td>$505.20</td>
<td></td>
<td>$505.20</td>
</tr>
<tr>
<td>New Westminster...</td>
<td>$92,767.53</td>
<td></td>
<td>$92,767.53</td>
</tr>
<tr>
<td>Peace River...</td>
<td>$1,589.50</td>
<td></td>
<td>$1,589.50</td>
</tr>
<tr>
<td>The Pas...</td>
<td>$70,363.27</td>
<td></td>
<td>$70,363.27</td>
</tr>
<tr>
<td>Prince Albert...</td>
<td>$1,015.10</td>
<td></td>
<td>$1,015.10</td>
</tr>
<tr>
<td>Red Deer...</td>
<td>$30,981.22</td>
<td></td>
<td>$30,981.22</td>
</tr>
<tr>
<td>Revelstoke...</td>
<td>$109.50</td>
<td></td>
<td>$109.50</td>
</tr>
<tr>
<td>Saskatoon...</td>
<td>$8.25</td>
<td></td>
<td>$8.25</td>
</tr>
<tr>
<td>Swift Current...</td>
<td>$62,507.68</td>
<td></td>
<td>$62,507.68</td>
</tr>
<tr>
<td>Weyburn...</td>
<td>$1,120.06</td>
<td></td>
<td>$1,120.06</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Agencies</th>
<th>Cash</th>
<th>Scrip</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$2,934,177.24</td>
<td></td>
<td>$2,934,177.24</td>
</tr>
<tr>
<td></td>
<td>$332.61</td>
<td></td>
<td>$332.61</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Agencies</th>
<th>Cash</th>
<th>Scrip</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$414,842.61</td>
<td></td>
<td>$414,842.61</td>
</tr>
</tbody>
</table>
### A. Dominion Lands Revenue (Cash and Scrip) for the fiscal year ended March 31, 1917—Continued.

<table>
<thead>
<tr>
<th>Agencies</th>
<th>Cash.</th>
<th>Scrip.</th>
<th>Total.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$</td>
<td>cts.</td>
<td>$</td>
</tr>
<tr>
<td><strong>Miscellaneous</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rocky Mountains Park</td>
<td>40,290</td>
<td>93</td>
<td>40,290</td>
</tr>
<tr>
<td>Jasper Park</td>
<td>2,828</td>
<td>73</td>
<td>2,828</td>
</tr>
<tr>
<td>Yoho Park</td>
<td>383</td>
<td>36</td>
<td>383</td>
</tr>
<tr>
<td>Waterton Lakes Park</td>
<td>1,332</td>
<td>00</td>
<td>1,332</td>
</tr>
<tr>
<td>Elk Island Park</td>
<td>8</td>
<td>25</td>
<td>8</td>
</tr>
<tr>
<td>Buffalo Park</td>
<td>257</td>
<td>23</td>
<td>257</td>
</tr>
<tr>
<td>Glacier Park</td>
<td>342</td>
<td>25</td>
<td>342</td>
</tr>
<tr>
<td>Moose Mountain Buffalo Park</td>
<td>1</td>
<td>50</td>
<td>1</td>
</tr>
<tr>
<td>Antelope Park</td>
<td>205</td>
<td>20</td>
<td>205</td>
</tr>
<tr>
<td>Survey fees</td>
<td>6,688</td>
<td>68</td>
<td>6,688</td>
</tr>
<tr>
<td>Irrigation fees</td>
<td>620</td>
<td>00</td>
<td>620</td>
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<tr>
<td>Map sales, office fees, etc.</td>
<td>11,436</td>
<td>56</td>
<td>11,436</td>
</tr>
<tr>
<td>Fees, Board of Examiners, D.L.S.</td>
<td>560</td>
<td>00</td>
<td>560</td>
</tr>
<tr>
<td>Mining fees</td>
<td>10,234</td>
<td>25</td>
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</tr>
<tr>
<td>Grazing lands</td>
<td>128,341</td>
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<td>128,341</td>
</tr>
<tr>
<td>Grazing lands (improvements)</td>
<td>1,639</td>
<td>50</td>
<td>1,639</td>
</tr>
<tr>
<td>Hay permits</td>
<td>9,750</td>
<td>70</td>
<td>9,750</td>
</tr>
<tr>
<td>Coal lands</td>
<td>323,700</td>
<td>72</td>
<td>323,700</td>
</tr>
<tr>
<td>Dredging leases, N.W.T.</td>
<td>922</td>
<td>95</td>
<td>922</td>
</tr>
<tr>
<td>Stone quarries</td>
<td>7,795</td>
<td>48</td>
<td>7,795</td>
</tr>
<tr>
<td>Rent of water power</td>
<td>600</td>
<td>00</td>
<td>600</td>
</tr>
<tr>
<td>Suspense account</td>
<td>3,890</td>
<td>34</td>
<td>3,890</td>
</tr>
<tr>
<td>Petroleum</td>
<td>92,242</td>
<td>37</td>
<td>92,242</td>
</tr>
<tr>
<td>Sod, stone and gravel</td>
<td>2,089</td>
<td>46</td>
<td>2,089</td>
</tr>
<tr>
<td>Forestry Branch—sale of trees, etc.</td>
<td>3,135</td>
<td>22</td>
<td>3,135</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>272</td>
<td>31</td>
<td>272</td>
</tr>
<tr>
<td>Sales of land</td>
<td>1,467</td>
<td>46</td>
<td>1,467</td>
</tr>
<tr>
<td>Improvements</td>
<td>103</td>
<td>00</td>
<td>103</td>
</tr>
<tr>
<td>Homestead fees</td>
<td>10</td>
<td>00</td>
<td>10</td>
</tr>
<tr>
<td>Rentals</td>
<td>1,550</td>
<td>78</td>
<td>1,550</td>
</tr>
<tr>
<td>Irrigation sales</td>
<td>14,147</td>
<td>75</td>
<td>14,147</td>
</tr>
<tr>
<td>Sundry fees</td>
<td>10</td>
<td>00</td>
<td>10</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>666,319</td>
<td>78</td>
<td>666,319</td>
</tr>
<tr>
<td><strong>Loss Refunds</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4,189,995</td>
<td>55</td>
<td>4,189,995</td>
</tr>
<tr>
<td></td>
<td>332</td>
<td>61</td>
<td>332</td>
</tr>
<tr>
<td></td>
<td>134,243</td>
<td>14</td>
<td>134,243</td>
</tr>
<tr>
<td></td>
<td>632</td>
<td>61</td>
<td>632</td>
</tr>
<tr>
<td></td>
<td>4,055,662</td>
<td>41</td>
<td>4,055,662</td>
</tr>
</tbody>
</table>

### B. Statement of Ordnance Lands Revenue for the fiscal year ended March 31, 1917.

<table>
<thead>
<tr>
<th>Month</th>
<th>Revenue</th>
</tr>
</thead>
<tbody>
<tr>
<td>1916</td>
<td></td>
</tr>
<tr>
<td>April</td>
<td>$ 270 40</td>
</tr>
<tr>
<td>May</td>
<td>557 70</td>
</tr>
<tr>
<td>June</td>
<td>340 95</td>
</tr>
<tr>
<td>July</td>
<td>1,004 40</td>
</tr>
<tr>
<td>August</td>
<td>329 74</td>
</tr>
<tr>
<td>September</td>
<td>929 95</td>
</tr>
<tr>
<td>October</td>
<td>15 00</td>
</tr>
<tr>
<td>November</td>
<td>1,160 31</td>
</tr>
<tr>
<td>December</td>
<td>102 68</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>$5,553 26</td>
</tr>
</tbody>
</table>

| 1917      |          |
| January   | 300 03   |
| February  | 523 80   |
| March     | 18 30    |

**Total** $5,553 26
C.—Statement of Receipts on Account of School Lands for the fiscal year ended March 31, 1917.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1916</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>April</td>
<td>11,690 88</td>
<td>15,757 97</td>
<td>16,115 88</td>
<td>43,573 73</td>
</tr>
<tr>
<td>May</td>
<td>12,368 40</td>
<td>36,747 12</td>
<td>31,082 21</td>
<td>80,177 73</td>
</tr>
<tr>
<td>June</td>
<td>40,972 56</td>
<td>78,019 30</td>
<td>10,116 07</td>
<td>155,102 22</td>
</tr>
<tr>
<td>July</td>
<td>17,247 83</td>
<td>201,477 70</td>
<td>125,430 06</td>
<td>344,155 59</td>
</tr>
<tr>
<td>August</td>
<td>13,666 43</td>
<td>25,106 27</td>
<td>32,657 53</td>
<td>71,430 23</td>
</tr>
<tr>
<td>September</td>
<td>9,715 90</td>
<td>24,052 26</td>
<td>11,802 02</td>
<td>45,570 18</td>
</tr>
<tr>
<td>October</td>
<td>12,915 09</td>
<td>34,367 41</td>
<td>34,433 75</td>
<td>81,636 25</td>
</tr>
<tr>
<td>November</td>
<td>50,710 03</td>
<td>141,032 03</td>
<td>170,998 44</td>
<td>392,740 50</td>
</tr>
<tr>
<td>December</td>
<td>37,543 18</td>
<td>76,418 49</td>
<td>75,026 42</td>
<td>188,988 09</td>
</tr>
<tr>
<td>1917</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>23,491 54</td>
<td>48,627 32</td>
<td>57,550 88</td>
<td>129,669 74</td>
</tr>
<tr>
<td>February</td>
<td>8,018 82</td>
<td>39,991 29</td>
<td>35,827 67</td>
<td>83,837 88</td>
</tr>
<tr>
<td>March</td>
<td>16,317 01</td>
<td>43,797 01</td>
<td>42,123 83</td>
<td>102,238 02</td>
</tr>
<tr>
<td>Total</td>
<td>284,596 67</td>
<td>765,588 62</td>
<td>649,184 76</td>
<td>1,699,370 0</td>
</tr>
</tbody>
</table>

D.—Statement of Registration Fees in the Yukon Territory for the fiscal year ended March 31, 1917.

<table>
<thead>
<tr>
<th>Month</th>
<th>District.</th>
<th>Registrar.</th>
<th>Amount.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>A. E. Lamb.</td>
<td>$ cts.</td>
</tr>
<tr>
<td>1916</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>April</td>
<td>Yukon</td>
<td></td>
<td>79 75</td>
</tr>
<tr>
<td>May</td>
<td></td>
<td></td>
<td>90 00</td>
</tr>
<tr>
<td>June</td>
<td></td>
<td></td>
<td>125 25</td>
</tr>
<tr>
<td>July</td>
<td></td>
<td></td>
<td>72 50</td>
</tr>
<tr>
<td>August</td>
<td></td>
<td></td>
<td>80 60</td>
</tr>
<tr>
<td>September</td>
<td></td>
<td></td>
<td>70 75</td>
</tr>
<tr>
<td>October</td>
<td></td>
<td></td>
<td>95 25</td>
</tr>
<tr>
<td>November</td>
<td></td>
<td></td>
<td>50 75</td>
</tr>
<tr>
<td>December</td>
<td></td>
<td></td>
<td>22 00</td>
</tr>
<tr>
<td>1917</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td></td>
<td></td>
<td>36 75</td>
</tr>
<tr>
<td>February</td>
<td></td>
<td></td>
<td>17 25</td>
</tr>
<tr>
<td>March</td>
<td></td>
<td></td>
<td>56 00</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td>796 85</td>
</tr>
</tbody>
</table>

E.—Statement of Fines and Forfeitures in the Northwest Territories for the fiscal year ended March 31, 1917.

<table>
<thead>
<tr>
<th>Month</th>
<th>From Whom Received.</th>
<th>Amount.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>$ cts.</td>
</tr>
<tr>
<td>1916</td>
<td></td>
<td></td>
</tr>
<tr>
<td>November</td>
<td>Inspector C. A. Rheault, J.P.</td>
<td>25 00</td>
</tr>
<tr>
<td></td>
<td>Commissioner of Northwest Territories</td>
<td>20 00</td>
</tr>
<tr>
<td></td>
<td>Thos. Wm. Harris, J.P.</td>
<td>10 00</td>
</tr>
<tr>
<td></td>
<td>Lewis Comibear.</td>
<td>15 00</td>
</tr>
<tr>
<td></td>
<td></td>
<td>95 00</td>
</tr>
</tbody>
</table>
### F. Statement of Casual Revenue for the fiscal year ended March 31, 1917

<table>
<thead>
<tr>
<th>Name</th>
<th>Particulars</th>
<th>Amount.</th>
</tr>
</thead>
<tbody>
<tr>
<td>J. B. Walker</td>
<td>Being refund, by Mrs. Hopkins, on account of expenses incurred by Department on her behalf in March, 1914—Immigration Expenses</td>
<td>$ 3.00</td>
</tr>
<tr>
<td>E. H. Roberts</td>
<td>Refund proceeds sale of a pony, the property of the Forestry Branch—Dominion Land and Parks—Forestry</td>
<td>$ 150.00</td>
</tr>
<tr>
<td>E. H. Roberts</td>
<td>Refund amount received for sale of oxen and horses, the property of Forestry Branch—Dominion Land and Parks—Forestry</td>
<td>$ 150.00</td>
</tr>
<tr>
<td>A. Ballantine</td>
<td>Refund to pay cost of fireguarding timber berth No. 1906, in seasons of 1912-1915—Dominion Land and Parks—Fire.</td>
<td>$ 63.54</td>
</tr>
<tr>
<td>Mrs. A. R. O'Regan</td>
<td>Being refund on account of repatriation expenses in December, 1914—Relief of Distressed Canadians</td>
<td>$ 5.00</td>
</tr>
<tr>
<td>Local Council, Yukon</td>
<td>Refund balance un expended grant in 1912-13, in connection with smallpox epidemic—Yukon Appropriation</td>
<td>$ 1,479.47</td>
</tr>
<tr>
<td>J. H. Brownlee</td>
<td>Refund of amount overpaid for salary in 1914-15, viz.: 8 days in November, all December, 1914, 5 days in January, 25 days in February, 2 days in March, 1915—Expenses of Government Yukon Territory</td>
<td>$ 753.35</td>
</tr>
<tr>
<td>Wm. H. Boyd</td>
<td>Being refund balance due on account of Immigration expenses, 1912-15—Immigration Expenses</td>
<td>$ 5.50</td>
</tr>
<tr>
<td>Canadian Pacific Railway Company</td>
<td>Being refund of railway fare for All. B. Rawlings, Toronto to Buffalo on January 11, 1916—Immigration Expenses</td>
<td>$ 3.10</td>
</tr>
<tr>
<td>Victor Belliard</td>
<td>Being refund balance on account transportation—Immigration Expenses</td>
<td>$ 5.00</td>
</tr>
<tr>
<td>Chief Inspector Dominion Land Agencies</td>
<td>Refund proceeds sale of old furniture in Dominion Land Office, Brandon—Dominion Land and Parks—Contingencies</td>
<td>$ 49.50</td>
</tr>
<tr>
<td>H. G. Cuttle</td>
<td>Being refund amount received for desk sold; formerly the property of the Dominion Land office at Brandon—Dominion Land and Parks—Contingencies</td>
<td>$ 10.00</td>
</tr>
<tr>
<td>- G. L. Milne</td>
<td>Being refund by L. Ostler on account of repatriation expenses—Relief of Distressed Canadians</td>
<td>$ 5.00</td>
</tr>
<tr>
<td>Wm. Vesey</td>
<td>Cheque No. 1071, $14.00; C. Johnston, Cheque No. 1072, $14.00; M. Doyle, Cheque No. 1074, $14.00; A. Clarke, Cheque No. 1075, $14.00; C. Wadell, Cheque No. 1130, $14.00. Refund of above cheques dated 29th September, 1910, to 30th September, 1910, not used—Dominion Land and Parks—Protection of Timber</td>
<td>$ 70.00</td>
</tr>
<tr>
<td>- T. H. Beddome</td>
<td>Refund to adjust protection of timber—Dominion Land and Parks—Protection of Timber</td>
<td>$ 10.00</td>
</tr>
<tr>
<td>Canadian Pacific Railway Company</td>
<td>Being refund salaries paid inspectors at Rogers Pass tunnel in 1913-16—Dominion Land and Parks</td>
<td>$ 2,398.39</td>
</tr>
<tr>
<td>E. W. Hubbell</td>
<td>Refund balance unexpended during 1915-16—Dominion Land and Parks—Surveys</td>
<td>$ 209.71</td>
</tr>
<tr>
<td>A. Kyle</td>
<td>Refund of amount paid for overtime services in January, 1916, $35.00; in February 1916, $12.50—Immigration Expenses</td>
<td>$ 25.50</td>
</tr>
<tr>
<td>Frank Chillick</td>
<td>Cheque No. 3730 of June 20th, 1916, being refund on account overcharges in his expenses of 1915-16—Immigration Expenses</td>
<td>$ 3.60</td>
</tr>
<tr>
<td>E. J. Clewen</td>
<td>Cheque No. 3737 of June 20, 1916, being refund on account overpayment in salary in March, 1916—Immigration Expenses</td>
<td>$ 10.94</td>
</tr>
<tr>
<td>P. J. Webb</td>
<td>Cheque No. 1846 being refund of balance outstanding in his contingent account for 1915-16—Immigration Expenses</td>
<td>$ 67.00</td>
</tr>
<tr>
<td>A. G. Tait</td>
<td>Pt. Cheque No. 3754 of June 20th, 1916, being refund on account Immigration expenses, 1914-15—Immigration Expenses</td>
<td>$ 67.00</td>
</tr>
</tbody>
</table>
### F.—Statement of Casual Revenue for the fiscal year ended March 31, 1917—Continued.

<table>
<thead>
<tr>
<th>Name</th>
<th>Particulars</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>J. P. Stafford</td>
<td>Being refund by S. Morisset of one-half cost of uniform suit purchased for use of D. Renaud who left Department in 1915—Immigration Expenses</td>
<td>$ 5 00</td>
</tr>
<tr>
<td>Inspector of Prisons and Public Charities for Ontario, Toronto, Ont.</td>
<td>Being one-half cost of deportation expenses of Wm. A. Bailie in March, 1916—Immigration Expenses</td>
<td>31 58</td>
</tr>
<tr>
<td>J. H. Duncan</td>
<td>Proceeds of sale of old buggy by Inspector A. E. Henke—Dominion Lands and Parks—Contingencies</td>
<td>25 00</td>
</tr>
<tr>
<td>J. C. Hearn</td>
<td>Refund Cheque No. 6454 for June......................................................... $ 65 00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Refund Cheque No. 6942 for February.................................................... $ 65 00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cheques not used—Dominion Lands and Parks—Salaries.................................. 150 00</td>
<td></td>
</tr>
<tr>
<td>J. W. McAbee</td>
<td>Refund in payment of articles belonging to the Forestry Branch, which were not returned—Dominion Lands and Parks—Protection of Timber</td>
<td>50 00</td>
</tr>
<tr>
<td>T. H. Beddome</td>
<td>Refund to recoup Protection of Timber Appropriation—Dominion Lands and Parks—Protection of Timber</td>
<td>10 00</td>
</tr>
<tr>
<td>F. Fisher</td>
<td>Refund balance unexpended advances for expenses from Dominion Lands and Parks—Protection of Timber</td>
<td>268 43</td>
</tr>
<tr>
<td>Dr. G. L. Milne</td>
<td>Being refund by L. Ostler on account of repatriation expenses—Relief of Distressed Canadians</td>
<td>5 00</td>
</tr>
<tr>
<td>John Hoolahan</td>
<td>Being refund by Albert E. Burnett on account of his repatriation expenses in February, 1916—Relief of Distressed Canadians</td>
<td>5 00</td>
</tr>
<tr>
<td>E. W. Hubbell</td>
<td>Refund balance unexpended advances for Surveys 1915—1916—Dominion Lands and Parks—Surveys</td>
<td>7 45</td>
</tr>
<tr>
<td>J. P. Stafford</td>
<td>Being refund by S. Morisset of his staff for one-half purchase price of uniform made for D. Renaud, but not used—Immigration Expenses</td>
<td>5 00</td>
</tr>
<tr>
<td>Robin, Jones &amp; Whitman, Ltd., (for the White Star Line)</td>
<td>Refund on account of maintenance, etc., of immigrants in Halifax Detention Hospital in February, 1915—Immigration Expenses</td>
<td>3 00</td>
</tr>
<tr>
<td>John Hoolahan</td>
<td>Being refund by Albert E. Burnett on account of his repatriation expenses in February, 1916—Relief of Distressed Canadians</td>
<td>5 00</td>
</tr>
<tr>
<td>G. L. Milne</td>
<td>Being refund by L. Ostler, on account of repatriation expenses, November, 1915—Relief of Distressed Canadians</td>
<td>5 00</td>
</tr>
<tr>
<td>Canadian Pacific Railway Co.</td>
<td>Being refund of unused portion of railway ticket purchased for transportation of R. E. Morrison in January, 1916—Relief of Distressed Canadians</td>
<td>9 45</td>
</tr>
<tr>
<td>Chan Yin Soon</td>
<td>Interior refund Cheque No. 1374 of July 28, 1916, being refund on account of his deportation expenses in January, 1916—Chinese Immigration</td>
<td>35 00</td>
</tr>
<tr>
<td>D. N. Trapnell</td>
<td>Refund Cheque No. 1455 dated 21st October, 1915, salary for October Cheque not used—Dominion Lands and Parks—Protection of Timber</td>
<td>93 33</td>
</tr>
<tr>
<td>E. H. Roberts</td>
<td>Refund of proceeds of sale of tents, etc., purchased through vote for Dominion Lands and Parks, Protection of Timber—Dominion Lands and Parks—Protection of Timber</td>
<td>16 60</td>
</tr>
<tr>
<td>T. H. Beddome</td>
<td>Cheque No. 4617, refund to recoup Protection of Timber appropriation—Dominion Lands and Parks—Protection of Timber</td>
<td>10 00</td>
</tr>
<tr>
<td>Supt. Rocky Mt. Park</td>
<td>Refunds proceeds sale of old bathing suits—Dominion Lands and Parks—Protection of Timber</td>
<td>7 20</td>
</tr>
<tr>
<td>A. Driscoll</td>
<td>Refund on account of advances—Dominion Lands and Parks—Protection of Timber</td>
<td>0 48</td>
</tr>
<tr>
<td>J. Sylvestre</td>
<td>Refund proceeds sale of old canoe, formerly bought through Dominion Lands and Parks Surveys Appropriation—Dominion Lands and Parks—Protection of Timber</td>
<td>10 00</td>
</tr>
<tr>
<td>Name</td>
<td>particulars</td>
<td>Amount</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>------------------------------------------------------------------------------</td>
<td>--------</td>
</tr>
<tr>
<td>W. E. Venning</td>
<td>Proceeds for sale of old utensils, etc., at Gravelbourg</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Immigration Hall:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 cook stove</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 heating stove</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 ash tin</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pots and pans</td>
<td></td>
</tr>
<tr>
<td></td>
<td>6 chairs—Immigration Expenses</td>
<td>$ 40.00</td>
</tr>
<tr>
<td>S. N. Reid</td>
<td>Being refunded by Bell Telephone Co. of overpayment for exchange service</td>
<td>$ 70.00</td>
</tr>
<tr>
<td></td>
<td>in January, 1916—Immigration Expenses</td>
<td></td>
</tr>
<tr>
<td>A. H. Clarkson</td>
<td>Being proceeds of sale of various utensils at Port Arthur.</td>
<td>$ 5.00</td>
</tr>
<tr>
<td>D. H. Reynolds</td>
<td>Being refund by Albert E. Burnett on account of his repatriation expenses</td>
<td>$ 20.00</td>
</tr>
<tr>
<td></td>
<td>in February, 1916—Distressed Canadians</td>
<td></td>
</tr>
<tr>
<td>John Hoolahan</td>
<td>Being refund on account of repatriation expenses of Alfred Ford—Distressed</td>
<td>$ 3.00</td>
</tr>
<tr>
<td></td>
<td>Canadians</td>
<td></td>
</tr>
<tr>
<td>J. Bruce Walker</td>
<td>Refund on account of expenses for repatriating Oscar Leriche—Distressed</td>
<td>$ 2.00</td>
</tr>
<tr>
<td></td>
<td>Canadians</td>
<td></td>
</tr>
<tr>
<td>Dr. G. L. Milne</td>
<td>Being refund by T. Ostler on account repatriation expenses—Distressed</td>
<td>$ 5.15</td>
</tr>
<tr>
<td></td>
<td>Canadians</td>
<td></td>
</tr>
<tr>
<td>A. D. L. Humboldt</td>
<td>Proceeds sale of horse formerly used by Hd. Inspector Roth—Dominion</td>
<td>$ 55.00</td>
</tr>
<tr>
<td></td>
<td>Lands and Parks—Continuencies</td>
<td></td>
</tr>
<tr>
<td>Immigration Branch</td>
<td>Refund of amount paid by the D. L. A. Swift Current, last spring, for salary</td>
<td></td>
</tr>
<tr>
<td></td>
<td>of Miss G. DeCuttes—Dominion</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lands and Parks—Continuencies</td>
<td></td>
</tr>
<tr>
<td>Major E. W. Hubbell</td>
<td>Refund amount of balance due Department on account of sale of 3 canoes,</td>
<td>$ 30.00</td>
</tr>
<tr>
<td></td>
<td>being outfit belonging to the equipment of J. W. Pierce, Sub-division Surveys</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1915—Dominion Lands and Parks—Surveys</td>
<td></td>
</tr>
<tr>
<td>M. H. Graham</td>
<td>Refund balance on hand advances for expenses—Civil Government</td>
<td>$ 67.50</td>
</tr>
<tr>
<td></td>
<td>Continuities</td>
<td></td>
</tr>
<tr>
<td>Paul Howard</td>
<td>Being salary, Cheques No. 7643, 8053 for $150.00 each, for January and</td>
<td>$ 50.00</td>
</tr>
<tr>
<td></td>
<td>February, 1916, not used—Immigration O. S. Salaries</td>
<td></td>
</tr>
<tr>
<td>Wm. Mather</td>
<td>Refund in payment of survey of land at Bank’s—Dominion</td>
<td>$ 300.00</td>
</tr>
<tr>
<td></td>
<td>Lands and Parks—Continuencies</td>
<td></td>
</tr>
<tr>
<td>Receiver General</td>
<td>Refund of fees paid on account of costs for Hanson case at Wateron Lakes</td>
<td>$ 31.50</td>
</tr>
<tr>
<td></td>
<td>Park, deposited to Dominion Parks in error, should be casual revenue, 1915-</td>
<td></td>
</tr>
<tr>
<td></td>
<td>16, File No. N.L. 3—Dominion Lands and Parks—Protection of Timber</td>
<td></td>
</tr>
<tr>
<td>S. M. Rogers</td>
<td>Refund on account Jasper Park Trust Account—Dominion</td>
<td>$ 129.92</td>
</tr>
<tr>
<td></td>
<td>Lands and Parks—Continuencies</td>
<td></td>
</tr>
<tr>
<td>S. M. Rogers</td>
<td>Refund balance on hand advances for expenses at Jasper Park, 1914-15,</td>
<td>$ 129.92</td>
</tr>
<tr>
<td></td>
<td>Cheque No. 920—Dominion Lands and Parks—Continuencies</td>
<td></td>
</tr>
<tr>
<td>A. Williscraft</td>
<td>Being refund proceeds of pack sack, formerly purchased through</td>
<td>$ 2.60</td>
</tr>
<tr>
<td></td>
<td>Dominion Lands and Parks—Protection of Timber</td>
<td></td>
</tr>
<tr>
<td>T. H. Beddome</td>
<td>Refund to recoup Protection of Timber appropriation for loss through his</td>
<td>$ 10.00</td>
</tr>
<tr>
<td></td>
<td>neglect of duty—Dominion Lands and Parks—Protection of Timber</td>
<td></td>
</tr>
<tr>
<td>A. J. Bruce</td>
<td>Refund in payment for one key lost, formerly purchased through</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Forestry Branch—Dominion Lands and Parks—Protection of Timber</td>
<td></td>
</tr>
<tr>
<td>D. R. Cameron</td>
<td>Refund in payment for three keys lost—Dominion</td>
<td>$ 1.00</td>
</tr>
<tr>
<td></td>
<td>Lands and Parks—Protection of Timber</td>
<td></td>
</tr>
<tr>
<td>G. Fitzgibbons</td>
<td>Refund salary cheques for July, August, September, October and November,</td>
<td>$ 3.00</td>
</tr>
<tr>
<td></td>
<td>1915, 4 for $75.00 each, Cheques Nos. 3287, 3763, 4251 and 4725; Cheques</td>
<td></td>
</tr>
<tr>
<td></td>
<td>for September, $5.00. Cheques not used—Dominion</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lands and Parks—Salaries</td>
<td>$ 355.00</td>
</tr>
<tr>
<td>Canadian Pacific Railway Co</td>
<td>Refund on account of maintenance of Dorinda Busted in St. John Detention</td>
<td>$ 1.80</td>
</tr>
<tr>
<td></td>
<td>House—Immigration Expenses</td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>Particulars</td>
<td>Amount.</td>
</tr>
<tr>
<td>---------------------------------------------------</td>
<td>------------------------------------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>Thos. Wilson</td>
<td>Being refund by Mrs. Margaret McDonald of balance due on account of repatriation expenses—Distressed Canadians.</td>
<td>$3.95</td>
</tr>
<tr>
<td>John Hoolahan</td>
<td>Being refund by Albert E. Burnett on account repatriation expenses—Distressed Canadians.</td>
<td>2.00</td>
</tr>
<tr>
<td>T. H. Beddome</td>
<td>Refund to recoup Protection of Timber Appropriation—Dominion Lands and Parks—Protection of Timber.</td>
<td>10.00</td>
</tr>
<tr>
<td>Chief Fire Ranger, Prince Albert</td>
<td>Refund overpayment for freight, March, 1916—Dominion Lands and Parks—Forestry.</td>
<td>10.60</td>
</tr>
<tr>
<td>H. C. Cuttle</td>
<td>Refund proceeds sale of furniture, etc., Regina Land Office—Dominion Lands and Parks—Contingencies.</td>
<td>18.85</td>
</tr>
<tr>
<td>District Supt. of Telephone, Regina</td>
<td>Refund unused rent on telephone in Regina land office—Dominion Lands and Parks—Contingencies.</td>
<td>1.40</td>
</tr>
<tr>
<td>C.P.R. Co.</td>
<td>Refund ticket Toronto to Montreal re Gertrude Shaw, a deport—Ticket purchased by Mrs. Tasse—Immigration Expenses.</td>
<td>6.65</td>
</tr>
<tr>
<td>Edmund Lawrence</td>
<td>Refund on account expenses—Relief of Distressed Canadians.</td>
<td>23.45</td>
</tr>
<tr>
<td>T. H. Beddome</td>
<td>Refund to recoup Protection of Timber Appn.—Dominion Lands and Parks—Protection of Timber.</td>
<td>10.00</td>
</tr>
<tr>
<td>H. Shaw</td>
<td>Cheques Nos. 3050 and 3076 for $14.51 and $22.50 held re tools not accounted for—Dominion Lands and Parks—Forestry.</td>
<td>37.01</td>
</tr>
<tr>
<td>A. Norquay</td>
<td>Refund on account of advance for expenses, 1915–1916—Dominion Lands and Parks—Contingencies.</td>
<td>166.66</td>
</tr>
<tr>
<td>A. Norquay</td>
<td>Refund unexpended balance of advance for expenses, 1915–1916—Dominion Lands and Parks—Contingencies.</td>
<td>19.60</td>
</tr>
<tr>
<td>J. W. Stafford</td>
<td>Refund unexpended balance for expenses, 1915—Dominion Lands and Parks—Contingencies.</td>
<td>4.34</td>
</tr>
<tr>
<td>Superintendent Revelstoke Park</td>
<td>Refund proceeds re sale of provisions in November 1914—Dominion Lands and Parks—Parks.</td>
<td>3.96</td>
</tr>
<tr>
<td>C. H. Anderson</td>
<td>Salary cheques for December 1915, January and February 1916, not used—Dominion Lands and Parks—O. S. Salaries.</td>
<td>225.00</td>
</tr>
<tr>
<td>T. H. Gilmour</td>
<td>Per A. R. Morisset, being refund on account Immigration expenses, 1914–1915—Immigration Expenses.</td>
<td>56.80</td>
</tr>
<tr>
<td>T. H. Gilmour</td>
<td>Being refund of expenses—Immigration Expenses.</td>
<td>65.00</td>
</tr>
<tr>
<td>H. D. Lyon</td>
<td>Being cheque in favour of H. D. Lyon, issued by H. H. Russell, which could not be cashed for lack of funds—Immigration Expenses.</td>
<td>10.00</td>
</tr>
<tr>
<td>Dr. G. L. Milne</td>
<td>Being refund by L. Ostler on account repatriation expenses—Distressed Canadians.</td>
<td>5.00</td>
</tr>
<tr>
<td>John Hoolahan</td>
<td>Being refund by Oscar Leriche on account of repatriation expenses in 1914—Distressed Canadians.</td>
<td>14.00</td>
</tr>
<tr>
<td>Paymaster, 223rd Battalion Camp Hughes, Man.</td>
<td>Being refund by Sergeant Major Chas. A. Nord on account repatriation expenses of himself and family in May, 1915—Distressed Canadians.</td>
<td>5.00</td>
</tr>
<tr>
<td>A. D. L. Edmonton</td>
<td>Refund proceeds sale of old harness—Dominion Lands and Parks—Contingencies.</td>
<td>8.00</td>
</tr>
<tr>
<td>E. H. Finlayson</td>
<td>Refund of amount of cheques issued for fire fighting in 1914–15 which were never called for—Dominion Lands and Parks—Protection of Timber.</td>
<td>270.75</td>
</tr>
<tr>
<td>H. S. Day</td>
<td>Cheque not used—Dominion Lands and Parks—Surveys.</td>
<td>0.78</td>
</tr>
<tr>
<td>J. H. Wilson</td>
<td>Refund balance unexpended advances for expenses 1915–16—Dominion Lands and Parks—Irrigation Surveys.</td>
<td>45.00</td>
</tr>
<tr>
<td>P.O. Dept. Ottawa</td>
<td>Refund from the Side Stream Navigation Co. at Dawson for freight charges paid in 1913, by Mr. Lambart, see Astronomical Surveys.</td>
<td>50.00</td>
</tr>
<tr>
<td>Name</td>
<td>Particulars</td>
<td>Amount</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
<td>--------</td>
</tr>
<tr>
<td>E. W. Hubbell</td>
<td>Refund balance on hand advances for expenses in 1915-16—Board of Examiners—D. L. S.</td>
<td>1 15</td>
</tr>
<tr>
<td>Refund balance unexpended re relief advanced in 1913, out of the Immigration vote—Immigration Expenses</td>
<td></td>
<td>180 34</td>
</tr>
<tr>
<td>Paymaster, 223rd Battalion Portage la Prairie, Manitoba</td>
<td>Being refund by Chas. A. Nord on account repatriation expenses—Distressed Canadians</td>
<td>5 00</td>
</tr>
<tr>
<td>John Hoolahan</td>
<td>Being refund by Albert E. Burnett, on account of repatriation expenses—Distressed Canadians</td>
<td>5 00</td>
</tr>
<tr>
<td>G. L. Milne</td>
<td>Refund by L. Ostler on account of repatriation expenses—Distressed Canadians</td>
<td>5 00</td>
</tr>
<tr>
<td>Paymaster, 19th Battalion, Toronto, Ontario</td>
<td>Being refund by Private G. H. L. Marescaux on account repatriation expenses—Distressed Canadians</td>
<td>2 00</td>
</tr>
<tr>
<td>John Hoolahan</td>
<td>Being refund by E. V. Portway on account of his repatriation expenses in September 1914—Distressed Canadians</td>
<td>21 29</td>
</tr>
<tr>
<td>Thos. Vickers</td>
<td>Refund on account provisions advanced in 1912, out of Immigration Vote—Distressed Canadians</td>
<td>92 00</td>
</tr>
<tr>
<td>Elizabeth A. O'Connor</td>
<td>Refund on account repatriation expenses in September 1915—Distressed Canadians</td>
<td>45 50</td>
</tr>
<tr>
<td>H. R. Cameron</td>
<td>Proceeds sale of flour, rolled oats and grass seed sold to Mr. MacDonald—Peace River Relief, 1912</td>
<td>50 00</td>
</tr>
<tr>
<td>Mrs. A. Chapman</td>
<td>Refund on account repatriation expenses incurred in August 1914—Distressed Canadians</td>
<td>5 00</td>
</tr>
<tr>
<td>J. F. McKenzie</td>
<td>Refund of proceeds sale of horse—Dominion Lands and Parks—Contingencies</td>
<td>50 00</td>
</tr>
<tr>
<td>D. Matheson</td>
<td>Refund on cheques Nos. 2938 and 3181 dated October 14th and December 25th, 1915—Dominion Lands and Parks—Parks</td>
<td>13 80</td>
</tr>
<tr>
<td>T. H. Beddome</td>
<td>Refund to recoup Protection of Timber—Dominion Lands and Parks—Protection of Timber</td>
<td>7 61</td>
</tr>
<tr>
<td>W. B. Wright</td>
<td>Refund to pay for article not returned to Forestry Branch, Protection of Timber cheque No. 6641 dated 30th November—Dominion Lands and Parks—Protection of Timber</td>
<td>4 40</td>
</tr>
<tr>
<td>H. L. Maingsay</td>
<td>Being refund of ocean passage of his wife $80.25, and dog $11.56, from England to Canada paid by J. Obed Smith, March 1916—Immigration Expenses</td>
<td>61 81</td>
</tr>
<tr>
<td>E. W. Hubbell</td>
<td>Refund amount overpaid for services in 1915-16—Dominion Lands and Parks—Board of Examiners, D. L. S.</td>
<td>20 00</td>
</tr>
<tr>
<td>Grand Trunk Pacific Railway Company</td>
<td>Refund on account of purchase of grain exhibits as follows: 3 cases marquis wheat in straw, 1 case barley in straw,</td>
<td>275 00</td>
</tr>
<tr>
<td></td>
<td>1 &quot; rye in straw, 2 cases oats in straw, 1 case flax in straw; ½ &quot; long and short red top, ½ &quot; timothy, 1 &quot; Pea-vine, vetches and clover, 10 cases at $30 each...</td>
<td>25 00</td>
</tr>
<tr>
<td></td>
<td>$ 300 00 Less allowance for 10 cases at $2.50 each...</td>
<td></td>
</tr>
<tr>
<td>G. L. Milne</td>
<td>Immigration Expenses</td>
<td>275 00</td>
</tr>
<tr>
<td>Paymaster, 223rd Battalion Overseas, Portage la Prairie, Manitoba</td>
<td>Being refund by Chas. A. Nord on account of repatriation expenses—Distressed Canadians</td>
<td>5 00</td>
</tr>
<tr>
<td>Name</td>
<td>Particulars</td>
<td>Account</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>Paymaster, 198th Battalion Overseas, Toronto, Ontario</td>
<td>Being refund by Private G. H. L. Mariseaux, on account of repatriation expenses—Distressed Canadians</td>
<td>$ 2.00</td>
</tr>
<tr>
<td>Superintendent Buffalo Park</td>
<td>Refund of amount received for groceries sold by Superintendent of Buffalo Park—Dominion Lands and Parks—Parks</td>
<td>1.76</td>
</tr>
<tr>
<td>Canadian Pacific Railway Company</td>
<td>Refund of overpayment for freight, Pt. cheque No. 2959, dated October, 1915—Dominion Lands and Parks—Parks</td>
<td>33.00</td>
</tr>
<tr>
<td>A. D. L. Humboldt</td>
<td>Refund proceeds sale of old cutter used by Hld. Inspr. Smyth—Dominion Lands and Parks—Contingencies</td>
<td>5.00</td>
</tr>
<tr>
<td>Receiver General</td>
<td>Being refund by late E. J. Clever on account salary for March, 1916—Immigration O. S. Scott</td>
<td>37.00</td>
</tr>
<tr>
<td>Department of Militia and Defence.</td>
<td>Payment for goods purchased from Immigration Hall, Calgary—Immigration Expenses</td>
<td>458.55</td>
</tr>
<tr>
<td>Chas. A. Nord</td>
<td>Refund on account repatriation expenses—Relief of Distressed Canadians</td>
<td>5.00</td>
</tr>
<tr>
<td>A. E. Burnett</td>
<td>Refund on account of repatriation expenses—Relief to Distressed Canadians</td>
<td>2.82</td>
</tr>
<tr>
<td>Receiver General</td>
<td>Refund duplicate payment made to Northern Trading Company cheque No. 5330, April 7th, 1916—Dominion Lands and Parks—Forestry</td>
<td>19.00</td>
</tr>
<tr>
<td>Eberts &amp; Taylor &amp; Hugh Little</td>
<td>Cheque No. 1319 not used, dated March 7th, 1916—Astronomical Surveys</td>
<td>250.00</td>
</tr>
<tr>
<td>Union Stock Yards</td>
<td>Amount received for team bought from C. A. Biggar, purchased by him in 1915—Astronomical Surveys</td>
<td>365.40</td>
</tr>
<tr>
<td>N. V. Bennett</td>
<td>Sale of old flat top desk—Immigration Expenses</td>
<td>5.00</td>
</tr>
<tr>
<td>Stanley Kurchaba</td>
<td>Refund on account repatriation expenses—Distressed Canadians</td>
<td>33.44</td>
</tr>
<tr>
<td>H. C. Sweeney</td>
<td>Refund by W. La Barre on account repatriation expenses—Distressed Canadians</td>
<td>113.15</td>
</tr>
<tr>
<td>G. H. L. Mariseaux</td>
<td>Refund on account of repatriation expenses—Distressed Canadians</td>
<td>2.00</td>
</tr>
<tr>
<td>C. A. Nord</td>
<td>Refund on account of repatriation expenses—Distressed Canadians</td>
<td>5.00</td>
</tr>
<tr>
<td>G. H. L. Marisesca</td>
<td>Refund on account of repatriation expenses—Distressed Canadians</td>
<td>2.00</td>
</tr>
<tr>
<td>L. Ostler</td>
<td>Refund on account of repatriation expenses—Distressed Canadians</td>
<td>5.00</td>
</tr>
<tr>
<td>L. Ostler</td>
<td>Refund on account of repatriation expenses—Distressed Canadians</td>
<td>10.00</td>
</tr>
<tr>
<td>E. Cook</td>
<td>Refund in payment of pair of binoculars—Dominion Lands and Parks—Forestry</td>
<td>12.00</td>
</tr>
<tr>
<td>G. A. Guthesch</td>
<td>Refund on account of advances for 1914-15—Dominion Lands and Parks—Forestry</td>
<td>1.06</td>
</tr>
<tr>
<td>J. H. Brownlee</td>
<td>Refund balance re advance on April 27th, 1915—Dominion Lands and Parks—Surveys</td>
<td>20.00</td>
</tr>
<tr>
<td>B. H. Baldwin</td>
<td>Amount received for sale of motor—Dominion Lands and Parks—Surveys</td>
<td>25.00</td>
</tr>
<tr>
<td>A. D. L. Battleford</td>
<td>Refund proceeds sale of team of horses used by Inspector A. C. Dewar—Dominion Lands and Parks—Contingencies</td>
<td>125.00</td>
</tr>
<tr>
<td>A. D. L. Edmonton</td>
<td>Refund proceeds re sale of old jumper used by Head Inspector McCowan—Dominion Lands and Parks—Contingencies</td>
<td>5.00</td>
</tr>
<tr>
<td>Department of Justice</td>
<td>Refund by A. Henderson on account advances for Yukon—Expenditures of Government</td>
<td>25.00</td>
</tr>
<tr>
<td>Commissioner of Immigration</td>
<td>Proceeds re sale of grain left over in Peace River District, 1914; also a set of scales purchased in the same year—Immigration Expenses</td>
<td>477.69</td>
</tr>
<tr>
<td>Department of Militia and Defence.</td>
<td>Refund on account repatriation expenses of T. R. Hendry in November, 1914—Relief of Distressed Canadians</td>
<td>125.62</td>
</tr>
<tr>
<td>Commissioner of Immigration</td>
<td>Refund on account repatriation expenses of T. R. Hendry in November, 1914—Relief of Distressed Canadians</td>
<td>5.00</td>
</tr>
<tr>
<td>Chas. A. Nord</td>
<td>Refund on account of repatriation expenses of T. R. Hendry in November, 1914—Relief of Distressed Canadians</td>
<td>5.00</td>
</tr>
<tr>
<td>Name</td>
<td>Particulars</td>
<td>Account</td>
</tr>
<tr>
<td>-------------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>A. M. Naraway</td>
<td>Refund proceeds re sale of canoe from W. Christie's outift of 1914—Dominion</td>
<td>$ 8.50</td>
</tr>
<tr>
<td></td>
<td>Lands and Parks—Surveys.</td>
<td></td>
</tr>
<tr>
<td>Canadian Pacific Railway Company</td>
<td>Payment of claim for lost hand car—Boundary Surveys.</td>
<td>44.09</td>
</tr>
<tr>
<td>F. K. Herchmer</td>
<td>Proceeds sale of two canoes—Dominion Lands and Parks—Forestry.</td>
<td>10.00</td>
</tr>
<tr>
<td>J. J. McArthur</td>
<td>Proceeds re sale of old boats and outfits—Astronomical Surveys.</td>
<td>562.55</td>
</tr>
<tr>
<td>Comptroller Yukon</td>
<td>Refund balance to credit following estate—</td>
<td>296.21</td>
</tr>
<tr>
<td></td>
<td>Marion Humphrey... $ 49.50</td>
<td></td>
</tr>
<tr>
<td>Comptroller Yukon</td>
<td>E. E. Collins... 2.25</td>
<td></td>
</tr>
<tr>
<td>Maxwell Graham</td>
<td>John Grant... 50.10</td>
<td></td>
</tr>
<tr>
<td>Maxwell Graham</td>
<td>Mike Kovack... 100.00</td>
<td></td>
</tr>
<tr>
<td>Superintendent Buffalo Park</td>
<td>Owen Maylin... 68.55</td>
<td></td>
</tr>
<tr>
<td>A. D. L. Edmonton</td>
<td>R. W. Tharp, Alias Brown... 10.25</td>
<td></td>
</tr>
<tr>
<td>A. D. L. Edmonton</td>
<td>Tom Bokovich... 11.56</td>
<td></td>
</tr>
<tr>
<td>A. D. L. Edmonton</td>
<td>Balance to the credit of the estate of the late Henry Cook...</td>
<td>1,036.94</td>
</tr>
<tr>
<td>Superintendent Rocky Mt. Park</td>
<td>Refund on account travelling expenses—Civil Government—Contingencies...</td>
<td>50.00</td>
</tr>
<tr>
<td>Commissioner of Immigration, Winnipeg</td>
<td>Refund on account travelling expenses—Civil Government—Contingencies...</td>
<td>99.01</td>
</tr>
<tr>
<td>Bank of Montreal, London, England</td>
<td>Balance unexpended on account advances for expenses—</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dominion Lands and Parks—Parks.</td>
<td>0.02</td>
</tr>
<tr>
<td>A. D. L. Edmonton</td>
<td>Proceeds re sale of Head Inspector Fane's team—Dominion Lands and Parks—</td>
<td>89.35</td>
</tr>
<tr>
<td></td>
<td>Contingencies.</td>
<td></td>
</tr>
<tr>
<td>A. D. L. Edmonton</td>
<td>Proceeds of sale of old buggy used by Head Inspector Hagen—Dominion Lands</td>
<td>23.00</td>
</tr>
<tr>
<td></td>
<td>and Parks—Contingencies.</td>
<td></td>
</tr>
<tr>
<td>A. D. L. Edmonton</td>
<td>Proceeds re sale of team used by Head Inspector Wynne—Dominion Lands and</td>
<td>35.00</td>
</tr>
<tr>
<td></td>
<td>Parks—Parks—Contingencies.</td>
<td></td>
</tr>
<tr>
<td>Superintendent Buffalo Park</td>
<td>Refund on account telephone service N. P. School—Dominion Lands and Parks—</td>
<td>19.64</td>
</tr>
<tr>
<td>Commissioner of Immigration, Winnipeg</td>
<td>Balance unexpended re advances to W. M. Jackson—</td>
<td>5.35</td>
</tr>
<tr>
<td></td>
<td>1916—Immigration Expenses.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Immigration Expenses.</td>
<td></td>
</tr>
<tr>
<td>Bank of Montreal, London, England</td>
<td>Refund by Board of Guardians for annual inspection of poor law children</td>
<td>1,408.47</td>
</tr>
<tr>
<td></td>
<td>who emigrated to Canada in 1915—Immigration Expenses.</td>
<td></td>
</tr>
<tr>
<td>Bank of Montreal, London, England</td>
<td>Refund by Mr. Quinn re deportation expenses—Immigration Expenses.</td>
<td>12.17</td>
</tr>
<tr>
<td>Loss Refunds</td>
<td></td>
<td>15,384.25</td>
</tr>
<tr>
<td></td>
<td></td>
<td>277.74</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15.166.52</td>
</tr>
</tbody>
</table>
### CASUAL REVENUE, NORTHWEST TERRITORIES.

<table>
<thead>
<tr>
<th>Name</th>
<th>Particulars</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bishop G. Breynat</td>
<td>Fee payable on liquor, Permit No. 209 issued in favour of Father J. C. LeFebvre, O.M.I.</td>
<td>$15,106.52</td>
</tr>
<tr>
<td>R. J. McLennan</td>
<td>Permit for 2 gallons liquor</td>
<td>$2.00</td>
</tr>
<tr>
<td>Jack Starke</td>
<td>Liquor Permits</td>
<td>$2.00</td>
</tr>
<tr>
<td>Geo. Norm</td>
<td>Liquor Permits</td>
<td>$2.00</td>
</tr>
<tr>
<td>Mayse Manville</td>
<td>Liquor Permits</td>
<td>$2.00</td>
</tr>
<tr>
<td>Louise Laferty</td>
<td>Liquor Permits</td>
<td>$2.00</td>
</tr>
<tr>
<td>Mrs. A. Loutet</td>
<td>Liquor Permits</td>
<td>$2.00</td>
</tr>
<tr>
<td>Alex. Loutet</td>
<td>Liquor Permits</td>
<td>$4.00</td>
</tr>
<tr>
<td>Geo. Boucher</td>
<td>Permit for 2 gallons whisky</td>
<td>$2.00</td>
</tr>
<tr>
<td>Jas. H. Bryan</td>
<td>Permit for 2 gallons liquor</td>
<td>$2.00</td>
</tr>
<tr>
<td>Hudson Bay Co. employees</td>
<td>Liquor permits</td>
<td>$148.00</td>
</tr>
<tr>
<td>Northern Trading Co., Ltd.</td>
<td>Fees payable on liquor permits issued to employees</td>
<td>$57.00</td>
</tr>
<tr>
<td>Hudson Bay Co.</td>
<td>Fees on liquor permits issued as follows:</td>
<td>$234.00</td>
</tr>
<tr>
<td>H. W. Jones</td>
<td>$2.00</td>
<td></td>
</tr>
<tr>
<td>Fred McLeod</td>
<td>$2.00</td>
<td></td>
</tr>
<tr>
<td>D. Dunes</td>
<td>$2.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Net Total</td>
<td>$15,340.52</td>
</tr>
</tbody>
</table>
G.—Statement Showing Repayments on account of Seed Grain and Relief Mortgages for the fiscal year ending March 31, 1917.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1916</td>
<td>1915</td>
<td>1914</td>
<td>1913</td>
</tr>
<tr>
<td>Refunds</td>
<td>8,714</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td></td>
<td>2,236</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td></td>
<td>1,053</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td></td>
<td>2,236</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td></td>
<td>8,714</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>
H.—Statement of Fines under Immigration Act for the fiscal year ending March 31, 1917.

<table>
<thead>
<tr>
<th>Month</th>
<th>From Whom Received</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1916.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>April</td>
<td>James C. Mitchell</td>
<td>$20.00</td>
</tr>
<tr>
<td>May</td>
<td>James C. Mitchell</td>
<td>$100.00</td>
</tr>
<tr>
<td>June</td>
<td>A. E. Skinner</td>
<td>$10.00</td>
</tr>
<tr>
<td>July</td>
<td>T. D. Cowper</td>
<td>$80.00</td>
</tr>
<tr>
<td>July</td>
<td>D. H. Reynolds</td>
<td>$75.00</td>
</tr>
<tr>
<td>July</td>
<td>D. H. Reynolds</td>
<td>$75.00</td>
</tr>
<tr>
<td>August</td>
<td>M. R. J. Reid</td>
<td>$45.00</td>
</tr>
<tr>
<td>August</td>
<td>A. E. Skinner</td>
<td>$25.00</td>
</tr>
<tr>
<td>August</td>
<td>Wm. Lindsay</td>
<td>$8.90</td>
</tr>
<tr>
<td>August</td>
<td>L. A. Duncan and W. Addy</td>
<td>$155.00</td>
</tr>
<tr>
<td>September</td>
<td>D. H. Reynolds</td>
<td>$200.00</td>
</tr>
<tr>
<td>September</td>
<td>J. J. Williams</td>
<td>$100.00</td>
</tr>
<tr>
<td>October</td>
<td>Sheriff Gemmill</td>
<td>$49.00</td>
</tr>
<tr>
<td>October</td>
<td>J. H. Cameron</td>
<td>$25.00</td>
</tr>
<tr>
<td>November</td>
<td>T. D. Cowper</td>
<td>$354.00</td>
</tr>
<tr>
<td>November</td>
<td>D. H. Reynolds</td>
<td>$170.00</td>
</tr>
<tr>
<td>November</td>
<td>Alfred Miers</td>
<td>$20.00</td>
</tr>
<tr>
<td>November</td>
<td>D. H. Reynolds</td>
<td>$50.00</td>
</tr>
<tr>
<td>November</td>
<td>D. H. Reynolds</td>
<td>$50.00</td>
</tr>
<tr>
<td>November</td>
<td>J. S. Clute</td>
<td>$300.00</td>
</tr>
<tr>
<td>1917.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>T. D. Cowper</td>
<td>$55.00</td>
</tr>
<tr>
<td>January</td>
<td>J. A. Mitchell</td>
<td>$49.82</td>
</tr>
<tr>
<td>January</td>
<td>H. Bell</td>
<td>$20.00</td>
</tr>
<tr>
<td>February</td>
<td>E. Hollingsworth</td>
<td>$70.00</td>
</tr>
<tr>
<td>March</td>
<td>H. Bell</td>
<td>$20.00</td>
</tr>
<tr>
<td></td>
<td>Less Refunds</td>
<td>$2,059.72</td>
</tr>
<tr>
<td></td>
<td></td>
<td>200.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,859.72</td>
</tr>
</tbody>
</table>

I.—Statement of Chinese Immigration Revenue Collected by Ports during the fiscal year 1916-17.

<table>
<thead>
<tr>
<th>Port</th>
<th>Number of Chinese Exempts</th>
<th>Paying Head Tax.</th>
<th>Registrations for Leave.</th>
<th>Other Revenue</th>
<th>Total Revenue</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Number of Chinese</td>
<td>Amount (8 cts.)</td>
<td>Number</td>
<td>Amount (8 cts.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>$</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Victoria</td>
<td>58</td>
<td>16</td>
<td>8,000.00</td>
<td>1,318.00</td>
<td>1,318.00</td>
</tr>
<tr>
<td>Vancouver</td>
<td>65</td>
<td>32</td>
<td>17,500.00</td>
<td>1,992.00</td>
<td>1,992.00</td>
</tr>
<tr>
<td>Montreal</td>
<td>152</td>
<td>76</td>
<td>76,000.00</td>
<td>2</td>
<td>2.00</td>
</tr>
<tr>
<td>Ottawa</td>
<td>28</td>
<td>20</td>
<td>20,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Halifax</td>
<td>6</td>
<td>3,000.00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sydney</td>
<td>5</td>
<td>2,500.00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>All Ports</td>
<td>121</td>
<td>272</td>
<td>136,000.00</td>
<td>3,312.00</td>
<td>3,312.00</td>
</tr>
</tbody>
</table>
J.—Statement of Receipts on account of Sales of Land, which Amounts have been credited to the Special Accounts of the following Railway Companies for the fiscal year ended March 31, 1917.

<table>
<thead>
<tr>
<th>Railway Company</th>
<th>Date of Order in Council</th>
<th>Amount.</th>
<th>Total.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calgary and Edmonton Railway</td>
<td>August 17th, 1908</td>
<td>$172,377</td>
<td>00</td>
</tr>
<tr>
<td>Qu'Appelle, Long Lake and Saskatchewan Railway</td>
<td>May 8th, 1907, July 10th, 1907</td>
<td>$188,293</td>
<td>44</td>
</tr>
<tr>
<td>Lake Manitoba Railway and Canal Company</td>
<td>December 5th, 1908</td>
<td>$46,455</td>
<td>27</td>
</tr>
<tr>
<td>Canadian Northern Railway System</td>
<td></td>
<td></td>
<td>$407,123</td>
</tr>
</tbody>
</table>

"K" see next page.

L.—Statement of Gross Receipts (cash and scrip) on account of Dominion Lands Revenue for the fiscal year ended March 31, 1917, as compared with the previous year.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Dominion Lands Agencies</td>
<td>2,064,509 85</td>
<td>1,384,566 99</td>
<td>1,599,942 86</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crown Timber Agencies</td>
<td>414,842 61</td>
<td>387,397 85</td>
<td>47,444 76</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hay, Mining, Coal, Grazing, etc.</td>
<td>620,468 33</td>
<td>483,133 12</td>
<td>137,333 21</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yukon Territory</td>
<td>174,565 92</td>
<td>191,046 43</td>
<td>16,480 51</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Canadian National Parks</td>
<td>45,851 45</td>
<td>37,493 53</td>
<td>8,357 92</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Totals</td>
<td>4,190,238 16</td>
<td>2,443,639 92</td>
<td>1,763,078 75</td>
<td>16,480 51</td>
<td>1,746,598 24</td>
</tr>
</tbody>
</table>
K. — Statement of Gross Cash Receipts on Account of Dominion Lands Revenue for the fiscal year ended March 31, 1917.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1916</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>April</td>
<td>10,180.00</td>
<td>1,120.00</td>
<td>7,213.28</td>
<td>128,790.45</td>
<td>51,900.39</td>
<td>9,163.72</td>
<td>22,393.12</td>
<td>2,728.60</td>
<td>746.97</td>
<td>5,344.79</td>
<td>239,581.32</td>
</tr>
<tr>
<td>May</td>
<td>14,770.00</td>
<td>2,070.00</td>
<td>10,839.03</td>
<td>131,320.59</td>
<td>39,890.55</td>
<td>12,481.61</td>
<td>51,464.27</td>
<td>3,212.83</td>
<td>303.61</td>
<td>2,317.36</td>
<td>268,889.85</td>
</tr>
<tr>
<td>June</td>
<td>14,620.00</td>
<td>2,600.00</td>
<td>11,048.68</td>
<td>173,404.85</td>
<td>25,634.87</td>
<td>14,455.22</td>
<td>34,927.26</td>
<td>3,491.80</td>
<td>263.70</td>
<td>1,434.06</td>
<td>261,890.44</td>
</tr>
<tr>
<td>July</td>
<td>15,950.00</td>
<td>2,060.00</td>
<td>13,446.56</td>
<td>174,357.16</td>
<td>51,191.83</td>
<td>9,309.62</td>
<td>50,014.06</td>
<td>7,209.03</td>
<td>595.90</td>
<td>1,731.92</td>
<td>323,896.06</td>
</tr>
<tr>
<td>August</td>
<td>10,860.00</td>
<td>1,830.00</td>
<td>10,401.03</td>
<td>189,305.43</td>
<td>45,630.33</td>
<td>9,248.85</td>
<td>60,425.88</td>
<td>8,221.92</td>
<td>342.82</td>
<td>1,418.53</td>
<td>337,983.95</td>
</tr>
<tr>
<td>September</td>
<td>10,300.00</td>
<td>1,620.00</td>
<td>9,926.93</td>
<td>137,955.73</td>
<td>28,044.45</td>
<td>6,319.75</td>
<td>58,099.51</td>
<td>4,737.93</td>
<td>319.10</td>
<td>1,669.97</td>
<td>358,763.39</td>
</tr>
<tr>
<td>October</td>
<td>8,340.00</td>
<td>1,640.00</td>
<td>13,101.33</td>
<td>174,155.10</td>
<td>56,624.66</td>
<td>11,367.34</td>
<td>53,056.23</td>
<td>2,572.83</td>
<td>764.69</td>
<td>1,429.56</td>
<td>323,042.44</td>
</tr>
<tr>
<td>November</td>
<td>8,690.00</td>
<td>1,210.00</td>
<td>9,905.26</td>
<td>237,481.79</td>
<td>16,443.03</td>
<td>10,103.76</td>
<td>56,950.13</td>
<td>2,418.00</td>
<td>190.70</td>
<td>2,557.12</td>
<td>465,899.79</td>
</tr>
<tr>
<td>December</td>
<td>7,230.00</td>
<td>1,100.00</td>
<td>8,971.88</td>
<td>416,763.79</td>
<td>21,401.63</td>
<td>12,671.27</td>
<td>39,131.84</td>
<td>2,166.24</td>
<td>1,262.70</td>
<td>1,713.25</td>
<td>514,392.58</td>
</tr>
<tr>
<td>1917</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>4,550.00</td>
<td>760.00</td>
<td>6,209.62</td>
<td>228,117.26</td>
<td>44,325.25</td>
<td>11,487.61</td>
<td>47,581.35</td>
<td>2,365.69</td>
<td>382.28</td>
<td>3,007.10</td>
<td>400,816.16</td>
</tr>
<tr>
<td>February</td>
<td>3,320.20</td>
<td>620.00</td>
<td>4,791.63</td>
<td>209,297.46</td>
<td>22,218.37</td>
<td>7,390.76</td>
<td>51,585.69</td>
<td>3,015.53</td>
<td>540.83</td>
<td>2,142.22</td>
<td>305,025.69</td>
</tr>
<tr>
<td>March</td>
<td>5,270.00</td>
<td>720.00</td>
<td>6,836.10</td>
<td>131,174.36</td>
<td>26,097.71</td>
<td>14,025.95</td>
<td>75,334.79</td>
<td>3,691.95</td>
<td>925.38</td>
<td>4,654.62</td>
<td>449,710.86</td>
</tr>
<tr>
<td></td>
<td>112,110.20</td>
<td>17,350.00</td>
<td>112,711.33</td>
<td>2,767,2039.96</td>
<td>429,405.09</td>
<td>128,341.50</td>
<td>600,934.13</td>
<td>45,851.45</td>
<td>6,638.68</td>
<td>29,361.18</td>
<td>4,189,905.55</td>
</tr>
</tbody>
</table>
SESSIONAL PAPER No. 25

Annual report of the School Lands' Branch of the Department of the Interior for the fiscal year ending March 31, 1917.

Sales.

During the months of June and July, 1916, auction sales were held at Moosomin, Broadview, Indian Head, Wymark, Kindersley and Redvers, in the province of Saskatchewan, and at Carmangay, Vulcan and Munson, in the province of Alberta.

At these sales 50,640.85 acres were disposed of in the province of Saskatchewan, realizing $1,090,294.19, an average of $13.52 per acre. In Alberta 66,034.87 acres were disposed of, realizing $826,703.45, an average of $12.52 per acre.

In addition to the amounts realized as shown above, $5,935 were also realized from the sale of town lots at Wymark, Sask.

In November, 1916, another series of auction sales were held at the following points:—

Rossburn, Glencella and Dauphin, in Manitoba.
Kamsack, Blaine Lake and Biggar, in Saskatchewan, and Provost, Sedgewick and Chinook, in Alberta.

In Manitoba 37,359.80 acres were sold, realizing $352,362.92, an average of $9.43 per acre.
In Saskatchewan 35,163.66 acres were sold, realizing $570,761.29, an average of $16.09 per acre.
In Alberta 78,762.93 acres were sold, realizing $1,210,429.07, an average of $15.39 per acre.

In Manitoba the total area sold for the year, including the area sold to railway companies and for school sites, was 37,370.10 acres, realizing $352,538.52; in Saskatchewan 116,695.29 acres, realizing $1,664,233.70; and in Alberta 144,993.03 acres, realizing $2,039,037.37.

At the end of the fiscal year, March 31, 1917, after making the necessary adjustments on account of cancellation, etc., the total net area sold in each province, down to that date, was as follows:—

Manitoba, 692,250.06 acres for $6,700,321.54. average, $9.68.
Saskatchewan, 731,829.78 acres for $10,618,224.25, average, $14.51.
Alberta, 701,894.94 acres for $8,538,826.25, average, $12.17.

The sum of $5,388 has been realized from sales of town sites in Manitoba; $16,463 in Saskatchewan, in addition to the amounts as shown above.

GRAZING PERMITS.

During the year approximately 173 grazing permits were issued in Manitoba, 2,144 in Saskatchewan and 1,460 in Alberta, making a total of 3,777.
The total revenue derived from this source, for the three provinces, was $75,181.32.

COAL.

During the year fifteen coal leases were issued and the number of leases in force is 105.
The revenue derived from this source, for the three provinces, was $7,916.26.

PETROLEUM AND NATURAL GAS.

Twenty-six leases for this purpose were issued, and the number in force at the end of the fiscal year was 1,132.
The revenue derived from this source, for the three provinces, was $6,705.29.

25—i-96
HAY.

One lease was issued for the purpose of cutting hay, and 6,870 permits.
The revenue derived from this source for the year, for the three provinces, was $9,711.09.

TIMBER.

136 timber permits were issued during the fiscal year.
The revenue derived from this source, for the three provinces, was $3,383.12.

CULTIVATION.

Twenty-seven permits for this purpose were issued for such portions of school lands as had already been broken and had not returned to their original condition of prairie.
The revenue derived from these permits amounted to $425.15.

Statements herewith lettered A, B and C, respectively, show the revenue collected from school lands in the three provinces as classified.
The total net revenue from each province, during the fiscal year, was as follows:

<table>
<thead>
<tr>
<th>Province</th>
<th>Total Net Revenue</th>
<th>Less Principal Moneys of Sales</th>
<th>Revenue Other Than Principal Moneys</th>
<th>Less Expenditure</th>
<th>Amount Paid to Province</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manitoba</td>
<td>$283,243.01</td>
<td>$210,141.82</td>
<td>$73,101.19</td>
<td>$13,053.69</td>
<td>$60,047.50</td>
</tr>
<tr>
<td>Saskatchewan</td>
<td>$759,464.33</td>
<td>$541,877.52</td>
<td>$217,586.81</td>
<td>$15,962.26</td>
<td>$201,624.55</td>
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<tr>
<td>Alberta</td>
<td>$646,896.06</td>
<td>$468,442.48</td>
<td>$178,453.58</td>
<td>$16,259.05</td>
<td>$162,214.53</td>
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</tbody>
</table>

Under the provisions of the several Orders in Council, in that behalf, the net revenue collected from the school lands in each province during the fiscal year, less the principal moneys of sales, and less, also, the expenditure paid over to the government of each province, the amounts paid over being as follows:

<table>
<thead>
<tr>
<th>Province</th>
<th>Total Net Revenue</th>
<th>Less Principal Moneys of Sales</th>
<th>Revenue Other Than Principal Moneys</th>
<th>Less Expenditure</th>
<th>Amount Paid to Province</th>
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<tr>
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<td>$13,053.69</td>
<td>$60,047.50</td>
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<td>Saskatchewan</td>
<td>$759,464.33</td>
<td>$541,877.52</td>
<td>$217,586.81</td>
<td>$15,962.26</td>
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<tr>
<td>Alberta</td>
<td>$646,896.06</td>
<td>$468,442.48</td>
<td>$178,453.58</td>
<td>$16,259.05</td>
<td>$162,214.53</td>
</tr>
</tbody>
</table>
In addition to the foregoing the following amounts were paid to the provincial governments of Manitoba, Saskatchewan and Alberta, as interest on the school lands' fund for the fiscal year, viz:

- Manitoba: $119,198.61
- Saskatchewan: $106,846.52
- Alberta: $86,550.43

Total: $306,595.56

The total amount paid to each province for the fiscal year was as follows:

- Manitoba: $179,246.11
- Saskatchewan: $302,471.37
- Alberta: $248,754.96

Total: $730,472.44

The total expenditure for the fiscal year, on all accounts, was as follows:

- Manitoba: $12,053.49
- Saskatchewan: $15,962.26
- Alberta: $16,239.05

Total: $44,255.00

Statements lettered D, E and F show the balance standing to the credit of the school lands' funds, April 1, 1917, viz:

- Manitoba: $4,068,350.37
- Saskatchewan: $3,891,343.21
- Alberta: $3,099,222.01

The following is an approximate statement of the work of the branch during the fiscal year, viz:

- Letters received: 25,682
- Memorandums, telegrams, etc., sent out: 31,175
- Leases prepared: 42
- Statements of accounts, circular letters and notifications: 20,000
- Receipts issued: 4,937
- Grazing permits issued: 3,777
- Cultivation permits: 27
- Assignments registered: 379
- Requisitions for patents: 488
- Refunds: 468

FRANK S. CHECKLEY,
Controller.
A.—**Manitoba School Lands.**—Statement of Revenue Collected from School Lands for fiscal year from April 1, 1916, to March 31, both dates inclusive.

<table>
<thead>
<tr>
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<td>50 25</td>
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<td>11,690 88</td>
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<td>772 75</td>
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<td>80 80</td>
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<td>406 42</td>
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<td>14 90</td>
<td></td>
<td></td>
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<td>1 50</td>
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<td>2,432 98</td>
<td>1,530 17</td>
<td>1,738 87</td>
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<tr>
<td>Total</td>
<td>210,156 66</td>
<td>68,688 44</td>
<td>278,845 10</td>
<td>49 55</td>
<td>2,432 98</td>
<td>1,530 17</td>
<td>1,738 87</td>
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<td>284,596 67</td>
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<td>Fees transferred to Dominion Lands</td>
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<tr>
<td>Total</td>
<td>210,156 66</td>
<td>68,688 44</td>
<td>278,845 10</td>
<td>49 55</td>
<td>2,432 98</td>
<td>1,530 17</td>
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### B.—SASKATCHEWAN SCHOOL LANDS.—Statement of Revenue from School Lands for fiscal year from April 1, 1916, to March 31, both dates inclusive.

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<td>173,952 54</td>
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<td>40 00</td>
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<td>1,020 69</td>
<td>8,165 80</td>
<td>280 00</td>
<td>368 18</td>
<td>1,319 28</td>
<td>765,588 63</td>
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<td>707,228 13</td>
<td>311 00</td>
<td>47,175 55</td>
<td>1,020 69</td>
<td>8,165 80</td>
<td>280 00</td>
<td>368 18</td>
<td>1,319 28</td>
<td>765,588 63</td>
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<td>164,016 46</td>
<td>707,228 13</td>
<td>311 00</td>
<td>47,175 55</td>
<td>1,020 69</td>
<td>8,165 80</td>
<td>280 00</td>
<td>368 18</td>
<td>1,319 28</td>
<td>765,588 63</td>
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<td>164,016 46</td>
<td>707,228 13</td>
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<td>47,175 55</td>
<td>1,020 69</td>
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<td>280 00</td>
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C.—ALBERTA SCHOOL LANDS.—Statement of Revenue Collected from School Lands for fiscal year from April 1, 1916, to March 31, both dates inclusive.

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<th>Month</th>
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<th>Interest</th>
<th>Total</th>
<th>Cultivation</th>
<th>Grazing Rent</th>
<th>Timber</th>
<th>Hay</th>
<th>Registration Fees</th>
<th>Coal</th>
<th>Petroleum and Natural Gas</th>
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<td>57,559.88</td>
<td>57,559.88</td>
</tr>
<tr>
<td>February</td>
<td>14,475.54</td>
<td></td>
<td>14,475</td>
<td>8,684.71</td>
<td>116.61</td>
<td>1.00</td>
<td></td>
<td></td>
<td>712.35</td>
<td>2,101.50</td>
<td>16,184.87</td>
</tr>
<tr>
<td>March</td>
<td>23,730.72</td>
<td>43</td>
<td>23,773</td>
<td>3,678.39</td>
<td>14.85</td>
<td>0.40</td>
<td></td>
<td></td>
<td>1,322.94</td>
<td>572.00</td>
<td>24,135.73</td>
</tr>
<tr>
<td>Total</td>
<td>468,658.74</td>
<td>83</td>
<td>468,741</td>
<td>29,655.45</td>
<td>1,300.13</td>
<td>3,441.37</td>
<td></td>
<td></td>
<td>6,684.53</td>
<td>6,384.11</td>
<td>649,184.76</td>
</tr>
<tr>
<td>Registration Fees</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>397.75</td>
<td></td>
<td>397.75</td>
</tr>
<tr>
<td>Total</td>
<td>468,658.74</td>
<td>83</td>
<td>468,741</td>
<td>29,655.45</td>
<td>1,300.13</td>
<td>3,441.37</td>
<td></td>
<td></td>
<td>6,684.53</td>
<td>6,384.11</td>
<td>649,184.76</td>
</tr>
<tr>
<td>Fees transferred to Dominion Lands</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7.25</td>
<td>835.50</td>
<td>842.75</td>
</tr>
<tr>
<td>Total</td>
<td>468,658.74</td>
<td>83</td>
<td>468,741</td>
<td>29,655.45</td>
<td>1,300.13</td>
<td>3,441.37</td>
<td></td>
<td></td>
<td>397.75</td>
<td>6,684.53</td>
<td>6,384.11</td>
</tr>
<tr>
<td>Refunds</td>
<td>216.26</td>
<td>43</td>
<td>216.69</td>
<td>1,400.29</td>
<td>10.00</td>
<td>42.60</td>
<td></td>
<td></td>
<td>50.10</td>
<td>47.00</td>
<td>1,843.70</td>
</tr>
<tr>
<td>Total</td>
<td>468,442.48</td>
<td>83</td>
<td>468,525.48</td>
<td>28,255.16</td>
<td>1,282.88</td>
<td>2,563.27</td>
<td></td>
<td></td>
<td>397.75</td>
<td>6,634.43</td>
<td>6,337.11</td>
</tr>
</tbody>
</table>
# SESSIONAL PAPER No. 25

## D.—MANITOBA SCHOOL LANDS.—Statement of Revenue and Expenditure on Account of Manitoba School Lands for fiscal year ended March 31, 1917.

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Period</th>
<th>Dr.</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>By Balance on April 1, 1916</td>
<td>12 months ended Mar. 31, 1917</td>
<td>3,558,208 55</td>
<td>278,462 18</td>
</tr>
<tr>
<td>&quot; Sales</td>
<td>&quot;</td>
<td>29 55</td>
<td></td>
</tr>
<tr>
<td>&quot; Cultivation permits</td>
<td>&quot;</td>
<td>4,588 28</td>
<td></td>
</tr>
<tr>
<td>&quot; Timber dues, hay permits, grazing,</td>
<td>&quot;</td>
<td>163 00</td>
<td></td>
</tr>
<tr>
<td>rentals and petroleum</td>
<td>&quot;</td>
<td>119,198 61</td>
<td></td>
</tr>
<tr>
<td>&quot; Registration fees</td>
<td>&quot;</td>
<td>119,198 61</td>
<td></td>
</tr>
<tr>
<td>&quot; Interest on fund</td>
<td>&quot;</td>
<td>4,068,350 37</td>
<td></td>
</tr>
<tr>
<td>To</td>
<td>&quot;</td>
<td>4,209,776 84</td>
<td></td>
</tr>
<tr>
<td>Cost of management at Ottawa</td>
<td>&quot;</td>
<td>4,209,776 84</td>
<td></td>
</tr>
<tr>
<td>&quot; Salaries, printing, advertising and</td>
<td>&quot;</td>
<td>100,846 82</td>
<td></td>
</tr>
<tr>
<td>general expenses</td>
<td>&quot;</td>
<td>250 00</td>
<td></td>
</tr>
<tr>
<td>&quot; Revenue and interest paid to Manitoba</td>
<td>&quot;</td>
<td>201,624 55</td>
<td></td>
</tr>
<tr>
<td>Government</td>
<td>&quot;</td>
<td>100,846 82</td>
<td></td>
</tr>
<tr>
<td>&quot; Interest on fund paid to Manitoba</td>
<td>&quot;</td>
<td>3,391,343 21</td>
<td></td>
</tr>
<tr>
<td>Government</td>
<td>&quot;</td>
<td>4,209,776 84</td>
<td></td>
</tr>
<tr>
<td>&quot; Balance on March 31, 1917</td>
<td>&quot;</td>
<td>4,209,776 84</td>
<td></td>
</tr>
</tbody>
</table>

## E.—SASKATCHEWAN SCHOOL LANDS.—Statement of Revenue and Expenditure on Account of Saskatchewan School Lands for fiscal year ended March 31, 1917.

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Period</th>
<th>Dr.</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>By Balance on April 1, 1916</td>
<td>12 months ended Mar. 31, 1917</td>
<td>3,349,465 60</td>
<td>703,637 38</td>
</tr>
<tr>
<td>&quot; Sales</td>
<td>&quot;</td>
<td>311 00</td>
<td></td>
</tr>
<tr>
<td>&quot; Cultivation permits</td>
<td>&quot;</td>
<td>53,235 95</td>
<td></td>
</tr>
<tr>
<td>&quot; Timber dues, hay permits, grazing,</td>
<td>&quot;</td>
<td>100,846 82</td>
<td></td>
</tr>
<tr>
<td>rentals and petroleum</td>
<td>&quot;</td>
<td>250 00</td>
<td></td>
</tr>
<tr>
<td>&quot; Registration fees</td>
<td>&quot;</td>
<td>201,624 55</td>
<td></td>
</tr>
<tr>
<td>&quot; Interest on fund paid to Saskatchewan</td>
<td>&quot;</td>
<td>100,846 82</td>
<td></td>
</tr>
<tr>
<td>Government</td>
<td>&quot;</td>
<td>3,391,343 21</td>
<td></td>
</tr>
<tr>
<td>&quot; Balance on March 31, 1917</td>
<td>&quot;</td>
<td>4,209,776 84</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>4,209,776 84</td>
<td></td>
</tr>
</tbody>
</table>
F.—ALBERTA SCHOOL LANDS.—Statement of Revenue and Expenditure on Account of Alberta School Lands for fiscal year ended March 31, 1917.

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Period</th>
<th>Dr.</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>By Balance on April 1, 1916</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&quot; Sales</td>
<td>12 months ended Mar. 31, 1917</td>
<td></td>
<td>2,650,779</td>
</tr>
<tr>
<td>&quot; Cultivation permits</td>
<td></td>
<td></td>
<td>601,340</td>
</tr>
<tr>
<td>&quot; Timber dues, hay permits, grazing rentals and petroleum</td>
<td></td>
<td></td>
<td>45,072</td>
</tr>
<tr>
<td>&quot; Registration fees</td>
<td></td>
<td></td>
<td>397</td>
</tr>
<tr>
<td>&quot; Interest on fund</td>
<td></td>
<td></td>
<td>86,550</td>
</tr>
<tr>
<td>To Cost of management at Ottawa</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&quot; Salaries, printing, advertising and general expenses</td>
<td></td>
<td></td>
<td>10,210</td>
</tr>
<tr>
<td>&quot; Revenue and interest paid to Alberta Government</td>
<td></td>
<td></td>
<td>162,214</td>
</tr>
<tr>
<td>&quot; Interest on fund paid to Alberta Government</td>
<td></td>
<td></td>
<td>80,550</td>
</tr>
<tr>
<td>Balance on March 31, 1917</td>
<td></td>
<td></td>
<td>3,009,222</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3,364,226</td>
</tr>
</tbody>
</table>

LAND PATENTS BRANCH.


LETTERS PATENT.

The number of letters patent issued, during the period mentioned, was 18,774, covering an area of 3,019.178 acres, which may be classified as follows:

<table>
<thead>
<tr>
<th>Province</th>
<th>Patents</th>
<th>Acres</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manitoba</td>
<td>1,225</td>
<td>192,568</td>
</tr>
<tr>
<td>Saskatchewan</td>
<td>10,230</td>
<td>1,636,551</td>
</tr>
<tr>
<td>Alberta</td>
<td>7,915</td>
<td>1,156,995</td>
</tr>
<tr>
<td>British Columbia</td>
<td>270</td>
<td>31,586</td>
</tr>
<tr>
<td>Yukon Territory</td>
<td>30</td>
<td>1,130</td>
</tr>
<tr>
<td>Northwest Territories</td>
<td>4</td>
<td>148</td>
</tr>
<tr>
<td>Total</td>
<td>18,774</td>
<td>3,019,178</td>
</tr>
</tbody>
</table>

These grants, which are given in detail in the statements marked A to G inclusive, may be summarized as follows:

<table>
<thead>
<tr>
<th>Grants</th>
<th>Patents</th>
<th>Acres</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homesteads</td>
<td>12,901</td>
<td>2,098,335</td>
</tr>
<tr>
<td>Sales</td>
<td>902</td>
<td>129,237</td>
</tr>
<tr>
<td>Pre-emption sales</td>
<td>2,587</td>
<td>567,028</td>
</tr>
<tr>
<td>Purchased homesteads</td>
<td>745</td>
<td>117,660</td>
</tr>
<tr>
<td>Railways</td>
<td>445</td>
<td>79,569</td>
</tr>
<tr>
<td>Water supply right of way</td>
<td>16</td>
<td>2,158</td>
</tr>
<tr>
<td>Free grants</td>
<td>34</td>
<td>7,033</td>
</tr>
<tr>
<td>Hudson's Bay Company</td>
<td>6</td>
<td>965</td>
</tr>
<tr>
<td>Northwest half-breeds</td>
<td>35</td>
<td>140</td>
</tr>
<tr>
<td>Licensees of occupation</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>Quit claims</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>18,774</td>
<td>3,019,178</td>
</tr>
</tbody>
</table>

There was a decrease of 215 patents and 70,458 acres, as compared with the preceding year.
There are recorded in the Land Patents Branch 357,499 letters patent, aggregating 85,259,080 acres, which have been issued since May, 1873, to March 31, 1917. The accompanying statement marked H shows the number of patents issued each year during that period, with the acreage patented during each of such years.

**LANDS DISPOSED OF.**

Twelve thousand eight hundred and forty-one entries were granted during the year, aggregating approximate area of 2,067,356 acres, made up as follows:

<table>
<thead>
<tr>
<th>Homestead Entries—</th>
<th>Acres.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manitoba</td>
<td></td>
</tr>
<tr>
<td>Saskatchewan</td>
<td></td>
</tr>
<tr>
<td>Alberta</td>
<td></td>
</tr>
<tr>
<td>British Columbia</td>
<td></td>
</tr>
<tr>
<td></td>
<td>11,199</td>
</tr>
</tbody>
</table>

| Pre-emption Entries—        |        |
| Saskatchewan                | 1,008  |
| Alberta                     | 452    |
|                             | 1,460  | 233,600   |

| Purchased Homesteads—       |        |
| Saskatchewan                | 156    |
| Alberta                     | 196    |
|                             | 262    | 41,929    |

|                             | 12,841 | 2,067,356 |

There was a decrease in the number of homestead entries granted, as compared with the previous year, of 5,831 entries.

By land agencies, the 11,199 homestead entries were made up as follows:

| Manitoba—                   |        |
| Dauphin                     |        |
| Winnipeg                    |        |
|                             | 2,276  |

| Saskatchewan—               |        |
| Battleford                  | 518    |
| Estevan                     | 1      |
| Humboldt                    | 334    |
| Maple Creek                 | 552    |
| Moose jaw                   | 546    |
| Prince Albert               | 736    |
| Meadow Lake                 | 7      |
| Regina                      | 6      |
| Saskatoon                   | 332    |
| Swift Current               | 493    |
| Weyburn                     | 200    |
| Yorkton                     | 380    |
|                             | 4,195  |

| Alberta—                    |        |
| Calgary                     | 511    |
| Edmonton                    | 1,858  |
| Grande Prairie              | 836    |
| High Prairie                | 71     |
| Lethbridge                  | 158    |
| Medicine Hat                | 443    |
| Peace River                 | 423    |
| Red Deer                    | 250    |
|                             | 4,550  |

| British Columbia—           |        |
| Kamloops                    | 710    |
| New Westminster             | 47     |
| Revelstoke                  | 51     |
|                             | 288    |
The 11,199 entrants for homesteads represented 25,791 persons, as compiled from the information obtained from each entrant. Of these entries 3,483 were made by residents of the several provinces of the Dominion; 17 by Canadians who had returned from the United States; and 1,642 by persons who had obtained homestead entries, but which had either been cancelled by default or at the request of the entrants in order, in most cases, to enter for other lands; 2,159 were made by persons from the British Isles, 1,734 by Americans, 459 by Russians, 226 by Norwegians, 235 by Swedes, 75 by Germans, 65 by Frenchmen, 46 by Belgians, and the remaining 293 homestead entries were made by citizens of various other countries.

CANCELLED ENTRIES.

There were cancelled, during the same period, 11,421 entries, made up as follows:—

<table>
<thead>
<tr>
<th></th>
<th>Manitoba</th>
<th>Saskatchewan</th>
<th>Alberta</th>
<th>British Columbia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homesteads</td>
<td>1,578</td>
<td>3,558</td>
<td>4,101</td>
<td>333</td>
</tr>
<tr>
<td>Pre-emption</td>
<td>1,092</td>
<td>65</td>
<td>655</td>
<td></td>
</tr>
<tr>
<td>Purchased homesteads</td>
<td>9</td>
<td>6</td>
<td>33</td>
<td>2</td>
</tr>
<tr>
<td>Sales</td>
<td>6</td>
<td>9</td>
<td>9</td>
<td>2</td>
</tr>
<tr>
<td>Total</td>
<td>1,587</td>
<td>4,701</td>
<td>4,798</td>
<td>335</td>
</tr>
</tbody>
</table>

SALES.

Three hundred and eighty-nine sales were made during the fiscal year for 27,074 acres of land, with an average for each sale of about 69 acres.

NEWLY SURVEYED LANDS THROWN OPEN TO HOMESTEAD ENTRY.

During the past fiscal year newly surveyed lands, comprised in one hundred and eighty-four townships, were made available for homestead entry in the following land agencies:—

<table>
<thead>
<tr>
<th></th>
<th>Manitoba</th>
<th>Saskatchewan</th>
<th>Alberta</th>
<th>British Columbia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dauphin</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maple Creek</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lethbridge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calgary</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Edmonton</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grande Prairie</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grouard</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Peace River Crossing</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Revelstoke</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kamloops</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Westminster</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td>184</td>
</tr>
</tbody>
</table>

ACCOUNTS AND REVENUE.

There are at present kept in the branch about 50,000 accounts in connection with purchased homesteads, pre-emptions and ordinary sales.

During the fiscal year $2,678,241.17, including $213,091.37 interest on deferred payments, was received on account of purchased homesteads, pre-emptions and ordinary sales, being an increase of $1,637,915.17 as compared with the payments received during the previous year.
REFUNDS.

In connection with the sales and moneys collected for the value of improvements on cancelled homesteads, there were 2,588 refunds made, amounting to $104,636.98, including 1,392 refunds, amounting to $80,946.58, on account of improvements, and in connection with seed grain accounts, 357 refunds, amounting to $17,089.56. The latter refunds were mostly made for duplicate and excess payments, while the refunds made on account of sales were for overpayments, and on cancelled purchased homesteads and pre-emption sales.

The following is a summary showing approximately the work performed in the Land Patents Branch during the fiscal year ended March, 1917:

<table>
<thead>
<tr>
<th>Description</th>
<th>Figures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Files dealt with</td>
<td>252,700</td>
</tr>
<tr>
<td>Letters sent written in assistant secretary’s office</td>
<td>5,180</td>
</tr>
<tr>
<td>“ “ the branch</td>
<td>59,292</td>
</tr>
<tr>
<td>Notices sent patentees with statements of account sent to purchasers and Dominion Lands agents</td>
<td>42,102</td>
</tr>
<tr>
<td>Patents issued</td>
<td>44,940</td>
</tr>
<tr>
<td>Land entries checked and posted</td>
<td>18,774</td>
</tr>
<tr>
<td>Entries cancelled and recorded</td>
<td>12,021</td>
</tr>
<tr>
<td>Receipts issued</td>
<td>11,421</td>
</tr>
<tr>
<td>Requisitions for refunds prepared</td>
<td>1,163</td>
</tr>
<tr>
<td>Payments amounting to about $2,678,211.17 checked and posted</td>
<td>2,588</td>
</tr>
<tr>
<td>Assignments registered</td>
<td>88</td>
</tr>
<tr>
<td>Applications to purchase land dealt with</td>
<td>540</td>
</tr>
<tr>
<td>Seed grain certificates issued</td>
<td>30,355</td>
</tr>
<tr>
<td>“ “ discharges</td>
<td>20,479</td>
</tr>
<tr>
<td>Certified copies of patents prepared</td>
<td>192</td>
</tr>
<tr>
<td>Preliminary plans sent to the different land agencies</td>
<td>184</td>
</tr>
</tbody>
</table>

A great number of plans and sketches were prepared as well as memoranda to Council and special reports, etc., of which no record is kept.

N. O. COTE,
Controller of Lands Patents Branch and Registrar of Dominion Lands Patents.
A.—STATEMENT OF LETTERS PATENT covering Dominion Lands situate in Manitoba, Saskatchewan, Alberta, Northwest Territories, British Columbia and the Yukon Territory, issued from the Department of the Interior during the fiscal year ending March 31, 1917, as compared with the fiscal year ending March 31, 1916, and recorded in the Land Patents Branch.

<table>
<thead>
<tr>
<th>No.</th>
<th>Nature of Grant</th>
<th>From April 1, 1916 to March 31, 1917</th>
<th>From April 1, 1915 to March 31, 1916</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Alberta Railway and Irrigation Co’s sales</td>
<td>34</td>
<td>34,065</td>
</tr>
<tr>
<td>2</td>
<td>British Columbia homesteads</td>
<td>144</td>
<td>17,957</td>
</tr>
<tr>
<td>3</td>
<td>British Columbia homesteads, Peace River Block</td>
<td>83</td>
<td>13,209</td>
</tr>
<tr>
<td>4</td>
<td>British Columbia sales</td>
<td>29</td>
<td>564</td>
</tr>
<tr>
<td>5</td>
<td>Coal lands sales</td>
<td>6</td>
<td>1,108</td>
</tr>
<tr>
<td>6</td>
<td>Indian surface sales</td>
<td>1</td>
<td>50</td>
</tr>
<tr>
<td>7</td>
<td>Commutation grants</td>
<td>1</td>
<td>105</td>
</tr>
<tr>
<td>8</td>
<td>Greater Winnipeg Water District</td>
<td>15</td>
<td>2,148</td>
</tr>
<tr>
<td>9</td>
<td>Homesteads</td>
<td>12,672</td>
<td>2,067,085</td>
</tr>
<tr>
<td>10</td>
<td>Hudson’s Bay Co.</td>
<td>34</td>
<td>16,297</td>
</tr>
<tr>
<td>11</td>
<td>License of occupation</td>
<td>35</td>
<td>140</td>
</tr>
<tr>
<td>12</td>
<td>Manitoba University grants</td>
<td>1</td>
<td>105</td>
</tr>
<tr>
<td>13</td>
<td>Military bounty grants</td>
<td>1</td>
<td>243</td>
</tr>
<tr>
<td>14</td>
<td>Military homesteads</td>
<td>1</td>
<td>243</td>
</tr>
<tr>
<td>15</td>
<td>Mining lands sales (102 acres, Under rights)</td>
<td>3</td>
<td>114</td>
</tr>
<tr>
<td>16</td>
<td>Mineral rights ($19 acres)</td>
<td>5</td>
<td>14</td>
</tr>
<tr>
<td>17</td>
<td>Northwest half-breed grants</td>
<td>6</td>
<td>965</td>
</tr>
<tr>
<td>18</td>
<td>Northwest half-breed grants, Peace River Block</td>
<td>6</td>
<td>965</td>
</tr>
<tr>
<td>19</td>
<td>Parish sales</td>
<td>4</td>
<td>392</td>
</tr>
<tr>
<td>20</td>
<td>Pre-emption sales</td>
<td>3,567</td>
<td>567,025</td>
</tr>
<tr>
<td>21</td>
<td>Purchased homesteads</td>
<td>748</td>
<td>117,660</td>
</tr>
<tr>
<td>22</td>
<td>Quit claim, special grants (2,998 acres)</td>
<td>30</td>
<td>42</td>
</tr>
</tbody>
</table>

| Railways | | |
| 23 | Alberta Central Railway Co. | 1 | 1 | |
| 24 | Alberta and Great Waterways Railway Co. | 2 | 13 | 1 | 1 |
| 25 | Calgary and Edmonton Railway Co. | 84 | 26,989 | 48 | 15,369 |
| 26 | Canadian Northern Alberta Railway Co | 2 | 13 | 1 | 1 |
| 27 | Canadian Northern Railway Co. | 61 | 10,413 | 160 | 21,146 |
| 28 | Canadian Northwestern Railway Co. | 5 | 81 | 18 | 289 |
| 29 | Canadian Northern Pacific Railway Co. | 1 | 135 | |
| 30 | Canadian Pacific Railway grants | 35 | 289 | 144 | 1,719 |
| 31 | Canadian Pacific Railway roadway and station grounds | 11 | 88 | 2 | 7 |
| 32 | Edmonton, Dunvegan and British Columbia Railway Co. | 16 | 237 | 18 | 120 |
| 33 | Grand Trunk Pacific Railway | 13 | 194 | 20 | 770 |
| 34 | Grand Trunk Pacific Branch Lines Co. | 16 | 116 | 22 | 165 |
| 35 | Kootenay Central Railway Co. | 1 | 9 | |
| 36 | Manitoba and Southeastern Railway Co. | 6 | 910 | |
| 37 | Qu’Appelle, Long Lake and Saskatchewan Railroad and Steamboat Co. | 191 | 40,160 | 170 | 37,956 |
| 38 | Winnipeg River Railway Co. | 2 | 55 | |
| 39 | Sales | 352 | 29,427 | 541 | 33,231 |
| 40 | School lands sales | 440 | 62,567 | 343 | 33,689 |
| 41 | Special grants | 88 | 6,924 | 120 | 4,844 |
| 42 | Vancouver Power Co. right of way | 1 | 10 | |
| 43 | Yukon Territory homesteads | 1 | 160 | 2 | 290 |
| 44 | Yukon Territory sales (40 acres, Under rights) | 29 | 970 | 60 | 2,558 |
| **Totals** | 18,774 | 3,019,178 | 18,996 | 3,089,636 |
### B. Statement of Letters Patent covering Dominion Lands situate in the Province of Manitoba, issued from the Department of the Interior during the fiscal year ending March 31, 1917, as compared with the fiscal year ending March 31, 1916, and recorded in the Land Patents Branch.

<table>
<thead>
<tr>
<th>No.</th>
<th>Nature of Grant</th>
<th>From April 1, 1916 to March 31, 1917</th>
<th>From April 1, 1915 to March 31, 1916</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Patents</td>
<td>Acres</td>
<td>Patents</td>
</tr>
<tr>
<td>1</td>
<td>Commutation grants</td>
<td>15</td>
<td>50</td>
</tr>
<tr>
<td>2</td>
<td>Greater Winnipeg Water District</td>
<td>919</td>
<td>145,185</td>
</tr>
<tr>
<td>3</td>
<td>Homesteads</td>
<td>19</td>
<td>10,506</td>
</tr>
<tr>
<td>4</td>
<td>Hudson's Bay Co.</td>
<td>1</td>
<td>165</td>
</tr>
<tr>
<td>5</td>
<td>Manitoba University grants</td>
<td>2</td>
<td>95</td>
</tr>
<tr>
<td>6</td>
<td>Military homesteads</td>
<td>4</td>
<td>392</td>
</tr>
<tr>
<td>7</td>
<td>Mining lands sales (102 acres, Under rights)</td>
<td>4</td>
<td>392</td>
</tr>
<tr>
<td>8</td>
<td>Parish sales</td>
<td>1</td>
<td>143</td>
</tr>
<tr>
<td>9</td>
<td>Pre-emption sales</td>
<td>23</td>
<td>381</td>
</tr>
<tr>
<td>10</td>
<td>Quit claim, special grants (91 acres)</td>
<td>1</td>
<td>143</td>
</tr>
<tr>
<td>11</td>
<td>Canadian Northern Railway Co.</td>
<td>2</td>
<td>7</td>
</tr>
<tr>
<td>12</td>
<td>Canadian Pacific Railway Co.</td>
<td>2</td>
<td>55</td>
</tr>
<tr>
<td>13</td>
<td>Canadian Pacific Railway roadbed and station grounds</td>
<td>37</td>
<td>1,980</td>
</tr>
<tr>
<td>14</td>
<td>Winnipeg River Railway Co.</td>
<td>183</td>
<td>39,881</td>
</tr>
<tr>
<td>15</td>
<td>School lands sales</td>
<td>15</td>
<td>730</td>
</tr>
<tr>
<td></td>
<td>Totals</td>
<td>1,225</td>
<td>192,668</td>
</tr>
</tbody>
</table>

### C. Statement of Letters Patent covering Dominion Lands situate in the Province of Saskatchewan, issued from the Department of the Interior during the fiscal year ending March 31, 1917, as compared with the fiscal year ending March 31, 1916, and recorded in the Land Patents Branch.

<table>
<thead>
<tr>
<th>No.</th>
<th>Nature of Grant</th>
<th>From April 1, 1915, to March 31, 1917</th>
<th>From April 1, 1915, to March 31, 1916</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Patents</td>
<td>Acres</td>
<td>Patents</td>
</tr>
<tr>
<td>1</td>
<td>Homesteads</td>
<td>6,789</td>
<td>1,103,426</td>
</tr>
<tr>
<td>2</td>
<td>Hudson's Bay Co.</td>
<td>7</td>
<td>3,044</td>
</tr>
<tr>
<td>3</td>
<td>License of occupation</td>
<td>19</td>
<td>85</td>
</tr>
<tr>
<td>4</td>
<td>Mineral rights</td>
<td>3</td>
<td>563</td>
</tr>
<tr>
<td>5</td>
<td>Northwest half-breed grants</td>
<td>2,259</td>
<td>359,108</td>
</tr>
<tr>
<td>6</td>
<td>Pre-emption sales</td>
<td>499</td>
<td>78,083</td>
</tr>
<tr>
<td>7</td>
<td>Purchased homesteads</td>
<td>24</td>
<td>321</td>
</tr>
<tr>
<td>8</td>
<td>Quit claim, special grants (2730 acres)</td>
<td>38</td>
<td>10,032</td>
</tr>
<tr>
<td>9</td>
<td>Canadian Pacific Railway grants</td>
<td>19</td>
<td>138</td>
</tr>
<tr>
<td>10</td>
<td>Canadian Pacific Railway roadbed and station grounds</td>
<td>5</td>
<td>65</td>
</tr>
<tr>
<td>11</td>
<td>Grand Trunk Pacific Railway</td>
<td>5</td>
<td>108</td>
</tr>
<tr>
<td>12</td>
<td>Grand Trunk Pacific Branch Lines Co</td>
<td>6</td>
<td>910</td>
</tr>
<tr>
<td>13</td>
<td>Manitoba and Southeastern Railway Co.</td>
<td>191</td>
<td>40,160</td>
</tr>
<tr>
<td>14</td>
<td>Qu'Appelle, Long Lake and Saskatchewan Railroad and Steamboat Co</td>
<td>109</td>
<td>16,273</td>
</tr>
<tr>
<td>15</td>
<td>School lands sales</td>
<td>148</td>
<td>16,004</td>
</tr>
<tr>
<td>16</td>
<td>Special grants</td>
<td>37</td>
<td>2,311</td>
</tr>
<tr>
<td></td>
<td>Totals</td>
<td>10,230</td>
<td>1,636,551</td>
</tr>
</tbody>
</table>
D.—Statement of Letters Patent covering Dominion Lands situate in the Province of Alberta, issued from the Department of the Interior during the fiscal year ending March 31, 1917, as compared with the fiscal year ending March 31, 1916, and recorded in the Land Patents Branch.

<table>
<thead>
<tr>
<th>No.</th>
<th>Nature of Grant</th>
<th>From April 1, 1916, to March 31, 1917</th>
<th>From April 1, 1915, to March 31, 1916</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Patents</td>
<td>Acres</td>
<td>Patents</td>
</tr>
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<td>34</td>
<td>34,065</td>
<td>24</td>
</tr>
<tr>
<td>2</td>
<td>6</td>
<td>1,108</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>4,964</td>
<td>512,525</td>
<td>6,080</td>
</tr>
<tr>
<td>5</td>
<td>7</td>
<td>3,418</td>
<td>18</td>
</tr>
<tr>
<td>6</td>
<td>16</td>
<td>55</td>
<td>14</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
<td>243</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>1</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>4</td>
<td>14</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>3</td>
<td>402</td>
<td>6</td>
</tr>
<tr>
<td>11</td>
<td>1</td>
<td>1,458</td>
<td>1</td>
</tr>
<tr>
<td>12</td>
<td>1,307</td>
<td>207,777</td>
<td>182</td>
</tr>
<tr>
<td>13</td>
<td>249</td>
<td>39,637</td>
<td>182</td>
</tr>
<tr>
<td>14</td>
<td>5</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>16</td>
<td>1</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>17</td>
<td>2</td>
<td>13</td>
<td>1</td>
</tr>
<tr>
<td>18</td>
<td>82</td>
<td>26,666</td>
<td>47</td>
</tr>
<tr>
<td>19</td>
<td>2</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>5</td>
<td>81</td>
<td>18</td>
</tr>
<tr>
<td>21</td>
<td>15</td>
<td>151</td>
<td>63</td>
</tr>
<tr>
<td>22</td>
<td>16</td>
<td>123</td>
<td>18</td>
</tr>
<tr>
<td>23</td>
<td>5</td>
<td>237</td>
<td>535</td>
</tr>
<tr>
<td>24</td>
<td>1</td>
<td>8</td>
<td>2</td>
</tr>
<tr>
<td>25</td>
<td>143</td>
<td>11,055</td>
<td>234</td>
</tr>
<tr>
<td>26</td>
<td>109</td>
<td>15,682</td>
<td>94</td>
</tr>
<tr>
<td>27</td>
<td>35</td>
<td>3,987</td>
<td>49</td>
</tr>
<tr>
<td>28</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Totals</td>
<td>7,015</td>
<td>1,156,995</td>
<td>7,448</td>
</tr>
</tbody>
</table>
E.—Statement of Letters Patent covering Dominion Lands situate in the Province of British Columbia, issued from the Department of the Interior during the fiscal year ending March 31, 1917, as compared with the fiscal year ending March 31, 1916, and recorded in the Land Patents Branch.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>British Columbia homesteads</td>
<td>144</td>
<td>17,687</td>
</tr>
<tr>
<td>2</td>
<td>British Columbia homesteads, Peace River Block</td>
<td>83</td>
<td>13,209</td>
</tr>
<tr>
<td>3</td>
<td>British Columbia sales</td>
<td>29</td>
<td>594</td>
</tr>
<tr>
<td>4</td>
<td>Northwest half-breed grants</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Railways—</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Canadian Northern Pacific Railway Co.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Canadian Pacific Railway roadbed and station grounds.</td>
<td>9</td>
<td>81</td>
</tr>
<tr>
<td>6</td>
<td>Kootenay Central Railway Co.</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>7</td>
<td>Special grants</td>
<td>3</td>
<td>96</td>
</tr>
<tr>
<td>8</td>
<td>Vancouver Power Co., right of way</td>
<td>1</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>Totals</td>
<td>270</td>
<td>31,686</td>
</tr>
</tbody>
</table>

F.—Statement of Letters Patent covering Dominion Lands situate in the Yukon Territory issued from the Department of the Interior during the fiscal year ending March 31, 1917, as compared with the fiscal year ending March 31, 1916, and recorded in the Land Patents Branch.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Yukon Territory homesteads</td>
<td>1</td>
<td>160</td>
</tr>
<tr>
<td>2</td>
<td>Yukon Territory sales</td>
<td>29</td>
<td>970</td>
</tr>
<tr>
<td></td>
<td>Totals</td>
<td>30</td>
<td>1,130</td>
</tr>
</tbody>
</table>

G.—Statement of Letters Patent covering Lands situate in the Northwest Territories, issued from the Department of the Interior during the fiscal year ending March 31, 1917, as compared with the fiscal year ending March 31, 1916, and recorded in the Land Patents Branch.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Hudson's Bay Co.</td>
<td>1</td>
<td>29</td>
</tr>
<tr>
<td>2</td>
<td>Sales</td>
<td>3</td>
<td>119</td>
</tr>
<tr>
<td></td>
<td>Totals</td>
<td>4</td>
<td>148</td>
</tr>
</tbody>
</table>
H.—Statement showing the number of Letters Patent issued by the Department of the Interior for Dominion Lands since 1873, and the number of acres patented.

<table>
<thead>
<tr>
<th>Period</th>
<th>No. of patents issued</th>
<th>Acreage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1873, May to December 31</td>
<td>420</td>
<td>67,200</td>
</tr>
<tr>
<td>1874, January 1 to December 31</td>
<td>577</td>
<td>92,320</td>
</tr>
<tr>
<td>1875, year ended October 31</td>
<td>464</td>
<td>74,240</td>
</tr>
<tr>
<td>1876, &quot;</td>
<td>318</td>
<td>50,850</td>
</tr>
<tr>
<td>1877, &quot;</td>
<td>2,437</td>
<td>478,840</td>
</tr>
<tr>
<td>1878, &quot;</td>
<td>2,357</td>
<td>462,850</td>
</tr>
<tr>
<td>1879, &quot;</td>
<td>2,663</td>
<td>426,060</td>
</tr>
<tr>
<td>1880, &quot;</td>
<td>1,084</td>
<td>173,440</td>
</tr>
<tr>
<td>1881, &quot;</td>
<td>1,885</td>
<td>400,862</td>
</tr>
<tr>
<td>1882, &quot;</td>
<td>2,197</td>
<td>506,785</td>
</tr>
<tr>
<td>1883, &quot;</td>
<td>4,341</td>
<td>831,341</td>
</tr>
<tr>
<td>1884, &quot;</td>
<td>3,896</td>
<td>969,604</td>
</tr>
<tr>
<td>1885, &quot;</td>
<td>3,533</td>
<td>898,464</td>
</tr>
<tr>
<td>1886, &quot;</td>
<td>4,570</td>
<td>942,055</td>
</tr>
<tr>
<td>1887, &quot;</td>
<td>4,599</td>
<td>1,071,364</td>
</tr>
<tr>
<td>1888, &quot;</td>
<td>3,275</td>
<td>647,644</td>
</tr>
<tr>
<td>1889, &quot;</td>
<td>3,282</td>
<td>661,656</td>
</tr>
<tr>
<td>1890, &quot;</td>
<td>3,273</td>
<td>626,019</td>
</tr>
<tr>
<td>1891, &quot;</td>
<td>2,449</td>
<td>411,073</td>
</tr>
<tr>
<td>1892, &quot;</td>
<td>2,955</td>
<td>549,257</td>
</tr>
<tr>
<td>1893, &quot;</td>
<td>2,956</td>
<td>502,601</td>
</tr>
<tr>
<td>1894, &quot;</td>
<td>2,553</td>
<td>420,238</td>
</tr>
<tr>
<td>1895, November and December</td>
<td>413</td>
<td>66,102</td>
</tr>
<tr>
<td>1896, year ended December 31</td>
<td>2,118</td>
<td>348,964</td>
</tr>
<tr>
<td>1897, &quot;</td>
<td>2,665</td>
<td>531,861</td>
</tr>
<tr>
<td>1898, &quot;</td>
<td>2,972</td>
<td>499,859</td>
</tr>
<tr>
<td>1899, &quot;</td>
<td>3,037</td>
<td>646,671</td>
</tr>
<tr>
<td>1900, January 1 to June 30</td>
<td>3,904</td>
<td>714,748</td>
</tr>
<tr>
<td>1901, year ended June 30</td>
<td>1,970</td>
<td>310,501</td>
</tr>
<tr>
<td>1902, &quot;</td>
<td>6,461</td>
<td>6,846,857</td>
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<tr>
<td>1903, &quot;</td>
<td>8,768</td>
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<td>1904, &quot;</td>
<td>7,349</td>
<td>5,266,338</td>
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<td>1905, &quot;</td>
<td>6,880</td>
<td>2,982,579</td>
</tr>
<tr>
<td>1906, &quot;</td>
<td>8,788</td>
<td>6,197,354</td>
</tr>
<tr>
<td>1907, &quot;</td>
<td>12,370</td>
<td>4,181,345</td>
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<tr>
<td>1908, &quot;</td>
<td>10,596</td>
<td>2,561,330</td>
</tr>
<tr>
<td>1909, &quot;</td>
<td>18,690</td>
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<td>1910, &quot;</td>
<td>22,451</td>
<td>4,215,336</td>
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<tr>
<td>1911, &quot;</td>
<td>22,854</td>
<td>3,662,259</td>
</tr>
<tr>
<td>1912, &quot;</td>
<td>21,754</td>
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<td>1913, &quot;</td>
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<td>1916, &quot;</td>
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<td>1917, &quot;</td>
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<td>1918, &quot;</td>
<td>18,774</td>
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| Total | 357,499 | 85,259,080 |
I.—Statement showing the number of Homestead Entries made during the fiscal year 1916-17, as compared with fiscal year 1915-16.

**RECAPITULATION.**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
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<th></th>
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<td>Humboldt</td>
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<td>90</td>
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<td>90</td>
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<td>30</td>
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<td>Regina</td>
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<td>Revelstoke</td>
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<td>90</td>
<td>30</td>
<td>90</td>
<td>30</td>
<td>90</td>
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<tr>
<td>Saskatoon</td>
<td>70</td>
<td>27</td>
<td>90</td>
<td>30</td>
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<td>30</td>
<td>90</td>
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<td>Swift Current</td>
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<tr>
<td>Weyburn</td>
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<td>90</td>
<td>30</td>
<td>90</td>
<td>30</td>
<td>90</td>
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<td>Yorkton</td>
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<td>30</td>
<td>90</td>
<td>30</td>
<td>90</td>
<td>30</td>
</tr>
<tr>
<td>Total</td>
<td>3,960</td>
<td>2,276</td>
<td>6,247</td>
<td>4,105</td>
<td>6,410</td>
<td>4,550</td>
<td>4,105</td>
<td>4,550</td>
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Number of entries—

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<th>Fiscal year 1915-16</th>
<th>17,030</th>
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<td>Fiscal year 1916-17</td>
<td>11,197</td>
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Net decrease for 1916-17... 5,833

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<tr>
<th>Month</th>
<th>Manitoba 1916-17</th>
<th>Saskatchewan 1916-17</th>
<th>Alberta 1916-17</th>
<th>British Columbia 1916-17</th>
</tr>
</thead>
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<td>January</td>
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<td>420</td>
<td>172</td>
<td>475</td>
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<tr>
<td>February</td>
<td>54</td>
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<td>511</td>
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<td>March</td>
<td>74</td>
<td>425</td>
<td>220</td>
<td>756</td>
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<td>April</td>
<td>100</td>
<td>413</td>
<td>375</td>
<td>742</td>
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<tr>
<td>May</td>
<td>365</td>
<td>265</td>
<td>508</td>
<td>658</td>
</tr>
<tr>
<td>June</td>
<td>294</td>
<td>421</td>
<td>555</td>
<td>422</td>
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<tr>
<td>July</td>
<td>258</td>
<td>434</td>
<td>477</td>
<td>484</td>
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<tr>
<td>August</td>
<td>198</td>
<td>345</td>
<td>382</td>
<td>692</td>
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<tr>
<td>September</td>
<td>215</td>
<td>308</td>
<td>307</td>
<td>568</td>
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<tr>
<td>October</td>
<td>190</td>
<td>184</td>
<td>294</td>
<td>265</td>
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<tr>
<td>November</td>
<td>193</td>
<td>201</td>
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<tr>
<td>December</td>
<td>169</td>
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<td>368</td>
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Total... 2,276 3,960 4,105 6,247 4,550 6,410 413 268

25—i—10 ½
J.—Statement showing number of Homestead Entries granted in the Provinces of Manitoba, Saskatchewan, Alberta and British Columbia for fiscal year 1916-17, as compared with fiscal year 1915-16.

<table>
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<tr>
<th>Agency</th>
<th>1916-17</th>
<th>1915-16</th>
<th>Increase</th>
<th>Decrease</th>
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</tr>
<tr>
<td>Brandon</td>
<td>1,065</td>
<td>1,036</td>
<td>66</td>
<td>690</td>
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<tr>
<td>Dauphin</td>
<td>1,271</td>
<td>2,238</td>
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<td>967</td>
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<td>Total</td>
<td>2,336</td>
<td>3,274</td>
<td></td>
<td>938</td>
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<td>221</td>
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<td>Estevan</td>
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<td>22</td>
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<tr>
<td>Humboldt</td>
<td>334</td>
<td>546</td>
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<td>Maple Creek</td>
<td>552</td>
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<td>Moose Jaw</td>
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<td>162</td>
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<tr>
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<td>1,225</td>
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<td>489</td>
</tr>
<tr>
<td>Meadow Lake</td>
<td>4</td>
<td>7</td>
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<td>3</td>
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<tr>
<td>Regina</td>
<td>6</td>
<td>85</td>
<td></td>
<td>79</td>
</tr>
<tr>
<td>Saskatoon</td>
<td>332</td>
<td>439</td>
<td></td>
<td>107</td>
</tr>
<tr>
<td>Swift Current</td>
<td>493</td>
<td>762</td>
<td></td>
<td>269</td>
</tr>
<tr>
<td>Weyburn</td>
<td>546</td>
<td>736</td>
<td></td>
<td>190</td>
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<tr>
<td>Yorkton</td>
<td>380</td>
<td>661</td>
<td></td>
<td>281</td>
</tr>
<tr>
<td>Total</td>
<td>4,105</td>
<td>6,247</td>
<td></td>
<td>2,142</td>
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<tr>
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<td>Calgary</td>
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<td>685</td>
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<tr>
<td>Lethbridge</td>
<td>158</td>
<td>291</td>
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<td>133</td>
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<td>Peace River</td>
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<td>Red Deer</td>
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<td>1,860</td>
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<td>Kamloops</td>
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<td>76</td>
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<td>Revelstoke</td>
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<td>54</td>
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<tr>
<td>Total</td>
<td>268</td>
<td>413</td>
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<td>145</td>
</tr>
</tbody>
</table>

Grand total fiscal year 1915-16: 17,030

Grand total fiscal year 1916-17: 11,199

Net decrease for fiscal year 1916-17: 5,831
K.—Statement showing the number of Homestead Entries made during the fiscal year ended March 31, 1916 and 1917, and the Nationality of the Homesteaders, as reported by the several Agencies of the Department in Manitoba, Saskatchewan, Alberta and British Columbia.

<table>
<thead>
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<th>Nationalities</th>
<th>No. of entries, 1916</th>
<th>No. of entries, 1917</th>
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</thead>
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<td>Canadians from Quebec</td>
<td>505</td>
<td>496</td>
</tr>
<tr>
<td>&quot; Ontario</td>
<td>1,885</td>
<td>1,560</td>
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<tr>
<td>&quot; Nova Scotia</td>
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<td>124</td>
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<tr>
<td>&quot; New Brunswick</td>
<td>82</td>
<td>70</td>
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<tr>
<td>&quot; Prince Edward Island</td>
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<td>51</td>
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<tr>
<td>&quot; Manitoba</td>
<td>1,137</td>
<td>657</td>
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<tr>
<td>&quot; Saskatchewan</td>
<td>280</td>
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<td>&quot; Alberta</td>
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<td>233</td>
</tr>
<tr>
<td>&quot; British Columbia</td>
<td>63</td>
<td>68</td>
</tr>
<tr>
<td>Persons who had previous entry</td>
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<td>1,642</td>
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<tr>
<td>Newfoundlanders</td>
<td>14</td>
<td>4</td>
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<tr>
<td>Canadians returned from the United States</td>
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<td>1,734</td>
</tr>
<tr>
<td>Americans</td>
<td>2,574</td>
<td>1,469</td>
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<tr>
<td>English</td>
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<td>586</td>
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<td>Scotch</td>
<td>314</td>
<td>194</td>
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<tr>
<td>Irish</td>
<td>111</td>
<td>65</td>
</tr>
<tr>
<td>French</td>
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<td>46</td>
</tr>
<tr>
<td>Belgians</td>
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<td>30</td>
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<tr>
<td>Swiss</td>
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<td>48</td>
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<tr>
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<td>5</td>
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<tr>
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<tr>
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<td>Norwegians</td>
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<td>489</td>
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<tr>
<td>Russians (other than Finns)</td>
<td>17,030</td>
<td>11,199</td>
</tr>
</tbody>
</table>

Number of souls represented by above entries: 38,553—1916, 25,791—1917
L.-Statement showing the number of Homestead Entries made during the fiscal year ended March 31, 1916 and 1917, by persons coming from the various States and Territories of the American Union.

<table>
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<th>No. of entries, 1916</th>
<th>No. of entries, 1917</th>
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<tr>
<td>Columbia, District of</td>
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<td>South</td>
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</table>
M.—Statement showing the number of Homestead Entries made during the fiscal year ended March 31, 1917, the Nationality of the Homesteaders and the Provinces in which the entries were made.

<table>
<thead>
<tr>
<th>Nationalities</th>
<th>Provinces</th>
<th>Total.</th>
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<tbody>
<tr>
<td>Canadians from Ontario</td>
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<td>188</td>
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<td>41</td>
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<tr>
<td>“ New Brunswick</td>
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<tr>
<td>“ Prince Edward Island</td>
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<tr>
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<td>97</td>
</tr>
<tr>
<td>“ Saskatchewan</td>
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<tr>
<td>“ Alberta</td>
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</tr>
<tr>
<td>“ British Columbia</td>
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<td>3</td>
</tr>
<tr>
<td>Persons who had previous entry</td>
<td>297</td>
<td>512</td>
</tr>
<tr>
<td>Newfoundlanders</td>
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<tr>
<td>Canadians returned from the United States</td>
<td>131</td>
<td>740</td>
</tr>
<tr>
<td>Americans</td>
<td>372</td>
<td>484</td>
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<tr>
<td>English</td>
<td>128</td>
<td>155</td>
</tr>
<tr>
<td>Irish</td>
<td>62</td>
<td>49</td>
</tr>
<tr>
<td>French</td>
<td>16</td>
<td>13</td>
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<tr>
<td>Belgians</td>
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<tr>
<td>Swiss</td>
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<td>Roumanians</td>
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<td>276</td>
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<tr>
<td>Hollanders</td>
<td>8</td>
<td>13</td>
</tr>
<tr>
<td>Danes (other than Icelanders)</td>
<td>6</td>
<td>19</td>
</tr>
<tr>
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<td>6</td>
</tr>
<tr>
<td>Swedes</td>
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<td>98</td>
</tr>
<tr>
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<td>84</td>
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<tr>
<td>Russians (other than Finns)</td>
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<tr>
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<td>1</td>
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<tr>
<td>Bulgarians</td>
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</tr>
<tr>
<td>Chinese</td>
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<td>1</td>
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<tr>
<td>Japanese</td>
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<tr>
<td>Persians</td>
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</tr>
<tr>
<td>Australians</td>
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<td>1</td>
</tr>
<tr>
<td>New Zealanders</td>
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<td>1</td>
</tr>
<tr>
<td>Hindoos</td>
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</tr>
<tr>
<td>Greeks</td>
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<td>1</td>
</tr>
<tr>
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<tr>
<td>Poles</td>
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<tr>
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<td>2</td>
</tr>
<tr>
<td>Portuguese</td>
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</tr>
<tr>
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</tr>
<tr>
<td>N. Africans</td>
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<tr>
<td>S. Africans</td>
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<tr>
<td>Total</td>
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</table>

Number of souls represented by the above entries .................................. 25,791
N.—Statement showing the number of Homestead Entries made in the Provinces of Manitoba, Saskatchewan, Alberta and British Columbia during the fiscal year ended March 31, 1917, by persons coming from the United States of America.

<table>
<thead>
<tr>
<th>States</th>
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<tr>
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</tr>
<tr>
<td>Arizona</td>
<td></td>
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<tr>
<td>Arkansas</td>
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<td></td>
</tr>
<tr>
<td>California</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Carolina, North</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Carolina, South</td>
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<td></td>
</tr>
<tr>
<td>Colorado</td>
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<td>Columbia, District of.</td>
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<td></td>
</tr>
<tr>
<td>Connecticut</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dakota, North</td>
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<td></td>
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<tr>
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<tr>
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<td>Washington</td>
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<td>Wyoming</td>
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Total: 131 744 553 23 1,751
O.—Statement showing the number of Homestead Entries reported in each year since 1874.

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<th>Departmental Year Ended</th>
<th>Number of Entries</th>
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<td>1,376</td>
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<td>31, 1875</td>
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<td>31, 1876</td>
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<tr>
<td>31, 1877</td>
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<td>31, 1878</td>
<td>1,758</td>
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<tr>
<td>31, 1879</td>
<td>2,068</td>
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<tr>
<td>31, 1880</td>
<td>2,074</td>
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<tr>
<td>31, 1881</td>
<td>2,753</td>
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<td>31, 1882</td>
<td>7,483</td>
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<td>31, 1883</td>
<td>6,083</td>
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<td>31, 1884</td>
<td>3,753</td>
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<td>31, 1885</td>
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<tr>
<td>31, 1886</td>
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<td>31, 1887</td>
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<td>31, 1888</td>
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<td>31, 1889</td>
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<td>31, 1890</td>
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<td>31, 1892</td>
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<td>31, 1893</td>
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<td>30, 1901</td>
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<td>30, 1904</td>
<td>26,073</td>
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<td>30, 1905</td>
<td>30,519</td>
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<td>30, 1906</td>
<td>41,869</td>
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<tr>
<td>Nine months ended March 31, 1907</td>
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<tr>
<td>Year ended March 31, 1908</td>
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P.—Statement showing the number of Pre-emption and Purchased Homestead Entries granted in each Land Agency during the fiscal year 1916-17.

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<th>Purchased Homesteads</th>
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<tr>
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<tr>
<td>Edmonton</td>
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</tr>
<tr>
<td>Grand Prairie</td>
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<tr>
<td>High Prairie</td>
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<td>Humboldt</td>
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<td>Kamloops</td>
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<tr>
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<td>Medicine Hat</td>
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<tr>
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<td>Peace River</td>
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<tr>
<td>Prince Albert</td>
<td>29</td>
<td>21</td>
</tr>
<tr>
<td>Red Deer</td>
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<td>1</td>
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<tr>
<td>Revelstoke</td>
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<tr>
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<td>Weyburn</td>
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<td>Yorkton</td>
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<td>Total</td>
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</table>

Provinces.

<table>
<thead>
<tr>
<th>Province</th>
<th>Homestead</th>
<th>Pre-emption</th>
<th>Purchased Homesteads</th>
</tr>
</thead>
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<td>Saskatchewan</td>
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<td>Alberta</td>
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</tr>
<tr>
<td>Total</td>
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<td></td>
</tr>
</tbody>
</table>

Q.—Statement showing the number of Homestead, Pre-emption and Purchased Homestead Entries granted in each month during the fiscal year 1916-17.

<table>
<thead>
<tr>
<th>Year</th>
<th>Homestead</th>
<th>Pre-emption</th>
<th>Purchased Homesteads</th>
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<tbody>
<tr>
<td>1916</td>
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<td>1,035</td>
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<td>727</td>
<td>55</td>
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<tr>
<td>1917</td>
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<td>332</td>
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<td></td>
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<td>Total</td>
<td>11,199</td>
<td>1,460</td>
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SESSIONAL PAPER No. 25

R.—Statement of Entries affecting Dominion Lands which were made at Head Office during the year ended March 31, 1917.

<table>
<thead>
<tr>
<th>Special Grants</th>
<th>No. of Grants.</th>
<th>Acres.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calgary and Edmonton Railway Co.</td>
<td>103</td>
<td>4,521</td>
</tr>
<tr>
<td>Canadian Northern Railway Co.</td>
<td></td>
<td>29,966 33</td>
</tr>
<tr>
<td>Manitoba and South-Eastern Railway Co.</td>
<td></td>
<td>9,069 00</td>
</tr>
<tr>
<td>Qu'Appelle, Long Lake and Saskatchewan Railroad and Steamboat Co.</td>
<td></td>
<td>910 35</td>
</tr>
<tr>
<td>Alberta and Great Waterways Railway right of way</td>
<td></td>
<td>40,500 21</td>
</tr>
<tr>
<td>Area granted to the Edmonton, Dunvegan and British Columbia Railway right of way</td>
<td></td>
<td>13 13</td>
</tr>
<tr>
<td>Area granted to the Grand Trunk Railway Co., for right of way purposes</td>
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<td>236 58</td>
</tr>
<tr>
<td>Railway right of way</td>
<td>109</td>
<td>3,351 06</td>
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<tr>
<td>Hudson's Bay Company Grants</td>
<td>34</td>
<td>20,792 00</td>
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</table>

S.—Comparative Statement of the Homestead Entries and sales made during the fiscal years ending March 31, 1916, and March 31, 1917, respectively.

<table>
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<tr>
<th></th>
<th>Fiscal Year ending 31st March, 1916</th>
<th>Fiscal Year ending 31st March, 1917</th>
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</thead>
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<tr>
<td></td>
<td>No. of entries.</td>
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</tr>
<tr>
<td>Homesteads</td>
<td>17,030</td>
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<tr>
<td>Sales</td>
<td>27,074</td>
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</table>

T.—Statement showing the number of Assignments recorded in the Land Patents Branch during the fiscal year ended March 31, 1917.

Number of deeds registered... 88
Fees received in connection therewith... $175 50
<table>
<thead>
<tr>
<th>Year in which Entry was made</th>
<th>Manitoba</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th>Saskatchewan</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Homesteads</td>
<td>Pre-Emptions</td>
<td>Sales</td>
<td>Cause of Cancellation</td>
<td>Homesteads</td>
<td>Pre-Emptions</td>
<td>Purchased Homesteads</td>
<td>Sales</td>
<td>Cause of Cancellation</td>
<td>Total</td>
</tr>
<tr>
<td></td>
<td>Abandonment</td>
<td>Default</td>
<td>Error, etc.</td>
<td>Abandonment</td>
<td>Default</td>
<td>Error, etc.</td>
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<td>Default</td>
<td>Error, etc.</td>
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<td>264</td>
<td>99</td>
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<td>596</td>
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<td>412</td>
<td>191</td>
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<td>141</td>
<td>202</td>
<td>136</td>
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<td>Pre-Eptions</td>
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<td>Sales</td>
<td>Homesteads</td>
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</tbody>
</table>
REPORT OF THE ORDNANCE AND ADMIRALTY LANDS BRANCH.

During the period embraced by this report there were no public sales of Ordnance lands held, but, with respect to the land formerly sold or occupied under lease, with the option of purchase, ten parcels, or lots, situated in the various localities here-mentioned, and in the annexed statement marked A, have been fully paid and letters patent issued therefor.

1. Grand Falls, N.B.—Three farm lots, forming part of the reserve adjacent to this town, which were sold at public auction in 1901 and 1902 for the sum of $120, have been paid in full and letters patent issued. The balance of the purchase money received within the last fiscal year was $49.50.

2. Ottawa.—Ordnance lands in this locality are occupied by tenants under leases originally granted by the Imperial authorities, in which it is provided that the lessee may, upon payment in cash of the purchase price in full for the land occupied, convert his leasehold into freehold and obtain the Crown patent. Of these parcels, or lots, four whole and two half lots were redeemed in full and letters patent issued. The total consideration money received for said parcels amounted to $933.32.

3. Port Maitland, Ont.—The reserve herein referred to is situated on the west side of the Grand river in the township of Dunn, county of Haldimand, and contains an area of about seventy-five acres. The whole reserve had been occupied by squatters for upwards of fifty years, many of whom have made valuable improvements on their holdings.

In order to deal equitably with these squatters, and at the same time protect the interest of the Crown, it was considered advisable to have a subdivision survey made, which was accordingly done, and the property subdivided into thirty-nine parcels or holdings. Council was asked for and granted the necessary authority to sell the land, at a valuation, to the parties in possession, or grant leases for a period of years on payment of a rental, based on the valuation of the land, to those desirous of leasing their holdings, with the privilege of paying the purchase price in full at any time and obtaining letters patent for the land. During the past fiscal year one of the squatters took advantage of the privilege granted, paid the purchase money in full for his holding, and obtained letters patent. The purchase money received was $60.42.

The following statements are hereto annexed:

A. Statement giving the number of lots and part lots sold or redeemed, the original purchase price, and the sums received within the year as instalments or balance of purchase money.

B. Statement giving the several localities where Ordnance lands are situated, on account of which moneys have been received during the fiscal year.

C.—Statement of the receipts each month of the fiscal year, classified as fees, rent or interest, equivalent to rent and principal.

D.—Statement showing the amounts due and unpaid on account of purchase money and rent or interest. The total amount shown to be outstanding, at the close of the fiscal year, was $4,510.60, being $1,687.53 less than last year.

The correspondence and office work in general averages about the same as the previous years. The number of letters received, recorded and filed 342; number written, copied, indexed and mailed, 506; and in addition 89 reports on various matters relating to ordnance lands were prepared and submitted. There were 76 receipts issued, 2 leases prepared and recorded, 7 draft letters patent prepared, and 15 assignments received, examined and registered.
The accounts open in the books of this branch have been regularly and carefully posted; the cash book, receipt book and monthly statement book have been diligently kept, and a monthly return of all moneys received regularly prepared and forwarded to the accounts branch.

I beg to supplement the foregoing report by a brief synopsis of the work performed in connection with the Orders in Council passed from time to time relating to the administration of this department in its numerous and varied branches.

During the past year there were 638 Orders in Council passed, all of which were carefully recorded, copied, compared, printed and filed, so that copies thereof may be available at all times. There were 230 requisitions prepared and issued; 148 Orders in Council published in the Canada Gazette in compliance with the regulations in that behalf, and of this number 16 were also published in the British Columbia Gazette.

Two additional bound volumes of Orders in Council, covering the years 1911 and 1912, were completed and distributed among the various branches of the department for convenience of reference and as a permanent office record.

The extent and importance of the work performed in this branch in connection with the record of attendance of the officials in the numerous branches of this department may be readily estimated, when attention is drawn to the fact that this record comprises absences for any and all reasons and forms the basis of the monthly pay-lists and of the quarterly return furnished in accordance with the provisions of the Civil Service Amendment Act, 1908.

JOS. P. DUNNE,
Superintendent of Ordnance and Admiralty Lands Branch.

A.—Statement giving the number of lots and part lots sold or redeemed, the amounts for which such lots were originally disposed of and the sum received as instalment, or balance of purchase money, during the fiscal year ending March 31, 1917.

<table>
<thead>
<tr>
<th>Locality</th>
<th>Number of lots sold or redeemed.</th>
<th>Amount of consideration of purchase money.</th>
<th>Amt. received on account during Fiscal Year.</th>
<th>Remarks.</th>
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</thead>
<tbody>
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<td></td>
<td></td>
<td>$cts.</td>
<td>$cts.</td>
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<tr>
<td>Ottawa</td>
<td>4 whole lots</td>
<td>733 32</td>
<td>733 32</td>
<td>Purchase money in full.</td>
</tr>
<tr>
<td></td>
<td>2 half lots</td>
<td>200 00</td>
<td>200 00</td>
<td></td>
</tr>
<tr>
<td>Grand Falls</td>
<td>3 farm lots</td>
<td>120 00</td>
<td>49 50</td>
<td>Balance purchase money.</td>
</tr>
<tr>
<td>Port Maitland</td>
<td>1 lot</td>
<td>60 42</td>
<td>60 42</td>
<td>Purchase money in full.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1,113 74</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1,043 24</td>
<td></td>
</tr>
</tbody>
</table>
B.—Statement naming the various localities where Ordnance lands are situated on account of which moneys have been received during the fiscal year ending March 31, 1917.

<table>
<thead>
<tr>
<th>Locality</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amherstburg</td>
<td>2 00</td>
</tr>
<tr>
<td>Burlington</td>
<td>580 00</td>
</tr>
<tr>
<td>Carillon</td>
<td>0 20</td>
</tr>
<tr>
<td>Edmundston</td>
<td>0 00</td>
</tr>
<tr>
<td>Elmsley</td>
<td>9 20</td>
</tr>
<tr>
<td>Fort Cumberland</td>
<td>64 00</td>
</tr>
<tr>
<td>Fort Erie</td>
<td>3 00</td>
</tr>
<tr>
<td>Grand Falls</td>
<td>94 56</td>
</tr>
<tr>
<td>Kingston</td>
<td>203 25</td>
</tr>
<tr>
<td>Montague</td>
<td>4 00</td>
</tr>
<tr>
<td>Nepean</td>
<td>4 00</td>
</tr>
<tr>
<td>Ottawa</td>
<td>3,043 25</td>
</tr>
<tr>
<td>Owen Sound</td>
<td>75 25</td>
</tr>
<tr>
<td>Oxford</td>
<td>1 20</td>
</tr>
<tr>
<td>Point Edward</td>
<td>461 25</td>
</tr>
<tr>
<td>Point Pelee</td>
<td>63 35</td>
</tr>
<tr>
<td>Port Maitland</td>
<td>68 22</td>
</tr>
<tr>
<td>Prescott</td>
<td>1 00</td>
</tr>
<tr>
<td>Quebec</td>
<td>830 00</td>
</tr>
<tr>
<td>St. Joseph Island</td>
<td>4 50</td>
</tr>
<tr>
<td>Shelbourne</td>
<td>6 00</td>
</tr>
<tr>
<td>South Crosby</td>
<td>2 00</td>
</tr>
<tr>
<td>Fees</td>
<td>32 00</td>
</tr>
</tbody>
</table>

C.—Statement showing the receipts each month of the year, classified as fees, rent, or interest, equivalent to rent and principal.

<table>
<thead>
<tr>
<th>Month</th>
<th>Fees</th>
<th>Interest</th>
<th>Principal</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>April</td>
<td>270 40</td>
<td></td>
<td></td>
<td>270 40</td>
</tr>
<tr>
<td>May</td>
<td>557 70</td>
<td></td>
<td></td>
<td>557 70</td>
</tr>
<tr>
<td>June</td>
<td>234 95</td>
<td>110 00</td>
<td></td>
<td>344 95</td>
</tr>
<tr>
<td>July</td>
<td>1,084 40</td>
<td></td>
<td></td>
<td>1,084 40</td>
</tr>
<tr>
<td>August</td>
<td>276 24</td>
<td>49 50</td>
<td></td>
<td>325 74</td>
</tr>
<tr>
<td>September</td>
<td>681 95</td>
<td>240 00</td>
<td></td>
<td>921 95</td>
</tr>
<tr>
<td>October</td>
<td>13 00</td>
<td></td>
<td></td>
<td>13 00</td>
</tr>
<tr>
<td>November</td>
<td>226 57</td>
<td>333 74</td>
<td></td>
<td>1,160 31</td>
</tr>
<tr>
<td>December</td>
<td>10 68</td>
<td>90 00</td>
<td></td>
<td>102 68</td>
</tr>
<tr>
<td>1917</td>
<td></td>
<td></td>
<td></td>
<td>5,553 26</td>
</tr>
</tbody>
</table>

January: 300 03
February: 299 80 220 00 523 80
March: 10 30 18 30
D.—Statement showing amounts due and unpaid on account of purchase money, and rent or interest, for the year ending March 31, 1917.

<table>
<thead>
<tr>
<th>Locality</th>
<th>Rest or Interest</th>
<th>Principal</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$ cts.</td>
<td>$ cts.</td>
<td>$ cts.</td>
</tr>
<tr>
<td>Beaver Harbour</td>
<td>4 00</td>
<td></td>
<td>4 00</td>
</tr>
<tr>
<td>Burlington Beach</td>
<td>100 00</td>
<td>100 00</td>
<td></td>
</tr>
<tr>
<td>Chambly</td>
<td>325 23</td>
<td>152 00</td>
<td>477 20</td>
</tr>
<tr>
<td>Dalhousie</td>
<td>22 08</td>
<td>23 00</td>
<td>45 08</td>
</tr>
<tr>
<td>Elmsley</td>
<td>1 00</td>
<td></td>
<td>1 00</td>
</tr>
<tr>
<td>Grand Falls</td>
<td>215 79</td>
<td>457 68</td>
<td>673 47</td>
</tr>
<tr>
<td>Grenville</td>
<td>2 60</td>
<td></td>
<td>2 60</td>
</tr>
<tr>
<td>Marlborough</td>
<td>9 00</td>
<td></td>
<td>9 00</td>
</tr>
<tr>
<td>Nepean</td>
<td>69 00</td>
<td></td>
<td>69 00</td>
</tr>
<tr>
<td>Niagara</td>
<td>177 25</td>
<td>507 00</td>
<td>684 25</td>
</tr>
<tr>
<td>Oromocto</td>
<td>0 25</td>
<td></td>
<td>0 25</td>
</tr>
<tr>
<td>Ottawa</td>
<td>1,192 57</td>
<td></td>
<td>1,192 57</td>
</tr>
<tr>
<td>Owen Sound</td>
<td>14 00</td>
<td></td>
<td>14 00</td>
</tr>
<tr>
<td>Oxford</td>
<td>27 50</td>
<td></td>
<td>27 50</td>
</tr>
<tr>
<td>Prescott</td>
<td>1 00</td>
<td></td>
<td>1 00</td>
</tr>
<tr>
<td>Presquile</td>
<td>3 50</td>
<td></td>
<td>3 50</td>
</tr>
<tr>
<td>Queenston</td>
<td>1 00</td>
<td></td>
<td>1 00</td>
</tr>
<tr>
<td>St. Croix River</td>
<td>10 00</td>
<td></td>
<td>10 00</td>
</tr>
<tr>
<td>St. Joseph’s Island</td>
<td>386 42</td>
<td></td>
<td>386 42</td>
</tr>
<tr>
<td>Sorel</td>
<td>69 36</td>
<td></td>
<td>69 36</td>
</tr>
<tr>
<td>Tay</td>
<td>32 00</td>
<td></td>
<td>32 00</td>
</tr>
<tr>
<td>Wolford</td>
<td>709 40</td>
<td></td>
<td>709 40</td>
</tr>
</tbody>
</table>

3,370 92 | 1,139 68 | 4,510 60

CORRESPONDENCE REGISTRATION BRANCH.

Statement A shows the number of letters and documents recorded during the year.

Statement B shows the growth of the work, year by year, for the past eighteen years.

298,565 letters and documents were received and dealt with and 179,139 were numbered and recorded.

Upwards of a million and a half fyles were distributed to the several branches, and at present there are 10,000 fyles being acted on, or awaiting action, throughout the department.

1,642 telegrams were received and registered.

1,579 letters written in French, Ruthenian, German, Russian, Norwegian, Polish, Bohemian, Danish, Dutch, Roumanian, Icelandic, and Swedish were translated into English.

25—i—11
A.—Statement showing the number of Letters and Documents recorded during the fiscal year ended March 31, 1917.

<table>
<thead>
<tr>
<th></th>
<th>Letters Recorded</th>
<th>Daily Average</th>
<th>Registered Letters</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Received</td>
</tr>
<tr>
<td>1916</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>April</td>
<td>26,355</td>
<td>1,146</td>
<td>2,267</td>
</tr>
<tr>
<td>May</td>
<td>15,977</td>
<td>615</td>
<td>2,614</td>
</tr>
<tr>
<td>June</td>
<td>14,552</td>
<td>605</td>
<td>2,494</td>
</tr>
<tr>
<td>July</td>
<td>14,244</td>
<td>570</td>
<td>2,613</td>
</tr>
<tr>
<td>August</td>
<td>13,441</td>
<td>517</td>
<td>2,448</td>
</tr>
<tr>
<td>September</td>
<td>12,903</td>
<td>516</td>
<td>2,255</td>
</tr>
<tr>
<td>October</td>
<td>11,111</td>
<td>444</td>
<td>2,408</td>
</tr>
<tr>
<td>November</td>
<td>11,024</td>
<td>441</td>
<td>2,431</td>
</tr>
<tr>
<td>December</td>
<td>10,021</td>
<td>436</td>
<td>2,293</td>
</tr>
<tr>
<td></td>
<td>179,139</td>
<td></td>
<td>29,645</td>
</tr>
</tbody>
</table>

B.—Statement showing the number of Letters and Documents recorded during each fiscal year from 1900 to March 31, 1917.

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Letters Recorded</th>
</tr>
</thead>
<tbody>
<tr>
<td>1900</td>
<td>48,663</td>
</tr>
<tr>
<td>1901</td>
<td>67,860</td>
</tr>
<tr>
<td>1902</td>
<td>67,722</td>
</tr>
<tr>
<td>1903</td>
<td>67,531</td>
</tr>
<tr>
<td>1904</td>
<td>113,074</td>
</tr>
<tr>
<td>1905</td>
<td>155,908</td>
</tr>
<tr>
<td>1906</td>
<td>176,729</td>
</tr>
<tr>
<td>1907 (six months)</td>
<td>150,462</td>
</tr>
<tr>
<td>1908</td>
<td>187,684</td>
</tr>
<tr>
<td>1909</td>
<td>260,142</td>
</tr>
<tr>
<td>1910</td>
<td>264,299</td>
</tr>
<tr>
<td>1911</td>
<td>279,186</td>
</tr>
<tr>
<td>1912</td>
<td>272,419</td>
</tr>
<tr>
<td>1913</td>
<td>255,105</td>
</tr>
<tr>
<td>1914</td>
<td>238,463</td>
</tr>
<tr>
<td>1915</td>
<td>221,624</td>
</tr>
<tr>
<td>1916</td>
<td>357,176</td>
</tr>
<tr>
<td>1917</td>
<td>179,139</td>
</tr>
</tbody>
</table>

J. M. ROBERTS,
Chief of Branch.
### Statement of the work done in the Correspondence Comparing and Mailing Branch during the fiscal year ended March 31, 1917.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1916</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>April</td>
<td>33,836</td>
<td>1,554</td>
<td>224</td>
<td>35,614</td>
</tr>
<tr>
<td>May</td>
<td>43,174</td>
<td>2,224</td>
<td>156</td>
<td>45,554</td>
</tr>
<tr>
<td>June</td>
<td>34,400</td>
<td>1,741</td>
<td>177</td>
<td>36,318</td>
</tr>
<tr>
<td>July</td>
<td>38,483</td>
<td>1,974</td>
<td>145</td>
<td>40,604</td>
</tr>
<tr>
<td>August</td>
<td>34,190</td>
<td>2,330</td>
<td>169</td>
<td>36,689</td>
</tr>
<tr>
<td>September</td>
<td>46,798</td>
<td>3,322</td>
<td>100</td>
<td>50,420</td>
</tr>
<tr>
<td>October</td>
<td>43,479</td>
<td>2,892</td>
<td>70</td>
<td>48,241</td>
</tr>
<tr>
<td>November</td>
<td>39,492</td>
<td>2,594</td>
<td>115</td>
<td>42,201</td>
</tr>
<tr>
<td>December</td>
<td>35,233</td>
<td>2,264</td>
<td>55</td>
<td>37,552</td>
</tr>
<tr>
<td>1917</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>41,460</td>
<td>2,806</td>
<td>80</td>
<td>44,346</td>
</tr>
<tr>
<td>February</td>
<td>38,180</td>
<td>2,163</td>
<td>186</td>
<td>40,529</td>
</tr>
<tr>
<td>March</td>
<td>43,565</td>
<td>2,073</td>
<td>91</td>
<td>45,729</td>
</tr>
<tr>
<td>Total for fiscal year ending March 31, 1917...</td>
<td>471,992</td>
<td>28,137</td>
<td>1,598</td>
<td>501,727</td>
</tr>
</tbody>
</table>

The out-going letters were copied in 168 one-thousand paged letter-books.
The number of pages of letter-books indexed was 160,890.
The daily average of letters sent out was 1,565.
The heaviest average was during the month of September, 1916, the daily average being 1,873. The lightest month was August, 1916, with an average of 1,304.
There were 2,000 documents compared.
The grand total of out-going correspondence from this office, during the fiscal year 1916-17, was 501,727, over half a million letters, an increase of 96,492 letters over the fiscal year 1915-16, or 24 per cent.
There were 23 circulars sent out to the Dominion lands agents and sub-agents.

CHAS. C. PELLETIER,
Clerk in Charge,
Correspondence Comparing and Mailing Branch.
PART II

IMMIGRATION
## IMMIGRATION

**REPORT OF THE SUPERINTENDENT OF IMMIGRATION.**

**Summary for the Fiscal Year 1916-17.**

For ocean travel—

<table>
<thead>
<tr>
<th>Destination</th>
<th>Males</th>
<th>Females</th>
<th>Children</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quebec</td>
<td>6,408</td>
<td></td>
<td></td>
<td>6,408</td>
</tr>
<tr>
<td>St. John</td>
<td>1,636</td>
<td></td>
<td></td>
<td>1,636</td>
</tr>
<tr>
<td>North Sydney</td>
<td>1,032</td>
<td></td>
<td></td>
<td>1,032</td>
</tr>
<tr>
<td>Victoria</td>
<td>727</td>
<td></td>
<td></td>
<td>727</td>
</tr>
<tr>
<td>Halifax</td>
<td>497</td>
<td></td>
<td></td>
<td>497</td>
</tr>
<tr>
<td>Vancouver</td>
<td>456</td>
<td></td>
<td></td>
<td>456</td>
</tr>
<tr>
<td>New York</td>
<td>3,017</td>
<td></td>
<td></td>
<td>3,017</td>
</tr>
<tr>
<td>Boston</td>
<td>176</td>
<td></td>
<td></td>
<td>176</td>
</tr>
<tr>
<td>Portland</td>
<td>36</td>
<td></td>
<td></td>
<td>3,229</td>
</tr>
<tr>
<td>Total</td>
<td>5,487</td>
<td>1,636</td>
<td>3,924</td>
<td>11,600</td>
</tr>
</tbody>
</table>

Comparative Statement.—Immigration to Canada, via Ocean Ports, by months, for the Fiscal Year 1916-17, compared with that of the Fiscal Year 1915-16.

<table>
<thead>
<tr>
<th></th>
<th>1915-16</th>
<th>1916-17</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Males</td>
<td>Females</td>
</tr>
<tr>
<td>April</td>
<td>543</td>
<td>617</td>
</tr>
<tr>
<td>May</td>
<td>559</td>
<td>968</td>
</tr>
<tr>
<td>June</td>
<td>311</td>
<td>674</td>
</tr>
<tr>
<td>July</td>
<td>285</td>
<td>486</td>
</tr>
<tr>
<td>August</td>
<td>317</td>
<td>584</td>
</tr>
<tr>
<td>September</td>
<td>208</td>
<td>435</td>
</tr>
<tr>
<td>October</td>
<td>229</td>
<td>544</td>
</tr>
<tr>
<td>November</td>
<td>157</td>
<td>346</td>
</tr>
<tr>
<td>December</td>
<td>157</td>
<td>346</td>
</tr>
<tr>
<td>January</td>
<td>130</td>
<td>210</td>
</tr>
<tr>
<td>February</td>
<td>136</td>
<td>190</td>
</tr>
<tr>
<td>March</td>
<td>133</td>
<td>322</td>
</tr>
<tr>
<td>Totals</td>
<td>3,089</td>
<td>5,487</td>
</tr>
</tbody>
</table>
### Comparative Statement—Immigration from the United States to Canada, by months, for the Fiscal Year 1916-17, compared with that of the Fiscal Year 1915-16.

<table>
<thead>
<tr>
<th></th>
<th>1915-16.</th>
<th></th>
<th>1916-17.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>April</td>
<td>2,828</td>
<td>1,191</td>
<td>227</td>
<td>4,400</td>
</tr>
<tr>
<td>May</td>
<td>1,678</td>
<td>1,038</td>
<td>761</td>
<td>3,477</td>
</tr>
<tr>
<td>June</td>
<td>1,467</td>
<td>1,082</td>
<td>610</td>
<td>3,159</td>
</tr>
<tr>
<td>July</td>
<td>1,364</td>
<td>905</td>
<td>527</td>
<td>2,796</td>
</tr>
<tr>
<td>August</td>
<td>2,255</td>
<td>858</td>
<td>579</td>
<td>3,693</td>
</tr>
<tr>
<td>September</td>
<td>1,877</td>
<td>661</td>
<td>481</td>
<td>3,029</td>
</tr>
<tr>
<td>October</td>
<td>1,548</td>
<td>755</td>
<td>601</td>
<td>2,904</td>
</tr>
<tr>
<td>November</td>
<td>1,379</td>
<td>665</td>
<td>462</td>
<td>2,506</td>
</tr>
<tr>
<td>December</td>
<td>1,092</td>
<td>617</td>
<td>436</td>
<td>2,145</td>
</tr>
<tr>
<td>January</td>
<td>957</td>
<td>464</td>
<td>250</td>
<td>1,661</td>
</tr>
<tr>
<td>February</td>
<td>1,167</td>
<td>623</td>
<td>374</td>
<td>2,164</td>
</tr>
<tr>
<td>March</td>
<td>3,064</td>
<td>1,132</td>
<td>938</td>
<td>5,134</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>20,050</td>
<td>9,991</td>
<td>6,896</td>
<td>36,937</td>
</tr>
</tbody>
</table>

### Comparative Statement—Total Immigration to Canada, by months, for the Fiscal Year 1916-17, compared with that of the Fiscal Year 1915-16.

<table>
<thead>
<tr>
<th></th>
<th>1915-16.</th>
<th></th>
<th>1916-17.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>April</td>
<td>2,825</td>
<td>1,808</td>
<td>1,244</td>
<td>5,877</td>
</tr>
<tr>
<td>May</td>
<td>2,257</td>
<td>1,556</td>
<td>1,279</td>
<td>5,086</td>
</tr>
<tr>
<td>June</td>
<td>1,775</td>
<td>1,556</td>
<td>1,064</td>
<td>4,395</td>
</tr>
<tr>
<td>July</td>
<td>1,649</td>
<td>1,391</td>
<td>808</td>
<td>3,848</td>
</tr>
<tr>
<td>August</td>
<td>2,572</td>
<td>1,442</td>
<td>881</td>
<td>4,955</td>
</tr>
<tr>
<td>September</td>
<td>2,023</td>
<td>1,066</td>
<td>782</td>
<td>3,863</td>
</tr>
<tr>
<td>October</td>
<td>1,777</td>
<td>1,269</td>
<td>864</td>
<td>3,909</td>
</tr>
<tr>
<td>November</td>
<td>1,516</td>
<td>1,011</td>
<td>644</td>
<td>3,171</td>
</tr>
<tr>
<td>December</td>
<td>1,189</td>
<td>812</td>
<td>532</td>
<td>2,533</td>
</tr>
<tr>
<td>January</td>
<td>1,017</td>
<td>630</td>
<td>331</td>
<td>1,978</td>
</tr>
<tr>
<td>February</td>
<td>1,237</td>
<td>633</td>
<td>457</td>
<td>2,557</td>
</tr>
<tr>
<td>March</td>
<td>3,257</td>
<td>1,454</td>
<td>1,063</td>
<td>5,774</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>23,139</td>
<td>15,478</td>
<td>9,920</td>
<td>48,537</td>
</tr>
</tbody>
</table>

### Comparative Statement—Total Immigration to Canada, by Ports, for the Fiscal Year 1916-17, compared with that of the Fiscal Year 1915-16.

<table>
<thead>
<tr>
<th></th>
<th>1915-16.</th>
<th></th>
<th>1916-17.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Quebec</td>
<td>1,319</td>
<td>3,048</td>
<td>1,801</td>
<td>6,168</td>
</tr>
<tr>
<td>St. John</td>
<td>362</td>
<td>759</td>
<td>318</td>
<td>1,439</td>
</tr>
<tr>
<td>Halifax</td>
<td>298</td>
<td>319</td>
<td>299</td>
<td>825</td>
</tr>
<tr>
<td>Victoria</td>
<td>191</td>
<td>254</td>
<td>52</td>
<td>497</td>
</tr>
<tr>
<td>North Sydney</td>
<td>104</td>
<td>42</td>
<td>56</td>
<td>202</td>
</tr>
<tr>
<td>Vancouver</td>
<td>60</td>
<td>43</td>
<td>21</td>
<td>124</td>
</tr>
<tr>
<td>New York, Boston and Portland</td>
<td>849</td>
<td>1,022</td>
<td>547</td>
<td>2,418</td>
</tr>
<tr>
<td>From the United States</td>
<td>20,050</td>
<td>9,991</td>
<td>6,896</td>
<td>36,937</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>23,139</td>
<td>15,478</td>
<td>9,920</td>
<td>48,537</td>
</tr>
</tbody>
</table>

---

**DEPARTMENT OF THE INTERIOR**

**8 GEORGE V, A. 1918**

---
### Sex, Occupation and Destination of Total Immigrant Arrivals in Canada, for the Fiscal Year ended March 31, 1917.

<table>
<thead>
<tr>
<th>Sex</th>
<th>Males</th>
<th>Females</th>
<th>Children</th>
<th>Totals</th>
<th>Farmers and Farm Labourers</th>
<th>General Labourers</th>
<th>Mechanics</th>
<th>Clerks, Traders, etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Males</td>
<td>Females</td>
<td>Children</td>
<td>Males</td>
</tr>
<tr>
<td>Via Ocean Ports</td>
<td>3,771</td>
<td>6,966</td>
<td>3,248</td>
<td>13,985</td>
<td>867</td>
<td>584</td>
<td>442</td>
<td>1,409</td>
</tr>
<tr>
<td>From the United States</td>
<td>39,963</td>
<td>12,571</td>
<td>9,513</td>
<td>61,369</td>
<td>14,385</td>
<td>2,832</td>
<td>3,655</td>
<td>7,774</td>
</tr>
<tr>
<td>Totals</td>
<td>43,734</td>
<td>19,537</td>
<td>12,763</td>
<td>75,371</td>
<td>15,252</td>
<td>3,416</td>
<td>4,097</td>
<td>9,183</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Trade or Occupation</th>
<th>Miners</th>
<th>Not Classified</th>
<th>Maritime Provinces</th>
<th>Quebec</th>
<th>Ontario</th>
<th>Manitoba</th>
<th>Saskatchewan</th>
<th>Alberta</th>
<th>British Columbia</th>
<th>Yukon Territory</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Males</td>
<td>Females</td>
<td>Children</td>
<td>Female Servants</td>
<td>Males</td>
<td>Females</td>
<td>Children</td>
<td>Males</td>
<td>Females</td>
<td>Children</td>
</tr>
<tr>
<td>Via Ocean Ports</td>
<td>32</td>
<td>18</td>
<td>38</td>
<td>2,639</td>
<td>498</td>
<td>2,250</td>
<td>1,980</td>
<td>1,668</td>
<td>2,432</td>
<td>4,928</td>
</tr>
<tr>
<td>From the United States</td>
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<td>37</td>
<td>58</td>
<td>1,804</td>
<td>2,943</td>
<td>4,603</td>
<td>3,586</td>
<td>4,042</td>
<td>8,488</td>
<td>21,150</td>
</tr>
<tr>
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<td>55</td>
<td>96</td>
<td>4,443</td>
<td>3,441</td>
<td>6,853</td>
<td>5,566</td>
<td>5,710</td>
<td>10,990</td>
<td>26,078</td>
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</table>
Comparative Statement.—Total Immigration to Canada, by Nationalities, for the Fiscal Year 1916-17, compared with that of the Fiscal Year 1915-16, showing Increase or Decrease of each Nationality.

<table>
<thead>
<tr>
<th>Nationality</th>
<th>1915-16</th>
<th>1916-17</th>
<th>Increase</th>
<th>Decrease</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>5,877</td>
<td>5,717</td>
<td>683</td>
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<tr>
<td>Irish</td>
<td>818</td>
<td>938</td>
<td>120</td>
<td>140</td>
</tr>
<tr>
<td>Scotch</td>
<td>1,887</td>
<td>2,062</td>
<td>175</td>
<td></td>
</tr>
<tr>
<td>Welsh</td>
<td>102</td>
<td>88</td>
<td>14</td>
<td></td>
</tr>
<tr>
<td>Total British</td>
<td>8,664</td>
<td>8,282</td>
<td>382</td>
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<tr>
<td>African, South</td>
<td>11</td>
<td>1</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Australian</td>
<td>32</td>
<td>18</td>
<td>14</td>
<td></td>
</tr>
<tr>
<td>Austro-Hungarian—</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Austrian</td>
<td>15</td>
<td>13</td>
<td>2</td>
<td></td>
</tr>
<tr>
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<td></td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
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<td>36</td>
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<td>3</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Brazilian</td>
<td></td>
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<td></td>
</tr>
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<td>1</td>
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<tr>
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<td>2</td>
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<tr>
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<td>35</td>
<td></td>
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<tr>
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<td>8</td>
<td></td>
</tr>
<tr>
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<td>238</td>
<td>103</td>
<td></td>
</tr>
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<td>Hawaiian</td>
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<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Hebrew—</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hebrew, N.E.S</td>
<td>18</td>
<td>28</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Austrian</td>
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<td>1</td>
<td>1</td>
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<td>6</td>
<td>3</td>
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<td>Japanese</td>
<td>401</td>
<td>648</td>
<td>247</td>
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</tr>
<tr>
<td>Maltese</td>
<td>4</td>
<td>109</td>
<td>105</td>
<td></td>
</tr>
<tr>
<td>Montenegrin</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Negro</td>
<td>34</td>
<td>98</td>
<td>64</td>
<td></td>
</tr>
<tr>
<td>Newfoundland</td>
<td>255</td>
<td>1,943</td>
<td>1,688</td>
<td></td>
</tr>
<tr>
<td>New Zealand</td>
<td>18</td>
<td>12</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Persian</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Polish—</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polish, N.E.S</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Austrian</td>
<td>7</td>
<td>3</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Russian</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Portuguese</td>
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<td>4</td>
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</tr>
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<td></td>
<td></td>
</tr>
<tr>
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<td>40</td>
<td>25</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Russian, N.E.S</td>
<td>139</td>
<td>249</td>
<td>110</td>
<td></td>
</tr>
<tr>
<td>Scandinavian</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Danish</td>
<td>167</td>
<td>145</td>
<td>22</td>
<td></td>
</tr>
<tr>
<td>Icelandic</td>
<td>15</td>
<td>9</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Norwegian</td>
<td>232</td>
<td>303</td>
<td>71</td>
<td></td>
</tr>
<tr>
<td>Swedish</td>
<td>177</td>
<td>332</td>
<td>155</td>
<td></td>
</tr>
<tr>
<td>Serbian</td>
<td>6</td>
<td>1</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Spanish</td>
<td>11</td>
<td>75</td>
<td>64</td>
<td></td>
</tr>
<tr>
<td>Swiss</td>
<td>42</td>
<td>30</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Turkish—</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Turkish, N.E.S</td>
<td></td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Armenian</td>
<td></td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Syrian</td>
<td>3</td>
<td>9</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>U.S.A. Citizens, via ocean ports</td>
<td>15</td>
<td>20</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>West Indian</td>
<td>38</td>
<td>293</td>
<td>255</td>
<td></td>
</tr>
<tr>
<td>Total Continental, etc.</td>
<td>2,936</td>
<td>5,763</td>
<td>2,827</td>
<td></td>
</tr>
<tr>
<td>From the United States</td>
<td>36,937</td>
<td>61,389</td>
<td>24,452</td>
<td></td>
</tr>
<tr>
<td>Total immigration</td>
<td>48,587</td>
<td>75,374</td>
<td>26,837</td>
<td></td>
</tr>
</tbody>
</table>
ARRIVALS AT OCEAN PORTS.

For the fiscal year 1916-17, there arrived, via Canadian and United States ocean ports, 70,820 passengers, of whom 13,935 travelled saloon, and 56,885 steerage. Of the saloon passengers, 10,183 were destined to Canada, and 3,752 to the United States. Of the steerage passengers, 53,048 were for Canada and 3,837 for the United States. Included in the steerage passengers for Canada were 27,795 returned Canadians and 11,268 tourists, leaving the immigration proper at 13,985 souls, which, together with the 61,389 settlers from the United States, brings the total immigration to 75,374, an increase as compared with that of the preceding fiscal year of 26,837 persons.

The following further statistical information will be of interest: table I deals with the total arrivals of saloon passengers; table II with the total arrivals of steerage passengers; table III with the monthly arrivals of immigrants for Canada; and tables IV and V give summaries of the information obtained from immigrants for Canada upon arrival.
### Table I.—Nationality and Sex of Saloon Passengers arriving at Ocean Ports, for the Fiscal Year ended March 31, 1917.

<table>
<thead>
<tr>
<th>Nationality</th>
<th>Canada.</th>
<th>United States.</th>
<th>Canada and United States.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Males</td>
<td>Females</td>
<td>Children</td>
</tr>
<tr>
<td>African, South</td>
<td>2</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>Australian</td>
<td>3</td>
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</tr>
<tr>
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<td>1</td>
<td>8</td>
<td>3</td>
</tr>
<tr>
<td>Belgian</td>
<td>5</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>Bermudian</td>
<td>4</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Canadian</td>
<td>10</td>
<td>5</td>
<td>15</td>
</tr>
<tr>
<td>German</td>
<td>11</td>
<td>2</td>
<td>6</td>
</tr>
<tr>
<td>Great Britain</td>
<td>122</td>
<td>137</td>
<td>49</td>
</tr>
<tr>
<td>and Ireland</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>English</td>
<td>122</td>
<td>137</td>
<td>49</td>
</tr>
<tr>
<td>Irish</td>
<td>12</td>
<td>18</td>
<td>2</td>
</tr>
<tr>
<td>Scotch</td>
<td>22</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Welsh</td>
<td>2</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Greek</td>
<td>4</td>
<td>9</td>
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</tr>
<tr>
<td>Hebrew</td>
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<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Russian</td>
<td></td>
<td></td>
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</tr>
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<td>Hindu</td>
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</tr>
<tr>
<td>Italian</td>
<td>4</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Jamaican</td>
<td>24</td>
<td>33</td>
<td>3</td>
</tr>
<tr>
<td>Japanese</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Mexican</td>
<td>4</td>
<td>7</td>
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</tr>
<tr>
<td>Negro</td>
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<td>14</td>
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<tr>
<td>Newfoundland</td>
<td>106</td>
<td>111</td>
<td>64</td>
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<td>7</td>
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</tr>
<tr>
<td>Polish</td>
<td>2</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>Russian</td>
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<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Romanian</td>
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</tr>
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<td>Romanian</td>
<td>2</td>
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<td>Russian</td>
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<td>3</td>
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</tr>
<tr>
<td>Finnish</td>
<td></td>
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</tr>
<tr>
<td>Scandinavian</td>
<td>4</td>
<td>5</td>
<td>3</td>
</tr>
<tr>
<td>Danish</td>
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<td>5</td>
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</tr>
<tr>
<td>Icelandic</td>
<td>4</td>
<td>5</td>
<td>3</td>
</tr>
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<td>Norwegian</td>
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<td>3</td>
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<tr>
<td>Swedish</td>
<td>5</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>Spanish</td>
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</tr>
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Totals: 32,818, 13,688, 6,542, 35,048
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**IMMIGRATION**

**SESSIONAL PAPER No. 25**

Table IV.—Monthly arrivals of Immigrants for Canada, by Occupation and Destination, at Ocean Ports, for the Fiscal Year ended March 31, 1917.

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<th>Oct</th>
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IMMIGRATION

SESSIONAL PAPER No. 25

arrivals for Canada, at Ocean Ports, for the Fiscal Year ended March 31, 1917.

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*(Nine months.)*

### Statement of Rejections, by Nationalities, at Ocean Ports, from December, 1902, to March 31, 1917.

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*(Nine months.)*
Statement of Deportations, after having been admitted, by Causes, from December, 1902, to March 31, 1917.

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*(Nine months.)*

Statement of Deportations, after having been admitted, by Nationalities, from December, 1902, to March 31, 1917.

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*(Nine months.)*
### Statement of Deportations, after having been admitted, by Provinces, from December, 1902, to March 31, 1917.

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* 9 months.
SESSIONAL PAPER No. 25

The following is a statement showing the immigration literature, etc., ordered during the year 1916-17:

Immigration Facts and Figures ........................................... 3,000
Atlas of Canada (French Edition) ........................................ 28,500
Eastern Quebec pamphlets (French Edition) ......................... 25,000
Western Quebec pamphlets (French Edition) ......................... 25,000
Eastern Quebec pamphlets (English Edition) ....................... 10,000
Eastern Quebec pamphlets (English Edition) ....................... 10,000
5,000 Facts about Canada ............................................... 300
Canada West (French Edition) .......................................... 346,850
Canada West ............................................................. 25,800

During the year, 159,276 pieces of mail were received and attended to. The outgoing letters and telegrams for the year numbered 136,286.

W. D. SCOTT.
Superintendent of Immigration.

Report for the fiscal year ending March 31, 1917:
During the fiscal year just closed, 393 persons of Chinese origin have been admitted into Canada, of whom 121 were admitted as exempt from head tax, and 272 upon the payment of $500 each. For the purpose of comparison it is considered advisable to publish statistics relating to Chinese immigration since the imposition of the first head tax in 1885, which head tax was increased to $100 on January 1, 1901, and to $500 on January 1, 1904.

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<td>1889</td>
<td>4</td>
<td>1,069</td>
<td>13.83</td>
<td>4,167</td>
<td>36,258 00</td>
</tr>
<tr>
<td>1890</td>
<td>5</td>
<td>2,114</td>
<td>15.78</td>
<td>5,168</td>
<td>40,908 00</td>
</tr>
<tr>
<td>1891</td>
<td>6</td>
<td>3,276</td>
<td>17.82</td>
<td>6,177</td>
<td>50,502 50</td>
</tr>
<tr>
<td>1892</td>
<td>7</td>
<td>2,244</td>
<td>18.82</td>
<td>5,564</td>
<td>51,491 00</td>
</tr>
<tr>
<td>1893</td>
<td>8</td>
<td>3,087</td>
<td>20.82</td>
<td>6,666</td>
<td>50,255 00</td>
</tr>
<tr>
<td>1894</td>
<td>9</td>
<td>3,807</td>
<td>21.82</td>
<td>7,571</td>
<td>51,243 00</td>
</tr>
<tr>
<td>1895</td>
<td>10</td>
<td>3,196</td>
<td>22.82</td>
<td>8,171</td>
<td>52,744 00</td>
</tr>
<tr>
<td>1896</td>
<td>11</td>
<td>3,762</td>
<td>23.82</td>
<td>8,571</td>
<td>52,146 00</td>
</tr>
<tr>
<td>1897</td>
<td>12</td>
<td>3,407</td>
<td>24.82</td>
<td>9,071</td>
<td>52,744 00</td>
</tr>
<tr>
<td>1898</td>
<td>13</td>
<td>4,247</td>
<td>25.82</td>
<td>9,671</td>
<td>53,744 00</td>
</tr>
<tr>
<td>1899</td>
<td>14</td>
<td>3,385</td>
<td>26.82</td>
<td>1,301</td>
<td>178,704 00</td>
</tr>
<tr>
<td>1900</td>
<td>15</td>
<td>4,231</td>
<td>27.82</td>
<td>1,301</td>
<td>220,309 00</td>
</tr>
<tr>
<td>1901</td>
<td>16</td>
<td>4,819</td>
<td>28.82</td>
<td>1,301</td>
<td>271,102 00</td>
</tr>
<tr>
<td>1902</td>
<td>17</td>
<td>5,158</td>
<td>29.82</td>
<td>1,301</td>
<td>326,744 00</td>
</tr>
<tr>
<td>1903</td>
<td>18</td>
<td>4,719</td>
<td>30.82</td>
<td>1,301</td>
<td>374,420 00</td>
</tr>
<tr>
<td>1904</td>
<td>19</td>
<td>5,435</td>
<td>31.82</td>
<td>1,301</td>
<td>422,490 00</td>
</tr>
<tr>
<td>1905-6</td>
<td>20</td>
<td>4,179</td>
<td>32.82</td>
<td>1,301</td>
<td>474,490 00</td>
</tr>
<tr>
<td>1906-7</td>
<td>21</td>
<td>3,523</td>
<td>33.82</td>
<td>1,301</td>
<td>526,744 00</td>
</tr>
<tr>
<td>1907-8</td>
<td>22</td>
<td>3,245</td>
<td>34.82</td>
<td>1,301</td>
<td>574,094 00</td>
</tr>
<tr>
<td>1908-9</td>
<td>23</td>
<td>3,751</td>
<td>35.82</td>
<td>1,301</td>
<td>624,490 00</td>
</tr>
<tr>
<td>1909-10</td>
<td>24</td>
<td>4,179</td>
<td>36.82</td>
<td>1,301</td>
<td>674,490 00</td>
</tr>
<tr>
<td>1910-11</td>
<td>25</td>
<td>4,179</td>
<td>37.82</td>
<td>1,301</td>
<td>724,490 00</td>
</tr>
<tr>
<td>1911-12</td>
<td>26</td>
<td>4,179</td>
<td>38.82</td>
<td>1,301</td>
<td>774,490 00</td>
</tr>
<tr>
<td>1912-13</td>
<td>27</td>
<td>4,179</td>
<td>39.82</td>
<td>1,301</td>
<td>824,490 00</td>
</tr>
<tr>
<td>1913-14</td>
<td>28</td>
<td>4,179</td>
<td>40.82</td>
<td>1,301</td>
<td>874,490 00</td>
</tr>
<tr>
<td>1914-15</td>
<td>29</td>
<td>4,179</td>
<td>41.82</td>
<td>1,301</td>
<td>924,490 00</td>
</tr>
<tr>
<td>1915-16</td>
<td>30</td>
<td>4,179</td>
<td>42.82</td>
<td>1,301</td>
<td>974,490 00</td>
</tr>
<tr>
<td>1916-17</td>
<td>31</td>
<td>4,179</td>
<td>43.82</td>
<td>1,301</td>
<td>1,024,490 00</td>
</tr>
</tbody>
</table>

25—ii—2
The marked decrease in Chinese immigration during 1915-16 and 1916-17, as compared with former years is on account of the Order in Council prohibiting the arrival at British Columbia ports of artisans and labourers, skilled or unskilled. Those admitted during 1916-17, upon payment of head tax, were largely boys coming to Canada to attend our public schools, and the exempt admissions were Chinese merchants and their families.

Since the outbreak of war there has been a considerable diminution in the number of Chinese in Canada, as of the large number who have gone on visits to China comparatively few have as yet returned to the Dominion.

W. D. SCOTT,
Chief Controller of Chinese Immigration.


CONTINENTAL AGENCIES.

No reports are available from any point on the continent of Europe.

PROPAGANDA.

The great war still being materially in evidence, no active propaganda has been engaged in, though we have received an increased number of inquiries from time to time. No emigration or other lectures on Canada have been given, except where a special request has come from schoolmasters or others, the same being considered by the department inadvisable.

AGENTS IN CHARGE.

Owing to the death of Mr. A. F. Jury, for many years representing this department in Liverpool, and for military and other reasons, the permanently appointed agents at the following points are temporarily substituted by the following:

Liverpool, Mr. S. Salinger.  
Aberdeen, Mr. J. A. F. Murray.  
Birmingham, Mr. W. Bond.  
Carlisle, Mr. Geo. M. Holmes.  
Peterborough, Miss E. Maude Whitesd.  
Cardiff, Miss D. Thornley.

MILITARY DUTIES.

During the past year other juniors, having come of military age, have immediately joined His Majesty's forces. There has not been, since the war started, any official of military age who has not enlisted. And at least two of the lady members are regularly engaged in hospital duties.

EXHIBITIONS AND SHOWS.

Some annual agricultural exhibitions and shows have been cancelled through the exigencies of war, but we have done the best we could with the material at hand, when any opportunity arose.

SCHOOL ATLAS.

The distribution of the Atlas of Canada, amongst the school children, has been successfully continued.
IMMIGRATION

SESSIONAL PAPER No. 25

CANADIAN NEWS ITEMS.

This propaganda has been continued more satisfactorily than had been hoped was possible under war conditions, and has materially helped emigration to Canada from being forgotten, as abolition of all active propaganda made certain.

EXPENDITURES.

The amount expended here for all purposes has been:

Fiscal year ending March 31, 1914
31,1915
31, 1916
31, 1917

£51,000
57,100
31,600
27,400

SAILINGS TO CANADA.

The number of steamers sailing from the British Isles to Canada cannot be given in any public document; but there has been no lack of accommodation for those who were not required for military service.

WARTIME RESTRICTIONS.

In addition to the Compulsory Military Service Act, the requirements of national service preclude the embarkation of women as well as men who might be required for any kind of national service here. And, owing to the danger from submarines, for some months an Admiralty embargo has been enforced against the embarkation of women and children of any age or class. It is impossible to say how long these restrictions will continue. No person can leave, in any event, without the written permission or passport of the British Government.

EMIGRATION RETURNS.

The British Board of Trade have not issued any figures during the past year.

Statistics for the Year 1917.

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of letters (London Office) received and sent out</td>
<td>87,351</td>
</tr>
<tr>
<td>Callers at London Office</td>
<td>17,194</td>
</tr>
<tr>
<td>Atlases of Canada given at Counter (London)</td>
<td>15,992</td>
</tr>
<tr>
<td>Packages of literature mailed from London Office</td>
<td>20,886</td>
</tr>
<tr>
<td>Grain and grasses in straw distributed from Liverpool</td>
<td>85 cases</td>
</tr>
<tr>
<td>Threshed grain for exhibitions, etc., distributed from Liverpool</td>
<td>23</td>
</tr>
<tr>
<td>Atlas of Canada distributed from all offices in British Isles</td>
<td>139,400</td>
</tr>
<tr>
<td>Wall map distributed from all offices in British Isles</td>
<td>2,762</td>
</tr>
<tr>
<td>Pieces of literature (exclusive of the Atlas of Canada) distributed from all offices</td>
<td>100,931</td>
</tr>
<tr>
<td>Number of persons admitted under Assisted Emigration Regulations</td>
<td>43</td>
</tr>
<tr>
<td>Number of boats inspected</td>
<td>127</td>
</tr>
<tr>
<td>Deported cases attended to</td>
<td>176</td>
</tr>
<tr>
<td>Lantern slides (sets loaned)</td>
<td>148</td>
</tr>
</tbody>
</table>

War conditions and a much depleted staff account for this abbreviated report.

J. OBED SMITH,
Assistant Superintendent of Emigration.
REPORT OF W. J. WHITE, INSPECTOR OF UNITED STATES AGENCIES.

Those who are interested in figures and tables, and look to them for facts reduced into concrete information, will look to other pages of this report. They will find that the carrying out of the details of the immigration propaganda in the United States for the past fiscal year has furnished results satisfying to those who are looking for increased immigration.

Early in April, 1916, I was in one of our offices in the Western States when there entered a tall, heavily-built farmer, whom I recognized as a man I had talked with a few months previously. He was a renter on an Illinois farm, and each year, for some years, he had been handing over to his landlord twelve dollars an acre rent, and he was making a little money at that. He wanted a change, his forty-five summers had passed, and his four boys and three girls were grown up, or growing up. His mind had been bent on Western Canada, but every time he thought of it, in kaleidoscopic order there flashed before him in big letters "Conscription, heavy land taxes," and a score of other things insurmountable, as they had been pictured by those interested in keeping settlers from Canada. He could not be budged, and he was let alone; except that his name was carefully registered, and month after month his mail brought to him a pamphlet, or a circular, or a personal letter. The news was sent to him of the big crops of 1915, of the heavy yields of wheat, averaging twenty-five to forty bushels per acre, and as he read of seventy-bushel yields, one can imagine him pouring over these figures, analyzing the cost details, and when he saw a net profit of more per acre than he was paying out for rent, it can readily be understood that he became interested. He told me his story, told me how the interest was aroused until at last it became a decision. Eight tickets were secured, his family given their clearance, and I heard from him a short time ago, that he had bought a half section of land and two of his sons had homesteaded a quarter section each. He had a good crop of oats, and had written back for some of his friends to follow his example, and take up land in Canada.

This man's fears had been dispelled. This is but one instance, but it shows pretty well one phase of our work in the United States and how it is carried on.

That day in April was the day we began to feel that the air was becoming brighter again, when it was realized that the stories of the past year or so, that had been so diligently fabricated and systematically circulated throughout the country, had been overtaken and their work nullified. Our correspondence from that time on began to increase, the personal inquiries became greater, and the general interest showed that a revival was not only due but under way.

When the figures for 1916-17 were set at an increase of 75 per cent over the previous year, it was with a determination that our resources in energy would be set to accomplish it. That it has reached 60 per cent more is pleasing to those who assisted in bringing it about.

The agents in the territory noticed it, and their reports, week by week, showed the inspiration that gave them encouragement. They became more heartily industrious, and as time passed, and the daily and weekly comparisons of increases over the previous year were recorded, they knew that the tide had turned, that the results at the end of the year would show a greatly improved condition; and they did. All know, of the many misstatements that were being circulated. Well, they were combatted through the press, and by personal effort on the part of the agents, and, what was of greater effect, the denials sent by residents of Canada to their friends in the States. Gradually, the press has come to our side, and to-day, there are to be found very few in the more populous districts, who are not willing to give us a fair hearing. I do not attribute this altogether to the fair manner in which the press was been treated by the department but to the fairness of the newspaper men themselves.
and I wish to add here my acknowledgment of the valuable assistance the United States press has been. Of course they had facts before them that could not be ignored.

There was Western Canada's big crop of 1915, the large increases of all grains, the reports of yields of forty, fifty, sixty and as high as seventy bushels of wheat per acre, and a general average of over thirty bushels per acre. Then the prices were good. Farmers, former residents of Illinois, Iowa, Nebraska, Minnesota, and a score of other States, enthused by the great success that they were having by farming operations in Canada, wrote the stories to their friends. The Smith boys had a section of land in Canada all paid for and under cultivation, with a bank account of over two thousand dollars, this was the evidence that created an impression that induced the Smith boys' friends to go to Canada. This is a single illustration of what the 1915 crop did for Canada, and this with the fact that Americans had no trouble in getting into Canada, and no trouble after they got there, greatly increased immigration during the fiscal year.

The fact that the correspondence at all the offices of the Government was largely increased over the previous year showed that it pays to advertise. The mediums used were carefully selected; the advertising was changed from time to time, and readers, carefully compiled as to facts, were inserted.

It was noticed last year that there was a growing interest in the Pacific coast states and particularly in California. Our representatives in attendance at the exhibition at San Diego regularly reported as to the work there, and it is pleasing to be able to record that a large number left for Western Canada. In a large measure, the exhibition made at San Francisco, and afterwards at San Diego, was responsible for this. After going carefully into the situation in California, I was led to recommend the establishment of a regular agency in California. This is important, and the department, in arranging for it, may be assured that the work in California will increase. I expect to visit San Francisco soon and select a location for an office.

Exhibiting the products of Western Canada farms at state, county and local fairs, as well as national exhibitions, was work that occupied the time and attention of our agents during the late summer and fall. This is a class of advertising that is useful, as it brings direct to those interested, excellent evidence of what can be done. The province of Quebec supplied some very good exhibits of the farms of that province at a great many fairs in the eastern states.

Reports made by the different agents show that there is a greater demand than in past years for land to purchase, whether improved or unimproved, consequently the exchange of property of this character has been away above the average. As a result of this demand prices of farm lands in Western Canada have shown considerable increase. There has also been an improved demand for homesteads. A few years ago, and not so long since, either, it was possible for those seeking homesteads, to secure them with very little trouble and small expense, as they were but a part of a day's journey from a railway station. That condition does not exist today. Then the homestead was a wide open stretch of prairie; to-day it is difficult to obtain anything like that, unless the homestead seeker chooses to go farther north and west into the Peace River district. The distance to these lands does not deter many, and the reports that are sent back to friends are exceedingly good.

The splendid homesteading area north of the Canadian Northern Railway, from Prince Albert west to Edmonton, is receiving a good deal of attention, and from what I can learn, a large number are going in there. These lands, I am led to believe are capable of a high production in grains, and especially adapted to mixed farming, the results from which, in a few years' time, will justify all that may be said of them from an agricultural standpoint.

I look for a considerable increase in 1916-17 over the past fiscal year. The prospects are bright.

W. J. WHITE,
Inspector of U.S. Agencies.
REPORT OF THE ACTING COMMISSIONER OF IMMIGRATION.

WINNIPEG, MANITOBA, May 25, 1917.

IMMIGRANTS FROM THE BRITISH ISLES.

On account of war conditions, and, latterly, of more stringent regulations governing the emigration of people from the British Isles, a very small number of British-born people came to Western Canada during the year.

IMMIGRANTS FROM THE UNITED STATES.

The number of settlers from the United States who entered Canada at western ports of entry during the year shows an increase of about 100 per cent, compared with the previous year, as shown by the following statement:

SETTLERS FROM THE UNITED STATES, 1916-17.

<table>
<thead>
<tr>
<th>Port of Entry</th>
<th>Number of Settlers</th>
<th>Settlers' Wealth</th>
<th>Carloads of Settlers' Effects</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Port Arthur, Ont.</td>
<td>142</td>
<td>$10,960</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Port William,</td>
<td>87</td>
<td>8,481</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Port Frances,</td>
<td>2,638</td>
<td>194,479</td>
<td>38</td>
<td>64,750</td>
</tr>
<tr>
<td>Sprague, Man.</td>
<td>219</td>
<td>38,306</td>
<td>8</td>
<td>7,700</td>
</tr>
<tr>
<td>Emerson,</td>
<td>7,024</td>
<td>992,772</td>
<td>248</td>
<td>372,000</td>
</tr>
<tr>
<td>Gretna,</td>
<td>891</td>
<td>456,799</td>
<td>45</td>
<td>51,775</td>
</tr>
<tr>
<td>Banker, Man.</td>
<td>174</td>
<td>42,483</td>
<td>7</td>
<td>6,032</td>
</tr>
<tr>
<td>Snowflake,</td>
<td>112</td>
<td>4,000</td>
<td>26</td>
<td>39,229</td>
</tr>
<tr>
<td>North Portal, Sask.</td>
<td>4,342</td>
<td>1,597,281</td>
<td>501</td>
<td>639,597</td>
</tr>
<tr>
<td>Marienthal,</td>
<td>47</td>
<td>10,010</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Big Muddy,</td>
<td>31</td>
<td>3,775</td>
<td></td>
<td>7,383</td>
</tr>
<tr>
<td>Northgate,</td>
<td>93</td>
<td>62,934</td>
<td>15</td>
<td>26,800</td>
</tr>
<tr>
<td>Coutts, Alta.</td>
<td>2,000</td>
<td>564,963</td>
<td>133</td>
<td>212,401</td>
</tr>
<tr>
<td>Newgate, B.C.</td>
<td>222</td>
<td>15,429</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Waneta,</td>
<td>125</td>
<td>9,775</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kingsgate,</td>
<td>4,356</td>
<td>675,556</td>
<td>152</td>
<td>331,467</td>
</tr>
<tr>
<td>Grand Forks, B.C.</td>
<td>133</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>As compared with year 1915-16</td>
<td>22,636</td>
<td>4,690,078</td>
<td>1,173</td>
<td>1,809,184</td>
</tr>
<tr>
<td>Increase</td>
<td>10,981</td>
<td>1,820,314</td>
<td>532</td>
<td>889,976</td>
</tr>
</tbody>
</table>

LABOR CONDITIONS.

The demand for farm hands, domestic servants, and house-keepers was good during the year, 9,536 persons having been sent to employment on farms from this office.

WAGES.

The wages paid for all classes of farm help ruled high during the year, as will appear from the following figures:

<table>
<thead>
<tr>
<th>Class of Workers</th>
<th>Season (7½ months)</th>
<th>Winter (4½ months)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Farm hands, experienced</td>
<td>$40 00 to $50 00</td>
<td>$20 00 to $25 00</td>
</tr>
<tr>
<td>&quot; Inexperienced</td>
<td>15 00 to 25 00</td>
<td>10 00</td>
</tr>
<tr>
<td>Married couples, experienced</td>
<td>55 00 to 60 00</td>
<td>35 00 to 40 00</td>
</tr>
<tr>
<td>&quot; Inexperienced</td>
<td>35 00 to 45 00</td>
<td>25 00</td>
</tr>
<tr>
<td>Domestic servants</td>
<td>13 00 to 25 00, the year round</td>
<td></td>
</tr>
</tbody>
</table>

In all cases with board and lodging.
BOUNDARY PORTS.

The duties of inspectors at boundary ports have steadily increased during the year. The ports under my jurisdiction have been regularly inspected by Mr. L. L. Kramer, travelling boundary inspector.

ROYAL NORTHWEST MOUNTED POLICE.

During the year the officers and members of the Royal Northwest Mounted Police have rendered invaluable assistance to this department and to settlers.

IMMIGRATION HALLS.

The immigration halls in the west have afforded ample accommodation to a large number of settlers. These halls have been regularly inspected by Mr. Herbert G. Johnston during the year.

IMMIGRATION HALL, WINNIPEG.

This hall afforded accommodation to 1,354 persons during the year, a combined total of 4,062 days. The destitute cared for numbered 61, who were supplied with 658 meals, at an average cost of 9.6 cents per meal.

The deports cared for numbered 143—meals supplied, 2,011, at an average cost of 9.6 cents.

IMMIGRATION HOSPITAL, WINNIPEG.

The patients who received treatment numbered 43, with an average stay of 15½ days. The meals supplied to patients and staff numbered 4,676, at an average cost of 11.9 cents.

The out-door patients numbered 26.

OFFICIAL STAFF.

The officers engaged in immigration work under the direction of this office have performed their duties efficiently.

CROP, 1916.

The Government inspections (all railways) to March 31, 1917, give the following figures:

<table>
<thead>
<tr>
<th>Description</th>
<th>Bushels.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wheat</td>
<td>133,569,928</td>
</tr>
<tr>
<td>Besides the quantity of wheat in store in country elevators on that date was.</td>
<td>40,437,800</td>
</tr>
<tr>
<td>In transit</td>
<td>4,000,000</td>
</tr>
<tr>
<td>In farmers’ hands for sale.</td>
<td>20,000,000</td>
</tr>
<tr>
<td>For home consumption, seed, etc.</td>
<td>35,000,000</td>
</tr>
<tr>
<td></td>
<td>233,007,728</td>
</tr>
<tr>
<td>Less—dual Inspections</td>
<td>3,000,000</td>
</tr>
<tr>
<td>1915 crop</td>
<td>5,000,000</td>
</tr>
<tr>
<td></td>
<td>8,000,000</td>
</tr>
<tr>
<td>Total yield 1916 crop</td>
<td>225,007,728</td>
</tr>
</tbody>
</table>
The following tabulated statements give the acreage, total yield and average yield per acre in 1916:

**Manitoba.**

<table>
<thead>
<tr>
<th>Crop</th>
<th>Acreage</th>
<th>Yield in bushels</th>
<th>Average yield per acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring Wheat</td>
<td>2,298,000</td>
<td>27,576,000</td>
<td>12.00</td>
</tr>
<tr>
<td>Winter Wheat</td>
<td>7,300</td>
<td>138,000</td>
<td>17.50</td>
</tr>
<tr>
<td>Oats</td>
<td>1,271,000</td>
<td>41,623,000</td>
<td>32.75</td>
</tr>
<tr>
<td>Barley</td>
<td>614,000</td>
<td>13,813,000</td>
<td>22.50</td>
</tr>
<tr>
<td>Flax</td>
<td>22,000</td>
<td>237,000</td>
<td>10.75</td>
</tr>
<tr>
<td>Rye</td>
<td>28,000</td>
<td>560,000</td>
<td>20.00</td>
</tr>
<tr>
<td>Peas</td>
<td>3,112</td>
<td>48,251</td>
<td>14.50</td>
</tr>
</tbody>
</table>

**Saskatchewan.**

<table>
<thead>
<tr>
<th>Crop</th>
<th>Acreage</th>
<th>Yield in bushels</th>
<th>Average yield per acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wheat</td>
<td>7,457,700</td>
<td>123,448,000</td>
<td>16.50</td>
</tr>
<tr>
<td>Oats</td>
<td>3,180,600</td>
<td>153,071,000</td>
<td>42.75</td>
</tr>
<tr>
<td>Barley</td>
<td>344,000</td>
<td>10,062,000</td>
<td>29.25</td>
</tr>
<tr>
<td>Flax</td>
<td>497,700</td>
<td>5,724,000</td>
<td>11.50</td>
</tr>
</tbody>
</table>

**Alberta.**

<table>
<thead>
<tr>
<th>Crop</th>
<th>Acreage</th>
<th>Yield in bushels</th>
<th>Average yield per acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring Wheat</td>
<td>2,667,000</td>
<td>47,541,000</td>
<td>23.60</td>
</tr>
<tr>
<td>Winter Wheat</td>
<td>42,000</td>
<td>1,197,000</td>
<td>28.50</td>
</tr>
<tr>
<td>Oats</td>
<td>1,746,500</td>
<td>77,385,000</td>
<td>44.25</td>
</tr>
<tr>
<td>Barley</td>
<td>231,400</td>
<td>8,260,000</td>
<td>28.75</td>
</tr>
<tr>
<td>Flax</td>
<td>81,000</td>
<td>1,114,000</td>
<td>13.75</td>
</tr>
<tr>
<td>Rye</td>
<td>19,000</td>
<td>523,000</td>
<td>27.50</td>
</tr>
</tbody>
</table>

Grand totals 19,960,912 494,949,231

PERCY REID,  
Acting Commissioner.


It is with regret that I have to again state that the continuance of the great war has so notably affected the normal trend of immigration to Canada that the total number of immigrants has been reduced to the small number of 75,374, of whom only 13,985 entered by the seaports, from foreign countries.

**TABLE I.—Total Number of Immigrants entering Canada during fiscal year 1916-17.**

<table>
<thead>
<tr>
<th>Total immigrants, 1916-17, via seaports</th>
<th>13,985</th>
<th>497</th>
<th>456</th>
<th>3,617</th>
</tr>
</thead>
<tbody>
<tr>
<td>Halifax</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vancouver</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New York</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boston</td>
<td></td>
<td></td>
<td></td>
<td>175</td>
</tr>
<tr>
<td>Portland</td>
<td>36</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>United States</td>
<td>61,389</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>75,374</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

As a consequence of this diminished immigration the work of medical inspection at the seaports has been reduced in a similar degree; while their absence at the front, or in service at home in some medical capacity in the army has still further dislocated the services of our medical officers. It has been, however, fortunate that the several immigration hospitals of the service have become available for military purposes in connection with the care of returned soldiers.
Table II.—Giving Rejections by Nationalities at Ocean Ports, for Fiscal Year 1916-17.

<table>
<thead>
<tr>
<th>Nationality</th>
<th>Number of Rejections</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australian</td>
<td>4</td>
</tr>
<tr>
<td>Australian</td>
<td>1</td>
</tr>
<tr>
<td>Chinese</td>
<td>2</td>
</tr>
<tr>
<td>Dutch</td>
<td>3</td>
</tr>
<tr>
<td>French</td>
<td>2</td>
</tr>
<tr>
<td>English</td>
<td>24</td>
</tr>
<tr>
<td>Irish</td>
<td>3</td>
</tr>
<tr>
<td>Scotch</td>
<td>38</td>
</tr>
<tr>
<td>Greek</td>
<td>1</td>
</tr>
<tr>
<td>Italian</td>
<td>38</td>
</tr>
<tr>
<td>Japanese</td>
<td>9</td>
</tr>
<tr>
<td>Maltese</td>
<td>4</td>
</tr>
<tr>
<td>Total</td>
<td>174</td>
</tr>
</tbody>
</table>

Table II shows the total rejections of immigrants at the seaports to have been 174, of which, rather curiously, nearly a half were Greeks and Italians. The English were the only other nationality of which a considerable number were rejected. Of the total 174 there were 131 rejections from countries other than Britain and the United States.

Table III.—Giving Rejections by Causes at Ocean Ports for Fiscal Year 1916-17.

<table>
<thead>
<tr>
<th>Cause</th>
<th>Number of Rejections</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brights disease</td>
<td>1</td>
</tr>
<tr>
<td>Conjunctivitis</td>
<td>1</td>
</tr>
<tr>
<td>Heart disease</td>
<td>2</td>
</tr>
<tr>
<td>Hernia</td>
<td>7</td>
</tr>
<tr>
<td>Mental deficiency</td>
<td>4</td>
</tr>
<tr>
<td>Poor physique</td>
<td>2</td>
</tr>
<tr>
<td>Senility</td>
<td>2</td>
</tr>
<tr>
<td>Syphilis</td>
<td>1</td>
</tr>
<tr>
<td>Tinea tosvarans</td>
<td>2</td>
</tr>
<tr>
<td>Total</td>
<td>22</td>
</tr>
<tr>
<td>Total</td>
<td>174</td>
</tr>
</tbody>
</table>

In Table III are given the rejections, by causes, from which it is apparent that a few only were on account of disease. Eight were rejected due to trachoma; 4 due to mental deficiency; 7 on account of hernia; 2 due to heart disease, and 2 on account of tinea tosvarans. The greater number, however, were rejected for non-medical causes and were due to infraction of the Act relating to lack of funds, likely to become a public charge, or indirect passage.

Much more important, however, than rejections at the seaports are the deportations which have taken place of immigrants during the year, as will be seen from the following table, total number reaching 605.

Table IV.—Giving Deportations by Provinces for Fiscal Year 1916-17 at Ocean Ports.

<table>
<thead>
<tr>
<th>Province</th>
<th>Number of Deportations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maritime Provinces</td>
<td>19</td>
</tr>
<tr>
<td>Quebec</td>
<td>168</td>
</tr>
<tr>
<td>Ontario</td>
<td>233</td>
</tr>
<tr>
<td>Manitoba</td>
<td>40</td>
</tr>
<tr>
<td>Saskatchewan</td>
<td>54</td>
</tr>
<tr>
<td>Alberta</td>
<td>24</td>
</tr>
<tr>
<td>British Columbia</td>
<td>115</td>
</tr>
<tr>
<td>Yukon Territory</td>
<td>1</td>
</tr>
<tr>
<td>Total</td>
<td>605</td>
</tr>
</tbody>
</table>

This total number, as might be expected, shows a great decrease from that of the previous year, owing to the yearly lessening number of immigrants during the three years since the war began. It is interesting to note that the majority of these have been from two provinces—Ontario and British Columbia.
DEPARTMENT OF THE INTERIOR

TABLE V.—Deportations by Nationalities for Fiscal Year 1916-17.

<table>
<thead>
<tr>
<th>Nationality</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australian</td>
<td>605</td>
</tr>
<tr>
<td>Belgian</td>
<td>2</td>
</tr>
<tr>
<td>Chinese</td>
<td>2</td>
</tr>
<tr>
<td>Dutch</td>
<td>1</td>
</tr>
<tr>
<td>English</td>
<td>1</td>
</tr>
<tr>
<td>English</td>
<td>1</td>
</tr>
<tr>
<td>Irish</td>
<td>1</td>
</tr>
<tr>
<td>Scotch</td>
<td>1</td>
</tr>
<tr>
<td>Welsh</td>
<td>1</td>
</tr>
<tr>
<td>Greek</td>
<td>1</td>
</tr>
<tr>
<td>Hebrew, Russ.</td>
<td>1</td>
</tr>
<tr>
<td>Hindoo</td>
<td>1</td>
</tr>
<tr>
<td>Italian</td>
<td>1</td>
</tr>
<tr>
<td>Japanese</td>
<td>1</td>
</tr>
<tr>
<td>Mexican</td>
<td>1</td>
</tr>
<tr>
<td>Newfoundlander</td>
<td>1</td>
</tr>
<tr>
<td>New Zealander</td>
<td>1</td>
</tr>
</tbody>
</table>

Table VI.—Causes for which deportations have taken place for Fiscal Year 1916-17.

<table>
<thead>
<tr>
<th>Cause</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blindness</td>
<td>1</td>
</tr>
<tr>
<td>Brights disease</td>
<td>1</td>
</tr>
<tr>
<td>Cystitis</td>
<td>1</td>
</tr>
<tr>
<td>Drug habit</td>
<td>1</td>
</tr>
<tr>
<td>Empyema</td>
<td>1</td>
</tr>
<tr>
<td>Epilepsy</td>
<td>1</td>
</tr>
<tr>
<td>Feeble-mindedness</td>
<td>1</td>
</tr>
<tr>
<td>Heart disease</td>
<td>1</td>
</tr>
<tr>
<td>Hernia</td>
<td>1</td>
</tr>
<tr>
<td>Hip disease</td>
<td>1</td>
</tr>
<tr>
<td>Insanity</td>
<td>1</td>
</tr>
<tr>
<td>Lead poisoning</td>
<td>1</td>
</tr>
<tr>
<td>Locomotor Ataxia</td>
<td>1</td>
</tr>
<tr>
<td>Ostitis</td>
<td>1</td>
</tr>
</tbody>
</table>

Of the medical causes for which deportation took place insanity is by far the most important. The number, in spite of decreased immigration, remains high, and is 49, as compared with 62 for the previous year.

The seriousness of insanity as a disease in immigrants is not only illustrated by this large number, but also the extreme importance of more exact data being obtained regarding the previous history of immigrants before their embarkation is made yet more obvious. It is not only that the insane person becomes a menace to the community, but also that in after years he is the occasion of much expense to the State should his breakdown occur after the regular period for deportation has expired. Further, the hereditary nature of the disease indicates how many families may thus become residents of the country, who, from the standpoint of efficiency, will in the future prove most undesirable.

Oddly enough, as associated with insanity, we find that persons afflicted with the drug habit caused the largest number of deportations for medical reasons. This form of disease must be set down as due to a neurosis, akin to alcoholism, often hereditary. It is the defectives, both mental and physical, who are the most common subjects of this habit.

The next cause, allied and associated with insanity, is feeble-mindedness, of which twelve cases were deported. The distinction is increasingly being drawn between the two neuroses, i.e., feeble-mindedness or amentia and insanity or dementia. The first includes defectives who never, through heredity or other reasons, have developed a normal mentality, while the latter includes those who may have been normal, but who, through disease or other cause, have become insane and thus mentally abnormal.

It is interesting, further, to note that epilepsy, another form of nerve disease, was the cause of five deportations, while paralysis caused four and locomotor ataxia one.
The disease next in importance, as regards numbers, is tuberculosis, of which thirteen were deported. This number is much reduced from last year, when forty-seven were deported; but as will be seen in a later table the number probably has been decreased, due, at any rate, in part, to the difficulties of deportation; since it will be found that fifty cases of tuberculosis, in immigrants who had entered Canada within two years, came within observation of the medical officer at Vancouver. It is also of interest to note that few immigrants who had been in the immigration hospital at Winnipeg, the great centre for western immigration, are found amongst the deportees. The total number during the year was forty-three, while twenty-six non-resident patients received treatment there. The deportations from our Winnipeg hospital were sixteen.

As president of the National Conference of Charities and Corrections during the past year, my duties have brought me into especially close contact with the many social agencies whose work brings them into direct relation with immigrants and the children of immigrants, especially in the cities of the different provinces of Canada. Through these agencies I have been able to obtain many facts, which make the truth illustrated by the tables yet more plain. It is the immigrants's life as a citizen that has for all the greatest importance, both as regards his influence upon the community in which he lives and the reaction of that community upon him. It is difficult to obtain exact statistics with regard to any one or several classes of immigrants in the different provinces for comparative purposes; yet I have been able to obtain certain data which are worthy of consideration. The following table, for instance, supplied through the kindness of R. C. Dexter, secretary of the Charities Organization, Montreal, illustrates an interesting situation.

**TABLE VII.**

City of Montreal: Nationality of total population by number and per cent compared with nationality of 1,000 consecutive charity organization cases.

<table>
<thead>
<tr>
<th>Nationality</th>
<th>City of Montreal</th>
<th>Charity Organization Society Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No.</td>
<td>Per cent.</td>
</tr>
<tr>
<td>Canadian born</td>
<td></td>
<td></td>
</tr>
<tr>
<td>English speaking</td>
<td>87,645</td>
<td>18.66</td>
</tr>
<tr>
<td>French</td>
<td>295,972</td>
<td>63.02</td>
</tr>
<tr>
<td>Non-Canadian born</td>
<td></td>
<td></td>
</tr>
<tr>
<td>American</td>
<td>9,489</td>
<td>2.02</td>
</tr>
<tr>
<td>British</td>
<td>42,834</td>
<td>9.12</td>
</tr>
<tr>
<td>Others</td>
<td>33,728</td>
<td>7.18</td>
</tr>
<tr>
<td>Total</td>
<td>469,658</td>
<td>100.00</td>
</tr>
</tbody>
</table>

Summary of above: Immigrants and native born.

<table>
<thead>
<tr>
<th></th>
<th>No.</th>
<th>Per cent.</th>
<th>No.</th>
<th>Per cent.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canadian born</td>
<td>383,617</td>
<td>81.68</td>
<td>487</td>
<td>48.7</td>
</tr>
<tr>
<td>Immigrant</td>
<td>86,051</td>
<td>18.32</td>
<td>513</td>
<td>51.3</td>
</tr>
</tbody>
</table>
NATIONALITY OF FOREIGN CASES.

Austrian and German ........................................ 20
Belgian ......................................................... 2
Chinese ......................................................... 1
Dutch ............................................................. 2
French ............................................................ 11
Greek ............................................................ 4
Italian ............................................................ 27
Russian ........................................................... 15
Roumanian ....................................................... 3
Scandinavian ..................................................... 10
Spanish ........................................................... 2
Syrian ............................................................. 3

Total ............................................................. 100

The most outstanding fact presented by this table of persons dealt with by the Charities Organization Society of Montreal, is that 51.3 per cent of such were immigrants and but 48.7 per cent were Canadian-born, while less than one-fifth of the population of Montreal were foreign-born. The next most important point is that of the total charity immigrant cases 72 per cent were British-born.

The following table for the year ending March 1, 1917, was supplied through the kindness of Superintendent Dr. C. K. Clarke, of Toronto General Hospital.

Table VIII.—Giving persons attending feeble-minded clinic of Toronto General Hospital for year, March, 1916, to March, 1917.

<table>
<thead>
<tr>
<th>Source whence sent</th>
<th>Total number attending clinic</th>
<th>&quot; &quot; under 16 years</th>
<th>&quot; &quot; males</th>
<th>&quot; &quot; females</th>
<th>Military authorities</th>
<th>Social Agencies (Institutions, Children's Aid Society, Neighbourhood workers)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Juvenile Court</td>
<td>405</td>
<td>264</td>
<td>246</td>
<td>28</td>
<td>12</td>
<td>22</td>
</tr>
<tr>
<td>City Health Department</td>
<td>147</td>
<td>125</td>
<td>115</td>
<td>10</td>
<td>9</td>
<td>17</td>
</tr>
<tr>
<td>Medical Inspector of Schools</td>
<td>167</td>
<td>125</td>
<td>115</td>
<td>10</td>
<td>9</td>
<td>17</td>
</tr>
<tr>
<td>Social Agencies (Institutions, Children's Aid Society, Neighbourhood workers)</td>
<td>167</td>
<td>125</td>
<td>115</td>
<td>10</td>
<td>9</td>
<td>17</td>
</tr>
<tr>
<td>Military authorities</td>
<td>22</td>
<td>17</td>
<td>22</td>
<td>20</td>
<td>12</td>
<td>22</td>
</tr>
<tr>
<td>Private</td>
<td>46</td>
<td>39</td>
<td>36</td>
<td>33</td>
<td>28</td>
<td>22</td>
</tr>
</tbody>
</table>

Total ............................................................. 922

Nationality—

<table>
<thead>
<tr>
<th>Nationality</th>
<th>Total number</th>
<th>&quot; &quot; under 16 years</th>
<th>&quot; &quot; males</th>
<th>&quot; &quot; females</th>
<th>Military authorities</th>
<th>Social Agencies (Institutions, Children's Aid Society, Neighbourhood workers)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canadian</td>
<td>446</td>
<td>284</td>
<td>264</td>
<td>28</td>
<td>12</td>
<td>22</td>
</tr>
<tr>
<td>English</td>
<td>264</td>
<td>208</td>
<td>208</td>
<td>20</td>
<td>16</td>
<td>22</td>
</tr>
<tr>
<td>Russian</td>
<td>50</td>
<td>40</td>
<td>40</td>
<td>0</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>Scotch</td>
<td>39</td>
<td>29</td>
<td>29</td>
<td>0</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>Irish</td>
<td>29</td>
<td>23</td>
<td>23</td>
<td>0</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>Polish</td>
<td>23</td>
<td>22</td>
<td>22</td>
<td>1</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>American</td>
<td>22</td>
<td>22</td>
<td>22</td>
<td>0</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>Roumanian</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>0</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>Welsh</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>0</td>
<td>4</td>
<td>1</td>
</tr>
</tbody>
</table>

While in less than two years the number attending this clinic have increased from 405 to 922, it is important to note that the decrease in immigration has in no degree lessened the proportionate number of foreign-born attending. The Canadians increased 2-2 times, the English increased 2-64 times, the Scotch 2-1 times, Irish 4-1 times, Russians 5 times, and Polish 14 times. It might perhaps be expected that the large number of English would be maintained, but it is quite remarkable that Russians should have increased 5 times and Poles 14 times. It is probable, as a partial explanation, that these people are becoming more socialized and so are brought more under the attention of public school and other authorities.
SESSIONAL PAPER No. 25

That Russians and Poles, during these years in which there has been almost no immigration, should have together increased from 12 to 78 is a fact so startling as to demand close scrutiny.

I have been enabled, through the kindness of Dr. H. Underhill, medical officer of the city of Vancouver, to obtain a table seeming to illustrate the fact that in spite of any precautions which have been taken to inspect immigrants at the border, a very notable number, indeed, have succeeded in reaching Canada, who must have been at the time of admission infected with tuberculosis, though the disease may not have been diagnosable under the condition of inspection as carried out.

Table IX. Giving Immigrants treated in Vancouver Hospitals in 1916, on account of Tuberculosis.

<table>
<thead>
<tr>
<th>Nationality</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Russian</td>
<td>13</td>
</tr>
<tr>
<td>Italian</td>
<td>7</td>
</tr>
<tr>
<td>Swede</td>
<td>4</td>
</tr>
<tr>
<td>Chinese</td>
<td>4</td>
</tr>
<tr>
<td>English</td>
<td>4</td>
</tr>
<tr>
<td>American</td>
<td>3</td>
</tr>
<tr>
<td>Norwegian</td>
<td>3</td>
</tr>
<tr>
<td>Scotch</td>
<td>3</td>
</tr>
<tr>
<td>Austrian</td>
<td>2</td>
</tr>
<tr>
<td>Belgian</td>
<td>1</td>
</tr>
<tr>
<td>Hindoo</td>
<td>1</td>
</tr>
<tr>
<td>French</td>
<td>1</td>
</tr>
<tr>
<td>Manx</td>
<td>1</td>
</tr>
<tr>
<td>Greek</td>
<td>1</td>
</tr>
<tr>
<td>Japanese</td>
<td>1</td>
</tr>
<tr>
<td>German</td>
<td>1</td>
</tr>
</tbody>
</table>

Of the fifty cases of immigrants given in the table, twenty-seven, or more than 50 per cent died, and in every case residence in Canada had been either two years or less; while in the whole table no single case seems to have been in Canada longer than this length of time. The nationality of these immigrants is interesting.

I have not been able to obtain information regarding the important point of whether or not many of these immigrants came into Canada from the United States, although Dr. Underhill says most of such, in other years, seem to have entered Canada directly at the seaports; but the proportion of certain nationalities would suggest such to have been the case. *Of the total of fifty, thirteen or more than 25 per cent were Russians, a number wholly out of proportion to those who have entered directly from Russia through any of our seaports. The same is true regarding the seven Italians, who form 14 per cent of the total, and perhaps will apply in the case of Swedes, Austrians, Americans and Norwegians. It is notable that though there is a large number of Chinese in Vancouver, but four appear in the list, and only one Japanese.

These several tables, compiled from city statistics in four separate urban centres, in different provinces, serve to illustrate what has already been referred to regarding the intimate relation which the immigrant bears, and must continue to bear, as a social force for good or ill, in relation to our national life.

Apart from any physical or economic disabilities growing out of the transfer of persons who formerly were agriculturists suddenly into urban surroundings, certain social and moral effects seem to follow in many instances. The mental alertness growing out of an upbringing in an urban environment is not present in such; while they have not yet been educated to resist the malign influences which may surround them in their new life. It, hence, too frequently happens that they degenerate and create, as seen in the statistics, very serious social problems in our urban communities. It would seem therefore that special facilities should be provided by the department to encourage their settlement on homesteads, even in cases where they may be lacking in capital.

In a recent interview held with the Provincial Secretary of Ontario by the Association for the Feeble-minded, the extent to which this class amongst immigrants was creating a necessity for the establishment of new provincial and municipal institutions for the care and education was fully illustrated by many facts pointing

* The large number of Russians found at the feeble-minded Clinic in Toronto will be recalled.
to the need of yet greater precautions being taken by this department in the selection of immigrant families prior to coming to Canada. It is to be expected, when matters begin to assume their normal condition after the war, and the stream of immigrants begins again its flow toward Canada, that action will have been taken to provide measures to this end, in keeping with the experience gained both in the United States and Canada.

PETER H. BRYCE,
Chief Medical Officer.

JUVENILE IMMIGRATION.

Report of Chief Inspector of British Immigrant Children and Receiving Homes in Canada, for the fiscal year ended March 31, 1917.

It will be observed that the work of this branch of the department has been carried on with little or no interruption during the past twelve months.

Owing to the dangers and unsettled conditions of maritime affairs, a very small number of children were permitted to leave Great Britain during 1916. “After the war,” however, it is anticipated by friends and supporters of the movement, that there will be a notable increase in the number of children coming to Canada from Great Britain. This may of course be dependent, to some extent, on the industrial conditions of the Motherland.

For the past two years the services of many boys and girls, who otherwise would probably have to come to this country, have been utilized in munition works, on farms and in other branches of national service, thus filling the vacancies of men serving at the front.

The need in Canada for lads, as farm apprentices, and girls, for domestic service, has never been more urgent than at the present time, and ten thousand British juveniles would be cordially welcomed into advantageous foster homes and situations at the present time. The department has received many letters from Canadian farmers appealing for the services of Old Country boys.

It has been estimated by competent authorities that at least 50,000 farmers and farm labourers have answered the call of their country and are now on active military service overseas, a considerable number of whom were in their early days in Canada, British Juvenile Immigrants.

The Dominion is under a great debt of gratitude to those who have for many years promoted this particular form of immigration to our shores, a work which has been carried on in a sense independent of the Canadian Government. Over seventy thousand boys and girls, the former predominating numerically, have been settled in Ontario, Quebec, the Maritime, and other provinces through the efforts of these agencies. Many of these, now grown to manhood and womanhood, are known to me personally as highly respected and useful citizens of our Dominion, among them are some, who with their sons, are now fighting in France and Flanders with Canadian Battalions.

From 1900 to 1916, inclusive, the number of applications received for children by the various Homes, number 359,589, and to meet this demand 34,600 children were available. The applications, as I have indicated, in nearly every case were from farmers.

There is no longer any doubt that the Old Country boys or girls have more than average opportunities in Canada, and that splendid openings await them here, provided they are industrious and well behaved. One has only to consider the extent of the country and the vast areas of land not yet broken by the plough, to believe that there are opportunities without limit. One can easily realize that only the fringe of this work, on behalf of the British child has as yet been touched.
SESSIONAL PAPER No. 25

There are plenty of good and desirable boys and girls, too, in the homes and schools of both state and private control. The agencies are willing to undertake the migration of larger numbers of children to this overseas Dominion, but the chief and insurmountable obstacle has been that of a limited supply of money available for the purpose.

The history of the British Juvenile Movement is most interesting and supplies a record of facts which proves the immense benefit of this undertaking to Great Britain, and the overseas Dominions from an Imperial point of view.

Speaking sometime since on behalf of Father Berry’s Home at Liverpool—one of the pioneer institutions of that great city—in the cause of the poor boy and his transference to new fields of usefulness, the Marquis of Ripon said in part:

“Proud as we might be of our great competence in peace and war, and proud as we are of that magnificent commerce of which Liverpool is the centre, we might be more proud, or at all events equally proud, of the work which is being done in these days to raise the poor and to teach the ignorant, and to make, as far as possible, a fair opening to a prosperous position in life for the poorest and weakest of our people.”

These are noble words, and their highest key-note is struck in the statement that child emigration has benefited "both mother country and the colonies."
The following Table shows the number of Children emigrated by the principal Societies and Agencies during the past seventeen years:

<table>
<thead>
<tr>
<th>Agency</th>
<th>1900-1</th>
<th>1901-2</th>
<th>1902-3</th>
<th>1903-4</th>
<th>1904-5</th>
<th>1905-6</th>
<th>1906-7</th>
<th>1907-8</th>
<th>1908-9</th>
<th>1909-10</th>
<th>1910-11</th>
<th>1911-12</th>
<th>1912-13</th>
<th>1913-14</th>
<th>1914-15</th>
<th>1915-16</th>
<th>1916-17</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Barnardo</td>
<td>385</td>
<td>889</td>
<td>1,156</td>
<td>1,168</td>
<td>1,574</td>
<td>1,434</td>
<td>941</td>
<td>980</td>
<td>1,034</td>
<td>1,016</td>
<td>924</td>
<td>974</td>
<td>933</td>
<td>564</td>
<td>760</td>
<td>283</td>
<td>15,063</td>
<td></td>
</tr>
<tr>
<td>Rev. R. Wallace</td>
<td>59</td>
<td>71</td>
<td>75</td>
<td>84</td>
<td>94</td>
<td>116</td>
<td>112</td>
<td>96</td>
<td>95</td>
<td>92</td>
<td>87</td>
<td>75</td>
<td>68</td>
<td>62</td>
<td>51</td>
<td>48</td>
<td>2,402</td>
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<td>Miss Macpherson</td>
<td>64</td>
<td>45</td>
<td>142</td>
<td>201</td>
<td>267</td>
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<td>Liverpool Catholic</td>
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<td>158</td>
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<td>103</td>
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<td>73</td>
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<td>Mrs. Wallis</td>
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<td>Self Help Society</td>
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<tr>
<td>Mrs. Smylie</td>
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<tr>
<td>Working Boys Home</td>
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<tr>
<td>Private parties</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
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</tr>
</tbody>
</table>

| Total                  | 1,640  | 1,979  | 2,212  | 2,808  | 3,264  | 3,455  | 2,375  | 2,421  | 2,122  | 2,524  | 2,689  | 2,642  | 1,899  | 2,318  | 821    | 251    | 34,690 |
The following is a striking feature in the record of the individual inspection of these “young farm-helps” during the past year.

Number of children found in:

<table>
<thead>
<tr>
<th>Homes and situations—</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Good</td>
<td>1,429</td>
</tr>
<tr>
<td>Fair</td>
<td>27</td>
</tr>
<tr>
<td>Unsatisfactory</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Health—</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Good</td>
<td>1,417</td>
</tr>
<tr>
<td>Fair</td>
<td>19</td>
</tr>
<tr>
<td>Unsatisfactory</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Progress—</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Good</td>
<td>1,258</td>
</tr>
<tr>
<td>Fair</td>
<td>101</td>
</tr>
<tr>
<td>Unsatisfactory</td>
<td>19</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Conduct and character—</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Good</td>
<td>1,421</td>
</tr>
<tr>
<td>Fair</td>
<td>45</td>
</tr>
<tr>
<td>Unsatisfactory</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Poor Law boys formerly under the supervision of this department, who have enlisted for overseas service.</th>
<th>522</th>
</tr>
</thead>
<tbody>
<tr>
<td>Received honours.</td>
<td>4</td>
</tr>
<tr>
<td>Killed in action.</td>
<td>16</td>
</tr>
<tr>
<td>Wounded or missing.</td>
<td>22</td>
</tr>
</tbody>
</table>

Did not actually arrive in Canada during 1915-16, although their emigration was approved of for that year. | 8 |

Temporarily lost track of. | 20 |

Absent on occasion of call of inspector at their homes. | 25 |

Returned to England. | 5 |

Removed to United States. | 3 |

Marriages. | 11 |

Deaths. | 4 |

Absconded. | 8 |

It gives me great pleasure to be able to express my confidence in and admiration for those philanthropists and others who have for so many years devoted their time and contributed their means in such a noble and humane cause, which truly may be designated as the master spirit of benevolent achievement.

The opinions which I have formed with regard to each child have been the result of personal interviews with the child and his employer. Amongst other matters to which I have given particular attention have been the following:

1. Character of home in which the child has been placed, and the work expected of the child.
2. The treatment of the child by his employer.
3. The character of the child.
4. His religious and educational advantages.
5. The degree of satisfaction given by the child to his employer, and the contentment of the child with his new home.
6. The general state of the child’s health and personal appearance.
7. The agreement entered into with the Home, and the compliance with same by the child’s employer.
The following table, a remarkable statistical record, shows the value placed on these British children by the farmers of this country, and their acceptability as farm apprentices.

The number of juvenile immigrants received during the past seventeen years, together with number of applications received by the various agencies during the same period.

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Children emigrated</th>
<th>Applications received</th>
<th>Fiscal Year</th>
<th>Children emigrated</th>
<th>Applications received</th>
</tr>
</thead>
<tbody>
<tr>
<td>1900-1</td>
<td>977</td>
<td>5,783</td>
<td>1910-11</td>
<td>2,524</td>
<td>21,768</td>
</tr>
<tr>
<td>1901-2</td>
<td>1,540</td>
<td>8,587</td>
<td>1911-12</td>
<td>2,680</td>
<td>31,040</td>
</tr>
<tr>
<td>1902-3</td>
<td>1,979</td>
<td>14,219</td>
<td>1912-13</td>
<td>2,642</td>
<td>33,493</td>
</tr>
<tr>
<td>1903-4</td>
<td>2,212</td>
<td>16,573</td>
<td>1913-14</td>
<td>1,889</td>
<td>32,417</td>
</tr>
<tr>
<td>1904-5</td>
<td>2,898</td>
<td>17,883</td>
<td>1914-15</td>
<td>2,318</td>
<td>50,384</td>
</tr>
<tr>
<td>1905-6</td>
<td>3,264</td>
<td>19,374</td>
<td>1915-16</td>
<td>821</td>
<td>31,725</td>
</tr>
<tr>
<td>1906-7</td>
<td>1,485</td>
<td>15,860</td>
<td>1916-17</td>
<td>251</td>
<td>28,990</td>
</tr>
<tr>
<td>1907-8</td>
<td>2,375</td>
<td>17,239</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1908-9</td>
<td>2,424</td>
<td>15,417</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1909-10</td>
<td>2,422</td>
<td>18,477</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The organizations and benevolent institutions in Great Britain, which train children for lives of future usefulness, have done a great work for Canada.

The promptitude with which 8,049 youths and young men, many of whom in their early childhood and others as older lads came to Canada through British emigrating agencies, answered the call to the colours with their Canadian-born companions cannot be too highly commended. Their conduct has already created an entirely and wholly unexpected emphasis on the importance of the migration of juveniles to the dominions overseas.

In addition to those serving in the Canadian army, not a few have joined the navy and are at present doing duty on the high seas.

On my roll of honour there appear the names of hundreds of young fellows, who, during their minority, were subjects of the after care of this department, the larger proportion being personally known to me. These young soldiers are doing their part on the fields of battle nobly. One is reported to have gained the coveted Victoria Cross; a number have distinguished themselves and many have made the supreme sacrifice.

“The map of the world,” said Mr. William Baker, Honorary Director of Dr. Barnardo’s Homes, “is not the only thing which will be considerably altered by the war.

Many opinions firmly held in the days of peace have had to yield to the pressure of events and have undergone complete revision. Our migration work has sometimes been questioned by well-meaning friends, who feared that the young people whom we sent out to Canada were lost to the Mother Country. Our reply has always been that vital reasons governed our action in each case; that Canada opened up opportunities which the old country was powerless to offer, and that 95 per cent of our young migrants achieved success and became “worthy sons and daughters of the Empire.”

Thos. E. Sedgwick, in his able and interesting article, “Lads for the Empire,” also fittingly says: “Imperial migration is the more equal distribution of the population of the Empire. It is essential for the present and future well-being of the community that its volume should be materially increased.”
FAIRKNOWE BOY GETS D.S.O. AND IS THEN KILLED IN ACTION.

"Information has reached town that Private George Marrs, D.S.O., who enlisted with the 73rd Highlanders at Northcote, has been killed in action, only three days after being awarded the D.S.O. on the field of battle. "Private Marrs, who was a Fairknowe Home boy, was well known to many in town, and his death will be deeply regretted."—The Times, Brockville, March 27, 1917.

Note.—Fairknowe Home is the Canadian branch of Mr. Quarrier’s orphanage at Bridge of Weir, Scotland.

Lieut. Reginald C. has been decorated with the Military Cross by King George for organizing and leading a trench raid, demolishing a mine shaft, and inflicting heavy casualties on the enemy. Lieut. C. was formerly a ward of Miss Macpherson, and came to Canada in 1909.

E. R., a Birmingham boy who came to Canada in 1910, enlisted in the early days of the war, has been awarded the Distinguished Conduct Medal.


Florence, January 2.—A memorial service was held in St. Matthew’s church on Sunday evening in honour of the late Sergt. Harry Stoneham, who was killed in action on November 2. The service was conducted by the rector, Rev. Henry Smith, assisted by Rev. Henry Jones, of the Methodist church. The choir was assisted by three young men from Scotland, chums of the late Sergt. Stoneham. Sergt. Stoneham came to Florence when a young boy and spent most of his life in the town. He was in England on a visit when war broke out, and enlisted at once. He trained for four months, then was drafted to France in December, 1914, and had been on active service till his death.

For eight years this estimable young man was under the supervision of this department; and each year of his minority such splendid testimonials were given of him by his employer as the following: “He is greatly esteemed, is most useful and diligent in the discharge of his duty.”

A gentleman from West Norwood lately reported to us a curious coincidence. In 1888, we emigrated to Canada a lad named Robert Grey. He did exceedingly well, and became a man of substance and respectability. At the opening of the war he enlisted, and is now at the front. Our Norwood friend has been in constant touch with him all through his Canadian career. Grey, in a recent letter to him, stated that not long before, as he walked through the trenches, he found in a shell-hole a Good Conduct Medal which bore the name of George Reeves and the title of our Homes (Barnado.) One Barnado boy by accident had picked up a medal which had belonged to another: Reeves, we knew of, as doing well in a situation in England, but this was our first intimation that he was in the army in France. Both, we found, were in the Grenadier Guards, one in the 77th and the other in the 87th Battalion.

TWENTY BARNARDOITES IN ONE REGIMENT.

From one of our Ever-Open-door Superintendents we have this: “I have had a letter today from Frederick James Stagg, an old Barnardo boy. He went out to Canada in 1911, after five years’ stay in the Homes. He did well on a farm at Staffa, Ontario, was quite happy, and with good people; but he ‘heard the call’ and enlisted eleven months ago with the Canadian Infantry. At Stepney he was a musical boy (a ‘bell-boy’), and he is now a bandsman in the 110th battalion. He says that at
the camp in Canada there were at least twenty Barnardo boys in the same regiment, some of whom had been at Stepney with him. Of twenty-five in the band, two others besides himself are old boys, and twenty-three are teetotallers, including these three. He is full of thanks and praise to the Homes. 'There is no place like Canada,' he adds. He gave us a donation of 10s, quite voluntarily, and to show his gratitude.'

Number of boys who have enlisted from the different child agencies in Canada for overseas service.

<table>
<thead>
<tr>
<th>Agency</th>
<th>March, 1917</th>
<th>April 2, 1917</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barnardo</td>
<td>4,700</td>
<td></td>
</tr>
<tr>
<td>Middlemore</td>
<td>434</td>
<td></td>
</tr>
<tr>
<td>Macpherson</td>
<td>316</td>
<td></td>
</tr>
<tr>
<td>Church of England</td>
<td>369</td>
<td></td>
</tr>
<tr>
<td>Catholic Emigration Association</td>
<td>531</td>
<td></td>
</tr>
<tr>
<td>Salvation Army</td>
<td>61</td>
<td></td>
</tr>
<tr>
<td>Mrs. Smyley</td>
<td>110</td>
<td></td>
</tr>
<tr>
<td>National Children's Home and Orphanage</td>
<td>511</td>
<td></td>
</tr>
<tr>
<td>Fegan</td>
<td>352</td>
<td></td>
</tr>
<tr>
<td>Manchester and Salford Boys' and Girls' Refuges</td>
<td>64</td>
<td></td>
</tr>
<tr>
<td>Mrs. Hirt</td>
<td>209</td>
<td></td>
</tr>
<tr>
<td>Quarrier</td>
<td>301</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>8,049</td>
<td></td>
</tr>
</tbody>
</table>

The total emigration of children, as pointed out, has been approximately 70,000; of this number at least 45,000 or two-thirds were boys, a fair allowance for deaths and other changes during forty or fifty years would be about one-third, bringing the number down to 30,000. As shown in the statement attached the total enlistment of boys of this class aggregate more than 8,000, and thus equals nearly 25 per cent of all the boys who came to Canada.

G. BOGUE SMART,
Chief Inspector of British Immigrant Children and Receiving Homes.
PART III

SURVEYS
SURVEYS.

REPORT OF THE SURVEYOR GENERAL OF DOMINION LANDS.

Owing to the falling-off of immigration the Dominion Lands Surveys appropriation for 1916-17 was reduced to $976,300. In accordance with the department's general policy of retrenchment during the war, a further saving of $202,050 was made, the amount expended being only $774,250, or $269,250 less than the previous year. As a consequence, the number of parties in the field was reduced to fifty, the smallest number for several years.

BLOCK OUTLINE SURVEYS.

In recent times settlers have been following down the great waterways of the North and forming settlements in remote districts. This necessitated the extension of meridian and base line surveys to include those settlements in the Dominion Lands system. The extension of these lines is now so far advanced that the number of base line survey parties could be reduced to three. The total mileage surveyed was 568, a somewhat larger average than for the preceding year.

One of these parties surveyed short portions of base lines east and west of the Sixth meridian from township 92 to township 112. This will allow of the subdivision into townships of all the land in this latitude and west of Peace river which is suitable for settlement. The surveyor reports a stretch of good, fairly open country between Peace river and the Sixth meridian and north of township 100; he also reports an area near Hay lake, which lies in the vicinity of township 112 and about thirty-six miles west of the Sixth meridian, where thousands of tons of first-class wild hay could be cut in a season. The surface of the land in this district is, as a rule, lightly wooded with poplar and willow, but a few stretches of heavy spruce and poplar were found, the trees measuring up to twenty-four inches in diameter.

A second party surveyed base lines in the lower Peace river valley, just west of lake Athabaska. This area is very level and during high water parts of it are flooded. The soil is alluvial and patches of swamp and muskeg are frequent. The district is excellent for stock raising as hay grows in abundance in all the open places and vast stretches of hay meadows are found, more especially south of the 29th base line (the north boundary of township 112). On the ridges some good timber grows, consisting of spruce, birch, poplar, tamarack, and willow.

The third party ran portions of the 19th and 20th base lines just east of the Fourth meridian in the drainage area of Churchill river. The original forest growth has been burned off and the district has so often been fire swept that the accumulation of mould is nowhere deep. A large block along the 20th base line (north boundary of township 76) contains considerable good land. The surface is generally rolling, and the district is most suitable for ranching as good hay grows almost everywhere, especially in the fire swept areas. Along Beaver and Churchill rivers are numerous rapids, and in many cases the fall is such that a large amount of power could be developed. This may yet prove very valuable.

TOWNSHIP SUBDIVISION.

The subdivision of townships was again carried on under daily pay, work by contract having been discontinued. The results give additional proof that the present method is much more satisfactory in every way.

25—iii—14
Fifteen parties were engaged on regular subdivision, one operating in Manitoba, three in Saskatchewan, and eleven in Alberta. The trend of settlement was found to be still strongly towards the Peace river district, due partly to the large amount of desirable land in that locality and partly to the newly-constructed line of the Edmonton Dunvegan and British Columbia railway. As a consequence, nine of the eleven parties operating in Alberta were scattered over that district, one of these being southwest of Lesser Slave lake, two southeast of Dunvegan, two in the Peace River block, and four in the Peace river valley north of the town of Peace River. Of the remaining two parties in Alberta, one was working southeast of Lac La Biche and the other along the line of the Alberta and Great Waterways railway, now being constructed. When this line has been completed to McMurray a decided impetus will be given to the settlement of that district.

The three parties in Saskatchewan were working north of Prince Albert. To facilitate settlement around Torch and Candle lakes the Provincial Government is improving the road leading to the district from the south.

The party in Manitoba subdivided lands along the east shore of lake Winnipeg in the vicinity of the mouth of Bloodvein river.

**REGULAR TOWNSHIP SUBDIVISION, 1916.**

<table>
<thead>
<tr>
<th>Surveyor</th>
<th>Total mileage</th>
<th>$Total cost</th>
<th>Cost per mile</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baker, J. C.</td>
<td>504</td>
<td>18,396</td>
<td>36 50</td>
</tr>
<tr>
<td>Brenot, L.</td>
<td>428</td>
<td>19,265</td>
<td>45 01</td>
</tr>
<tr>
<td>Buchanan, J. A.</td>
<td>599</td>
<td>17,413</td>
<td>29 07</td>
</tr>
<tr>
<td>Christie, W.</td>
<td>465</td>
<td>15,793</td>
<td>33 96</td>
</tr>
<tr>
<td>Fawcett, S. D.</td>
<td>497</td>
<td>18,875</td>
<td>37 98</td>
</tr>
<tr>
<td>Glover, A. E.</td>
<td>447</td>
<td>17,908</td>
<td>40 06</td>
</tr>
<tr>
<td>Jackson, J. E.</td>
<td>436</td>
<td>12,902</td>
<td>29 59</td>
</tr>
<tr>
<td>Johnston, J. H.</td>
<td>538</td>
<td>18,413</td>
<td>34 22</td>
</tr>
<tr>
<td>Knight, R. H.</td>
<td>532</td>
<td>18,224</td>
<td>34 25</td>
</tr>
<tr>
<td>Lighthall, A.</td>
<td>557</td>
<td>17,838</td>
<td>32 02</td>
</tr>
<tr>
<td>McEwen, D. F.</td>
<td>504</td>
<td>17,743</td>
<td>35 21</td>
</tr>
<tr>
<td>McGarry, P. J.</td>
<td>458</td>
<td>17,927</td>
<td>38 29</td>
</tr>
<tr>
<td>Norrish, W. H.</td>
<td>436</td>
<td>18,229</td>
<td>41 81</td>
</tr>
<tr>
<td>Pierce, J. W.</td>
<td>608</td>
<td>15,690</td>
<td>25 81</td>
</tr>
<tr>
<td>Seibert, F. V.</td>
<td>636</td>
<td>18,271</td>
<td>26 63</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>7,695</strong></td>
<td><strong>262,789</strong></td>
<td><strong>34 15</strong></td>
</tr>
</tbody>
</table>

* Total cost includes depreciation of the outfit used.

The comparison between subdivision under contract in 1914 and subdivision by day work in 1915 and 1916 is given below:

<table>
<thead>
<tr>
<th>Year</th>
<th>Method</th>
<th>No. of Parties</th>
<th>Miles surveyed</th>
<th>Total cost</th>
<th>Cost per mile</th>
</tr>
</thead>
<tbody>
<tr>
<td>1914</td>
<td>Contract</td>
<td>18</td>
<td>7,686</td>
<td>229,303</td>
<td>29 83</td>
</tr>
<tr>
<td>1915</td>
<td>Day work</td>
<td>19</td>
<td>8,612</td>
<td>260,592</td>
<td>30 26</td>
</tr>
<tr>
<td>1916</td>
<td>Day work</td>
<td>15</td>
<td>7,695</td>
<td>262,789</td>
<td>34 15</td>
</tr>
</tbody>
</table>
The above statement shows the cost per mile of subdivision surveys under daily pay in 1916 as being four dollars and thirty-two cents more than for contract work in 1914. The chief reason for this is that in 1916 for the first time, levels were taken in connection with the subdivision by all of the regular parties engaged on this work; the cost is included in the total cost of survey, and is approximately three dollars per mile for the total miles of subdivision. In 1915 levelling was carried on by only four of the parties, and in order that a comparison of the parties could be made on an equal basis, the cost of levelling was deducted. If the same deduction were made for 1916 the comparative costs would be as follows:

<table>
<thead>
<tr>
<th>Year</th>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1914</td>
<td>Contract</td>
<td>$29.83</td>
</tr>
<tr>
<td>1915</td>
<td>Day work</td>
<td>30.26</td>
</tr>
<tr>
<td>1916</td>
<td>Day work</td>
<td>31.15</td>
</tr>
</tbody>
</table>

Since 1914 the increase in the prices of food is 30 per cent, survey labour 25 per cent, equipment and other expenses 10 per cent, an average of 22 per cent. A survey which, under contract, cost $29.83 in 1914 would have cost $36.30 in 1916, while the actual cost for the same survey by day work was only $31.15. The result is most gratifying.

In addition to the fifteen parties engaged on regular subdivision, five parties were employed in the railway belt of British Columbia on subdivision, traverse, and resurvey. Three parties were also engaged making subdivision surveys in northern Manitoba, where only small portions of the townships were required for settlement.

**INSPECTION OF SURVEYS.**

The abandonment of the contract system of performing subdivision surveys has greatly reduced the cost of inspection. In the past, five or six inspectors, each with a party, were engaged all or part of the season; last season only two surveyors were employed on this work, having no regular party with them and having only such assistance as was required for transportation, etc. Formerly only the parties working under contract were inspected, these being engaged on regular township subdivision. Under the present system an inspection is made of all the parties in the field. But though the number of parties examined has increased, the work of inspection is much less. In the past a considerable number of the surveyed lines in each township had to be checked for chainage and bearings to make sure that the work had not been carelessly performed. As contractors were paid according to the number of miles surveyed, there was every incentive for them to sacrifice accuracy for speed. Under the present system of daily pay there is no reason for the surveyor to slight his work, and the method of inspection has been modified to suit the changed conditions. The inspector now examines the surveyor's work by observing the actual methods employed in the various operations of chaining, levelling, turning angles, building monuments, offsetting survey posts, cutting out and blazing lines, etc. He furnishes a report on the methods of survey and of keeping the field notes and accounts, the instruments and equipment, and on the organization, general management, and efficiency of the party. In addition to this, the inspectors attend to the disposal of worn-out and unused outfits, the arranging for the wintering of the horses and other general business of this nature.

**WATER AREAS.**

The object of the stadia surveys is to revise quickly and at a moderate cost the survey of rivers, lakes and other bodies of water in townships subdivided many years ago. The drying up of these bodies of water has rendered the old township plans
unsatisfactory for the issuing of patents, and traverses of these bodies are necessary before new plans can be issued. Eleven surveyors were employed on stadia traverses in Saskatchewan and Alberta. They also reported on the progress of settlement, the amount of land under cultivation, the progress of grading on road allowances, and the condition of the survey monuments encountered.

The following table gives a synopsis of their work for the season:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Bennett, G. A.</td>
<td>71</td>
<td>554</td>
<td>350</td>
<td>544</td>
<td>131</td>
<td>135</td>
<td>8</td>
<td>818</td>
<td>6,148</td>
<td>7.51</td>
<td>86.50</td>
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<tr>
<td>Bowman, E. P.</td>
<td>38</td>
<td>118</td>
<td>305</td>
<td>479</td>
<td>189</td>
<td>173</td>
<td>47</td>
<td>888</td>
<td>5,965</td>
<td>6.72</td>
<td>156.97</td>
</tr>
<tr>
<td>Boulton, W. J.</td>
<td>81</td>
<td>0</td>
<td>344</td>
<td>446</td>
<td>305</td>
<td>143</td>
<td>35</td>
<td>933</td>
<td>6,496</td>
<td>6.94</td>
<td>80.20</td>
</tr>
<tr>
<td>Cowper, G. C.</td>
<td>93</td>
<td>81</td>
<td>85</td>
<td>195</td>
<td>190</td>
<td>42</td>
<td>10</td>
<td>443</td>
<td>5,843</td>
<td>13.19</td>
<td>62.83</td>
</tr>
<tr>
<td>Davies, T. A.</td>
<td>38</td>
<td>150</td>
<td>333</td>
<td>558</td>
<td>0</td>
<td>120</td>
<td>10</td>
<td>658</td>
<td>5,582</td>
<td>8.11</td>
<td>146.88</td>
</tr>
<tr>
<td>McKnight, J. H.</td>
<td>30</td>
<td>55</td>
<td>334</td>
<td>651</td>
<td>36</td>
<td>101</td>
<td>7</td>
<td>825</td>
<td>5,667</td>
<td>8.57</td>
<td>185.90</td>
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<tr>
<td>Palmer, P. E.</td>
<td>76</td>
<td>114</td>
<td>153</td>
<td>352</td>
<td>93</td>
<td>94</td>
<td>96</td>
<td>690</td>
<td>6,011</td>
<td>8.71</td>
<td>79.09</td>
</tr>
<tr>
<td>Rinfret, C.</td>
<td>83</td>
<td>142</td>
<td>285</td>
<td>368</td>
<td>61</td>
<td>83</td>
<td>39</td>
<td>574</td>
<td>6,295</td>
<td>10.96</td>
<td>75.74</td>
</tr>
<tr>
<td>Scott, W. A.</td>
<td>76</td>
<td>232</td>
<td>268</td>
<td>344</td>
<td>205</td>
<td>100</td>
<td>20</td>
<td>669</td>
<td>5,716</td>
<td>8.54</td>
<td>75.21</td>
</tr>
<tr>
<td>Soars, H. M. R.</td>
<td>33</td>
<td>145</td>
<td>528</td>
<td>556</td>
<td>107</td>
<td>88</td>
<td>6</td>
<td>757</td>
<td>5,736</td>
<td>7.55</td>
<td>173.82</td>
</tr>
<tr>
<td>Walker, C. M.</td>
<td>34</td>
<td>51</td>
<td>374</td>
<td>492</td>
<td>6</td>
<td>130</td>
<td>22</td>
<td>640</td>
<td>5,712</td>
<td>8.93</td>
<td>168.00</td>
</tr>
<tr>
<td></td>
<td>652</td>
<td>1,692</td>
<td>3,169</td>
<td>4,814</td>
<td>1,188</td>
<td>327</td>
<td>7,927</td>
<td>65,169</td>
<td>8.22</td>
<td>99.95</td>
<td>15.46</td>
</tr>
</tbody>
</table>

**ALBERTA—BRITISH COLUMBIA BOUNDARY.**

The delimitation of the interprovincial boundary between British Columbia and Alberta, commenced in 1913, was continued under the same arrangements as for the preceding year. Mr. R. W. Cautley, D.L.S. and A.L.S., who acted for the Dominion and Alberta was employed on the actual work of establishing the boundary and erecting the monuments, while Mr. A. O. Wheeler, B.C.L.S., who represented British Columbia, made a photo-topographical survey of the surrounding country. The boundary was defined last season through Palliser, White Man, and Assiniboine passes, this completing the survey from the international boundary to the main line of the Canadian Pacific railway. The report of the commissioners for this part of the work is now being prepared and will probably be issued during the present calendar year.

**SETTLEMENTS AND TOWNSITES.**

This work was very limited last season. Small settlements were surveyed at Birch River, Norway House, Carrot River, Menisino, and Bedford Station in Manitoba, together with a few scattered lot, cemetery, and townsite surveys in the other provinces.

**TIMBER BERTHS AND MINERAL CLAIMS.**

Two timber berths and parts of three others, comprising thirty-six miles of boundary, were surveyed.

Before patents can be issued for mineral claims they must be surveyed by a duly qualified Dominion Land Surveyor under instructions of the Surveyor General. Forty-one claims were surveyed, the majority being gold-mining claims in Manitoba in the vicinity of Herb lake northeast of Pas, and Rice lake east of the southern part of lake Winnipeg.
Townships which were subdivided twenty-five or thirty years ago were not as carefully done as at present. In many cases also no trace of the original survey can be found. Even where the survey was marked by iron survey posts of the old style these were often removed by persons ignorant of their importance, or by those interested in destroying evidences of the survey. Although there is a $50 reward for evidence of this offence few convictions have been secured, and posts are still being displaced. When the survey marks are removed it is difficult for the settlers to find their boundaries, and it is the policy of the department to renew the monuments where the lands cannot be located. This is done only in cases where at least part of the lands affected are still vested in the Dominion.

In some cases the original survey was poorly executed, and a quarter-section returned as one hundred and sixty acres was often as much as forty acres over or under that area.

The correction of these errors is made under the authority of section 57 of the Dominion Lands Surveys Act, and the restoration of obliterated monuments under section 58 of the same act. The Department of Justice has recently ruled that these sections are not applicable to lands which have passed from the Dominion prior to the date on which the act was assented to, unless authorized by the legislature of the province in which the lands are situated. The provinces of Saskatchewan and Alberta have passed acts authorizing these surveys but Manitoba has not.

Three parties were engaged in restoring obliterated monuments, retracing old lines, and making resurveys where there was authority for doing so. They retraced or resurveyed 1,369 miles, besides running 110 miles of traverse.

Some of the early surveys of base lines and initial meridians were not very accurate, both in direction and measurement. As these lines are the governing lines of all other surveys a knowledge of their deviations and discrepancies is necessary for the management of the system of survey as a whole. One party was employed retracing old base lines where inaccuracies were suspected, over 500 miles of line being thus surveyed.

Four surveyors, each with an assistant only, were employed in travelling through Manitoba, Saskatchewan, and Alberta, attending to complaints, correcting errors, erecting monuments, and making various adjustments where the amount of work to be done at any one place did not warrant the expense of a survey party. They hired assistance locally when required.

**Yukon Surveys.**

In the Yukon Territory the work is mostly in connection with mining claims and is under the supervision of the Director of Surveys who resides at Dawson. He is assisted in the office by one draftsman.
STATEMENT OF MILEAGE SURVEYED.

The following is a comparison of the mileage surveyed each year since 1914:

<table>
<thead>
<tr>
<th>Nature of Survey</th>
<th>April 1, 1914 to March 31, 1915</th>
<th>April 1, 1915 to March 31, 1916</th>
<th>April 1, 1916 to March 31, 1917</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Miles</td>
<td>Miles</td>
<td>Miles</td>
</tr>
<tr>
<td>Township outlines</td>
<td>3,270</td>
<td>2,725</td>
<td>1,952</td>
</tr>
<tr>
<td>Section lines</td>
<td>7,100</td>
<td>7,524</td>
<td>5,745</td>
</tr>
<tr>
<td>Traverse</td>
<td>5,141</td>
<td>7,234</td>
<td>9,706</td>
</tr>
<tr>
<td>Resurvey</td>
<td>2,544</td>
<td>3,441</td>
<td>2,355</td>
</tr>
<tr>
<td>Total for season</td>
<td>18,055</td>
<td>20,924</td>
<td>19,758</td>
</tr>
<tr>
<td>Number of parties</td>
<td>59</td>
<td>53</td>
<td>41</td>
</tr>
<tr>
<td>Average miles per party</td>
<td>307</td>
<td>395</td>
<td>482</td>
</tr>
</tbody>
</table>

The number of parties, which, owing to the nature of their work, cannot be included in this statement is nine this year. The survey of the forty-one parties cost $535,024, the average cost per mile being $27.08 as compared with $30.05 in 1915.

OFFICE WORK.

FIRST DIVISION—GENERAL INFORMATION.

The work performed by this division consists, in general, of the answering of requests for information concerning surveys received from the general public and from other branches and departments, the issuing of all preliminary township plans, the entering of all survey returns in the various registers, the issuing of the annual report and other publications of the branch, and special work of various kinds such as the drafting of formal descriptions of land, etc.

Formerly the drafting of instructions for the surveyors in charge of parties in the field was carried on by this division, but a new division has now been formed under the charge of the Supervisor of Field Work and Accounts, and the drafting of instructions, has been taken over by them. The plans and sketches to accompany the instructions, however, are still prepared in this division. These show all information about the section lines already surveyed, as well as about any Indian or forest reserves, townsites, settlements, etc., which are located in the townships to be surveyed. About 3,000 of these plans and sketches are required each year.

The distribution of the publications issued by this branch, including plans, maps, and pamphlets is attended to by this division. The number distributed each year amounts to many thousands.

All returns from surveyors in the field are received here and are entered up in the various registers. They are then sent on to another division for examination and compiling, after which they are returned for the purpose of being placed on record.

Formal descriptions for insertion in land patents and licenses of occupation are drafted by this division, especially in cases where the boundaries of a parcel are very irregular and the descriptions consequently complicated.
Since the first Manual of Instructions for the Survey of Dominion Lands was issued in 1871 there have been many changes in the character of the boundary monuments erected at township, section, and quarter-section corners. The importance of having exact information in regard to such monuments cannot be over-estimated, both for the surveyors in the field engaged on resurveys and similar work, and for the office staff in dealing with the returns of old surveys. In the past such information was not readily available as it existed only in the old manuals of which very few are now to be had, and in the old departmental reports. A pamphlet has been prepared entitled "Description of Boundary Monuments Erected on the Survey of Dominion Lands, 1871-1917," giving complete information as to the character of all monuments used year by year on Dominion Land surveys since the beginning of the season of 1871. The pamphlet is fully illustrated and indexed, and will be of great value for office work. It should also be of material assistance to all surveyors engaged on surveys in the western provinces. It is now almost ready for the printers, and will probably be issued in about three months.

In addition to the annual report of the branch and the pamphlet on boundary monuments, two other publications were issued. One is the third edition of the pamphlet entitled "Description of the Surveyed Townships in the Peace River District in the Provinces of Alberta and British Columbia." The other publication, issued for the first time, is the "List of Maps and Publications Issued by the Topographical Surveys Branch and Available for Distribution."

The preparation of an index of the maps in the collection of the Geographic Board has been undertaken. These maps, more than 1,000 in number, include charts covering Canadian waters published by the British Admiralty, the Canadian Hydrographic Survey, the United States Lake Survey, the United States Coast and Geodetic Survey, and the French Admiralty; maps published by the Department of the Interior, the Geological Survey, the Department of Militia and Defence, the Provincial Governments; and maps from other sources.

The index will be in two different forms, one graphical and the other numerical. The first will consist of eleven sheets or maps about fifteen inches by twenty-one inches. These will show only the most important topographical features of the country, and will have the various maps plotted on them in the form of rectangles. Sheet No. 1 will be of the whole Dominion, on a scale of about 200 miles to an inch, and will show maps of which the largest dimension covers at least 400 miles. The other ten sheets which are on larger scales and which, combined, cover the whole Dominion, will show the smaller maps in the same manner. The numerical part of the index will contain a list of all these maps arranged according to the numbers assigned them on the graphical index, and giving for each map the title, publisher, size, scale, and the year of publication. The work is now well in hand, and will be ready for the printers in two or three months.

SECOND DIVISION—EXAMINATION OF RETURNS OF SURVEY.

The British Columbia surveys division having been merged into this division, the work now comprises the examination of the returns of survey of all Dominion lands, together with the preparation of all official plans thereof. It includes the examination of topographical and boundary surveys, of all mineral claim surveys, and of all plans of railways and provincial roads.

In the early part of the year the staff is engaged upon the examination of the surveys of the preceding year. In the summer and autumn, the surveyors' progress reports and the stadia surveyors' field notes and plots are received and examined. As in past years, a number of the stadia surveyors came into the office for about three months during the winter to assist with the preparation of the official township plans showing their work.
The official plans now indicate by what surveyor each monument was erected or last restored. This additional information adds greatly to the value of the plans but takes considerable time to procure. This is especially the case in the surveys in the railway belt in British Columbia which are often quite complicated, a large number of surveyors having worked within the area shown on a single official plan. In the past a small additional survey could be added to the previously compiled plan in a short time, but with the introduction of the new method it becomes necessary to investigate each monument shown on the previous plan, besides adding the new survey. As a result the number of plans completed this year, 795, is considerably less than in former years, although a large number of others are in various stages of preparation.

An arrangement has now been adopted whereby certain plans of survey of Dominion lands previously objected to by the Manitoba Land Titles Office may now be brought under the operation of the Real Property Act, and the patentees may obtain certificates of title.

The maps and report of the Commission for the survey of the boundary between Alberta and British Columbia were examined and prepared for publication. The report, which covers the work of four years, will be issued at an early date.

The maps of the Jasper Park, Crowsnest Forest, and Waterton Lakes Park Surveys were also examined and prepared for publication.

Another increasing part of the work is the preparation of special plans of quarter-sections for the Land Patents Branch. Cases arise where the plan of a township does not correctly show some particular quarter-section for which it is required to issue patent. It may not be feasible to issue a new township plan, but a plan of the particular quarter-section is compiled, sufficient copies being made by hand in the Drafting Division for attaching to the patent sent to the Registrar of the Land Titles Office, and to the copy of the patent registered in the department, as well as for those offices where the plans are necessary for reference.

A record of the mileage of the provincial road plans examined has been kept; it shows a mileage of 883 for the 576 plans examined. Owing to the unsatisfactory plans of the Battleford-Swift Current trail, surveyed for the most part before subdivision of the townships, it was in many cases impossible to determine through which quarter-sections the trail actually passed. The whole trail, 183 miles in length, has been re-plotted from the original field notes and from ties shown in the subdividers' field notes, with very gratifying results.

Railway plans to the number of seventy-five were examined, the total mileage being 820. The work on Yukon maps has been continued in the district north of Tantalus and west of Dawson.

The reports from the travelling inspectors on the personnel, organization, efficiency, and work of the survey parties are noted and where any recommendations are made concerning the conduct of the survey such recommendations are communicated to the surveyors.

Considerable time was devoted in co-operation with the inspector of surveys amending the method of subdivision of townships and the consequent revision of the Manual of Surveys, and to the design and preparation of new and suitable blank field books for the use of surveyors in the field.

THIRD DIVISION—DRAFTING.

In other divisions of the branch, returns of survey are examined and plans compiled. Naturally the compiler's chief concern is the collecting of accurate information, such matters as neatness, arrangement, lettering, and appearance being secondary. The work of the Drafting Division consists mainly in re-drawing these plans neatly for photographing for reproduction.
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Additions have been made to the office equipment which greatly facilitates this work. They consist of a new tracing frame and a card index.

The tracing frame is larger than any previously used. The light is shut out by a curtain suspended from the ceiling in the form of a rectangle enclosing the frame, and leaving a clear space of about two feet on all sides of it. Above and below the curtain are open spaces to permit the air to circulate freely and give good ventilation. The advantages of this form of curtain over the hood type in which the curtain is quite close to the draftsman are apparent. The card index system has been adopted for recording township plans while being prepared for printing, and in connection with it a follow-up system traces the progress of all printing, through the various stages of drafting, photographing, proving, and printing.

The great majority of the plans drafted are plans of townships. To facilitate the work, printed forms of the roads, section numbers, and quarter-section lines of a regular township are used, requiring only the addition of the topography and the descriptive and numerical data. Townships, in part irregular, are re-drawn on a regular form printed in pale blue so that it is necessary for the draftsman to draw in black the regular part of the survey as shown in blue, and to depart from the standard blue form only where irregularities occur. The plans are reproduced by photography so that any of the blue form which has not been made black does not photograph.

At the end of last fiscal year there were 509 plans of townships on hand to be prepared for photographing. These have all been done, together with most of those received from the compilers during the year, so that we have now only 109 on hand. During the year 1,150 have been prepared, a number about 300 in excess of any previous year's work. This is accounted for by the clearing up of the large amount of work on hand at the beginning of the year.

Surveyors' sketch maps have been drawn and printed in the same way as last year, i.e. colours and symbols are used to describe the soil, timber, and other vegetation. The maps show the profiles along 960 miles of base lines surveyed, and the general character and topography of 654 townships or 23,544 square miles adjoining these lines.

The contour map of Jasper and vicinity, in four sheets on a scale of 1:10,000 or 6.336 inches to a mile with contour intervals of ten feet in the more level portions and twenty feet where slopes are steep, has been printed in four colours for office use. The map of Crowsnest Forest and Waterton Lakes park in five sheets, scale 1:62,500 or 1.014 inches to a mile with contour interval of 100 feet, is still with the printers but may be expected shortly. A third map of the central part of Jasper park in six sheets with scale and contour interval similar to the Crowsnest Forest map is also well under way. Astronomical Field Tables for use of Dominion Land Surveyors were prepared as in previous years, and also a number of such tables modified to suit the requirements of surveyors not operating on Dominion lands. Twenty-nine plans to accompany orders in council, eleven jobs of printing on the small Gordon press, twenty-three miscellaneous plans, and thirty-six other miscellaneous jobs were completed. The sectional maps are still distributed by one of the clerks of this division who also checks the stock from time to time so that the maps may be reprinted if necessary.

FOURTH DIVISION—MAPPING.

In the compiling room eight new sectional maps were prepared covering territory recently reached by base line surveyors. Three of these new sheets are in the region of lake Winnipeg and the other five are in northern Alberta. The area thus for the first time mapped with some degree of accuracy is about 30,000 square miles, being considerably larger than the province of New Brunswick. Revised editions were made of seventeen sheets and six others are in hand. The total number of sectional maps is now 128 covering an area of approximately 500,000 square miles.
In the surveys office at Calgary a scheme of contour lines is being worked out for all sectional maps covered by the network of base and meridian lines on which accurate levels have been taken. The contour interval is twenty-five, fifty, or one hundred feet, depending on the nature of the country. Five maps have been dealt with, three being new sheets and the other two revised editions. The contour lines will be shown in brown and will replace the hachures at present in use on the maps.

The method adopted two years ago of finding out the exact location of post offices and railway stations by sending diagrams to the postmasters, has been continued and with good results. Nine hundred and fifty diagrams of post offices on twenty sectional maps were sent out, and nine hundred and five were returned corrected.

Other work done in the office, but not directly connected with sectional maps, was as follows:

(1) The surveyors' reports received from April 1, 1915, to March 31, 1916, were prepared and printed in five pamphlets containing 170 pages. The preparation of reports for the year ended March 31, 1917, is well advanced.

(2) The sixth volume of reports of surveyors, being extracts from reports for townships 17 to 32, west of the Second meridian, is in hand, but progress is slow as only one man can be spared for the work and that for only part of the time.

(3) Parties employed on the survey of base and meridian lines penetrate far beyond all previous surveys and often reach districts of which very little is known. For this reason there is attached to every party an explorer whose duty it is to explore for twelve miles on each side of the line as the survey progresses. From the explorer's reports and sketches, combined with the returns of the survey of the line, a "sketch map" is made up showing the topography of the country along the line and for twelve miles on each side, with copious notes to indicate the kind of timber, the nature of the soil, etc. A scheme has been devised by which this information is shown by tints and symbols, and the notes which so tend to disfigure the maps have been reduced to a minimum. Three maps were worked out on this basis and accompany this report. They represent 568 miles of line run and cover an area of approximately 12,500 square miles.

(4) Eleven odd jobs were undertaken, the time required for each varying from one-half day to one week.

In the drafting room where the compiled maps are drawn for reproduction by photo-lithography one man has been engaged exclusively on maps of the Alberta-British Columbia boundary and the remainder on the sectional maps, preparing new sheets and revised editions for publication.

FIFTH DIVISION—SPECIAL SURVEYS.

Base Line Surveys.

Three parties were engaged in the survey of base lines. The required information for these surveys was prepared and the returns of survey are being examined. For several years past surveys of governing lines have been carried on within a fertile belt of twenty-seven million acres through which flow the lower waters of the Peace and Athabaska rivers. This block lies between the Fourth and Sixth meridians, and extends from township 88 to township 112. Surveys of governing lines in this block are now almost completed, four base line closings having been made therein during the past year. Of Dominion Lands surveys, those in this block are farthest north, the 29th base between the Fifth and Sixth meridians being 676 miles north of the international boundary, while the Sixth meridian has been produced to a point eighty-seven miles still farther north. Where the surveys have extended to such great distances there is danger of accumulations of error and consequent misplacement of monuments. Considerable care therefore has been exercised, and time spent in checking the records
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of these surveys to ensure the establishment of monuments as nearly as possible in their correct latitudes. Some required adjustments in the positions of corners in this block were recommended, and these were made during the survey of the lines. The results of the surveys in this block are very satisfactory, monuments being very nearly in correct latitudes, and the majority of the closings agreeing very well with the computed values.

Some time was required for keeping the records of monuments erroneously established, computing the changes required for the correction of these, and registering when and by whom these corrections were made. Three surveyors received instructions for the correction of monuments originally placed in error.

Over 500 miles of old base lines and meridians were retraced during the year. The required information for these surveys was prepared and the returns of survey are being examined. These retracements were required in connection with the examination which is being made of old bases and meridians, and a report on this work is being prepared. No latitude observations with the zenith telescope were made during the year.

Astronomical Work.

Azimuth Observations.—All the azimuth observations taken on base lines and meridians during the summer season of 1915 and the winter season of 1915-16 have been received at this office and examined. This examination consisted of the checking of 1,275 individual observations on Polaris taken at 450 stations and controlling the bearings of over one thousand miles of original governing survey lines and seven hundred miles of retracement survey lines. The average length of line depending on a set of observations has during the past season been reduced to 3-8 miles. This fact is considered worthy of notice, especially when the speed at which the line is now produced is taken into consideration, as it necessitated the taking of a set of azimuth observations on almost every second day that the line was being produced. The following table gives a comparison of the results obtained during the season of 1915 with preceding years in triennial periods:

<table>
<thead>
<tr>
<th></th>
<th>1909.</th>
<th>1912.</th>
<th>1915.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average correction per mile of line...</td>
<td>5&quot;5</td>
<td>2&quot;1</td>
<td>1&quot;6</td>
</tr>
<tr>
<td>Miles of line per azimuth station...</td>
<td>4'3</td>
<td>4'5</td>
<td>3'8</td>
</tr>
<tr>
<td>Average number of observations per azimuth station.</td>
<td>1'6</td>
<td>2'6</td>
<td>2'8</td>
</tr>
<tr>
<td>Average range of observations at an azimuth station.</td>
<td>17&quot;</td>
<td>9&quot;</td>
<td>9&quot;</td>
</tr>
</tbody>
</table>

This comparison shows that while very marked improvement took place in the earlier years of close supervision by this office over the work in the field, only a merely noticeable improvement has been obtained since. This fact would seem to indicate that further improvement in the work of the surveyor as regards azimuth observing and the accurate production of the line in bearing cannot reasonably be expected and indeed such improvement is not in any way necessary as the work now being done is considered well within the limits which practical considerations indicate as desirable.

Astronomical Field Tables.—The tables giving the right ascension and declination of the sun, and those tabulating the azimuth of Polaris were compiled and printed. A change in the latter was made to reduce somewhat their maximum error.

The general method of determining the azimuth of a line is to measure the angle between a mark on the line and one of the heavenly bodies, to compute the azimuth of the latter at that time, and from this to compute the azimuth of the line. For this purpose the tables of the Topographical Surveys were compiled, giving the azimuth of the Pole Star without any computation other than interpolation for latitude and time. The azimuth depends on the right ascension and declination of Polaris, the latitude of the place, and the hour angle of the star, the first two of which, in computing the tables, are considered constant, the other two variable. But this assumption is not strictly correct, and for a fixed latitude and time, the azimuth is varying
slightly from day to day. To assume a mean position of the star for a certain period produces an error, the magnitude of which depends on the period chosen. Some time ago, the position of the star during November and December, September and October, and July and August of three consecutive years was such that a mean position for this period introduced an error sufficiently small for the purpose of these tables, but gradually changes in the path of the star have caused this error to increase to such an extent that during the past year the grouping of months has had to be changed. The periods are now chosen in such a way as to give a minimum error for periods involving approximately six months, one set giving two months in each of three consecutive years, the other giving three months in each of two consecutive years. The arrangement is not as simple as the former one as it involves fractional months, but the maximum error has been decreased by about one-fifth. These new tables will be used after August, 1917.

Typical periods are:—

October 8 to December 14, 1916.
August 14 to October 6, 1917.
June 2 to August 9, 1918, and
December 15, 1917 to March 10, 1918.
March 9, 1919 to June 2, 1919.

Most surveyors and engineers in the past have dreaded azimuth determinations of any kind; observations were looked upon as a terrible ordeal, were dispensed with as much as possible, and were taken only when considered absolutely imperative. The two methods most commonly adopted for determining the azimuth of a line were by means of the sun and of Polaris at elongation. Observations by means of the sun have the great advantage that they are of course always taken in daylight and may be taken at almost any time in the summer months, except within say two hours of noon; they have the great disadvantage in that they are not very accurate, and the computations are long. The observation on Polaris at elongation is both easy to take, simple to compute and accurate in results, and land surveyors who desired accuracy in their work have adopted it almost universally in the past. It has the great disadvantage however, that, as elongation takes place only twice in twenty-four hours, the observation can be made at only two particular times of the day, and as one of these times is generally unsuitable on account of strong daylight and the consequent difficulty in seeing the star, in practice it generally happens that the observation can be made only once a day; if the weather conditions should, as may very likely happen, be unfavourable at that particular time the opportunity for observing is gone for another twenty-four hours. This is one of the main reasons why for some time back it has been the practice among an ever increasing number of surveyors and engineers to observe on Polaris at any time. The method, except when the star is close to upper or lower culmination is just as accurate as the elongation method but entails considerable computation. To overcome this, various forms of tables have been prepared. One form gives the azimuth with the hour angle and latitude as arguments, the declination being considered constant. A table of corrections for change in declination is also required. This form therefore requires the calculation of the hour angle from the watch time by means of a table giving the right ascension or the time of elongation by the star, double interpolation in the main table for hour angle and latitude, and a correction to this for change in declination, the last requiring also a table of declinations. Another form of table even less simple, is to compute the hour angle as above, interpolate in the table supplied for this value and for the year of the observation to obtain the approximate value of the azimuth, and interpolate in another table for this approximate azimuth and for the measured altitude to obtain a correction to the former. These tables are all arranged so as to be suitable for many years and are a great convenience over the actual computations, but the double interpolations and the various correction tables make them clumsy to use.
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Frequent azimuth observations are one of the primary necessities for accurate work. Now if the taking of these observations can be made so simple and easy that surveyors will think nothing of them, a big step will have been made in raising the standard of survey work. About fourteen years ago the Surveyor General took the problem in hand. Transits were designed with telescopes sufficiently powerful to permit of the star being seen clearly in daylight and tables were issued by means of which the azimuth was derived in a much simpler manner than in the tables described above. They have been in general use on Dominion Lands surveys ever since and, taken in conjunction with the observing of Polaris in daytime, have been generally conceded among surveyors to have been one of the greatest, if not the very greatest, improvement ever made in Dominion Lands surveys.

Although the tables have been prepared for the Dominion Lands system of township surveys and are not very convenient for any other purpose, their use has been increasing for some years among surveyors and engineers other than those engaged on Dominion Lands surveys. Last year, the Minister of the Interior was requested by the Minister of Lands, Forests and Mines for Ontario, on behalf of the Ontario Land Surveyors Association, to issue astronomical field tables of the same kind, but modified to be convenient for these other Canadian surveyors and engineers. The preparation of the tables was authorized by the minister and five sets similar to those used on Dominion Lands surveys but extending from latitude 42° to 56° and having the latitude instead of the township as argument, have been computed.

MAGNETIC SURVEYS.

In 1916, fifty surveyors were instructed to observe for magnetic declination, and on the surveys of R. C. Purser, D.L.S., and E. S. Martindale, D.L.S., observations for magnetic dip and total force were taken at thirty-eight stations.

The data obtained during 1916, together with a discussion of all the magnetic data obtained to date, accompanied by various magnetic maps will be published in monograph form.

SURVEYING INSTRUMENTS.

All instruments used on surveys are required to be of approved pattern and in good condition.

A list of the instrumental equipment of the surveyors employed in the field was compiled, and where it was thought advisable the instruments were inspected and repaired.

Repairs were made to seventy-three transit theodolites, forty-three levels, four surveying aneroids, two dip circles, twenty-three levelling rods, fifty-one stadia rods, seven rod levels, and ten tripods.

Twenty sidereal watches were overhauled and readjusted.

In connection with the inspection of instruments and outfitting of the surveyors, 349 cases aggregating 8 tons (16,085 pounds), were shipped from this office and 214 cases aggregating 6½ tons (12,843 pounds), received.

A statement of instruments on hand on March 31, 1917, showing also the instruments purchased and sold during the year is given in Appendix 13 to this report.

GENERAL WORK.

A contract was let for the supply of 30,000 survey posts to be used in the field during 1916. The post consisted essentially of a thirty-inch length of standard one-inch pipe with a malleable iron foot-plate on the bottom and a bronze cap on the top—the bronze cap carrying the inscription PENALTY FOR REMOVAL, SEVEN YEARS IMPRISONMENT, AND A CROWN. The completed post was then dipped in Mexican asphaltum, after
which it was filled with concrete consisting of equal parts of Portland cement and sand. The posts were packed in basswood crates holding ten posts each, for transportation purposes.

A representative from this division was deputed to oversee the manufacture of these posts, and this innovation resulted in work eminently satisfactory to both the manufacturer and the department.

Another contract has been let for 30,000 survey posts to be used in the field during 1917. The inscription on the bronze cap has been enlarged by the addition of the words DOMINION LANDS SURVEYS. Several improvements have been made in the design of the post, and the practice of deputing a representative to oversee the work has been continued.

Experiments have been made with the object in view of still further improving the design of these posts. The possibility of brazing on the bronze caps and welding on the foot-plates with the oxy-acetylene blow-pipe has been investigated, as has likewise the possibility of metal coating the outside of the post with zinc or copper to supersede the Mexican asphaltum at present in use.

A special short survey post for planting in rock has been designed and manufactured. In order to ascertain the best method of planting these posts, a piece of the hardest granite was obtained and the different surveyors in the city were invited to experiment for themselves and submit their opinions. As a result it would appear that little difficulty will be experienced in complying with the instructions which have been issued for planting these posts.

A special townsite post having a bronze cap on the top and a foot-plate on the bottom has been designed, the inscription on the cap being DOMINION LANDS SURVEYS.

All the surveyors in the field were circularized in regard to the best methods of planting and marking the standard survey posts. This has resulted in several improvements being effected.

A general review is being made of methods of rapidly solving the astronomical triangle for time-azimuths and altitude-azimuths, covering tables, solar attachment, calculating devices, abaci, nomograms, etc. This interesting matter is expected to be ready in the near future.

SURVEYS LABORATORY.

Complete tests were made of ten D.L.S. subdivision transits and seven clinometers. Partial tests were made of sixty-eight subdivision transits and fifteen levels. Twelve aneroid barometers were examined and a determination for index correction made; four aneroids were subjected to complete tests in accordance with the Bureau of Standards method, and certificates issued.

Tests were made for the War Purchasing Commission of Canada of thirty-three engineer's transits and twenty-three engineer's levels, and certificates issued for twenty-nine of the transits and twenty-three levels, the remaining four transits having been rejected.

Seventy-two sidereal watches were submitted for trial and sixty-six of these passed through complete tests; the remaining six stopped before the tests were finished. Five of the watches which stopped were repaired and later passed through complete tests. All watch tests are now made in accordance with the Bureau of Standards method for a class A certificate. Of the sixty-six watches completing the test, twenty-nine or forty-four per cent passed.

During the year one hundred and four stadia cards were computed, printed and issued to the surveyors.

The work done at the Surveys Laboratory is given in more detail in Appendix 12 of this report.

PHOTOGRAPHIC OFFICE.

Considerable time was spent reproducing the Crowsnest Forest Reserve and the interprovincial boundary maps which are printed in four colours. The black plates are
engraved on copper and transferred to zinc. The brown, blue, and red plates are photographed from the original drawing and printed direct on zinc.

A departure has been made from the ordinary practice in issuing the map of the central part of Jasper park in six sheets; the black has been carefully drawn by expert draftsmen and photographed direct for the press.

Photography is being used throughout for this map and the final results can hardly be distinguished from engraving.

The schedule in Appendix No. 3 shows an increase in the number of negatives over last year, caused by the large number of township plans issued during the latter part of the year.

Blue-print proofs from all negatives are now taken and if any errors are found correction is made on the negative before printing on zinc.

The amount of enlarging and printing was less than usual, due in a great measure to the falling off in photographic surveys.

Further experience with panchromatic dry plates which were tried out the previous season has proved them to be well adapted to photo-topographical surveying. The results obtained from these negatives both in the enlargements used for plotting purposes and the contact prints are all that can be desired.

A system which dispenses with much of the mounting of prints has been introduced. The small negatives are masked and printed on paper large enough for binding in covers, being made in this way into a loose-leaf album. While the saving in time is not great, the result is very neat and convenient.

GEOGRAPHIC BOARD.

The Geographic Board consists of eleven members appointed from the different departments at Ottawa and one member from each of the provinces. The secretary is an officer of the Department of the Interior.

The regular meetings of the board are held on the first Tuesday of every month, and all questions concerning geographic names in the Dominion which arise in the departments of the public service are referred to it. The names and orthography adopted by the board are to be accepted and used by all the departments in their publications.

The decisions of the board are published after each meeting in the Canada Gazette and also in bulletin form.

The report of the board is issued as a supplement to the report of the Department of the Interior. This report contains all decisions of the board since its inauguration and also its rules of nomenclature.

Besides attending to the correspondence of the board the secretary has prepared historical notes for a guide book to Jasper Park which will soon be published.

BOARD OF EXAMINERS FOR DOMINION LAND SURVEYORS.

The Board of Examiners for Dominion Land Surveyors held two meetings during the year.

The first was a special meeting lasting from May 1 to June 2 (inclusive), 1916, during which examinations were held at Ottawa, Toronto, Calgary, Edmonton, and Vancouver. The second was the regular annual meeting called for by section 9 of the Dominion Lands Surveys Act. It began on February 12, 1917, and lasted until March 15, 1917. During this meeting examinations were held at Ottawa, Toronto, Kingston, Calgary, Regina, Edmonton, and Vancouver. The total number of candidates for examination was 125. Of these 88 tried the preliminary examination, 35 tried the final examination and 2 tried the examination for Dominion Topographical Surveyor.
Twenty-nine candidates were successful at the preliminary examination, as follows:—

Bone, Allan Turner, Calgary, Alta.
Bush, Harold Frederick, Ottawa, Ont.
Donevan, Frederick James, Lansdowne, Ont.
Fetterly, Philip Austin, Calgary, Alta.
Fraser, John Donald, Ottawa, Ont.
Godwin, Dalton George, Ottawa, Ont.
Howe, John Parnell, Pembroke, Ont.
Johnston, George Wm. Frederick, Ottawa, Ont.
Lambert, Eugene, Montreal, Que.
Lawson, Horace Hetherington, Kingston, Ont.
Marchand, Eugene Francis, Ottawa, Ont.
Maddock, Charles Orville, Inwood, Ont.
Manning, Ralph Clarke, Hamilton, Ont.
Miller, William Harold, Ottawa, Ont.
McDonald, John Nicholson, Edmonton, Alta.

McDougall, John Lorne, Ottawa, Ont.
McGrath, Walter Neville, Ottawa, Ont.
McKenzie, Gordon Leslie, Ottawa, Ont.
Paterson, Elwin L., Rocklyn, Ont.
Petrie, Edward Archibald, Ottawa, Ont.
Phillip, Patrick, Vancouver, B.C.
Quinn, James John, Ottawa, Ont.
Raynard, Kenneth S., Ottawa, Ont.
Russell, Benjamin, Ottawa, Ont.
Samuel, Maxwell, Toronto, Ont.
Snell, Charles Henry, Red Deer, Alta.
Watson, Cyril James, Ottawa, Ont.
Whittier, Albert Ronald, Ottawa, Ont.
Wrong, Gordon, Sandwich, Ont.

Twenty-three candidates were successful at the final examination, as follows:—

Atkins, Cecil Benjamin, Revelstoke, B.C.
Beale, Alfred Martin, Ottawa, Ont.
Bruynseraede, Rene Paul, Edmonton, Alta.
Christie, Gerald Moffatt, Ashcroft, B.C.
Coursier, Eric Clarence, Revelstoke, B.C.
Daly, William Patrick, Ottawa, Ont.
Disney, John Harold, Edmonds, B.C.
Fleek, Samuel Evert, Port Arthur, Ont.
Hunt, Septimus, Calgary, Alta.
Joslyn, Cecil Earle, Sintaluta, Sask.
Lamargue, Ernest Charles Wm., Marine Heights, B.C.

Matheson, Alexander, Lorne, Ont.
Martin, Walter Harold, Toronto, Ont.
Mekie, MacKay, Ottawa, Ont.
Moffatt, William James, Vancouver, B.C.
McSugan, Donald Johnston, New Westminster, B.C.
Novion, Leon Marie Lucien, Edmonton, Alta.
Perry, Alfred Melville, Ottawa, Ont.
Rimmer, William Bolton, Vancouver, B.C.
Russell, John, Edmonton, Alta.
Spence, William A., Ottawa, Ont.
Tassie, Gilbert Culloden, Vancouver, B.C.

Twenty-three commissions were issued to candidates who had passed the final examination, and had furnished oaths of office and allegiance and bonds for the sum of one thousand dollars as required by section 25 of the Dominion Lands Surveys Act.

Seventeen certificates of preliminary examination were issued to successful candidates who had complied with the requirements of the law.

Section 35 of the Dominion Lands Surveys Act provides that every Dominion Land Surveyor shall be in possession of a subsidiary standard of length. During the year six new standards were issued to surveyors. One Ontario Land Surveyor, who was also a Dominion Land Surveyor, sent his O.L.S. standard measure to be tested. This measure was found to be in good condition, and after being tested at the Surveys Laboratory was re-issued as a subsidiary standard of length. One standard measure was issued to the Secretary of the Saskatchewan Land Surveyors’ Association for one of the members. One D.L.S. standard measure was tested at the laboratory.

APPENDICES.

No. 1. Schedule of surveyors employed and work executed by them.
No. 2. Schedule showing for each surveyor employed the number of miles surveyed of section lines, township outlines, traverses of lakes and rivers, and resurvey; also the cost of the same.
No. 3. Details of office work.
No. 4. Inspection Surveys.
No. 5. Base line Surveys.
No. 6. Subdivision Surveys.
No. 7. Railway Belt Surveys.
No. 8. Stadin Surveys.
No. 9. Miscellaneous Surveys.
No. 10. Yukon Surveys.
No. 11. Levelling.
No. 12. Report on work of Surveys Laboratory.
No. 13. List of surveying instruments on hand March 31, 1917.
MAPS AND PROFILES.

The following maps accompany this report:—
1. Map to illustrate progress of Dominion Land Surveys to March 31, 1917.
2. Map showing topography and profiles of base lines and meridians run during the year.

E. DEVILLE,
Surveyor General.

Note.—Appendices Nos. 4 to 13 and the maps accompany the report of the Topographical Surveys Branch in monograph form.
## SCHEDULES AND STATEMENTS.

### APPENDIX No. 1.

Schedule of Surveyors employed and work executed by them.

<table>
<thead>
<tr>
<th>Surveyor</th>
<th>Address</th>
<th>Description of Work</th>
</tr>
</thead>
<tbody>
<tr>
<td>Akins, J. R.</td>
<td>St. Catharines, Ont.</td>
<td>Survey of the following base lines west of the Fifth meridian: the 24th and 25th bases across ranges 22 to 25; the 26th base across ranges 21 to 25; and the 28th base across ranges 19 to 24. Survey of the following base lines west of the Sixth meridian; the 24th base across ranges 1 and 2; the 25th base across ranges 1 to 3; the 26th base across ranges 1 to 2, 1, and part of 3; the 27th base across ranges 1 to 2; the 28th base across ranges 1 and 2; and the 29th base across ranges 1 to 6.</td>
</tr>
<tr>
<td>Ayisworth, C. F.</td>
<td>Madoc, Ont.</td>
<td>Resurvey in tps. 17 and 13-19-Pr.; tps. 38-25-Pr.; and tps. 37 and 38-29-Pr. Traverse in tps. 17 and 18-18-Pr.; and tps. 18-20-Pr.</td>
</tr>
<tr>
<td>Baker, J. C.</td>
<td>Kingston, Ont.</td>
<td>Subdivision of tps. 92-22-5; tps. 92 and 93-23-5; and tps. 89-26-5. Part subdivision of tps. 91-23-5; tps. 93-24-5; and tps. 89-25-5. Survey of the east outlines of tps. 90-25-5; and tps. 90-26-5.</td>
</tr>
<tr>
<td>Bennett, G. A.</td>
<td>Tillsonburg, Ont.</td>
<td>Stadia surveys in tps. 31, 32, 33, 34, and 35-1-3; 31, 32, 33, 34, and 36-2-3; tps 31, 32, 33, and 34-3-3; tps. 31, 32, 33, and 35-4-3; tps. 32, 33, 34, 35, 36, and 37-2-3; tps. 31, 32, 33, 34, 35, 36, and 37-6-3; tps. 31, 32, 33, 34, 35, 36, and 37-7-3; tps. 30, 31, 32, 33, 34, 35, 36, and 37-8-3; tps. 31, 32, 33, 34, 35, 36, and 37-9-3; tps. 31, 32, 33, 34, 35, 36, and 37-10-3; tps. 31, 32, 33, 34, 35, 36, and 38-11-3; tps. 33, 35, 36, and 38-12-3; and tps. 36, 37, and 38-13-3.</td>
</tr>
<tr>
<td>Blanchet, G. H.</td>
<td>Ottawa, Ont.</td>
<td>Survey of the 19th base line across ranges 18 to 27; and the 20th base line across ranges 10 to 26, west of the Third meridian.</td>
</tr>
<tr>
<td>Boulton, W. J.</td>
<td>Wallaceburg, Ont.</td>
<td>Stadia surveys in tps. 15, 16, 17, 18, and 19-13-4; tps. 17, 18, and 19-14-4; tps. 15, 16, 17, 18, and 19-16-4; tps. 15, 16, 17, 19, and 20-17-4; tps. 15, 16, 17, 18, and 20-18-4; tps. 15, 16, 17, 18, and 19-19-4; tps. 15, 16, 17, 18, and 19-20-4; tps. 14, 15, 16, 17, and 19-21-4; tps. 14, 15, 16, 17, and 19-22-4; tps. 16 and 17-23-4; tps. 16-24-4; tps. 15, 16, 17, and 18-25-4; tps. 15, 16, 17, and 19-25-4; tps. 15, 16, 17, and 19-26-4; tps. 15, 16, 17, and 19-27-4; tps. 14, 16, 17, 18, and 19-28-4; tps. 15, 16, 17, and 19-29-4; and tps. 15, 16, and 17-30-4. Retracement in tps. 16-13-4; tps. 15 and 16-14-4; tps. 17-16-4; tps. 16-18-4; tps. 17-19-4; tps. 16 and 18-20-4; tps. 18-21-4; tps. 16 and 17-22-4; tps. 15, 16, and 19-23-4; tps. 15, 17, 18, and 19-24-4; tps. 16 and 19-25-4; tps. 17-26-4; tps. 18-27-4; and tps. 15-28-4.</td>
</tr>
</tbody>
</table>
Schedule of Surveyors employed and work executed by them—Continued.

<table>
<thead>
<tr>
<th>Surveyor</th>
<th>Address</th>
<th>Description of Work</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bowman, E P.</td>
<td>West Montrose, Ont.</td>
<td>Stadia surveys in tps. 46 and 47-14-3; tps. 45, 46, 47, 48, 49, and 50-15-3; tps. 46, 47, 48, 49, and 50-16-3; tps. 47, 48, 49, and 50-17-3; tps. 45, 46, and 47-19-3; tps. 45, 46, 47, 48, 49, 50, and 51-20-3; tps. 45, 46, 47, 48, 49, and 50-23-3; tps. 46, 47, 48, 49, and 50-24-3; and tps. 46, 47, 48, 49, and 50-24-3. Retracement in tp. 51-21-3; and tp. 51-24-3.</td>
</tr>
<tr>
<td>Brenot, L.</td>
<td>Ottawa, Ont.</td>
<td>Subdivision of tps. 81-15-6; tps. 83 and 84-16-6; and tp. 81-17-6. Part subdivision of tps. 82-16-6; and tp. 82-17-6. Survey of the east outlines of tps. 81-16-6; and tp. 82-17-6.</td>
</tr>
<tr>
<td>Brownlee, J. H.</td>
<td>Dawson, Y.T.</td>
<td>Mineral claim, base line, and miscellaneous surveys in the Yukon Territory.</td>
</tr>
<tr>
<td>Buchanan, J. A.</td>
<td>Edmonton, Alta.</td>
<td>Subdivision of tps. 95 and 94-20-5; and tp. 93-21-5. Part subdivision of tps. 95 and 97-18-5; tps. 95, 96, and 97-20-5; and tp. 94-21-5. Survey of the east outlines of tps. 93 and 96-19-5; and the north outline of tp. 93-19-5. Traversal in tp. 94-19-5.</td>
</tr>
<tr>
<td>Cautley, R. W.</td>
<td>Edmonton, Alta.</td>
<td>Survey of interprovincial boundary between Alberta and British Columbia in Palliser pass; White Man pass; and Assiniboine pass.</td>
</tr>
<tr>
<td>Coté, J. M.</td>
<td>Ottawa, Ont.</td>
<td>Miscellaneous subdivision in tps. 31 and 46-12-2; tp. 41-13-2; tp. 37-14-2; tp. 39-15-2; tp. 39-18-2; tps. 31 and 32-28-2; tp. 31-12-3; tp. 33-13-3; tps. 32 and 33-15-3; tp. 33-16-3; tp. 36-18-3; tps. 36, 39, 40, and 49-19-3; tps. 34, 35, 36, and 40-20-3; tps. 31 and 32-24-3; tp. 32-25-3; and tp. 32-26-3. Resurvey in tps. 41 and 42-23-2; tps. 46 and 47-1-3; tps. 45 and 46-2-3; tp. 34-5-3 and tp. 50-25-3. Retraction surveys in tp. 26-9-2; tps. 26 and 27-10-2; tp. 35-22-2; tp. 38-22-2; tp. 41-24-2; tps. 45, 45A, 46 and 47-27-2; tp. 30-28-2; tp. 31-29-2; tp. 48-1-3; tp. 31-16-3; tp. 36-17-3 and tp. 33-20-3. Restoration surveys in tps. 46A and 47-26-2, and tp. 34-12-5. Correction surveys in tps. 34-6-3; and tp. 41-13-3. Lot survey in tp. 44-7-4.</td>
</tr>
<tr>
<td>Cowper, G. C.</td>
<td>Welland, Ont.</td>
<td>Stadia surveys in tps. 22 and 33-4-4; tps. 22, 29, 31, 32, 33, and 34-5-4; tps. 22, 27, 28, 29, 30, 31, 32, and 33-7-4; tps. 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, and 33-8-4; tps. 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, and 34-11-4; tps. 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, and 34-12-4; tps. 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33-15-4; tps. 25, 26, 27, and 33-14-4; tps. 33 and 34-15-4; tps. 33 and 34-16-4; and tps. 33 and 34-17-4.</td>
</tr>
</tbody>
</table>
### Schedule of Surveyors employed and work executed by them—Continued.

<table>
<thead>
<tr>
<th>Surveyor</th>
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<th>Description of Work</th>
</tr>
</thead>
<tbody>
<tr>
<td>Davies, T. A.</td>
<td>Edmonton, Alta.</td>
<td>Stadia surveys in tps. 37, 41, and 42-28-3; tp. 37-29-3; tps. 37, 38, 39, 40, 41, 42, and 43-1-4; tps. 38, 39, 40, 41, and 42-3-4; tps. 36, 37, 38, 39, 40, 41, 42, and 43-4-4; tps. 36, 37, 38, 39, 40, 41, 42, and 43-5-4; tps. 38, 39, 40, 41, 42, and 44-6-4; tps. 37, 38, 39, 40, 41, 42, and 44-7-4; tps. 36, 37, 38, 39, 40, and 42-8-4; and tp. 39-9-4.</td>
</tr>
<tr>
<td>Deans, W. J.</td>
<td>Brandon, Man.</td>
<td>Subdivision in tps. 58 and 65-2-Pr; tps. 57, 58 and 65-3-Pr; and tp. 57-4-Pr. Survey of Elk Island in tps. 20 and 21-7-E; Lot surveys at Birch River station in tp. 39-26-Pr; and at Norway House in tp. 57-3-Pr. and tp. 57-4-Pr.</td>
</tr>
<tr>
<td>Evans, S. L.</td>
<td>Corinth, Ont.</td>
<td>Subdivision in tps. 19 and 20-4-3; tp. 19-5-3; tp. 19-24-3; and tp. 24-4-3. Retracement in tp. 18-24-2; tps. 18 and 19-25-2; tps. 18 and 19-3-3; tps. 17 and 18-4-3; Tps. 18 and 19-5-3; tps. 15 and 16-6-3; tps. 17 and 18-8-3; tp. 17, 18 and 19-9-3; tp. 17-10-3; tp. 17-11-3; tp. 17-14-3; tp. 14-16-3; tps. 19 and 20-17-3; tp. 17-18-3; tp. 18-3-4; tp. 17-9-4; tp. 17-10-4; tp. 19-11-4; tps. 18 and 19-12-4; tps. 18 and 19-13-4; tps. 19 and 20-14-3; tps. 19 and 20-15-3; tp. 19-16-4; tp. 17-17-3; tp. 22-18-3; and tps. 13, 14, and 15-19-3. Correction in tp. 19-22-2. Traverse in tp. 60-6-4; tp. 58-9-4; and tp. 59-11-4. Examination of subdivision surveys made during the season by J. C. Baker, D.L.S.</td>
</tr>
<tr>
<td>Fletcher, J. A.</td>
<td>Fletcher, Ont.</td>
<td>Survey of the 29th base line across ranges 7 to 21; and the 30th base line across ranges 8 to 16 and part of range 17, west of the Fourth meridian. Survey of the east outlines of tps. 113, 114, 115, and 116-8-4.</td>
</tr>
<tr>
<td>Galletly, J. S.</td>
<td>Oshawa, Ont.</td>
<td>Subdivision in tp. 55-28-Pr; tp. 55-29-Pr; and tp. 55-30-Pr Survey of road in tp. 55-27-Pr; and tp. 55-28-Pr. Survey of Carrot River settlement in tp. 55-29-Pr; and of timber berth No. 920 in tp. 55-29-Pr; and tp. 55-30-Pr.</td>
</tr>
<tr>
<td>Glover, A. E.</td>
<td>Edmonton, Alta.</td>
<td>Subdivision of tp. 75-25-5; tp. 75-5-5; and tps. 75 and 76-3-6. Part subdivision of tps. 74 and 75-24-5; and tp. 74-25-5. Survey of the east outlines of tps. 74 and 76-25-5; tps. 74 and 76-26-5; and part of tp. 74-3-6.</td>
</tr>
<tr>
<td>Jackson, J. E.</td>
<td>Hamilton, Ont.</td>
<td>Subdivision of tp. 32-5-E; tps. 30, 31, and 32-6-E; and tps. 28, 29, and part of 30-7-E. Traverse in tps. 27 and 31-7-E; and tps. 27 and 28-8-E. Retraction of I. R. in tp. 32-7-E.</td>
</tr>
</tbody>
</table>
## Schedule of Surveyors employed and work executed by them—Continued.

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<tr>
<th>Surveyor</th>
<th>Address</th>
<th>Description of Work</th>
</tr>
</thead>
<tbody>
<tr>
<td>Johnston, W. J.</td>
<td>St. Catharines, Ont.</td>
<td>Subdivision in tp. 21-23-5; tps. 20 and 21-29-6; tps. 26, 21 and 22-16-6; tps. 22, 23 and 24-2-6; tp. 23-3-6; and ...and 22-7-6. Traverse in tps. 21 and ...t. 23-2-6; n. 23-3-6; and tps. 21 and 23-7-6.</td>
</tr>
<tr>
<td>King, J. A. S.</td>
<td>Ottawa, Ont.</td>
<td>Subdivision in tps. 3 and 4-8-Pr.; tps. 16 an ...r.; tps. 15, 16, 17, and 18-11-Pr.; tps ...and 4-21-Pr.; tps. 3 and 4-22-Pr.; tp. 43-26 ...Pr.; tp. 44-25-Pr.; and tp. 44-29-Pr.; Retracement survey in tp. 46-28-Pr.; tp. 22-29-Pr.; tp. 29-29A-Pr.; tp. 10-2-2'; tp. 11-3-2; and tp. 11-4-2. Correction survey in tp. 10-5-2. Traverse in tp. 41-23-Pr.; and tp. 40-24-Pr. Investigation of Big Grass marsh in tps. 15 and 19-10-Pr.</td>
</tr>
<tr>
<td>Knight, R. H.</td>
<td>Edmonton, Alta.</td>
<td>Subdivision of tp. 82-6-4. Part subdivision of tps. 84-5-4; tps. 73, 80, 81, 83, and 84-6-4; and tps. 78, 73, 80, 81, and 86-7-4. Traverse in tps. 76, 77, 83, and 54-7-4; tps. 76, 78, and 77-8-4; tps. 73, 75, and 75-9-4; and tps. 73 and 74-10-4.</td>
</tr>
<tr>
<td>LeBlanc, P. M. H.</td>
<td>Ottawa, Ont.</td>
<td>Subdivision of tp. 57-29-Pr. Part subdivision of tps. 54 and 55-29-Pr.; tp. 56-21-Pr.; tp. 57-27-Pr.; tp. 57-28-Pr.; and tp. 58-29-Pr. Survey of the east outlines of tps. 53-26-Pr.; tp. 53-21-Pr.; and part of tp. 56-20-Pr. Retracement of part of P.R. No. 31b, and survey of P.R. No. 31b in tp. 54-19-Pr. Traverse of road between Barrier and Sturgeon lakes.</td>
</tr>
<tr>
<td>Lighthall, A.</td>
<td>Vancouver, B.C.</td>
<td>Subdivision of tp. 79-1-6; tp. 79-2-6; and tps. 80-7-6. Part subdivision of tps. 73 and 78-1-6; tps. 77 and 78-2-6; tps. 77-2-6; tps. 79 and 80-6-5; and tps. 78 and 79-7-6. Survey of the east outline of tp. 80-6-6.</td>
</tr>
<tr>
<td>Martindale, E. S.</td>
<td>Aylmer, Ont.</td>
<td>Subdivision in tp. 10-3-2. Retracement in tp. 11-6-2; tp. 2-16-2; tp. 11-17-2; tp. 2; tp. 20-29-2; tp. 20-1-3; tp. 11-6-3; tp. 7-3; tp. 23-8-3; tps. 15, 17, and 15-9-3; 12 and 13-1-4; and tp. 22-9-4. Correction survey in tps. 15 and 16-2-3; tp. 19-3-3; tp. 16-4-3; tp. 15-5-3; tp. 18-6-3; tp. 16-5-3; tp. 18-11-3; and tp. 16-1-4. Restoration survey in tp. 11-29-3; and tp. 22-3-1-4. Investigation of monuments in tp. 17-5-3; and tp. 26-9-3. Traverse in tp. 11-2-2; tp. 9-3-2; tp. 21-23-3; tps. 5 and 6-29-3; tp. 19-28-4; and tp. 19-29-4. Survey of reservoir site in tp. 5-21-3. Survey of cemetery at Banff, and correction in St. Julien addition to the townsite of Banff. Preliminary survey of Drumheller townsite in tp. 29-20-4.</td>
</tr>
<tr>
<td>Surveyor</td>
<td>Address</td>
<td>Description of Work</td>
</tr>
<tr>
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</tr>
<tr>
<td>McEwen, D. F.</td>
<td>Edmon.on, Alta.</td>
<td>Subdivision of tps. 69, 70, and 71-19-5; tps. 69 and 70-26-5; and tp. 69-21-5. Part subdivision of tps. 71 and 72-18-5. Traverse in tp. 72-19-5; and tp. 68-21-5.</td>
</tr>
<tr>
<td>McGarry, P. J.</td>
<td>Merriton, Ont.</td>
<td>Subdivision in tp. 58-7-3; tps. 57, 58, 59, and 60-8-3; tps. 57, 59, and 60-9-3; and tps. 59 and 60-10-3.</td>
</tr>
<tr>
<td>McKay, P. R.</td>
<td>Toronto, B.C.</td>
<td>Subdivision in tps. 1, 2, and 5-26-6; tps. 1, 2, 3, and 4-27-6; tps. 3 and 4-26-9; tps. 3-20-6; tps. 4-5-7; tps. 20, 21, 24, and 42 E.C.M.; and tp. 2 W.C.M. Traverse in tp. 1-26-6; tps. 1, 2, 3, and 4-27-6; tps. 4-28-6; tps. 4-46-20; tps. 3-30-6; tps. 4-5-7; and tps. 21, 24, and 42 E.C.M.</td>
</tr>
<tr>
<td>McKnight, J. H.</td>
<td>Muscoe, Ont.</td>
<td>Stadia surveys in tp. 42-17-2; tps. 41, 42, 43, 44, and 45-18-2; tps. 39, 40, 41, 42, 44, and 45-19-2; tps. 38, 39, 40, 41, 42, 44, 44, 45, and 46-20-2; tps. 38, 39, 40, 41, 43, 44, 45, and 46-21-2; tps. 44 and 45-21A-2; and tps. 40, 45, 45A, and 46-22-2.</td>
</tr>
<tr>
<td>Norris, W. H.</td>
<td>Ottawa, Ont.</td>
<td>Subdivision of tps. 52-13-2; tps. 53-14-2; and tps. 53-15-2. Part subdivision of tps. 53-12-2; tps. 54-14-2; and tps. 54-15-2. Traverse in tp. 52-12-2; tps. 52-13-2; tps. 52-14-2; tps. 52-15-2; and tps. 54-16-2.</td>
</tr>
<tr>
<td>Palmer, E. E.</td>
<td>Ottawa, Ont.</td>
<td>Stadia surveys in tps. 25, 26, 27, 28, 29, 30, and 31-5-3; tps. 25, 26, 27, 28, 29, 30, and 31-5-3; tps. 25, 26, 27, 28, 29, and 30-4-3; tps. 23, 24, 25, 26, 27, 28, 29, 30, 31, and 32-5-3; tps. 23, 24, 25, 26, 27, 28, 29, and 30-6-3; tps. 23, 24, 25, 26, 27, 28, 29, and 30-7-3; tps. 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, and 31-5-3; tps. 20, 21, 22, 23, 25, 26, 27, 28, 29, 30, and 31-5-3; tps. 20, 21, 22, 23, 25, 26, 27, 28, 29, and 31-5-3; tps. 20, 21, 22, 23, 24, 25-10-3; tps. 19, 20, 21, 22, 23, 24, and 25-11-3; tps. 18, 19, 20, 21, 22, 23, 24, and 25-12-3; and tps. 19, 20, 21, 22, and 23-13-3.</td>
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<tr>
<td>Plunkett, T. H.</td>
<td>Meaford, Ont.</td>
<td>Retraction surveys in tps. 4 and 12-9-E; tps. 1-10-E; tps. 23-1-Pr.; tps. 22-6-Pr.; tps. 17-20-Pr.; tps. 6-25-Pr.; tps. 39-26-Pr.; tps. 23-27-Pr.; tps. 28-29-Pr.; tps. 23-30-Pr.; tps. 12 and 21-31-Pr.; and tps. 23-32-Pr. Traverse in tp. 23-1-Pr.; tps. 30-9-Pr.; tps. 17-19-Pr.; tps. 17-20-Pr.; and tps. 28-29-Pr. Subdivision at Bedford Station in tp. 5-9-E; at Menisino in tp. 1-10-E; and at Birch River in tp. 39-26-Pr.</td>
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DEPARTMENT OF THE INTERIOR

8 GEORGE V, A. 1918

Schedule of Surveyors employed and work executed by them—Continued.

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<tbody>
<tr>
<td>Purser, R. C.</td>
<td>Ottawa, Ont.</td>
<td>Subdivision in tps. 36 and 37-4-4; and tp. 36-5-4. Resurvey in tps. 24-2-2; tps. 23 and 24-3-2; tps. 19-11-2; and tps. 10 and 49-5-3. Retracement in tp. 32-1-2; tp. 23-3-2; tp. 30-17-2; tp. 30-26-2; tp. 29-27-2; tp. 50-28-2; and tp. 29-12-3. Correction survey in tps. 29-32-2; tps. 21-4-2; tps. 28-13-2; tps. 28-16-2; tps. 27 and 43-17-2; tp. 46-20-2; tp. 27-24-2; tp. 51-25-2; tp. 38-26-2; tps. 28 and 42-27-2; tp. 38-10-3; tp. 51-15-3; tp. 52-17-3; tp. 41-24-3; tp. 42-25-3; tp. 42-4-1; and tp. 35-19-4. Restoration survey in tps. 27 and 28-26-2. Investigation in tp. 46-8-3. Erection of monuments in tp. 32-1-5. Traverse in tp. 49-27-2; and tp. 29-21-4. Survey of Dookhobor cemeteries in tp. 39-5-2. Lot resurvey in tp. 43-1-3.</td>
</tr>
<tr>
<td>Rinfret, C.</td>
<td>St. Stanislas, PQ.</td>
<td>Stadia surveys in tps. 9, 10, and 17-21-2: tps. 9, 10, 11, 12, 13, 14, 15, and 16-25-2; tps. 10, 11, 12, 13, 14, 15, and 16-26-2; tps. 8, 9, 10, 11, 14, 15, and 16-27-2; tps. 8, 9, 10, 11, 14, 15, and 16-28-2; tps. 8, 9, 10, 11, 12, and 15-29-2; tps. 9, 10, and 11-30-2; tps. 7, 8, 9, 10, 11, 12, 13, and 14-3-3; tps. 7, 8, 9, 10, 11, 12, and 14-5-3; tps. 9, 10, 11, 12, 13, 14, and 15-7-3; and tps. 7, 8, 9, 10, 11, 12, and 14-7-3.</td>
</tr>
<tr>
<td>Scott, W. A.</td>
<td>Galt, Ont.</td>
<td>Stadia surveys in tp. 15-15-E; tps. 1-5, 7, 9, 11-14-2; tps. 17, 18, 19, and 20-21-2; tps. 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, and 30-2; tps. 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, and 70-2. Traverse in tp. 64-9-4.</td>
</tr>
<tr>
<td>Seibert, F. V.</td>
<td>Edmonton, Alta.</td>
<td>Subdivision of tp. 65-6-4; tp. 65-7-4; tps. 65 and 66-8-4; and tps. 65 and 66-9-4. Part subdivision of tp. 66-6-4; and tp. 66-7-4. Survey of the east outlines of tps. 67 and 68-8-4. Traverse in tp. 64-9-4.</td>
</tr>
<tr>
<td>Soars, H. M. R.</td>
<td>Edmonton, Alta.</td>
<td>Stadia surveys in tps. 46, 47, 48, and 49-15-4; tps. 46, 47, 48, and 49-16-4; tps. 44, 45, 46, 47, 48, and 49-18-4; tps. 45, 46, 47, 48, and 49-19-4; tps. 45, 46, 47, 48, and 49-20-4; tps. 45, 46, 47, 48, and 49-21-4; tps. 44, 45, 46, 47, and 48-22-4; tps. 44, 45, 46, and 47-23-4; and tp. 46-24-4.</td>
</tr>
<tr>
<td>Stewart, N. C.</td>
<td>Vancouver, B.C.</td>
<td>Subdivision in tp. 29-23-5; tps. 28 and 29-25-5; tps. 28, 24, and 24-1-5; and tps. 24 and 24-2-6. Traverse in tp. 29-23-5; tp. 24-1-5; and tps. 24, 25, 26, and 27-2-6. Townsite correction survey at Golden.</td>
</tr>
<tr>
<td>Stuart, A. G.</td>
<td>Winnipeg, Man.</td>
<td>Retraction survey of the Third meridian from the international boundary to township 48; and the 14th base line from the eastern boundary of range 22 west of the Third meridian, to the Fifth meridian. Miscellaneous retracement in tp. 12-25-2; tp. 11-30-2; and tp. 12-1-5.</td>
</tr>
<tr>
<td>Taggart, C. H.</td>
<td>Kamloops, B.C.</td>
<td>Subdivision in tps. 21-11-6; tps. 21 and 22-12-6; tps. 23 and 24-14-6; tps. 21, 22, 23, and 24-15-6; tps. 20 and 21-16-6; and tp. 17-17-6. Traverse in tp. 22-12-6; tp. 20-16-6; and tp. 17-17-6.</td>
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**SESSIONAL PAPER No. 25**

**Schedule of Surveyors employed and work executed by them—Concluded.**

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<tr>
<th>Surveyor</th>
<th>Address</th>
<th>Description of Work</th>
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<tr>
<td>Walker, C. M.</td>
<td>Ottawa, Ont.</td>
<td>Stadia surveys in tps. 36 and 37-22-2; tps. 34, 35, 36, and 37-23-2; tps. 33, 34, 35, 36, and 38-24-2; tps. 35, 34, 35, 36, and 38-25-2; tps. 33, 34, 35, 36, 37, 38, and 40-26-2; tps. 34, 35, 36, 37, 38, 39, and 40-27-2; tps. 34, 35, 36, 37, 38, 39, and 40-28-2; tps. 34, 35, 36, and 37-29-2; and tps. 35, 36, 37, 38, and 47-1-3.</td>
</tr>
<tr>
<td>Wallace, J. N.</td>
<td>Calgary, Alta.</td>
<td>Lines of levels along Hudson Bay railway from Mile 100 to Mile 241; along Canadian Northern railway from Rosebud to Calgary; along Edmonton Dunvegan and British Columbia railway from Edmonton to Sawridge; along Alberta and Great Waterways railway from Carbondale Junction to 15th base line; a line from Dunvegan to Grande Prairie and north-westerly through Pouce Coupé to 21st base line; a line from Big River northwesterly to Ile à la Crosse, and a line along 19th base across ranges 5 to 9 west of the Sixth meridian.</td>
</tr>
</tbody>
</table>
Appendix No. 2.

Schedule showing for each surveyor employed the number of miles surveyed of section lines, township outlines, traverses of lakes and rivers, and resurvey; also the cost of the same. Surveyors whose work cannot be reckoned in miles are omitted from the statement.

<table>
<thead>
<tr>
<th>Name</th>
<th>Miles of section</th>
<th>Miles of outline</th>
<th>Miles of traverse</th>
<th>Miles of resurvey</th>
<th>Total mileage</th>
<th>Total cost</th>
<th>Cost per mile</th>
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<td>Akins, J. R.</td>
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<td>216</td>
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<td><strong>Aylsworth, C. F.</strong></td>
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<tr>
<td>Baker, J. C.</td>
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<td>70</td>
<td></td>
<td>116</td>
<td>5,134</td>
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<td>Bennett, G. A.</td>
<td>810</td>
<td>8</td>
<td>818</td>
<td></td>
<td>1,148</td>
<td>7.31</td>
<td>6.73</td>
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<td>Blanchet, G. A.</td>
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<td>137</td>
<td></td>
<td>157</td>
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<tr>
<td>Boulton, W. J.</td>
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<td>Bowman, E. P.</td>
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<td>Bremot, L.</td>
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<td>Buchanan, J. A.</td>
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<td>127</td>
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<td>Calder, J. A.</td>
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<td>Christie, W.</td>
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<td>Deans, W. J.</td>
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<td>Fletcher, J. A.</td>
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<td>LeBlanc, P. M. H.</td>
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<td>Lighthall, A.</td>
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<tr>
<td>McKnight, R. H.</td>
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<td>Seibert, F. V.</td>
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</tbody>
</table>

Total cost includes depreciation of outfit.
**Ceased work in July owing to illness.
**Took charge of Mr. Aylsworth's party.
Appendix No. 3.

 DETAILS OF OFFICE WORK.

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<th>Description</th>
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<td>Sketches, maps, and tracings</td>
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<td>Descriptions of irregular parcels of land</td>
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<td>Returns of survey examined:</td>
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<td>Stadia plots</td>
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<td>Townships investigated for water areas</td>
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<tr>
<td>Road and railway plans</td>
<td>651</td>
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<tr>
<td>Yukon lots and miscellaneous surveys</td>
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<td>Mineral claims</td>
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<td>Timber berths</td>
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<td>Correction and other miscellaneous surveys</td>
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<tr>
<td>Preliminary township plans</td>
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<tr>
<td>Township and miscellaneous plans compiled</td>
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<td>&quot;                       &quot;                       &quot; issued</td>
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<td>Revised maps</td>
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<td>Photographic work</td>
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PART V

DOMINION PARKS
REPORT OF THE COMMISSIONER OF DOMINION PARKS.

The reports of the field officers of the Dominion Parks Service appended hereto recite the particulars of the progress made during the fiscal year ending March 31, 1917. All that it is necessary for me to say in that connection is that despite war conditions, resulting necessarily in a reduction of financial appropriations and a shrinkage of tourist traffic, the year has been one of results exceeding expectations.

As the end of the third year of war approaches and the results of war from the economic and from the human viewpoint become more and more apparent, it seems desirable to take stock of the potentialities of our national park system, to see what place national parks play in the national life and how they can be utilized to the greatest possible advantage in connection with conditions arising out of the war.

The two most important conditions arising out of the war are the gigantic expenditure in the form of money, and the equally gigantic expenditure in the form of human life, vitality and efficiency, in other words man-power.

Both in connection with the development of financial capital and in connection with the development and conservation of national man-power, national parks possess huge and distinct potentialities.

In previous reports attention has been called to the large sums of money spent annually by tourists and to the attractions that Canada’s incomparable scenic areas offer to tourist traffic. Canada’s mountain wonders, her hunting, her fishing, her recreational areas generally, constitute a national resource, the possibilities of which, from the commercial standpoint in connection with tourist traffic, are almost incalculable. The national parks include many of the most unique and outstanding natural attractions of the Dominion. They are the focal points which stand out in the tourist world.

EXCEPTIONAL OPPORTUNITIES.

In times when the national income must be increased by every possible means, tourist traffic appears to offer exceptional opportunities for results with a minimum of expenditure. In this connection it is interesting to note that tourist traffic is more and more being given its proper place as a great potential source of wealth and one worthy of the attention of modern governments. The war made France, Switzerland and Italy realize fully for the first time the amount of money which had been brought into their respective countries by foreign visitors. Recent estimates show that prior to the outbreak of hostilities some 300,000 Russians were in the habit of rustieating in Germany and Austria where they left each year something over $200,000,000. There were 113 seaside resorts along the Baltic and the North sea in 1913, and in that year they entertained 800,000 visitors who left behind nearly $100,000,000. The annual expenditure of Americans in France was conservatively placed at from $200,000,000 to $250,000,000. The Rhine, the show river of Europe, brought in $100,000,000; the cities of Berlin, Düsseldorf, Dresden and Münich collected many millions more. Berlin alone, it is estimated, realized $50,000,000 and the revenue of Vienna was probably greater. The closing of the frontiers put an end to this exchange of money and financiers suddenly realized what an important source of revenue had been lost. France, particularly, it is said, has awakened to the importance of tourist traffic. It is recognized that the $600,000,000 formerly paid by foreign tourists for the right of
trespassing on French soil would constitute a yearly indemnity which would go far
towards meeting the enormous liabilities now being incurred. Prominent financiers
began some time ago to recommend that even before the cessation of hostilities steps
should be taken and an organized effort made to secure a large share of tourist traffic
after the war and to provide for its accommodation. In her battlefields France
realizes she has a wonderful tourist attraction that will draw people from all parts of
the globe. It is said that 120,000 passages have already been booked for Europe by
the first available boats to leave after the war. A recent newspaper article reports
that the French Government considers the matter of such importance that it has
established a new cabinet portfolio known as the National Office of Touring which is
working in connection with railway and steamship companies, hotel syndicates and
tourist agencies and is rapidly making arrangements to handle the immense traffic
expected. Plans are already being made, it is said, to lodge, feed and convey tourists
in the devastated districts; hotels are being planned, an automobile service arranged
and a central information bureau is to be established in Paris.

National Tourist Bureau.

The establishment of a national bureau for tourist travel is an example, as I
have pointed out before, which might well be followed in Canada. While this country
cannot compete with the attractions of Europe on their own ground, it has yet
special qualities of its own which even they cannot rival. The immense sums now
being added to our national indebtedness make it doubly desirable that this potential
source of revenue should be developd to the full. Figures compiled by the Canadian
Pacific Railway Company's officials show that 10 per cent of the money formerly spent
by tourists in Europe would amount to $500,000,000, a sum equal to the value of the
Canadian wheat crop in 1916. If this amount could be diverted to Canada each year,
think what it would add to our national prosperity. In the lists of the season's
visitors kept by the various hotels at Banff over forty-five different nationalities are
represented, which shows how wide is the field from which the present traffic is drawn
and indicates the possibilities which would follow a comprehensive plan of publicity.

The Secretary of the Interior at Washington estimates that in 1915, over
$100,000,000 of the money which formerly went to Europe was diverted to the United
States National parks. Their total number of visitors was about 275,000. The
number of visitors to the Canadian parks during the same year was 121,533 or about
43 per cent of that which went to the United States parks. On the same basis of
expenditure the travel to the Canadian parks would have been worth somewhere in
the neighbourhood of $43,000,000. While the amount of money spent in the Canadian
parks or brought into Canada through the parks has never yet been closely estimated
it is evident that it reaches each year a very large sum,—that it constitutes a harvest
which warrants considerable effort and expenditure to reap. There is probably no
field of enterprise in which a small investment brings such a large return. Denver,
Col., recently spent $75,000 in advertising its attractions and expects, it is said, to
get $50,000,000 in return, largely through motor travel.

THE AUTOMOBILE.

Within the past few years a new factor has developed which promises to have a
very important relation to the question of tourist traffic and that is the automobile.
The increasing use of the motor is one of the most striking developments of the last
decade. There are reported to be at the present time over 4,000,000 cars in use in
the United States. The output for 1916 was approximately 1,500,000 cars or almost
double the production of the previous year. The 1917 output is placed at from
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2,000,000 to 2,500,000 cars. The Canadian production shows a similar increase. In 1915 the different Canadian plants turned out approximately 82,000 cars; in 1916, 110,000, worth approximately $50,000,000. There are said to be over 75,000 cars in the three prairie provinces alone.

These figures indicate that automobile traffic must be taken into account more and more for the future. Thousands of people now spend their vacations in their cars and they are seeking out every scenic district accessible by good roads. The national parks of both the United States and Canada have had to throw open their gates to this form of traffic. For many years the United States parks were closed to automobiles but as a result of very strong representations from motorists they were all finally thrown open a year or so ago and the resulting increase in travel has been surprising. In 1915 there were 12,563 cars registered at the different parks, in 1916, nearly 20,000 carrying about 80,000 passengers. Mr. Stephen T. Mather, formerly assistant to the Secretary of the Interior now Director of National Parks, says in his recent report:

"The number of tourists entering the parks in private cars is astonishing when one takes into consideration the fact that they have been open to motor traffic only a few years and that one of the larger parks has only been open a season and a half. This tremendous increase in automobile travel leads to one conclusion only and that is that in the early future, travel in private machines will overtake the increasing railroad travel and constitute the greater part of all park travel. This makes it incumbent upon the Federal Government to prepare for the great influx of automobiles by constructing new roads and improving existing highways wherever improvement is necessary."

The Canadian parks have had something of the same experience. For many years Rocky Mountains park was closed to motor vehicles of all kinds. With the building of the first section of the Calgary-Vancouver motor road, restrictions were removed so as to allow automobiles to proceed from Calgary to Banff. A little more than a year ago all roads in the park suitable for motor traffic were thrown open. The result has been that the number of people coming into the park by motor has more than doubled in the past year.

CANADA'S OPPORTUNITY.

Canada is in a peculiarly favourable position to-day to attract and secure tourist traffic. In the first place she possesses in abundance that which the tourist wants. For the sportsman there is big game from one end of the Dominion to the other; for the fisherman, fishing unequalled in quantity and variety; for the traveller who desires to see nature in its most beautiful and unique forms, attractions unequalled elsewhere.

Owing to the war having stopped the huge volume of travel from the United States to Europe, Canada now has exceptional opportunities for marketing her recreational resources. Though the American, the most constant traveller in the world, cannot go to Europe, he at the same time, through the prosperity the war has brought him, is probably better able to travel than ever before. He must do his travelling practically in his own country or in Canada. And the potential volume of traffic is ample to tax the existing accommodation of both countries.

To summarize, Canada has what the tourist wants. Canada needs as never before, the volume of gold that accompanies tourist traffic. Conditions for securing tourist traffic appear to be exceptionally favourable. It, therefore, seems that by actively taking up the question, Canada can make her recreational resources, both within and without national parks, contribute substantially to the financial needs the war has thrust upon her.

THE HUMAN SIDE.

Quite apart from tourist traffic and its commercial possibilities, there is another feature of national parks, which has a distinct bearing upon the commercial problem
arising out of the war. It relates to the question of Canada's losses in man power, through the death of thousands of its most virile men in France; to the thousands more who are returning maimed and seriously incapacitated; and in addition to the serious results of the war in the way of impaired nerves and health in regard to those at home. All these conditions directly and seriously affect the efficiency of Canada's man-power. The financial and commercial problems arising out of the war have to be solved by Canada's man-power and the efficiency of her man-power is therefore a matter of the utmost national concern. The only way Canada can meet her financial responsibilities is by increasing her production of wealth. Her natural resources, rich as they may be, can be transformed into money only by the exertions of her man-power. Output is now the most important consideration for Canada and the output depends entirely on man-power. It is felt that national parks and especially what national parks stand for, can contribute materially to the development and efficiency of the Dominion's man-power.

The fundamental purpose behind the establishment and maintenance of national parks is the development and maintenance of rugged, forceful, intelligent manhood. The most common and the most successful treatment a physician prescribes for a patient is an order to go to the mountains or the seaside or the country. And the logic underlying this prescription is the same logic which brought about the creation of national parks. The curative results which follow such an outing are recognized to be due to the recreation in the out-of-doors involved in the trip. By instinct all people have the desire for and recognize the necessity of recreation. By observation and experience physicians and students recognize that recreation is nature's means for restoring health and the mental and physical alertness and efficiency that go with it. In addition man is by nature an out-of-doors animal and the oftener he can get away from the stone and mortar that civilization has built around him and from the monotony and nerve-wrecking conditions that industry has harnessed him to—the oftener he can get away from these things and get close to nature, the better he becomes physically and mentally and spiritually. A wild strawberry plant can be transplanted into a garden, it will grow, but what of its fruit? In a few years it will lose that peculiar tang which was its soul. Transplant it back to the wilderness and it will regain that tang, will regain its soul. And so it is with man. Separation from nature robs man of much that makes him man. It is true that conditions of modern life make it impossible that he should spend all his life close to nature. Therefore, the next best thing is that he should have opportunities from time to time of getting close to nature of the wilderness and there restoring his stock of vitality and efficiency. National parks have been set aside to ensure the people for all time of areas where they can have access to nature of the wilderness. While for geographical reasons all the people of Canada cannot visit the national parks, there are still vast areas throughout the Dominion as yet untouched by private ownership, where nature of the wilderness awaits the people. As things are now, no one need go far away from home to reach nature. And one of the greatest necessities of the times is that Canada's people should now start making recreation in the great out-of-doors a habit. The occasional visit will be beneficial but it is not enough. It is the habit that must be developed.

A LESSON FROM BRITAIN.

In this connection it is interesting to note the experience of Great Britain in regard to the munitions industry. With the outbreak of the war Britain found her industries deprived of thousands of her trained men and yet facing the necessity of an output of munitions undreamed of before. But what she did is well known. How she did it is less well known. At the outset the idea was to make everyone work long hours and Sundays with scarcely any time for rest or recreation. But experience
gradually showed that this policy was not bringing the results expected. The maximum
results as to sustained output were attained only after it was recognized that output
depended upon the health and vitality of the workers and that excessive hours and
strain without rest or recreation seriously affected the workers and as a consequence
the output.

In 1915 the Imperial Government appointed a committee “to consider and advise
on questions of industrial fatigue, hours of labour and other matters affecting
the personal health and physical efficiency of workers in munition factories and work-
shops.” This committee made an exhaustive investigation and published the results
in a series of reports. The reports covered many recommendations in regard to
Sunday work, overtime, and many other matters, all calculated to maintain output
at the highest possible point. They pointed out that fatigue and staleness resulted
not only in diminished output but in an inferior quality of work; and insisted that in
her industrial life Britain must be guided by physiological science and by a proper
recognition of the value of rest and recreation.

Canada is in much the same position as Britain was when the war began. She
must speed up and maintain at a high standard an output—not of munitions but of
natural wealth. And this cannot be done unless recreation is given the attention
natural law demands it should be given.

THE PROTECTION OF WILD LIFE.

The system adopted with regard to the protection of wild life in the parks con-
tinues to show gratifying results. Wild animals and birds are increasing in all the
parks and losing practically all fear of man. In Rocky Mountains park deer are
especially numerous and so tame that they come into the townsites and may be seen
in groups on the streets or nosing around back doors looking for tidbits in the shape of
food. Mountain sheep and goats, which were formerly met with only in the remote
districts and seldom more than five or six together, are now seen in all parts of the
park even on the motor road a mile or two from Banff itself and frequently in flocks
numbering 50, 75 or 100. In Jasper and Waterton Lakes parks, bear, moose, elk,
beaver, grouse, ptarmigan, wild ducks and geese are also increasing noticeably.
Apparently the wild life of the Rockies has found out for itself that park boundaries
constitute a sanctuary. This was especially evident last autumn in Jasper park when
great numbers of wild ducks and geese flew into the park at the opening of the hunting
season realizing that within its borders they were safe. In Waterton Lakes park, in
the new area recently added, the warden reports that twice as many elk and deer were
seen as at any time in the past ten years, and during migration the lakes were covered
with wild fowl which remained for a week or two before completing their journey.

RECREATIONAL VALUE OF WILD LIFE.

Viewed simply from the recreational point of view there is no doubt that the wild
life constitutes one of the most important features of the parks. It is of no less
consequence than the scenery itself, in fact it may almost be said to be a part of the
scenery. Travellers familiar with Switzerland were wont to refer to the loneliness of
the Rockies but the sight of half a hundred beautiful bighorn sheep crossing a green
upland or a herd of white goat high up on the mountain slope—all of which may be
seen by even a casual visitor to the Canadian parks—provides something of the same
interest which human habitation supplies in the Alps and gives many people even
greater pleasure. For to most people the greatest charm of the Canadian parks is that
they provide the opportunity of getting back, in a greater or less degree, to nature,
and the nearer it is to primitive nature the more pleasure they feel. This is based on
what is now recognized to be one of the fundamental laws of recreation—that the best
recreation is that which brings into play the side of our nature which is not exercised
by our ordinary life. To go out into the quiet of woods or mountains produces a feeling of perfect rest and liberation—a true re-creation. In such surroundings many long dormant faculties are brought into play. Almost every sensation travels along old grooves worn in the minds of long past generations. A person finds pleasure in the absolute stillness, in primitive and natural sounds such as the wind in the trees, the falling of water, the wide expanse of landscape or sky, and he renews again his ancient relationship with wild animals, a relationship as old as man himself.

WILD PLACES DISAPPEARING.

National parks, it is true, have no monopoly of this form of recreation. In this country there still remain unspoiled, virginal places where nature is practically undisturbed but they are growing fewer each year. Henry Fairfield Osborne, President of the New York Zoological Society, says that travels in Europe as well as over a large part of North America have convinced him that nowhere is nature being destroyed so rapidly as on this continent. "Except within our conservation areas," he says, "an earthly paradise is being turned into an earthly hades and it is not savages who are doing this but men and women who boast of their civilization."

Part of this destruction is of course inevitable. As settlement progresses plant and animal life are bound to disappear. At our present rate of development, even in Canada, the time is not far distant when it will be only in the national parks that the ordinary traveller will be able to find a perfect picture of primitive conditions as they were before the advent of man.

In the Canadian parks it is the aim to protect and preserve the original balance of nature. No attempt is made at underbrushing or clearing except where necessary in the vicinity of townsites or for fire protection purposes and the required roads and trails are built with as little disturbance as possible. The wild life therefore, both animals and birds, find their natural food supply undisturbed and free from all fear of man, they live and breed under the most favourable conditions. It seems probable that they will increase in sufficient numbers to re-stock eventually the whole Rocky mountain area from which they were fast disappearing.

For the student and nature lover, the parks are bound to become more and more the great outdoor school for the study of natural history. They contain more big game species than any other area in the country, and nowhere can their life and habits be studied with such convenience, and a flora which for beauty and variety is almost without an equal in the world.

WILDLIFE BOARD.

During the year an important step was taken with regard to game protection matters which come under Federal control throughout the Dominion. This was the appointment of an Interdepartmental Advisory Wild Life Board. The board consists of the following members:—Chairman, James White, Assistant to the Chairman and Deputy Head of the Commission of Conservation; Secretary, Dr. C. Gordon Hewitt, Dominion Entomologist and Consulting Zoologist; D. C. Scott, Deputy Superintendent General of Indian Affairs; Dr. R. M. Anderson, of the Geological Survey; and the Commissioner of Dominion Parks. The board will act in an advisory capacity in all matters concerning the preservation of wild life.

The creation of a special central authority will, it is thought, be a great assistance in the protection of wild life throughout the Dominion. While game matters in the provinces come under their respective governments, there are many questions in which the best results can be secured if the Federal and Provincial authorities act together and the board hopes to be able to secure the co-operation of the different provinces in these matters and also to place at their disposal any special information which it is able to secure through the technical officers attached to the various federal branches.
MIGRATORY BIRD TREATY.

One of the first matters to come before the board was the framing of an act to enforce the provisions of the Migratory Bird Treaty entered into between Canada and the United States. This treaty was formally signed at Washington by Sir Cecil Spring Rice and Mr. Robert Lansing in August, 1916, and ratified by the United States Government in December last. All that now remains to be done is the passing of a bill by the Canadian Parliament sanctioning its provisions and providing for their enforcement. A great deal of the work in connection with this treaty, as well as in the general matter of bird protection throughout Canada, has been done by Dr. Gordon Hewitt, Dominion Entomologist, and it was largely owing to his efforts that the treaty was finally brought to a successful conclusion in so far as Canada is concerned, but in view of the fact that the parks branch is administering other wild-life matters, the carrying out of measures necessary for the enforcement of the treaty has been placed in its hands.

The intention of the convention is to provide much-needed protection for game and insectivorous birds which migrate from one country to the other. It is a matter of common knowledge that for many years past the number of migratory birds has been noticeably decreasing. This has been partly due to unavoidable causes. In this country as settlement has progressed, their breeding places have been gradually encroached upon; the clearing of the land has involved the destruction of the nesting sites of insectivorous birds, the draining of the marshes and the breaking up of the prairies have driven wild fowl from their former breeding and feeding places. Other causes have been the increased use of modern firearms and the ease with which automobiles and power boats enable hunters to cover very large areas in search of good shooting. In the United States, market shooting, spring shooting and the demand for birds for millinery purposes have also caused immense inroads.

Since a great number of both game and insectivorous birds breed in Canada but return to the Southern United States for the winter season, the only way of affording them adequate protection is the introduction of similar legislation throughout both countries protecting them all along the line of migration. Arrangements are being made to have the various state laws amended to agree with the spirit of the convention and negotiations have also been entered upon with the different provinces in Canada with a similar end in view.

It is admitted that immediate action to preserve our insectivorous bird life is absolutely necessary. A recent estimate places the annual damage from injurious insects in Canada to field crops alone at $125,000,000. This is an enormous sum and it does not take into account the damage done to orchards and forests. Birds are the greatest enemies of insects and in a state of nature they exist in sufficient numbers to keep the latter in check. Especially at this time when the need for conserving our food supply in every possible way is so clearly apparent, it would seem that immediate action should be taken and a determined effort made to restore the balance of nature and to remove this heavy tax upon our agricultural industry.

WILD LIFE OF THE FAR NORTH.

Another question of first importance to come before the board was the necessity of affording greater protection to the wild life of the far north. Until recently it was considered the remoteness of this area afforded sufficient protection, but in recent years, an alarming decrease in many forms of wild life has taken place. The musk-ox in particular, is perilously near extermination and will disappear unless afforded further protection. Formerly there were herds of musk-ox as far south as Slave lake, but recent Hudson Bay Company reports show that throughout the entire Mackenzie district they have almost disappeared.
The barren-land caribou is also in need of additional protection. Although very large herds are yet to be found east of the Mackenzie, to the west along the northern coast from the mouth of the river to Point Barrow in Alaska, they have almost disappeared. In the absence of the caribou the natives have had to move away in search of food, and house ruins all along the coast bear melancholy witness to their departure.

As I have pointed out on previous occasions the barren-land caribou offer a possible source of future meat supply. Their flesh is as palatable and nutritious as venison and their numbers are still estimated in the millions. Under proper protection and with an adequate system of transportation, there seems no reason why they could not be utilized for food in the not distant future. Reindeer are now being shipped from Alaska to the Seattle markets, where they bring from 20 to 35 cents per pound. The Governor of Alaska, in his report for 1916 to the Secretary of the Interior, says that under proper management Alaska may in due time become a source of large meat supply for the United States. The barren-land caribou would furnish an equally valuable source of food for this country and it would seem to be economic folly of the worst kind to permit a food resource of this value to be wantonly and wastefully exterminated. The Wild Life Board has drafted amendments to the existing Northwest Game Act looking towards a more adequate system of protection for barren-land caribou and also for the Arctic white fox and other fur bearing animals in need of protection which will come before Parliament during the present session.

ELK FROM YELLOWSTONE NATIONAL PARK.

During the year a fine herd of 63 elk was procured through the courtesy of the United States authorities from the Yellowstone National park. The intention is to retain these animals in captivity until they become used to their new conditions and then to liberate them in the Rocky Mountains park in a district where, by closing certain draws in the mountains, they will be completely isolated and soon revert to an absolutely wild state.

WILD ANTELOPE RESERVE.

I referred last year to the gratification which was felt at the capture of a herd of nearly 50 wild antelope which were secured by building a fence around the area in which they were discovered feeding near Nemiskam, Alta. So far the experiment appears to be entirely successful. The antelope are thriving and show an increase of over twenty for the year, making a total of seventy now in the reserve. This seems to bear out the belief that the failure of previous experiments was largely due to the shock of capture which these little animals are apparently too delicate to withstand.

ANALYSIS OF HOT SULPHUR WATER, BANFF.

Through the courtesy of the Department of Mines an examination of the hot sulphur waters at Banff, with special regard to their radio-active properties, was made during the winter by Mr. R. T. Elworthy. The results of the analysis showed that the Banff springs contain larger quantities of radium emanation, both in the waters and gases given off, than any others yet investigated in Canada. The radio-activity of the gases evolved from the Banff waters is considerably higher than that of the Mammoth hot springs in Yellowstone park, while the average value of the radio-activity of the waters is very similar. The Banff springs also contain a small amount of radium element, in solution, which renders them permanently active.

The investigations also showed that in temperature and constituents the Banff waters very closely resemble the Kings Well springs at Bath, England, long famous for their therapeutic qualities. Both have calcium salts as the chief substance present
and while the Bath waters contain slightly more iron and sodium, the Banff springs show a somewhat higher percentage of calcium and magnesium. The gases evolved from both are almost identical, showing in practically equal amount, the presence of argon and helium, the rare gases of the atmosphere.

MOUNT EDITH CAVELL.

During the year one of the most striking mountains in Jasper park was set aside as a memorial for Miss Edith Cavell, the English nurse who was executed by the Germans. This mountain, which was formerly known locally as Geikie, although the true Geikie lies to the northwest near the Divide, is of outstanding beauty. It is over 11,000 feet in height, shaped like a great pyramid or as some one has said “like a gigantic, upturned human heart.” Its summit is crowned with eternal snows of a dazzling purity. A wonderful tongue glacier, with two extended arms, hangs on the side, and its lower slopes are clothed in a “rose red robe” of heather and millions of bright-hued flowers. The mountain is clearly visible from Jasper and for about 15 miles along the railway to the west and will become, I believe, one of the chief features of interest in the park.

Its solemn grandeur, the majesty of its pure and lonely beauty make it a memorial probably without parallel in the world. They suggest the exaltation of those feelings which rise above the rivalries and hatreds of nations and which all nations must admire. It forms an undying tribute to a sacrifice in the service of humanity. It has been suggested that Swinburne’s noble lines should be carved on one of its rocky faces:

“Unto each man his handiwork, unto each his crown,
The just Fate gives;
Whoso takes the world’s life on him and his own lays down,
He, dying so, lives.”

J. B. HARKIN.
DEPARTMENT OF THE INTERIOR

8 GEORGE V, A. 1918

APPENDIX No. 1.

REPORT OF THE CHIEF SUPERINTENDENT OF DOMINION PARKS.

While the great necessity of economy, owing to the war, has been brought home to the people of this continent, particularly in Canada, the amount of travel by tourists in all the parks during the past year was most gratifying. One feature, standing out most prominently, being the unusually long sojourns made by the visiting tourists.

ROCKY MOUNTAINS PARK.

During this year a greater part of the work in the park has been carried out by the alien prisoners, for whom two camps have been maintained. During the summer months they were installed at Castle, and for the winter, quarters were again prepared for them at the Cave and Basin. They have been employed chiefly on road work, clearing dead timber in the Buffalo park and other places and making fire guards and other work.

The motor road, which in the future, will undoubtedly be one of the outstanding features of the park, has been completed to a point west of Castle, though the surfacing with gravel was left for completion this year.

Yoho Park.

In this park only absolutely necessary work has been carried on, such as the maintenance of roads and trails. The continual wet weather at the beginning of the season delayed operations on repair work necessary to put the trails and roads into condition for tourist traffic.

Two new bridges were built during the year, one over the Kicking Horse river and the new road leading to it and the other over Boulder creek. Both of these bridges were built by alien labour but are not fully completed as yet.

One very necessary piece of work was the completion of the telephone line from the superintendent's office at Field to the fire warden's cabin at Takakkaw falls, a distance of about 11.5 miles. This line will be of the greatest assistance in the prevention and handling of forest fires, for in this particular section of the park a fire travels very rapidly and unless handled by a sufficiently strong guard, at the commencement, would be extremely hard to control.

Glacier Park.

The chief attraction in this park is the Nakimu caves. A new entrance to the lower caves has been constructed by driving a tunnel through the solid rock, and a trail now connects this entrance with the old path, thus making the caves more accessible.

The construction of the Connaught tunnel by the Canadian Pacific railway, through Mount Macdonald in the Selkirk, has been completed with the exception of a few minor details and the old line has been abandoned. The new Glacier station, which is very attractively built of peeled logs, is about a mile and a half from the former one of that name. A carriage road has been built to enable visitors who wish to visit the glacier, caves and other attractions of the park, to reach Glacier chalet.
REVELSTOE PARK.

Revelstoke park, recently set aside, will open up a very large field of recreation to the tourist. The motor road now under construction will bring it within easy reach of the town of Revelstoke.

Owing to the absence of Mr. Maunder, who enlisted for overseas service, the work of superintending this park was placed in the charge of Mr. E. N. Russell, Superintendent of Yoho and Glacier parks.

The continuation of construction work on the auto road to the summit of mountain Revelstoke was all that was undertaken this year. Work was begun in June and continued until August, the road being completed to the ravine, which is to be crossed by a wooden trestle bridge.

BUFFALO PARK.

At the beginning of 1916, the charge of this park was handed over to the new superintendent, Mr. A. G. Smith, of Edmonton.

Following the policy adopted last year the chief work of the park has been the carrying on of the farming operations. These have increased considerably the last two years, oats having been grown so extensively that it was possible to send supplies to the other parks as well as to the Forestry and other branches of the department. Altogether 435 acres were put into crop, the produce of 400 of which was threshed and in all 19,530 bushels of oats have been shipped from Buffalo park to various points.

Considerable quantities of excellent hay are also grown in this park; from one spot alone 225 tons were cut and put up for the use of the animals, in fact plowing operations in different parts have been carried on during the whole of the season and in this manner ample feed for the buffalo has been obtained for the whole of the year.

Work on the fences of the park is more or less continuous, as repairing and replacing posts is going on most of the year. About 1 1/2 miles of the main fence on the northwest corner of the park were moved to permit the construction of a road for the convenience of the farmers living on the west side of the park and to allow the Rubinox gate to be closed permanently. A new 7-foot fence has been erected around the horse pasture and is a great improvement.

The fireguards have been ploughed both within and without the fence as usual.

The land along the shore of Mott lake was surveyed with a view to utilizing this area as a summer resort. About sixty-five choice lots were laid out and will shortly be open to the public for application. This lake provides excellent boating and bathing, and its proximity to the great buffalo herd should prove an added attraction for summer visitors.

The buffalo herd at the end of January consisted of 2,402 head, of which 476 are bulls, 480 cows and 1,446 young stock. With the exception of a few old crippled animals which are gradually being weeded out, all are in splendid condition. The question of subdividing the herd and the building of a large corral and dipping vat should be seriously considered. In June, 1916, a buffalo calf was sold to the "Shriners" and it was taken with them on their trip to Buffalo, N.Y., and presented to that city where it created a great deal of interest. In August a young bull was shipped to Vancouver, B.C., to be loaned to the Stanley park authorities.

The elk, moose, and mule deer are all in a healthy condition and have increased during the year.

A portion of the park will be fenced off for the cattalo experiment which is being carried on under the direction of Mr. J. H. Grisdale, Director of Dominion Experimental Farms. The cattalo have been shipped from Scott, Saskatchewan, and it is hoped a valuable type of animal will result. They are now held within the town-site enclosure.
ELK ISLAND PARK.

The work in this park, during the year, consisted chiefly of repairing fences. Owing to the general curtailment of expenses, no improvements were begun or carried out. Most of the fences around the park have been repaired and the fireguard reploughed.

In July haying operations were begun, but owing to the wet weather only a moderate amount of hay could be put up. It has been necessary to purchase straw and hay to help with the winter feeding of the animals as the great depth of snow, long winter and late spring prevented the bison and other animals ranging for themselves.

All the animals, buffalo, moose, elk and deer, are increasing and I strongly advise that the boundaries of this park be extended as the area is becoming too limited. It would be an excellent plan to take in a portion of the Cooking Lake Forest reserve and so give them a larger space on which to roam and feed.

A part of the lake shore, “Sandy Beach,” would make an excellent camping resort and if later on more facilities could be given to visitors by completing the road, I am sure it would benefit the park and make it more attractive. The road, when completed, would make an excellent fireguard and it is on the fireguards that we have to depend in this district for the saving of our feed for animals in the enclosure.

WATERTON LAKES PARK.

The work in this park has been chiefly repairs to roads and trails, which have been put in a good state of repair for traffic. About 1.5 miles of good graded trail have been added to the new road leading to the Yarrow cabin.

A blacksmith’s shop has been built of peeled logs and a granary fitted up to hold the winter supply of oats.

A new cabin has been built at the Waterton bridge for the accommodation of the warden. The work was undertaken chiefly by the wardens, when not otherwise employed.

Twenty acres were ploughed and fenced on three sides, the lake forming the other boundary. This was seeded to oats, but owing to stock getting inside the fence and delay in getting in the crop, the farming operations were not a very great success.

Another fence was erected northeast of the lower townsite, but was not fully completed. This pasture is intended to hold the horses of visitors to the park during their sojourn at the upper townsite on the shores of Waterton lake. A nominal fee is to be charged, which will in time pay for the cost of the work.

Roads have been projected and will at a later date open up to the tourist some of the grandest scenery in the park, at present difficult of access. The colour scheme of this scenery is something not found in any of our other parks.

I would again recommend that the small corner of British Columbia north of the International Boundary, inaccessible except from Alberta, be incorporated in Waterton Lakes park. There is a road through the park constructed some years ago and later increased in length to reach a prospected oil field on the British Columbia side of the provincial boundary. Wagons and light rigs can travel this road, and with some outlay it can be made into a very good motor road by the construction of bridges and drainage on some soft spots.

Since Waterton bridge has been built it has been the means of permitting motorists to reach the townsite from the cities and towns of southern Alberta, and it is hoped that before long a number of permanent residences will be erected on the shores of the beautiful Waterton lake.

The forest ranger, John George Brown, better known in the neighbourhood as “Kootenai Brown,” who was in charge of this park for several years, died in August,
1916, at an advanced age, and was buried at a site selected by himself overlooking the lower lake. He had lived in the locality for forty years and was the best known pioneer in the district. We also lost another of our wardens, Mr. George Knight, who went on overseas service, obtaining a commission in the 13th C.M.R., Pincher Creek, and made the supreme sacrifice in September, 1916.

Jasper Park.

Colonel Rogers being still absent on military service, the charge of this park was given over at the beginning of the fiscal year to Mr. A. Driscoll, of Edmonton, who is engineer and acting superintendent during the absence of the regular superintendent.

The chief work and improvements consist of the following:

A telephone line has been completed from Bedson to Pocahontas, a line has been built from Jasper to the Athabaska falls, and another from Medicine lake to Jack lake. These telephone lines are for the convenience of the wardens stationed in outlying districts, and will be extremely useful in case of fire or accident.

The usual maintenance work of repairs to roads and trails has been carried out and the townsite cleared of boulders.

A street lighting system has been installed, which is a boon to the residents.

Considerable work was done on opening up the road from a point on the Maligne road southwest of Jasper to the mouth of the Miette river. A bridge was constructed across this stream and a road practically completed for a distance of approximately three miles. A small bridge was also constructed across the mountain torrent and the grade practically finished to the bridge across the dry ravine. From there on a rough wagon road was constructed to facilitate the hauling of timber for Boulder creek bridge, which is still in course of construction. Eventually the road will terminate at the base of Mount Edith Cavell, and tourists will be able to utilize it for the purpose of exploring the hidden beauties in the neighbourhood of this mountain and of the Whirpool valley.

At Brulé lake the Canadian Northern have built a spur to a coal mine known as the "Blue Diamond." This mine is producing some 700 to 800 tons of coal per day, which is being utilized by the Canadian Northern Railway Company. The coal is said to be of excellent steaming quality, and experiments are being conducted for the purpose of ascertaining whether it would be profitable to install a series of cooking ovens in the vicinity of the mine. The company have established a townsite and provided it with water service and other modern conveniences.

The Edmonton Portland Cement Company have located and are erecting an extensive rock-crushing plant at G.T.P. Mileage 1024, some four miles north of Jasper, with the object of mining the rock a short distance west and parallel to the track and shipping this to their plant at Marlboro, some 86 miles northeast of Jasper.

Several new buildings have been erected in Jasper park which add to the beauty of the town, and I should like to see in the near future the matter of a water and sewer system taken up, as at present the residents are dependent on a temporary water supply, which is an expense to the department, and owing to its temporary nature no revenue is derived.

The Grand Trunk Pacific Railway Company have made many improvements at the intake at Cabin Lake and also at the dam at the head gates at Cabin creek, and as this winter the mainpipe line did not freeze, they had no trouble in providing their superintendent's residence with a continuous supply of water, also their own water-tower station building, and roundhouse.

The "Tented City" was opened again this year during the summer months and was fairly well patronized considering the war conditions still prevailing.

P. C. Barnard Hervey.
APPENDIX No. 2.

REPORT OF THE SUPERINTENDENT OF ROCKY MOUNTAINS PARK.

Notwithstanding what might have been anticipated to be adverse conditions arising out of the continuance of the world-wide war, viz.: the disinclination of those whose friends have gone to the front for travel, the calls on the part of the various patriotic funds, the demand for special service that is incident to war time and other contingent drawbacks to travel for pure enjoyment, the season of 1916 in Rocky Mountains park may be written down as a highly successful one, with money moving more freely than for years.

It is true, of course, that it will probably be some years before a tourist total is reached rivalling in numbers that of the season of the big expositions on the Pacific coast, when travel arranged by the C. P. R. included scenic attractions in the Canadian Rocky mountains en route. But while the numbers were greater in 1915, the season of 1916 was a better one for Banff. The class of visitor who came in 1916 was prone to linger longer and to disseminate his patronage more widely among cottage owners, hotel keepers and merchants. For instance, in the town of Banff, cottages were well occupied in July and September and were at a premium in August, while hotels experienced similar conditions in the same months, as did also the merchants, livery-keepers and others catering to the wants of the holiday-making population. The bathing establishments had gratifying returns, the Cave and Basin setting a new record for a single day's business.

In development work also good results were shown notwithstanding the labour shortage and the great reductions in our appropriations. The internment camps at Banff and Castle were again made use of and undertook a lot of valuable outdoor work, which could not have been carried on under ordinary war conditions. These works are dealt with separately under their respective headings.

The available money did not admit of undertaking some necessary extensions of public utilities, but those already in existence were kept in good repair under trying conditions, such as intense frosts in the early part of the year, and later abnormal floods. The main road from the east was closed for a day or two following the great flood of the year, when roaring torrents appeared where watercourses did not exist before, washing out culverts and much road yardage, covering up other parts with heavy boulders and gravel. There was some discolouration of the Banff water supply from the same cause, and some days of anxiety for the officials in connection with the water-works on Forty-mile creek; there was also a slight interruption to the telephone system by reason of fallen poles; and one or two of the smaller bridges were threatened, but when the water began to recede the anxiety terminated and things were immediately brought back to normal.

As has been indicated, the various departments of work are dealt with separately, and do not call for extended mention here. I would, however, submit that the policy under which all but one or two of the roads in the park were opened to automobiles has been justified by results. This policy has been the means of at least trebling the numbers of automobiles coming into the park from the east, and there are those doing business wholly dependent on the tourist traffic, who say that this policy was the financial salvation of the town of Banff in the early and late parts of the season. The same policy has been instrumental in multiplying the number of camping parties at favourable points on the main roads, parties being able, without inconvenience, to carry all camping paraphernalia in their cars and to make their quarters wherever the fancy seized them.
AUTOMOBILES.

During the year we issued approximately the following permits:

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The system of registration is intended not so much as a producer of revenue as a means of keeping track of the owners of these vehicles while within our boundaries. No one, of course, would suggest that the comparatively insignificant sum collected from these owners was an adequate return to the department for the large outlay on the roads annually, an outlay which will probably increase in greater ratio to the increase in the number of cars.

During the year an arch was erected a short distance within the park boundary on the Calgary-Banff road, for convenience in the matter of registration of cars and owners, and collection of fees. A game warden's cabin was also built at that point, the occupant of which attends to the duties in connection with automobiles, besides covering a patrol area in the game protection service.

BANFF TOWNSITE.

No large new works were undertaken in the Banff townsite this year, but the roads and water and sewer services were kept in a good state of repair. The annual clean-up day in Banff, as in all the other townsites, was again a great success, and there have been further improvements in the direction of garden and lawn making. In this direction, the movement initiated by the school trustees in the provision of garden plots for the children was very successful, and sales of fresh fruit and flowers resulted in substantial sums going to the various patriotic funds in the district.

Efforts were continued in the direction of diminishing the noxious weed nuisance so far as the streets and boulevards were concerned.

The cleaning of the streets was adequately looked after, and local business men were asked to do some flushing after business hours on Saturday evenings during the summer season, with the object of having tidy streets and sidewalks over the Sundays.

The building trades were very quiet in the town during the year, no programme of new buildings being undertaken by the department. One or two substantial residences and one garage were erected, and permits were granted for a number of additions and other improvements to existing buildings.

NUISANCES.

During the summer months the special services of a sanitary inspector were obtained. By action and suggestion he was able to do good service in disposing of several nuisances of a minor character. It was necessary to tear down an old stable in contiguity to the first-class fire district, which was both unclean and a fire menace, and one or two outside closets were removed.

RECREATION GROUNDS.

Owing to the large number of young men who are away from the district, the football, cricket, and baseball patches at the Banff recreation grounds were in little demand during the year. The tennis courts, however, were in fairly constant use by ladies, and the swings and other attractions for children were in good demand during July and August.

During the year the Banff Gun Club secured the use of recently cleared land adjacent to the recreation grounds proper, to which access is had by a new bridge
over the lagoon and a short piece of road constructed this year. The ground is admirably adapted for trap shooting, and the club, which is well supported in point of membership, is being provided with a small pavilion for use as headquarters.

Angling in the park lakes and streams was reported as good, especially in the latter months of the season, although fears were expressed that some of the waters were being depleted. The matter is being inquired into, and if the depletion is found to be serious, an attempt will be made to remedy this condition.

About twenty guide-conducted parties registered out at Banff and a similar number at Lake Louise. These figures, however, do not cover the many private parties who were not accompanied by guides, and of whom we have no record.

Camping parties were more numerous than usual, owing largely, no doubt, to the ready access to charming new spots by automobile. The new permanent camping ground, set aside near the junction of the Spray and Bow rivers, was in use most of the season, and is declared to be an excellent location.

WINTER CARNIVAL.

The first annual winter carnival was held at Banff between the 5th and 17th of February, 1917, and as a preliminary undertaking to interest the general public in the winter attractions of our principal western summer resort, may be put down as having been an unqualified success.

The Winter Sports Club, which had a small balance from previous years, and a committee of citizens were responsible for the organization. In little more than a month's time the three western provinces were covered by forceful advertising which aroused keen interest. The programme presented was in every way thoroughly representative of winter sports with a few attractions not common anywhere but in Banff. The committee secured a large quantity of decorative lighting material and erected an ice palace and maze at the principal intersection in the town opposite the terminus of the long thrilling toboggan glide off the slopes of Tunnel mountain. The curling bonspiel was also fixed for the same period. The weather, unfortunately, was not all that could be desired for such an occasion, being somewhat soft in the earlier stages, but, on the other hand, from the point of view of the general tourist it was ideal for getting about in without discomfort from cold, and the thousand-odd tourists who came to Banff during the carnival expressed themselves as highly delighted and announced their intention of coming back in future years.

The sports included in the programme were: tobogganing, snow-shoeing, ski-ing, curling, skating, swimming in the hot baths, hockey, trap-shooting, pony ski-racing and indoor rifle shooting. Several dances were also held during the period.

The committee in charge of the work was drawn entirely from among the citizens, the parks local organization giving all assistance in its power. The guarantees necessary to float the venture and the considerable attendant expenses were also secured locally. These committees also have the matter in hand for next year when, with more time and the experience gained from this year, it is hoped an even greater success will be attained, so that the Banff winter carnival may become the premier winter event in the west.

GOLF COURSE.

The management of this course has been taken over by the department and will be part of the administration for next year. There is ample room, through good country, for the extension of this nine-hole course to the full medal size of eighteen holes. It is hoped the department will, if possible, undertake this important work during the season of 1917.
DOMINION PARKS

SESSIONAL PAPER No. 25

CAVE AND BASIN.

I much regret to report the death of Mr. D. D. Galletly, guide at the Cave, which took place in November, 1916. He was the oldest servant of the department in Rocky Mountains park and peculiarly fitted for this position, in which he came in contact with people from all parts of the world, and was in fact something of an institution in the locality. He has been very much missed. His position has been given to another Scotsman, Mr. D. Matheson, sr.

It was suggested last year that an arrangement should be made whereby a tea-room could be opened at the Cave and Basin during the summer. The crowds number many hundreds daily and it has been felt that something in the way of a refreshment room would add to the attractions and fill a long felt want.

As to last season, nothing need be said except that it was in every way excellent with a record set for the turnstile leading to the public pools.

HOT SPRINGS.

The opening of the Hot Springs road to automobiles justified itself in the increased business done at this establishment during the summer, which kept up steadily throughout the year, the winter months being notable for the number of rheumatic patients coming from the prairies.

ANALYSIS OF SULPHUR WATER.

In the month of December Mr. R. T. Elworthy, of the Department of Mines, was deputed to visit Banff and study the nature of the sulphur water, especially with regard to its radio-active properties. He spent several weeks in this vicinity dividing his time between the springs and a laboratory which was fitted up for him in the fire-hall building. His report has not yet been made public but it is understood that he was highly satisfied with his examination of the various waters and with the results obtained.

MORAINES LAKE CAMP.

From casual inquiry I am informed that the Misses Strick, Hodds, and Danks, who maintain a permanent camp at Moraine lake during the summer months, had a very good, though somewhat short, season last year. The place is one of the ideal camping spots in the mountains, and when the automobile road gets through to lake Louise this will be a favourite rendezvous for motoring parties. The road between lake Louise and Moraine lake is suitable for automobiles, but considerable work will have to be done to cope with the stones, etc., which come down annually with the freshets. Miss Dodds, who was in charge of the lake Agnes camp, reported that she also had a satisfactory season.

COPPER AT ELDON.

During the year several copper claims in the Eldon district have been acquired by the Eldon Mining Company, Limited. I am told that assays have given excellent encouragement, and a good deal of steady development work may be looked for in the future. These claims are situated about four miles south of Eldon, and the workings can be inspected by travelling along the road made by the miners.

DISCOVERY OF PHOSPHATE.

Early last year it was reported that phosphate deposits had been discovered in the park. An official from the Department of Mines was delegated to examine these discoveries, and made a report to the department, which deemed the matter of suffi-
cient importance to close the phosphate lands to claimants until such time as the deposits had been thoroughly examined, on account of their potential value from an agricultural point of view.

BANFF FISH HATCHERY.

The work at the fish hatchery has been very considerable during the year; a large number of young fry have been committed to various waters in the park. It is too soon yet to look for results in the angling lakes, but I have no doubt these results will begin to be apparent within the next few years.

A new summer hatchery was constructed by the Naval Department at the Spray lakes, and will be in operation next year under the same supervision as that which is getting such satisfactory results at the main building at Banff.

BANFF FIRE BRIGADE.

We usually have the experience of one bad fire every winter, and this year was no exception. Very early on the morning of the 12th of January some soldiers who were quartered at the internment camp, at the Cave and Basin, observed fire in the Harmon block, and immediately gave the alarm. The fire brigade, the police, and the citizens generally were immediately on the scene, but the interior of the building was a mass of flames before a stream could be turned upon it. The materials used in the construction of this large building, which from a photographic point of view was one of the show places of the town, were of such an inflammable nature that the fire practically consumed the entire edifice and its contents in the space of two hours. The weather at the time was exceptionally hard, but fortunately there was an excellent supply of water in strong streams, and this fact, together with the absence of wind, prevented the spread of the flames to adjacent buildings. I have nothing but praise for the brigade in this as in all previous outbreaks of fire in Banff since I became superintendent.

About half the total members of this volunteer organization are at the front with various regiments. There have, fortunately, been few dangerous fires during the past year, but when a call is sent in the brigade turns out with its apparatus in the alert, prompt manner which I have so often praised in the past. There is a good deal of apparatus needed for the brigade as yet, but provision has been made for the immediate requirements of the men in the estimates for 1917. The hall is in excellent shape and everything, outside and in, is spick and span.

TRANSPORTATION.

During the year the department furnished automobiles for myself and the general foreman. These have been of great convenience for us both in getting about to the various works, and in the case of the general foreman especially, enabled a great deal more work to be covered than was possible with horse and rig alone.

HAY.

For a considerable number of years it has been the practice of the park authorities to purchase all the hay required for the animals. This has been found to be a somewhat expensive and unsatisfactory process on account of difficulties of transportation and delivery. A part of the ground reclaimed by alien labour contiguous to the recreation grounds was set aside and some acres of it have been ploughed, with a view to testing the possibility of being able to grow our own hay. The preliminary experiment is being made with timothy, and it is hoped that we shall be able, by an extension of the ground, to grow all the hay required by us annually.
SESSIONAL PAPER No. 25

ELECTRIC LIGHTING.

Though no actual construction work was done during the year the question of getting a local electric plant was advanced a step by an exhaustive examination of various possible projects. The report submitted by the Government engineers who took up the examination is now in the hands of the authorities.

ROADS AND TRAILS.

The making, maintenance and repair of the roads and trails in the park are probably the most important of our works, and, in addition to the work done by the aliens, while we made no new roads there was a good deal of repair work to be done.

We had a small gang on the Moraine lake road at Lake Louise, early in the year, raking the entire length of the road from the chalet to the Moraine camp, and attending to the bridges and culverts. This is work which, as already mentioned, is necessary every year, and may be looked upon as a fixed charge.

Castle-Vermilion.—This road was rather badly cut up by lumbering operations in the early part of the summer and its condition merits somewhat extended attention when lumbering operations cease in the locality.

Calgary-Banff.—The trouble experienced on this road arose mainly from the summer freshets. Large portions of the road were under running water with the result that great quantities of boulders were deposited on the highway, in consequence of which the road was closed to through traffic for some days. Many culverts were washed away, and others had to be put in at newly made water courses where there were none before. In the neighbourhood of Exshaw there was a cave-in on the line of a long culvert, and at Anthracite we had the old trouble with the Cascade river overflowing its banks and inundating a long stretch of road to the east. Considering everything, however, it cannot be said that the road is not in good shape, but it is quite evident that there will have to be considerable work done between Banff and Bankhead and Banff and Kananaskis as soon as it is possible, owing particularly to the nature of the traffic on this road, which is entirely confined to automobiles.

Tunnel Mountain drive.—This is one of the spectacular drives in the park, but owing to the "corkscrew" on the line of route, it has so far been closed to automobiles. With the elimination of this corkscrew there would be no reason why automobiles should not use this road as traffic goes only one way—from west to east. Engineers spent some days on a survey this year with the object of finding a route which should do away with this corkscrew and it is hoped that the necessary work will be undertaken during the coming year. In all other respects the road is in fairly good condition.

Up the Spray to Hot Springs.—The interned aliens were employed in cutting out the road starting at the Spray bridge on the road to the Loop, up the Spray river, across a new bridge put in at the 5½-mile point and then up the hill to the Hot Springs, opening up the round trip which should be one of the most popular drives in the locality. There is a shorter route opened by the same road, the return being made by Government hill and the Banff Springs hotel on the present Spray road. The right-of-way has been cut out, but there are stumping and grading to be done. This winter a beginning is to be made with the culvert work, when the financial situation will allow. I have no doubt the completion of this road will be one of the first important public works to be undertaken by the department.

The Rock-crusher.—This machine, situated at the foot of mount Rundle, adjacent to a big slide on the western face, has been fairly constantly at work during the year, and large quantities of the various grades of road material were put up, but not by any means more than we could use. The material is excellent for road construction, and we intend to keep the machine going as much as possible when weather and funds permit.
The Loop drive.—In the summer of 1916 we remade and widened that part of the Loop drive between the Spray bridge and the first putting-green on the golf course. This part of the road is one of the best stretches in the park and is a favourite with automobile drivers and pedestrians. The road could accommodate three ordinary vehicles abreast if necessary, while the surface is hard and even, with adequate drainage. The remainder of the road has been widened and repaired, so that the whole seven miles are in excellent shape.

Cave avenue.—This road, which was made over again two years ago, widened and surfaced with material produced by the rock-crusher, is a model of what parks roads should be. It bears up well under heavy all-the-year-round traffic, and continues to be in very excellent shape. During the winter there was some trouble with the ice backing up from water oozing out of the hillside, and eventually blocking up the culverts at the spot in question. The road, however, was continually open for traffic.

To Sundance canyon.—This road is one of the best of the scenic drives around Banff, and was opened to automobile traffic during the year, following certain widening and brush-cutting operations. It is given continuous attention during the year and remains in excellent condition.

Spray avenue.—This road gives access to the Banff Springs hotel, and has to bear a very heavy traffic during the visitor season. It was resurfaced from the hotel to the Brett hospital during the year, and continues to be in every respect a first-class road.

To Lake Minnewanka.—This road was also opened permanently to automobile traffic during the year, after certain repairs and widening operations on the “Hog-bank” had been completed. It is a favourite drive with persons using all classes of vehicles, and its popularity calls for our giving the state of the road almost constant attention. The part from Banff avenue to Bankhead has to bear heavy traffic, under which it stands up well.

Canmore streets.—Flood conditions were very bad in Canmore district during the summer and a good deal of money was spent in putting the roads into condition. These were finally put in excellent shape and should not need more than ordinary maintenance for some little time unless similar conditions arise in the way of river flooding.

Castle-Laggan.—This road is not yet through to Laggan, although I am hopeful that it will be open to traffic between Banff and the more western resort this year. The part of the road to Castle, which has been open for some years, did not require much attention, although there are some low-lying spots which should be surfaced soon, to avoid mud during wet weather. It was a very popular drive with automobilists, and we have given attention to bad corners on the route, one very bad corner being dynamited out at a curve overlooking the Vermilion lakes. Repair work was also undertaken at and near Castle. The construction work on the road was done largely by alien labour from the summer camp at Castle, and good progress was made. I am indebted to Mr. J. M. Wardle, Highways Engineer, for the following notes on the work accomplished:

"Construction work on this road was carried on throughout the season by means of alien labour, steam shovel and day labour, and satisfactory progress was made.

"A new road, 18 feet wide, was opened up from station 149 to station 356—a distance of four miles. The road between these points is practically completed except for a thousand feet in the Eldon hills. Station 356 is one mile east of Eldon siding, the road at this point reaching the flats after winding over the Eldon hills.

"Besides the construction of this portion of the road, considerable work between station 149 and station 60—left unfinished in 1915—was completed. The greater part of the road from station 0 to station 132 was also surfaced with gravel."
To the Hot Springs.—After certain widening work had been done at some of the sharper turns on the Hot Springs road, the route was thrown open to automobile traffic, and the road was heavily patronized during the year. All grades of cars make the 800-foot ascent easily, but there is some surfacing work that should be undertaken as soon as possible.

Roads—General.—That part of the road leading to the Loop drive, where it curves under the rock immediately below the Banff Springs hotel, has been widened about twelve feet, by filling that width of the lagoon with loose rock taken from the quarry about half a mile up the Spray river. This was rather a dangerous corner for automobiles, but now is as safe as it can be made, with plenty of room to pass at any speed.

The hill from the junction of the Banff-Bankhead roads in the Anthracite direction should be surfaced, and some of the banks cut and the road widened. This road bears all the traffic from the east, coming and going, on the Banff-Calgary road.

Some repairs are contemplated early next year to the roemac road from the railway station in Banff to the Bow River bridge. It has worn well since it was laid, but is getting somewhat corrugated owing to heavy automobile traffic.

All the usual maintenance work was well attended to during the year.

The making of the new road into the St. Julien subdivision, from Wolf street to the Junction with the Tunnel Mountain drive, had to be stopped in the early winter owing to hard weather. Good progress was, however, made on heavy cutting work, and the road should be completed early in 1917, and then it should make a most attractive short circular drive to and from town via a fine scenic route.

 Roads in the Park. Miles.

Kananaskis to Banff ............................................................ 35
Banff to Hot springs .......................................................... 8
Banff to Sundance canyon ..................................................... 3
Banff to Lumber camp on Spray river ...................................... 4
Tunnel Mountain drive ......................................................... 8
Lake Minnewanka drive ....................................................... 5
Banff to Lake Louise (unfinished) .......................................... 9
Lake Louise to Moraine lake ................................................ 41
Bankhead road to Buffalo paddock .......................................... 9
Town streets, including St. Julien road .................................. 14
Loop drive ............................................................................. 1
Canmore station to mines ..................................................... 17
From junction of Banff-Louise roads to British Columbia boundary via Vermillion .................................................. 2

Right-of-Way Cut.

From Spray bridge up Spray via new bridge to Hot Springs ........ 11
From Government hill to new Spray bridge ................................ 7
Surveyed, From Cave and Basin to Middle spring .......................... 1

Total ..................................................................................... 161
TRAILS.

The game wardens’ staff, as usual, gave a good deal of attention to all the trails in the park during the year, cutting out fallen timber, getting rid of protruding rocks and doing other necessary maintenance work, in the performance of their inspection and patrol duties.

The only new trail undertaken during the year was that up Johnson canyon. The making of this most spectacular trail of easy access from the automobile road between Banff and Castle will open up a scenic short excursion which is without parallel on the line of this road, and which is sure to be a regular mecca for travellers along the route. It entailed the making of a number of bridges crossing and recrossing the creek which at certain seasons of the year contains a large stream of water, but this will enhance the attractiveness of the trail.

WATER AND SEWER SYSTEMS.

No new extensions of the Banff water and sewer systems were undertaken during the year, although we have the material at hand to make the necessary extensions as soon as the finances will permit. Both systems were kept in first-class condition during the year by our own staffs.

BRIDGES.

Trouble was again experienced with the overflow of the Cascade river at Anthracite, but without injury to the bridges there, which had been lengthened by the addition of the remaining span of what is known as the “Duncan bridge” farther down the river. A fairly successful attempt was made to divert this stream to its former channel under the steel span at the west end of this structure, with a view to eliminating the annual flooding of the other end of the bridge when the freshets come down in the early summer.

A handsome new bridge was put in at Baker creek, on the line of the automobile road, some miles west of Banff, which should be in use next year; a small new bridge was constructed at the recreation grounds; a number of culverts on the Banff-Calgary road were floored and replaced; the bridge seven miles up the Spray river, on the trail to the Spray lakes, was repaired and a new bridge put in five miles up the Spray river on the new automobile road to the Hot Springs. The bridge at Castle was repainted, also the new one on the Spray already mentioned. The Bow River bridge was refloored and painted by the Department of Public Works, also the Spray River bridge at Banff.

BUFFALO PARK.

There is nothing new to report at the buffalo enclosure, other than the information given in my monthly reports as to the conditions and increase or decrease of the animals in the enclosure. It is necessary to provide for a rather important scheme of re-fencing, owing to the rotting away of many of the posts, and a considerable sum of money has been put down in the estimates for next year to take care of this work. During the year the alien prisoners of war have been doing a considerable amount of clearing work at the lower pasture and this will give a large amount of extra ground for next year.

At the time of writing the following animals are in captivity at the Buffalo enclosure:

<table>
<thead>
<tr>
<th>Animal</th>
<th>Quantity</th>
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</thead>
<tbody>
<tr>
<td>Buffalo</td>
<td>13</td>
</tr>
<tr>
<td>Moose</td>
<td>10</td>
</tr>
<tr>
<td>Elk</td>
<td>95</td>
</tr>
<tr>
<td>Angora goats</td>
<td>18</td>
</tr>
<tr>
<td>Rocky Mtn. goats</td>
<td>3</td>
</tr>
<tr>
<td>Yak</td>
<td>16</td>
</tr>
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<tr>
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<td><strong>Total</strong></td>
<td><strong>214</strong></td>
</tr>
</tbody>
</table>
SESSIONAL PAPER No. 25

CANMORE.

There is nothing new of very great importance to report at this townsite. The pressing question for the people here is that of river erosion. During the late summer, when the floods in the Bow river and its many tributaries west of Canmore were at their height, a very considerable area of the townsite adjacent to the river was under water and one or two small bridges on spur lines were inundated. The river subsided without doing much damage, but a considerable amount of river protective work should be undertaken this year.

All the streets in the town are in good condition. A gang of men was put on there for some weeks during the summer, filling up holes, attending to bridges, and generally putting the roadways into good repair.

I have on several occasions called attention to the necessity for water and sewer systems at this point, but it is unlikely that any expenditure of this kind can be undertaken while the war continues.

ENSHAW TOWNSITE.

The only event of note here during the year was the reopening of the cement plant, which has been closed down for some time. The work done this year was largely preliminary to opening up the plant to full output early in 1917.

LAKE MINNEWANKA.

Some clearing on the townsite was done by a gang of aliens during the early spring, when some of the streets were cut out according to the survey, with the extra purpose of providing effective fireguards. The opening of the lake road to automobiles last summer made itself felt in the increased numbers of visitors, and, generally speaking, a good season was experienced. Some work was also done in connection with the wharf, with the object of making the handling of the lake steamers more convenient.

BANKHEAD.

This townsite is administered by the Bankhead Mine authorities, but the superintendent there has always shown a desire to work in harmony with the parks branch. Some clearing up was done at the time this work was general in the park.

The cemetery provided at Bankhead, in which the Miners' Union purchased a considerable block of lots, has not yet been used for interments, a preference being still shown for neighbouring burial places. The ground to be immediately used, however, is enclosed temporarily and has been properly staked.

FIRE AND GAME PROTECTION.

The work of the fire and game wardens' department, except in the case of game poaching prosecutions and similar breaches of the game regulations, does not call for a great deal of comment this year. The work went along harmoniously in all its branches, and we were fortunate in having only one small fire during the year, which did no serious damage.

Under another heading, I have already referred to the construction of the spectacular trail up Johnson Creek canyon as being the new trail of the year, but it should be stated here that the work of construction was done wholly by the wardens, as was the keeping clear of the existing trails and other similar work incidental to forest protection.

Two new warden's cabins were built during the year, a great deal of the work being done by the warden's staff. These cabins, situated at Kananaskis and Canmore,
on the main road between Calgary and Banff, are spacious erections of their kind and well built and appointed.

Some very important additions were made to our forest fire-fighting apparatus with a view to increased mobility and efficiency. These additions consist of power-pumping units with the necessary hose and other appliances, and are so constructed as to be rapidly moved from place to place by either automobile on the roads or gasoline speeder on the railway, along the lines of which fires are the most frequent.

In regard to prosecutions, there were two during the year, one of which was of great importance, involving as it did three charges against a well-known guide and outfitter. This was a case where a guide was convicted of killing Rocky Mountain sheep at or near the saltlick on the automobile road, and of having part or parts of the carcass in his residence when it was searched. He was fined in all on the three charges $100 and the costs of the court; the carcass and scalp were confiscated, and his license as a guide in the park cancelled. The other case was one in which a man in the Bankhead district was convicted of having the carcass of a deer illegally in his possession. He was fined $50 and the costs of the court; the carcass was confiscated and he was warned out of the park. Cases such as these, pursued to conviction, will have the effect of putting down the killing of game, which is apt to be a temptation when the game is practically tame, while the new regulations, imposing much heavier penalties, will be a still further deterrent.

**FISHERY INSPECTION.**

The fishery inspector reports the fishing in nearby streams not so good this season as last. Outside points as regards steam fishing gave fair returns, Myrtle, Boom, Consolation and other park lakes giving some fine catches. The inspector also reports that some extended attention should be given to the trails leading to Mystic and Hogarth lakes during next year, and also that a trail be cut not only to but around the Little Vermilion Summit lake, as between that lake and the motor road west, are some of the finest scenic spots with several small lakes that will be stocked with fish as the hatchery returns begin to count. With Boom lake used as a point for getting spawn for the hatchery it might be advisable to close the lake and the spawning beds to general fishing for a number of years, as this year, on account of the spring opening late, the fish were found in the spawning beds well into July and great numbers were taken by the timber men working nearby.

**TIMBER AND GRAZING.**

The work in this department does not call for extended notice although there was considerable activity during the year. We issued approximately 80 timber permits, and 34 grazing permits covering 222 horses and 156 cows.

**ALIEN CAMPS.**

During the year the alien prisoners' camps were situated, as in former years of the war, at Banff and Castle. The work done at Castle was in connection with the construction of the Banff-Lake Louise automobile road, to which reference is made under another heading.

At Banff the aliens spent their time in widening the road at the Spray bridge, in widening and cutting off a corner of the automobile road opposite the Vermilion lakes, cutting and loading wood, and in clearing out brush at various points around the townsite and at the buffalo and animal paddocks east of the town.
DEATH OF OFFICIALS.

In the middle of the month of January we lost Mr. John F. Morrison, our timber and grazing inspector, who suffered a long and painful illness. He had not been an official for more than three years, but he was well known in the park on account of the nature of his business, which brought him into contact with a large number of people.

COMMISSIONER OF POLICE.

I regret to have to report the death of Mr. Silas H. Carpenter, Commissioner of Police, and Magistrate and Parks Inspector. He made Banff his headquarters during the two years he held office. He was a man universally respected, both for his character and the thoroughness of his work. He has been succeeded by Mr. Barney W. Collison, the well known Calgary lawyer, who is continuing the work along the lines laid down by Mr. Carpenter.

VISITORS.

During the summer Their Royal Highnesses the Duke and Duchess of Connaught, Princess Patricia and a large party spent a considerable time in Banff, and also visited other districts of the park. The visit was not official but it was understood that Their Royal Highnesses had enjoyed a very pleasant holiday.

Two parties of the Empire Parliamentary Association from Australia and New Zealand visited the park during the year, both parties spending two days here, one going and the other coming from the Imperial Parliamentary Conference in Great Britain. We were able to show the members of both parties the principal beauties of the park in which they displayed much interest.

Later in the year the members of the Dominions Royal Commission visited the park, accompanied by Sir George E. Foster, K.C.M.G., Minister of Trade and Commerce. The weather was very cold and wet during the period of their short stay at Banff, but they nevertheless saw the various springs, bath-houses and the animals in captivity.

S. J. CLARKE.
APPENDIX 2a.

REPORT OF THE CURATOR OF THE BANFF MUSEUM.

I was able to collect considerable material during the past year and to get quite a number of specimens named and returned to me, some of which I have been able to get properly labelled and arranged.

Additions.—Birds.

Canvas-back duck, female. Collected by curator. (*Marila vallisneria*). In fine spring plumage. Rare in Rocky Mountains park.

Four oldsquaw, long tailed duck. (*Harelda hyemalis*).

Horned grebe, male. Collected by curator. (*Colymbus auritus*).

Richardson’s grouse. (*Dendragapus obscurus richardsonii*). Male, dark specimen. This is a form of the blue grouse and was found dead under the snow on Sulphur mountain trail in February, with its windpipe quite swollen near the heart. Collected by the curator.

Northern raven, male. Collected by C. V. Phillips, fire and game warden. (*Corvus corax principalis*).

Western horned owl, female. Collected by C. W. P. Phillips, fire and game warden. (*Bubh virginianus pallescens*).

All these birds are in fine plumage.

Unmounted specimens.

Study skins of Lincoln’s sparrow, white crowned sparrow and thrush.

I had the pelican which died in the zoo skinned and stored.

Several people informed me that they had found the wild ducks to be diseased, perhaps on account of the rather cool, cloudy, damp summer. The grouse seemed similarly affected from the same cause.

Mammals.

Canada beaver (*Castor canadensis*), female. From near Midnapore. This very large beaver was presented by Mr. Dan Patton and has been mounted with the beaver-felled balsalm, poplar and chips. The background of the case has been painted with a scene from the brush of Mr. S. C. Vick. This beaver weighed 70 pounds. The largest known on record.

The longtailed mouse, jumping or kangaroo mouse. (*Zapis hudsonius*). Presented by Mr. Dan Patton, of Midnapore, Alta.

Insects.

Collections of all kinds of insects were made at every opportunity. Some mountains may be the habitat of quite a number of one kind of insect which will be wanting or rare elsewhere in the park so that I come across interesting localities each year in which I find different specimens that have not been taken before in the Rocky Mountains park.
Butterflies.

Colias Nastes, an Arctic species in varying forms, was taken on Cascade Mountain slope, away from Banff, and Parnassius Smintheus was common after the middle of September in mount Aylmer pass.

Dr. C. Gordon Hewitt collected a specimen of Grylloblatta Sp., on a trip up Sulphur mountain with the curator. This is an altogether new insect, a connecting link between a cockroach and cricket, and was first taken by Dr. Walker of the biological department of the University of Toronto.

An entomological cabinet of fourteen drawers was received early this year, from the Geological Survey through Mr. Harlan I. Smith, and is very acceptable, as the original insect cabinet is full and much material remains to be properly cased for exhibition and proper preservation. Duplicate insect boxes, for storing duplicate material, etc., were purchased.

Spiders.

Spiders were collected on all my collecting trips. These Aracnids are found everywhere in the park. A few are even found on the tops of the most barren and bleak mountains. The jumping spiders are perhaps the most interesting. Some of the males are beautifully coloured. The eastern house spider is not found in the park. None of our spiders are considered poisonous in their bites, although the red mite, which looks much like a spider, may be poisonous. Spider's webs are sometimes seen over depressions made in the snow by people going up the mountain in the spring or early summer. Some of the midges, etc., and of the millions of snow flies are caught in these webs. Among some of the more interesting spiders collected were the following:—

Epeira Carbonaria.—From rock sides Cascade mountain. This spider would drop so quickly and disappear under the rocks that it was often difficult to collect, being accustomed to disappear at the slightest noise.

Lycosa Fumosa.—From Cascade mountain.

Gongyldium.—A new species of. Found on the snow on Sulphur mountain.

Tinetinus Armatus.—Found on the snow on Sulphur Mountain in the early spring.

Lathys Pallida.—A new species of jumping spider. Small, black, and a little iridescent, about twelve specimens from Simpson's Pass summit.

Plants.

Much material has been sent out to specialists of mosses, lichens, grasses and flowering plants proper; while some have been named, the determination of others will require more time on account of the conditions at present existing. Under instructions from the commissioner, I sent all the plants in the museum to Mr. J. M. Macoun, Botanist, Geological Survey, for revising and bringing up-to-date as to nomenclature.

I find it very useful to keep dried specimens of all western plants on hand, as visitors often ask for the name of some plant they have seen along the railway, while passing through the prairie or mountains. To this end, while I am away on holidays or on other work, I make a point of collecting as much as possible about the locality. Of course the plants in the vicinity of the park should be kept in the museum. The summer of 1916, was a season of considerable rust amongst the wild vegetation, for instance, the sipe berry, often called the buffalo berry by mistake (Shepherdia canadensis), was very much affected by rust. These berries have never been noticed
in this rusted condition before. Some wild flowers are becoming rare about Banff, namely the yellow lady's slipper (Cypripedium pubescens), although never very abundant, is now almost extinct. It has always, so far as known, been confined to rather a small area. The yellow lily (Lilium montanum), a beautiful showy flower, is far less abundant than previously.

Lovers of wild flowers should not pull up any flower by the root nor pick a bouquet only to throw it away before reaching home.

PHENOLOGICAL NOTES.

Most birds were later than usual in their return in the spring. On account of several snow storms in May, many ducks rested on the Bow river, some never seen here before, a few of which were collected. Wild plants were also later than the average date.

TREES.

In the winter of 1915-16 a large number of conifers were affected climatically many of the leaves developing a scorched appearance. These leaves fall off or blow off and in most cases the trees affected resume their usual appearance in about two years time. In the early part of the present year the trees near Kananaskis particularly suffered though it is possible they may have been affected by a grub at the roots. The matter would be worth investigating.

COLLECTING TRIPS.

Collecting trips in the immediate vicinity of Banff were often taken over the automobile road. Squaw mountain, Spray road, Loop, Banff avenue to Lake Minnewanka and side trails, Tunnel, Rundle and Sulphur mountains, while Cascade mountain, mount Aylmer, Monarch mountain were climbed and the vicinity of each explored.

Cascade mountain.—August 23 to 27 and again August 31 to September 2, camping in what is known as the Amphitheatre, collecting trips were made in all directions. One of the best, if not the best, views of Mount Assiniboine is had from the top of Cascade mountain. From the Amphitheatre a shorter trail to the summit could be made, which would also avoid going over much badly laid down rock. Quite a number of fossil corals were found here. In some of the snow pools were noticed several species of rare and beautiful algae.

Mount Aylmer; Mount Aylmer Pass.—September 18 to 23, camping in mount Aylmer pass under perfect weather conditions, collecting considerable material on every-day walks and climbs. Mountain sheep, goat, coyotes, mule deer, wolverine and picas were seen; also ptarmigan and eagles. From the top of mount Aylmer one of the best views of the prairie, including Calgary, may be seen; also of mount Assiniboine. It would be possible to make a shorter trail up this mountain than that by which the summit is now reached.

Simpson's Pass Summit and Monarch Mountain.—July 25 to 29, when collection of spiders and insects in general was made. A fine view is obtained from the summit of Monarch mountain.

Exshaw and neighbourhood.—June 6, made some collections here.

Sulphur mountain.—Every two weeks in August and September different portions of the mountain were explored for information and specimens.
REQUIREMENTS.

More cases are really required before anything else. There are quite a number of birds in storage, because no room can be found for them in the present filled-up cases. More specimens of full sized mammals, especially of the larger sizes are needed; also more birds.

I again have to acknowledge kind assistance from: Dr. C. Gordon Hewitt, Dominion Entomologist; Mr. J. W. F. Sladen, Apiarist, Experimental Farm; Mr. P. A. Taverner, Ornithologist, Victoria Memorial Museum; Mr. J. M. Swaine, Forest Insects, Experimental Farm; Dr. M. O. Malte, Agrostologist, Experimental Farm; Dr. H. T. Güssow, Dominion Botanist; Mr. G. K. Merrill, Rockland, Maine; Dr. Otto E. Jennings, Pittsburg, Pa.; Mr. F. H. Wolley-Dodd, Midnapore, Alberta.

N. B. SANSON.
APPENDIX 2b.

REPORT OF THE ALPINE CLUB OF CANADA.

The Alpine Club-house was open all the season, not only for the convenience of the members of the club, but also to give much needed information about the mountain country to strangers.

Among the visitors who come to Banff there seems to be a growing desire to see more of the place and its surroundings than is comprised in the usual hotel routine. While serious climbers make the club-house their headquarters, there are many visitors who would gladly make the simpler climbs if there were resident guides available, not only for climbing, but to make plain and practical the many expeditions of not too strenuous an order which radiate from Banff.

Much appreciation was expressed of the new trail from the Middle springs to the Cave and Basin. It undoubtedly led many bathers to the Government baths, who would otherwise have gone elsewhere.

The most striking climb of the season was the first ascent of mount Louis. Though of no very great height it was declared by its climbers—members of the party which conquered mount Robson—to be one of the most difficult rock climbs in the Canadian Rockies. Mounts Norquay, Edith, Cascade and Rundle were also climbed.

A canoe trip down the Bow, from below the falls to Exshaw, was found most interesting, though by no means suited to a novice.

The river is decidedly one of the best places from which to see the mountain peaks and the use of it for such purpose is worthy of every encouragement.

It would be appreciated if a good trail were cleared out and kept open on the east side of the Spray river from the new bridge four miles up, back to Banff. Such a trail would be of the greatest service to riding parties, affording a delightful round trip up the valley by the road and back through the forest.

The visitors to the club-house were drawn from the following places:

**Canada**—
British Columbia.—Cameron Lake, Kelowna, Rossland, Sidney, Vancouver, Victoria, Wilmer.
Alberta.—Calgary, Edmonton, Green Court, Innisfail, Lethbridge, Macleod, Vegreville, Vermilion.
Saskatchewan.—Kerrobert, Regina, Prince Albert.
Manitoba.—Brandon, Winnipeg.
Ontario.—Hamilton, Ottawa, Sudbury, Toronto.
Nova Scotia.—Windsor.

**United States**—
Illinois.—Galesburg.
Indiana.—Lafayette.
Maryland.—Annapolis.
Massachusetts.—Boston, Brookline.
Minnesota.—Minneapolis.
Missouri.—St. Louis.
New York.—Brooklyn, New York.
Washington.—Seattle.

**Scotland**—
Glasgow.
HEALY CREEK CAMP.

The eleventh annual camp of the Alpine Club of Canada was held in Healy Creek valley, not far from Simpson pass, from the 13th to the 31st of July. It opened up a new region of interest, the Swiss guides declaring that while there were few peaks of first-class attraction from the climbing point of view, the neighbourhood of Egypt lake, the Pharaoh peaks and Shadow lake as the most beautiful known to them in the Rockies.

A motor launch was taken for about eight miles up the Bow river to a landing, whence a new trail had been cut to join the main trail from Banff to Simpson pass. This proved to be a most popular innovation and in future it is probable that most travellers to Simpson pass and the mount Assiniboine country will arrange for their ponies to meet them at this landing, thus cutting out a part of the trail of no particular interest.

A subsidiary camp was pitched near the summit of Simpson pass, on the shore of the lake, by Bill Peyto's copper claim, which commanded delightful views, and was a fine centre for excursions.

War conditions still continue, and the attendance was small in comparison with earlier years. Still the enthusiasm was great, and the love and knowledge of Canada's mountain country were extended.

Among the principal ascents made were those of mounts Monarch and Brett, and the unnamed peak next to mount Brett.

Excursions radiated in every direction, the most popular being one which occupied two days to Shadow lake via Haiduk pass and returning by the northern shoulder of the Pharaoh peaks.

In addition to the annual meeting a special meeting was held at the Simpson pass camp to synchronize exactly with one held at the war front by Lieut.-Col. C. H. Mitchell, D.S.O., the eastern vice-president. It was a most solemn function, a fierce thunderstorm adding dramatic effect to the five minutes of solemn commune with those on the European front.

After camp, several expeditions of exploration were made by different members of the club, of which detailed accounts will appear in the next club Journal. These include trips into fresh portions of the Purcell range, the ascent of mount Longstaff and a minor peak in the same range. For the first time on record an expedition was made into the unknown Cariboo range. Sand creek and the Little Shuswap valleys were explored and the region found to be of extreme interest.

Professor Coleman continued his explorations of the mountains of Labrador, and journeys of less importance were made.

In an article in the last number of the English Alpine Journal it stated truly that the more travelling and climbing were carried out in the mountains of Canada, the more unknown country seemed to await the mountaineer.

It is an interesting fact that in a report made by the secretary of the American club of the climbs of importance made by its members in 1916, only one peak was mentioned which was not in Canada, and all the mountain climbers mentioned except one belonged to the Alpine Club of Canada.

Among the better known attendants at the camp were Sir Jas. Outram, whose book on his early climbs in the Rockies is a Canadian classic; the Hon. Mr. Justice Galt, of Winnipeg; Dr. Stone, President of Purdue University, Indiana; Prof. J. F. Lewis, of the University of Alberta; Prof. C. B. Sissons, of Toronto; and Mr. R. H. Campbell, Director of Canada's Forestry Department.

There were present members of the English, Swiss and American Alpine Clubs, of the Appalachian Mountain Club, of the Mazamas and the Mountaineers, of the Royal Geographical Society and the Linnean Society.

25—v—3
Those present at the camp were drawn from the following places:

**Canada—**
British Columbia.—Cameron Lake, Kelowna, Rossland, Sidney, Vancouver, Victoria, Wilmer.
Alberta—Banff, Calgary, Edmonton, Lethbridge, Vermilion.
Saskatchewan—Regina.
Manitoba—Winnipeg.
Ontario—Hamilton, Ottawa, Toronto.
Nova Scotia—Windsor.

**United States—**
Illinois—Chicago, Galesburg.
Indiana—Lafayette.
Maryland—Annapolis.
Massachusetts—Boston, Brookline.
Washington—Seattle.

**Switzerland—**
Interlaken.
APPENDIX No. 2c.

ANALYSIS OF NATIONALITIES OF VISITORS TO ROCKY MOUNTAINS PARK.

Visitors to Cave and Basin from April 1, 1916, to March 31, 1917.

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Paying bathers.

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Free bathers.

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Statement of persons registered at the Banff Springs hotel, season 1916.

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<td>Prince Edward Island</td>
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<tr>
<td>Nova Scotia</td>
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<td>New Brunswick</td>
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<td>Quebec</td>
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<td>Connecticut</td>
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<tr>
<td>Rhode Island</td>
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<tr>
<td>New York</td>
<td>295</td>
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<tr>
<td>Pittsburgh</td>
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<td>Philadelphia</td>
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<tr>
<td>New Jersey</td>
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</tr>
<tr>
<td>Delaware</td>
<td>17</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>1,468</strong></td>
</tr>
<tr>
<td>Maryland</td>
<td>82</td>
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<tr>
<td>District of Columbia</td>
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<td>Tennessee</td>
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<td>North Carolina</td>
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<td>Georgia</td>
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<td>Alabama</td>
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<td>Mississippi</td>
<td>12</td>
</tr>
<tr>
<td>Louisiana</td>
<td>31</td>
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<tr>
<td>Florida</td>
<td>10</td>
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<td><strong>Total</strong></td>
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<tr>
<td>Ohio</td>
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<tr>
<td>Cleveland</td>
<td>134</td>
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<tr>
<td>Cincinnati</td>
<td>74</td>
</tr>
<tr>
<td>Detroit</td>
<td>108</td>
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<td>Indiana</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1,468</strong></td>
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</table>
## Statement of persons registered at the Banff Springs hotel, season 1916.

<table>
<thead>
<tr>
<th>State</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Missouri</td>
<td>46</td>
</tr>
<tr>
<td>St. Louis</td>
<td>107</td>
</tr>
<tr>
<td>Kansas City</td>
<td>43</td>
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<tr>
<td>Kansas</td>
<td>10</td>
</tr>
<tr>
<td>Arkansas</td>
<td>15</td>
</tr>
<tr>
<td>Oklahoma</td>
<td>37</td>
</tr>
<tr>
<td>Nebraska</td>
<td>73</td>
</tr>
<tr>
<td>Texas</td>
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<tr>
<td>Total</td>
<td>365</td>
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<tr>
<td>Wisconsin</td>
<td>74</td>
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<tr>
<td>Milwaukee</td>
<td>74</td>
</tr>
<tr>
<td>Minnesota</td>
<td>61</td>
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<td>Minneapolis</td>
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<tr>
<td>St. Paul</td>
<td>63</td>
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<td>North Dakota</td>
<td>30</td>
</tr>
<tr>
<td>South Dakota</td>
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</tr>
<tr>
<td>Total</td>
<td>468</td>
</tr>
<tr>
<td>Washington</td>
<td>182</td>
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<tr>
<td>Oregon</td>
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<tr>
<td>California</td>
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<td>San Francisco</td>
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<tr>
<td>Los Angeles</td>
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<tr>
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<tr>
<td>Montana</td>
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</tr>
<tr>
<td>Idaho</td>
<td>2</td>
</tr>
<tr>
<td>Colorado</td>
<td>20</td>
</tr>
<tr>
<td>Utah</td>
<td>6</td>
</tr>
<tr>
<td>Arizona</td>
<td>12</td>
</tr>
<tr>
<td>Total</td>
<td>66</td>
</tr>
<tr>
<td>Alaska</td>
<td>3</td>
</tr>
<tr>
<td>West Indies</td>
<td>13</td>
</tr>
<tr>
<td>Mexico and Central America</td>
<td>2</td>
</tr>
<tr>
<td>South America</td>
<td>7</td>
</tr>
<tr>
<td>Total</td>
<td>25</td>
</tr>
</tbody>
</table>

## Conducted Parties (otherwise unlocated).

<table>
<thead>
<tr>
<th>Party</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Raymond &amp; Whitcomb</td>
<td>56</td>
</tr>
<tr>
<td>Thos. Cook &amp; Son</td>
<td>20</td>
</tr>
<tr>
<td>G. K. &amp; B.</td>
<td>48</td>
</tr>
<tr>
<td>Pittsburg Common</td>
<td>25</td>
</tr>
<tr>
<td>Can. Credit Man's Association</td>
<td>40</td>
</tr>
<tr>
<td>Frank Tours</td>
<td>8</td>
</tr>
<tr>
<td>Total</td>
<td>197</td>
</tr>
<tr>
<td>Unlocated</td>
<td>121</td>
</tr>
<tr>
<td>Total, 1915</td>
<td>22,019</td>
</tr>
<tr>
<td>Total, 1916</td>
<td>10,624</td>
</tr>
<tr>
<td>Decrease</td>
<td>11,395</td>
</tr>
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</table>

## Statement of persons registered at Chateau Lake Louise, Lake Louise, Alta., season 1916.

<table>
<thead>
<tr>
<th>Province</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manitoba</td>
<td>21</td>
</tr>
<tr>
<td>(Winnipeg)</td>
<td>222</td>
</tr>
<tr>
<td>Saskatchewan</td>
<td>128</td>
</tr>
<tr>
<td>Alberta</td>
<td>504</td>
</tr>
<tr>
<td>British Columbia</td>
<td>164</td>
</tr>
<tr>
<td>Total</td>
<td>1,039</td>
</tr>
<tr>
<td>Prince Edward Island</td>
<td>2</td>
</tr>
<tr>
<td>Nova Scotia</td>
<td>11</td>
</tr>
<tr>
<td>New Brunswick</td>
<td>19</td>
</tr>
<tr>
<td>Quebec</td>
<td>170</td>
</tr>
<tr>
<td>Ontario</td>
<td>447</td>
</tr>
<tr>
<td>Total</td>
<td>649</td>
</tr>
<tr>
<td>Maine</td>
<td>26</td>
</tr>
<tr>
<td>New Hampshire</td>
<td>32</td>
</tr>
<tr>
<td>Massachusetts</td>
<td>323</td>
</tr>
<tr>
<td>(Boston)</td>
<td>369</td>
</tr>
<tr>
<td>Vermont</td>
<td>17</td>
</tr>
<tr>
<td>Connecticut</td>
<td>162</td>
</tr>
<tr>
<td>Rhode Island</td>
<td>93</td>
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<tr>
<td>New York</td>
<td>348</td>
</tr>
<tr>
<td>(New York City)</td>
<td>1,272</td>
</tr>
<tr>
<td>Pennsylvania</td>
<td>206</td>
</tr>
<tr>
<td>(Pittsburgh)</td>
<td>114</td>
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<tr>
<td>(Philadelphia)</td>
<td>328</td>
</tr>
<tr>
<td>New Jersey</td>
<td>216</td>
</tr>
<tr>
<td>Delaware</td>
<td>14</td>
</tr>
<tr>
<td>Maryland</td>
<td>93</td>
</tr>
<tr>
<td>District of Columbia</td>
<td>109</td>
</tr>
<tr>
<td>West Virginia</td>
<td>27</td>
</tr>
<tr>
<td>Virginia</td>
<td>86</td>
</tr>
<tr>
<td>Total</td>
<td>3,758</td>
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</table>
### Statement of Persons Registered at Chateau Lake Louise, Lake Louise, Alta., Season 1916—Continued.

<table>
<thead>
<tr>
<th>State</th>
<th>Registered Persons</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kentucky</td>
<td>69</td>
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<tr>
<td>Tennessee</td>
<td>75</td>
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<tr>
<td>North Carolina</td>
<td>11</td>
</tr>
<tr>
<td>South Carolina</td>
<td>9</td>
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<tr>
<td>Georgia</td>
<td>59</td>
</tr>
<tr>
<td>Alabama</td>
<td>27</td>
</tr>
<tr>
<td>Mississippi</td>
<td>11</td>
</tr>
<tr>
<td>Louisiana</td>
<td>43</td>
</tr>
<tr>
<td>Florida</td>
<td>27</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>331</strong></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>State</th>
<th>Registered Persons</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ohio (Cleveland)</td>
<td>156</td>
</tr>
<tr>
<td>Ohio (Cincinnati)</td>
<td>102</td>
</tr>
<tr>
<td>Michigan (Detroit)</td>
<td>124</td>
</tr>
<tr>
<td>Indiana (Indianapolis)</td>
<td>61</td>
</tr>
<tr>
<td>Illinois (Chicago)</td>
<td>346</td>
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<tr>
<td>Iowa</td>
<td>249</td>
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<tr>
<td><strong>Total</strong></td>
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<table>
<thead>
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<th>State</th>
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<tbody>
<tr>
<td>Missouri (St. Louis)</td>
<td>50</td>
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<tr>
<td>Kansas (Kansas City)</td>
<td>54</td>
</tr>
<tr>
<td>Arkansas</td>
<td>14</td>
</tr>
<tr>
<td>Oklahoma</td>
<td>24</td>
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<tr>
<td>Nebraska (Omaha)</td>
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<tr>
<td>Texas</td>
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<td><strong>Total</strong></td>
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<table>
<thead>
<tr>
<th>State</th>
<th>Registered Persons</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wisconsin (Milwaukee)</td>
<td>128</td>
</tr>
<tr>
<td>Minnesota (Minneapolis)</td>
<td>104</td>
</tr>
<tr>
<td>St. Paul</td>
<td>98</td>
</tr>
<tr>
<td>North Dakota</td>
<td>30</td>
</tr>
<tr>
<td>South Dakota</td>
<td>19</td>
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<td><strong>Total</strong></td>
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<table>
<thead>
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<th>State</th>
<th>Registered Persons</th>
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</thead>
<tbody>
<tr>
<td>Washington</td>
<td>340</td>
</tr>
<tr>
<td>Oregon</td>
<td>184</td>
</tr>
<tr>
<td>California (San Francisco)</td>
<td>504</td>
</tr>
<tr>
<td>California (Los Angeles)</td>
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<tr>
<td>Nevada</td>
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<td><strong>Total</strong></td>
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<table>
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<th>Country</th>
<th>Registered Persons</th>
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</thead>
<tbody>
<tr>
<td>Montana</td>
<td>15</td>
</tr>
<tr>
<td>Idaho</td>
<td>8</td>
</tr>
<tr>
<td>Colorado</td>
<td>19</td>
</tr>
<tr>
<td>Utah</td>
<td>8</td>
</tr>
<tr>
<td>Arizona</td>
<td>9</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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</tr>
</tbody>
</table>

<table>
<thead>
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<th>Country</th>
<th>Registered Persons</th>
</tr>
</thead>
<tbody>
<tr>
<td>West Indies</td>
<td>19</td>
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<tr>
<td>Mexico and Central America</td>
<td>3</td>
</tr>
<tr>
<td>South America</td>
<td>8</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>30</strong></td>
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</tbody>
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<table>
<thead>
<tr>
<th>Country</th>
<th>Registered Persons</th>
</tr>
</thead>
<tbody>
<tr>
<td>England</td>
<td>66</td>
</tr>
<tr>
<td>Scotland</td>
<td>12</td>
</tr>
<tr>
<td>France</td>
<td>13</td>
</tr>
<tr>
<td>Italy</td>
<td>2</td>
</tr>
<tr>
<td>Switzerland</td>
<td>7</td>
</tr>
<tr>
<td>Holland</td>
<td>8</td>
</tr>
<tr>
<td>Other European countries</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>105</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Country</th>
<th>Registered Persons</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>102</td>
</tr>
<tr>
<td>New Zealand</td>
<td>34</td>
</tr>
<tr>
<td>China</td>
<td>55</td>
</tr>
<tr>
<td>India</td>
<td>15</td>
</tr>
<tr>
<td>Hawaii</td>
<td>38</td>
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<tr>
<td>Philippine Islands</td>
<td>29</td>
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<tr>
<td>Africa</td>
<td>6</td>
</tr>
<tr>
<td>Japan</td>
<td>20</td>
</tr>
<tr>
<td>Straits Settlements</td>
<td>13</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>303</strong></td>
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</table>

<table>
<thead>
<tr>
<th>Company</th>
<th>Registered Persons</th>
</tr>
</thead>
<tbody>
<tr>
<td>Raymond and Whitcomb</td>
<td>27</td>
</tr>
<tr>
<td>Thos. Cook &amp; Son</td>
<td>24</td>
</tr>
<tr>
<td>G. K. &amp; B.</td>
<td>78</td>
</tr>
<tr>
<td>Various</td>
<td>61</td>
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<tr>
<td><strong>Total</strong></td>
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</table>

<table>
<thead>
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<th>Country</th>
<th>Registered Persons</th>
</tr>
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<tbody>
<tr>
<td>Unlocated</td>
<td>64</td>
</tr>
<tr>
<td>Total, 1915</td>
<td>37,716</td>
</tr>
<tr>
<td>Total, 1916</td>
<td>11,966</td>
</tr>
<tr>
<td><strong>Decrease</strong></td>
<td><strong>15,750</strong></td>
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</tbody>
</table>

Guests registered at the King Edward hotel, from April 1, 1916, to March 31, 1917.

<table>
<thead>
<tr>
<th>Country</th>
<th>Registered Persons</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada</td>
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<td>America</td>
<td>807</td>
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<tr>
<td>Australia</td>
<td>28</td>
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<tr>
<td>England</td>
<td>31</td>
</tr>
<tr>
<td>China</td>
<td>17</td>
</tr>
<tr>
<td>Japan</td>
<td>9</td>
</tr>
<tr>
<td>Scotland</td>
<td>14</td>
</tr>
<tr>
<td>Holland</td>
<td>4</td>
</tr>
<tr>
<td>Mexico</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>6,156</strong></td>
</tr>
</tbody>
</table>
### Hot Springs Hotel

- Alberta: 221
- Saskatchewan: 198
- Manitoba: 44
- British Columbia: 13
- United States: 12
- Nova Scotia: 1

**Total:** 594

### Mount Royal Hotel, from April 15, 1916, to September 10, 1916.

<table>
<thead>
<tr>
<th>Country</th>
<th>Visitors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada</td>
<td>1,893</td>
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<tr>
<td>United States</td>
<td>542</td>
</tr>
<tr>
<td>England</td>
<td>14</td>
</tr>
<tr>
<td>Scotland</td>
<td>10</td>
</tr>
<tr>
<td>Australia</td>
<td>10</td>
</tr>
<tr>
<td>New Zealand</td>
<td>5</td>
</tr>
<tr>
<td>India</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>2,678</td>
</tr>
</tbody>
</table>

### Alberta Hotel (Open year round).

<table>
<thead>
<tr>
<th>Country</th>
<th>Visitors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada</td>
<td>3,608</td>
</tr>
<tr>
<td>United States</td>
<td>590</td>
</tr>
<tr>
<td>Australia</td>
<td>3</td>
</tr>
<tr>
<td>England</td>
<td>10</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>4,340</td>
</tr>
</tbody>
</table>

### Sanatorium Hotel (Closed early in fall).

<table>
<thead>
<tr>
<th>Country</th>
<th>Visitors</th>
</tr>
</thead>
<tbody>
<tr>
<td>England</td>
<td>150</td>
</tr>
<tr>
<td>Australia</td>
<td>25</td>
</tr>
<tr>
<td>Canada</td>
<td>1,850</td>
</tr>
<tr>
<td>United States</td>
<td>2,007</td>
</tr>
<tr>
<td>Japan</td>
<td>10</td>
</tr>
<tr>
<td>New Zealand</td>
<td>18</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>4,082</td>
</tr>
</tbody>
</table>

### Homestead Hotel, Banff, from March 31, 1916, to March 31, 1917.

<table>
<thead>
<tr>
<th>Country</th>
<th>Visitors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada</td>
<td>2,272</td>
</tr>
<tr>
<td>United States</td>
<td>703</td>
</tr>
<tr>
<td>Great Britain</td>
<td>7</td>
</tr>
<tr>
<td>China</td>
<td>4</td>
</tr>
<tr>
<td>India</td>
<td>4</td>
</tr>
<tr>
<td>Egypt</td>
<td>2</td>
</tr>
<tr>
<td>Australia</td>
<td>8</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>2,000</td>
</tr>
<tr>
<td>----------</td>
<td>-------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>May 25.</td>
<td>Thos. P. Cope and party</td>
</tr>
<tr>
<td>&quot; 29.</td>
<td>N. P. C. P. A. Meeting, Banff</td>
</tr>
<tr>
<td>June 6.</td>
<td>Empire Parliamentary party</td>
</tr>
<tr>
<td>8.</td>
<td>Can. Credit Men's Trust Association</td>
</tr>
<tr>
<td>9.</td>
<td>Midnight Sun Tour &quot;O&quot;</td>
</tr>
<tr>
<td>9.</td>
<td>R. &amp; W. Alaska Tours 91 and 92</td>
</tr>
<tr>
<td>10.</td>
<td>R. &amp; W. Alaska Tours 92</td>
</tr>
<tr>
<td>10.</td>
<td>W. A. Franklin and party</td>
</tr>
<tr>
<td>19.</td>
<td>R. &amp; W. Tour 71</td>
</tr>
<tr>
<td>28.</td>
<td>Dr. Davies and party</td>
</tr>
<tr>
<td>30.</td>
<td>Grand Encampment—Knights Templar</td>
</tr>
<tr>
<td>1.</td>
<td>The Weyer party</td>
</tr>
<tr>
<td>2.</td>
<td>Duke and Duchess of Connaught and party</td>
</tr>
<tr>
<td>3.</td>
<td>R. &amp; W. Tour 81</td>
</tr>
<tr>
<td>5.</td>
<td>Ruth party</td>
</tr>
<tr>
<td>5.</td>
<td>33rd Triennial conclave, K. T.</td>
</tr>
<tr>
<td>6.</td>
<td>R. &amp; W. Tour 107</td>
</tr>
<tr>
<td>7.</td>
<td>C. B. Ford and party</td>
</tr>
<tr>
<td>8.</td>
<td>Edward H. Lows, Alaska Tour, 1916</td>
</tr>
<tr>
<td>8.</td>
<td>Boyd Tour No. 76</td>
</tr>
<tr>
<td>9.</td>
<td>G. K. &amp; B. Tour &quot;E&quot;</td>
</tr>
<tr>
<td>9.</td>
<td>G. K. &amp; B. Tour &quot;S&quot;</td>
</tr>
<tr>
<td>10.</td>
<td>Frank Tourist party</td>
</tr>
<tr>
<td>10.</td>
<td>1st S. Wallace party</td>
</tr>
<tr>
<td>16.</td>
<td>G. K. &amp; B. Tour &quot;Y&quot;</td>
</tr>
<tr>
<td>16.</td>
<td>R. &amp; W. Tour 74</td>
</tr>
<tr>
<td>18.</td>
<td>G. K. &amp; B. Tour &quot;C&quot;</td>
</tr>
<tr>
<td>19.</td>
<td>Thos. Cook &amp; Son's party—Alaska</td>
</tr>
<tr>
<td>20.</td>
<td>R. &amp; W. Tour 114</td>
</tr>
<tr>
<td>24.</td>
<td>Prof. Fisher party</td>
</tr>
<tr>
<td>26.</td>
<td>Akers, Folkman &amp; Lawrence party</td>
</tr>
<tr>
<td>27.</td>
<td>Washington, D.C., Delg. K. P.</td>
</tr>
<tr>
<td>28.</td>
<td>Miss Pantlind party</td>
</tr>
<tr>
<td>29.</td>
<td>Pythian Sisters</td>
</tr>
<tr>
<td>29.</td>
<td>F. C. Atkinson and party</td>
</tr>
<tr>
<td>31.</td>
<td>Eager party</td>
</tr>
<tr>
<td>Aug. 2.</td>
<td>G. K. &amp; B. Tour &quot;G&quot;</td>
</tr>
<tr>
<td>6.</td>
<td>Ohio Bankers' Tour, 1916</td>
</tr>
<tr>
<td>6.</td>
<td>Geo. W. Norton party</td>
</tr>
<tr>
<td>9.</td>
<td>Miss R. M. Rhodes party</td>
</tr>
<tr>
<td>11.</td>
<td>Mrs. R. M. Rhedes party</td>
</tr>
<tr>
<td>11.</td>
<td>Dr. J. C. Boyd and family</td>
</tr>
<tr>
<td>12.</td>
<td>Alexander party</td>
</tr>
<tr>
<td>14.</td>
<td>Miss Iselin party</td>
</tr>
<tr>
<td>15.</td>
<td>Violette party (Miss Fairbanks)</td>
</tr>
<tr>
<td>16.</td>
<td>Mollvray &amp; Foote party</td>
</tr>
<tr>
<td>15.</td>
<td>Gray party</td>
</tr>
<tr>
<td>15.</td>
<td>R. &amp; W. Tours 164, 168 and 196</td>
</tr>
<tr>
<td>21.</td>
<td>Penna. Co. Tour</td>
</tr>
<tr>
<td>22.</td>
<td>R. &amp; W. Tour 102</td>
</tr>
<tr>
<td>27.</td>
<td>Union Bank officials</td>
</tr>
<tr>
<td>30.</td>
<td>Wicker party</td>
</tr>
<tr>
<td>31.</td>
<td>Grand Theatre party</td>
</tr>
<tr>
<td>31.</td>
<td>Prosser party</td>
</tr>
<tr>
<td>Sept. 6.</td>
<td>G. K. &amp; B. Tour &quot;F&quot;</td>
</tr>
</tbody>
</table>
Special Trips.

<table>
<thead>
<tr>
<th>Month</th>
<th>Description</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 24th</td>
<td>Calgary War Veteran’s Association</td>
<td>200</td>
</tr>
<tr>
<td>29th</td>
<td>Alberta Grand Lodge Free Masons (3 days)</td>
<td>300</td>
</tr>
<tr>
<td>30th</td>
<td>Canadian Passenger Agents</td>
<td>12</td>
</tr>
<tr>
<td>July 1st</td>
<td>No special parties but large numbers in town</td>
<td>300</td>
</tr>
<tr>
<td>3rd</td>
<td>Knights of Pythias</td>
<td>256</td>
</tr>
<tr>
<td></td>
<td>Benchers Alberta Law Society (3 days)</td>
<td>20</td>
</tr>
<tr>
<td>4th</td>
<td>Large conducted party from United States</td>
<td>250</td>
</tr>
<tr>
<td>14th</td>
<td>Indian Day Sports</td>
<td>500</td>
</tr>
<tr>
<td>15th</td>
<td>Calgary War Veteran’s Association</td>
<td>250</td>
</tr>
<tr>
<td>19th</td>
<td>Strathmore Sabbath School</td>
<td>400</td>
</tr>
<tr>
<td>26th</td>
<td>Red Deer and Carstairs Methodist Church</td>
<td>850</td>
</tr>
<tr>
<td>August 2nd</td>
<td>Canadian Ordnance Corps, Banff</td>
<td>150</td>
</tr>
<tr>
<td></td>
<td>High River Sunday School</td>
<td>350</td>
</tr>
<tr>
<td>9th</td>
<td>Calgary Anglican Church</td>
<td>500</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4,332</td>
</tr>
</tbody>
</table>

Summary.

<table>
<thead>
<tr>
<th>Items</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Banff Spring Hotel</td>
<td>10,624</td>
</tr>
<tr>
<td>Chateau Lake Louise</td>
<td>11,366</td>
</tr>
<tr>
<td>Sanatorium</td>
<td>4,082</td>
</tr>
<tr>
<td>King Edward Hotel</td>
<td>6,156</td>
</tr>
<tr>
<td>Hot Springs Hydropathic Hotel</td>
<td>504</td>
</tr>
<tr>
<td>Mount Royal Hotel</td>
<td>2,878</td>
</tr>
<tr>
<td>Alberta Hotel</td>
<td>4,240</td>
</tr>
<tr>
<td>Homestead Hotel</td>
<td>3,000</td>
</tr>
<tr>
<td>Summer cottagers and campers</td>
<td>7,000</td>
</tr>
<tr>
<td>Excursionists—estimated</td>
<td>6,000</td>
</tr>
<tr>
<td>Special parties—estimated</td>
<td>1,000</td>
</tr>
<tr>
<td>Total</td>
<td>57,250</td>
</tr>
</tbody>
</table>
APPENDIX 2d.

ANALYSIS OF HOT SULPHUR WATERS, BANFF.

Through the courtesy of the Department of Mines, an examination of the waters of the hot sulphur springs, at Banff, with special regard to their radioactive properties, was made during the year by R. T. Elworthy, B.Sc., assistant chemist of that department. Mr. Elworthy spent some time at Banff and has submitted a very comprehensive report which is to be published in monograph form. A few extracts are given below:—

"Several tests were made on each of the springs at Banff, in December, 1916, for the radium emanation content or temporary activity, and during the winter at Ottawa on the radium content, or permanent activity.

The radium present as dissolved radium in the water and the radium emanation in the water in the gases which are evolved from the springs was measured and the results were found as follows:—

<table>
<thead>
<tr>
<th>Spring</th>
<th>Temperature</th>
<th>Rate of Flow</th>
<th>Water.</th>
<th>Gas</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Radium</td>
<td>Radium Emanation</td>
</tr>
<tr>
<td></td>
<td>C°</td>
<td>F°</td>
<td>gals. per hr.</td>
<td>units.</td>
</tr>
<tr>
<td>Upper Hot.</td>
<td>45·0</td>
<td>115</td>
<td>8,000</td>
<td>221</td>
</tr>
<tr>
<td>Kidney</td>
<td>39·0</td>
<td>101·5</td>
<td>1,200</td>
<td>392</td>
</tr>
<tr>
<td>Middle</td>
<td>33·5</td>
<td>92</td>
<td>6,000</td>
<td>294</td>
</tr>
<tr>
<td>Cave</td>
<td>29·5</td>
<td>85</td>
<td>15,000</td>
<td>470</td>
</tr>
<tr>
<td>Basin</td>
<td>34·5</td>
<td>94</td>
<td>10,000</td>
<td>232</td>
</tr>
<tr>
<td>Auto Road</td>
<td>19·4</td>
<td>67</td>
<td>6,000</td>
<td>640</td>
</tr>
<tr>
<td>Alpine Club</td>
<td>6·6</td>
<td>44</td>
<td>3,000</td>
<td>475</td>
</tr>
</tbody>
</table>

"But such figures are of little interest by themselves. It is important to know how the activity of these springs compares with that of other springs notable for their radioactivity or therapeutic value.

"In the United States, several of the chief groups of springs have been the subject of investigation; probably those of greatest interest for comparison with Banff are the Yellowstone Park waters. There are three groups of waters rising in the Yellowstone Park district, and the Banff waters most nearly correspond to those springs which contain predominant amounts of calcium carbonate and calcium sulphate. The Mammoth Hot Springs are a typical example of this group.

"Comparing the radioactivity of the gases evolved from both groups of springs it is seen that the Banff gases are of considerably higher radioactive value. The radioactivity of the waters varies from 1,600 units per litre to negative results but the average value corresponds very closely with the Banff waters.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Mammoth Hot Springs—</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hot River.</td>
<td>51 123·8</td>
<td>none</td>
</tr>
<tr>
<td>Cleopatra.</td>
<td>71 160</td>
<td>none</td>
</tr>
<tr>
<td>Hymen.</td>
<td>71 160</td>
<td>none</td>
</tr>
<tr>
<td>Squirrel.</td>
<td>32 80</td>
<td>none</td>
</tr>
<tr>
<td>Soda.</td>
<td>15·5 60</td>
<td>570</td>
</tr>
<tr>
<td>Banff Springs—</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Hot.</td>
<td>46 115</td>
<td>2340</td>
</tr>
<tr>
<td>Cave.</td>
<td>29·5 85</td>
<td>2850</td>
</tr>
<tr>
<td>Basin.</td>
<td>34·5 94</td>
<td>2370</td>
</tr>
<tr>
<td>Middle.</td>
<td>33·5 92</td>
<td>1910</td>
</tr>
</tbody>
</table>
"The waters are not so strongly radioactive as the famous Bath springs in England which were the subject of examination by the late Sir William Ramsay, although they closely resemble them in other respects.

THE RESEMBLANCE BETWEEN THE BANFF AND THE BATH HOT SPRINGS.

"The most interesting comparison is to be made between the Banff waters and the hot springs at Bath in England, the famous spa that dates its foundation from the Roman occupation of Britain.

"In recent years the springs have been the subject of examination by several prominent scientists, especially by the late Sir William Ramsay, who directed attention to their radioactive properties, and to their value on that account. They were shown to be the richest in radium and radium emanation of any spring in Great Britain, and no expense has been spared in developing the springs to the fullest extent that they might successfully compete with the continental spas.

"There are three springs at Bath, all of similar composition. The temperature of the hottest is 120° F., just slightly higher than that of the Upper Hot spring at Banff. A comparison of the constituents of the waters reveals the similarity between the springs, the chief substances present in both waters being calcium salts. Slightly more sodium and iron exist in the Bath waters, and the concentration of all the constituents is a little greater than in all the Banff waters save the Basin spring.

"The gases evolved from the Bath springs have been investigated by Prof. Sir James Dewar, who demonstrated the presence of helium, argon, krypton, and xenon, the rare gases of the atmosphere in them, and later by Sir William Ramsay, who showed their high radioactivity. The composition of the Banff gases is almost identical. Therefore all that applies to the thermal waters of Bath is equally true of the Banff waters. The complete analysis of the gases from the Basin, the Cave and the middle springs is given below together with an analysis of the gas from the Kings Well, Bath, England.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Methane</td>
<td>0.15</td>
<td>0.11</td>
<td>0.19</td>
<td></td>
</tr>
<tr>
<td>Hydrogen</td>
<td>0.97</td>
<td>0.99</td>
<td>0.94</td>
<td></td>
</tr>
<tr>
<td>Oxygen</td>
<td>0.81</td>
<td>0.45</td>
<td>0.50</td>
<td></td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>1.18</td>
<td>1.11</td>
<td>1.34</td>
<td>3.60</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>97.79</td>
<td>98.24</td>
<td>96.68</td>
<td>95.45</td>
</tr>
<tr>
<td>Argon and Helium</td>
<td></td>
<td></td>
<td>1.25</td>
<td>0.95</td>
</tr>
</tbody>
</table>
APPENDIX No. 3.

REPORT OF THE SUPERINTENDENT OF YOHO AND GLACIER PARKS.

YOHO PARK.

Following along the lines of the policy laid down by the department, nearly all work undertaken this year was either maintenance or repairs, practically all new construction work being set aside until the termination of the war in which the country is at present engaged, the only exception to this policy in Yoho park being in the case of alien labour, which was employed in the construction of a new piece of road, which when completed will connect the Ottertail road with the Natural-Bridge road, and thus make a most attractive circular drive from Field.

Tourist traffic last season started out with every indication of fully equaling, if not exceeding, that of the previous season, which was probably the largest on record, and these expectations would most probably have been realized had it not been for the threatened railway strike in the United States at the end of August, which, owing to the uncertainty of travel, caused thousands of bookings to be cancelled, and the tourist travel gradually fell away from that time on to the end of the season. The majority of our visitors this year were from the United States, and the general tendency seemed to be for them to spend a longer period of time at the different points of interest than heretofore.

In the month of July we were honoured by a visit from Their Royal Highnesses the Duke and Duchess of Connaught and party, who made the drive up the celebrated Yoho road to Takakkaw falls.

Dr. C. D. Walcott, of the Smithsonian Institute, Washington, spent some six weeks in the park, accompanied by Mrs. Walcott, and during the course of their stay discovered a new fossil bed in the vicinity of Hector, which may prove of great geological value.

Mr. Sargent, the celebrated landscape painter, was also amongst our visitors, and spent some weeks in the park painting, both up the Yoho valley and also at lake O'Hara. Other distinguished visitors included the Minister of the Interior and the Premier of British Columbia.

In the spring of the year the first work undertaken was the usual cleaning up around and in the townsite of Field, when such streets as required it were gravelled, ditches cleaned out, sidewalks and culverts repaired, etc. A wire fence was erected around the Government lot on which the superintendent's house stands, and a Page wire fence was also put up enclosing the cemetery grounds. The road to the nuisance ground was gone over and ditched, in order to carry off the water and make it passable in the early spring, and thus facilitate the carrying away of the town garbage as soon as possible.

Due to the lateness of the season, it was about the middle of May before the snow was sufficiently melted to enable us to open up our roads for the summer travel. On the Emerald lake road two sectionmen were placed, who remained on this road for about four months and were able to keep the road up to its usual standard of excellence, the distance being seven miles.

On the Ottertail and Yoho roads a considerable amount of repair work was done, and both roads were put in good condition. During the month of June we were unfortunate in having a very severe flood, caused by a cloud burst, following three excessively hot days, which caused nearly every creek and river to rise very rapidly, and in a number of cases to overflow or burst their banks. Large quantities of sand
and gravel were brought down from the mountains, bridges were undermined, and in some cases were completely washed away, thus causing a lot of extra repair work on nearly every road and trail in the park. The bridge over the Kicking Horse river at Leanchoil, which was a very old one, was nearly all carried away, and the bridge on the road to the cemetery at the back of the Field townsite was completely taken out, and the approaches to a number of other bridges were also damaged.

The road gang successfully repaired all this damage on the Yoho road, as well as all other repairs of a heavy nature, after which two sectionmen were also placed on this road, who did all necessary repairs during the balance of the season.

<table>
<thead>
<tr>
<th>Roads in Yoho Park</th>
<th>Approximate Mileage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yoho road</td>
<td>11 miles</td>
</tr>
<tr>
<td>Emerald Lake road</td>
<td>7</td>
</tr>
<tr>
<td>Emerald Lake via Natural bridge—extra mileage</td>
<td>2</td>
</tr>
<tr>
<td>Hector road</td>
<td>5</td>
</tr>
<tr>
<td>Ottertail road</td>
<td>6%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>31%</strong></td>
</tr>
</tbody>
</table>

During the month of July a small trail gang was started out to do necessary repairs on the Ice river, Beaverfoot, Leanchoil, and a section of the Ottertail trails. Most of this work also was rendered necessary by the floods during June, which in one or two instances had washed away whole sections of trail in places where the trail followed closely to the river bank. In these places new trail was constructed on higher ground wherever possible. We now have considerably over 100 miles of good trails in the Yoho park, the principal trails being:

<table>
<thead>
<tr>
<th>Approximate Mileage</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 1. Beaverfoot trail...</td>
</tr>
<tr>
<td>No. 2. Ice River trail...</td>
</tr>
<tr>
<td>No. 3. Leanchoil trail...</td>
</tr>
<tr>
<td>No. 4. Deer Lodge trail...</td>
</tr>
<tr>
<td>No. 5. Ottertail trail...</td>
</tr>
<tr>
<td>No. 6. McArthur Creek trail...</td>
</tr>
<tr>
<td>No. 7. Lake O'Hara trail...</td>
</tr>
<tr>
<td>No. 8. Stephen trail...</td>
</tr>
<tr>
<td>No. 9. Sherbrooke trail...</td>
</tr>
<tr>
<td>No. 10. Twin Falls trail...</td>
</tr>
<tr>
<td>No. 11. Yoho Glacier trail...</td>
</tr>
<tr>
<td>No. 12. Whaleback trail...</td>
</tr>
<tr>
<td>No. 13. Little Yoho trail (return)</td>
</tr>
<tr>
<td>No. 14. Upper Twin Falls trail...</td>
</tr>
<tr>
<td>No. 15. Burgess Pass trail...</td>
</tr>
<tr>
<td>No. 16. Summit Lake trail...</td>
</tr>
<tr>
<td>No. 17. Fossil Bed trail...</td>
</tr>
<tr>
<td>No. 18. Amiskw trail...</td>
</tr>
<tr>
<td>No. 19. Kicking Horse trail...</td>
</tr>
<tr>
<td>No. 20. Emerald trail...</td>
</tr>
<tr>
<td>No. 21. Otterhead trail...</td>
</tr>
<tr>
<td>No. 22. Wapta Falls trail...</td>
</tr>
<tr>
<td><strong>Total</strong></td>
</tr>
</tbody>
</table>

These trails are all patrolled by our staff of wardens, and during the summer months, outside of some special repairs, are cleaned out and kept in condition by them. I am pleased to be able to report that we did not have to make any expenditure this year in any park under my direction on account of forest fires except the salaries of the wardens, who also accomplished quite a lot of other work in addition to their patrol duties. This was particularly gratifying at such a time as this when expenditure for such a purpose could so ill be spared and can be largely attributed, I consider, to the entire absence of the hobo element tramping through the park on the right-of-way, which in past years was one of our principal sources of danger, due to the careless
manner in which they left their camp fires. Another link in our fire protection scheme was completed this year, viz.: the completion of a telephone line from the superintendent's office at Field to the warden's cabin at Takakkaw falls, a distance of eleven miles following the Yoho road. This I hope will prove to be the beginning of a system which will ultimately connect up all parts of the park with the central office, thereby facilitating the speedy reporting of all fires, and making it possible to get assistance on the ground before the fire has got too firm a hold, as well as being of the utmost assistance to the superintendent, in enabling him to keep in touch with all work going on in the park under his direction.

An addition was made this year to our wardens' equipment by the purchase of three serviceable ponies.

At the internment camp for alien enemies, which was installed in the park near the mouth of the Otterhead river late in the fall of 1915, very good results were obtained during the first part of the season. The right-of-way was cleared along the new Ottertail-Natural bridge road, from a point near the Ottertail high bridge on the old grade to the new crossing over the Kicking Horse river, a distance of four miles. This piece was also grubbed and burned by them.

Two large truss bridges were constructed, one over the Kicking Horse river, total length 200 feet, and one over the Ottertail river, total length 112 1/2 feet, both of which were erected in a most creditable manner, as was also a smaller bridge over Boulder creek.

In November we commenced the erection of a new tool-house and wagon-shed which we were badly in need of. The building is a two-storey log building 24 feet by 30 feet inside measurement, and will be able to meet our requirements in this way for some years to come.

GLACIER PARK.

In this park it was the 1st of June before I was able to take any steps towards opening up the various roads and trails for the summer's traffic. The mantle of snow covering the ground had been heavier than usual the previous winter, and when it is stated that the average snowfall for the last ten years is 38 feet at Glacier station, it will be readily understood that considerable sunshine is required before the earth makes its appearance again.

Three wardens were placed on duty on June 1. They at once started to clean out the trails in their different districts, and about the middle of the month two sectionmen were placed on the road to the Nakimu caves to clear out the numerous snow and mud slides with which it was blocked.

On June 14, Mr. C. H. Deutschmann, the discoverer of the Nakimu caves, who is employed by the department as caretaker, opened them for the season, and at once began the construction of an entrance into the lower and larger caves, which have heretofore been almost inaccessible, but of which a survey had been made by Mr. C. D. Finnie, Inspecting Engineer of Mines for the Department of the Interior.

A tunnel was driven in for a distance of 25 feet, when a good connection was effected. This entrance was protected by a shed, roofed with corrugated, galvanized iron, which is to serve the double purpose of protecting the entrance from falling rocks and snow, and also as a workshop in connection with the work which we hope to do this year, as before the general public can be allowed in this part of the caves with safety certain protection work will have to be done in the way of erecting hand rails, stepladders, etc. From the new entrance a good trail was also constructed to connect with the main trail leading to the upper caves, a distance of about 1,600 feet.

Great credit is due to Mr. Deutschmann for the able manner in which this work was carried out, and which was completed at a cost considerably under the engineer's estimate.
The new Connaught tunnel under Mount Macdonald was officially opened by His Royal Highness the Duke of Connaught in July, when the royal party were taken through the tunnel in a car drawn by a compressed air engine; and on January 8 the tunnel was opened for general use to the public, since when the old line over Roger's pass has been abandoned. The tunnel just completed is the longest on the North American continent, being slightly over five miles in length, the whole distance being double tracked. It eliminates about four miles of snow sheds and reduces the grade by a considerable amount, besides cutting down the distance over the summit of the Selkirk range by about four miles.

A new depot is now under construction at the western end of the tunnel. It is a log building, and will be quite in keeping with the local surroundings. A wagon road has also been constructed from the new depot to a point on the old railroad grade, to connect with the Glacier hotel, which will now be about one mile and a quarter from the station.

At the east portal of the tunnel the work of cleaning up the townsite leased by the railway company from this department is almost completed, but owing to the late date at which the townsite at the western end was vacated, the cleaning up of this area cannot be done until the snow has melted.

The Dominion Parks inspectors who have been resident at these townsites for the purpose of protecting the parks interests were relieved of their duties at the end of January, when both townsites were vacated by the contractors, the supervision of the cleaning up being left to Glacier Park Inspector Williamson.

E. N. RUSSELL.

Approximate Mileage of Trails and Roads in Glacier Park.

<table>
<thead>
<tr>
<th>No.</th>
<th>Trail Description</th>
<th>Mileage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Nakimu Caves trail</td>
<td>1 1/2</td>
</tr>
<tr>
<td>2</td>
<td>Great Glacier trail (return)</td>
<td>4</td>
</tr>
<tr>
<td>3</td>
<td>Sir Donald trail</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>Asulkan trail</td>
<td>6</td>
</tr>
<tr>
<td>5</td>
<td>Mount Abbott trail</td>
<td>6</td>
</tr>
<tr>
<td>6</td>
<td>Lookout trail</td>
<td>5 1/2</td>
</tr>
<tr>
<td>7</td>
<td>Rogers Pass trail</td>
<td>4</td>
</tr>
<tr>
<td>8</td>
<td>Baloo Pass trail</td>
<td>5</td>
</tr>
<tr>
<td>9</td>
<td>Beaver River trail</td>
<td>15</td>
</tr>
<tr>
<td>10</td>
<td>Flat Creek trail</td>
<td>17</td>
</tr>
<tr>
<td>11</td>
<td>Illecillewaet trail</td>
<td>7</td>
</tr>
<tr>
<td>12</td>
<td>Caribou trail</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>76 1/2</strong></td>
</tr>
</tbody>
</table>

Nakimu Caves road: 7
APPENDIX No. 4.

REPORT OF THE ACTING SUPERINTENDENT OF REVELSTOKO PARK.

Due to the enlistment of Superintendent F. E. Maunder in the Canadian Expeditionary Force, at the end of the last fiscal year I was instructed by the commissioner to take over the management of this park for the time being, in addition to my regular duties as superintendent of the Yoho and Glacier Parks, and in order that I might be able to handle this extra amount of work, an office clerk was supplied to assist me with these extra duties.

As soon as possible I, therefore, went to Revelstoke to take up a number of details in connection with the season’s work. In company with the foreman I inspected the motor road as far as completed, and we decided on what repairs it was necessary to make; these were mostly in the way of cleaning out the side ditches which had become clogged, and removing rock or mud slides which had come down over the road. The books, files and papers relating to the park I had packed up and sent to my office at Field, from which I have since handled the park’s affairs. Before leaving I also instructed the foreman to have a complete inventory taken of all equipment and material belonging to the park. This inventory was completed in a few days, and from it I was able to see that our requirements in the way of new tools would be very small, the principal outlay that would be necessary in this way being for dynamite, of which a considerable quantity would be needed, owing to the heavy percentage of rock work on the next few miles of the motor road on which it proposed to continue construction.

On June 13, foreman Wm. Fleming started with a gang of about thirty men to repair the portion of the road already built. Camp was pitched at the site of the old internment camp, at which place it remained until the closing down of the work in October. This was more a matter of necessity than choice, and towards the latter part of the season it made quite a long walk for the men to and from their work, but was quite unavoidable on account of their being no possible camping ground higher up where water was obtainable. The country is mostly of a rugged nature, with steep sideshills, and camping grounds, that are suitable, are therefore somewhat scarce. It was not necessary, however, for the men to have to walk all this distance by the road as on account of its winding nature, they were able to cut through the bush by trail and thus save going around by the switchbacks.

At the site of the old internment camp it was necessary to spend quite a little time cleaning up. The military authorities had vacated this camp during mid winter, when the depth of snow on the ground rendered any attempt at cleaning up almost futile. All buildings were swept out, rubbish was all collected, and either burned or buried, and the camp generally given a more neat appearance. This work and all repairs on the road up to station 427 were completed by the end of the month.

From station 427 on to station 500, had been partially completed by alien labour the season before; but practically all the solid rock work remained to be done as well as the ditching and finishing, but by the end of July this section was fully completed and provision was made for a turning point for motor cars at McDonald’s bluff which is situated almost at station 500.

From here on the grading was steadily pushed ahead and by the end of October when work for the season closed down, the road was fully completed to within a few yards of Bridge creek, which is at Station 578.
The latter portion of the work was probably some of the heaviest on the whole road particularly near Bridge creek where it was necessary to move a large amount of solid rock but all the work done should be of a fairly permanent kind owing to the nature of the soil which is a sort of cemented gravel intermixed with solid rock and, when once well packed down, forms a road bed that will not easily wear or wash away.

Toward the latter portion of the season we experienced considerable trouble in getting sufficient men, and we were not able to keep our force of men up to the number I should have liked; this of course was largely due to enlistments. Revelstoke and the surrounding district have given to the country of their best, with the result that labour for home work is naturally very scarce, and that which is obtainable is probably a little below the average in efficiency, compared with other years.

On July 28, the Governor General and suite while on their way east, stopped off at Revelstoke for a few hours, and during this time a trip was arranged for the Royal party by the Revelstoke Board of Trade. The route chosen was via the motor road in the park, up Mount Revelstoke. Motor cars were waiting at the station and on the arrival of the special train, after a few introductions, the party started up the hill which in honour of the occasion was patrolled by the boy scouts of Revelstoke, who were stationed every hundred yards or so throughout its entire length.

The cars all drove direct to the end of the road, as far as it was at that time completed, which at that time was station 500, or McDonald’s bluff. At this point the party alighted, and the Duke kindly consented to plant a post with a suitable inscription on it, in commemoration of his visit. It was explained that this post was to be later superseded by a more permanent structure. On the completion of this short ceremony, the party again took their seats in the cars and were driven to the road camp, where they were met by our foreman and time-keeper, who invited the party to partake of afternoon tea which had been prepared for them. A pleasant half-hour was spent in this way, when the cars again conveyed everyone to the railway station, and shortly afterwards the Royal special resumed its journey east. The picking out of this drive by the people of Revelstoke on this occasion demonstrates clearly the manner in which they appreciate the development work which this department is undertaking in the Revelstoke park. There are a number of beautiful scenic drives around Revelstoke, but of them all the one we have under construction in the park is conceded to have no equal, and I trust that by the end of next year we may have this road finished to the top of the mountain, which will open up a large country the possibilities of which for public recreation are enormous.

From figures obtained from the various livery interests in Revelstoke, it is estimated that about 300 persons went up this road in hired cars during last summer, a number probably greater than this went up in local private cars, in addition to those who walked up of whom there were quite a few.

The question of the extension of the southern boundary of the park was taken up, as it was considered advisable for the park area to come as close as possible to the townsitc of Revelstoke, and also for it to include all of the road up the mountain. Both the Chief Superintendent and myself went into the matter fully with the Board of Trade and the city council, both of which bodies were strongly in favour of such an extension, and pledged themselves to assist the department in every way possible. Definite recommendations were made along these lines by the chief superintendent in his report, the area agreed upon to be included, taking in all Crown land lying between the present south boundary of the park and the city limits. Unfortunately there are several homesteads which have been taken up near the city, which prevent us extending the park boundary to adjoin the city, but of these several of the owners have made application to have their land included in the park. I trust that this question will be settled at an early date in order to facilitate the enforcement of the park regulations.

Winter sports in Revelstoke are now becoming an annual event, and under the able management of the Revelstoke Ski Club, attracted more attention, and were a big-
ger success than ever this year. The Club grounds, which lie immediately adjacent to the park boundary, possess, I believe, one of the finest Ski jumps in the world, and at the annual carnival this year, both the champion ski jumper of the world, and also the amateur champion of Canada were competitors in their numerous events. Large crowds came to see the carnival, which lasted for two days. The weather unfortunately was rather too soft for good jumping, but even with these conditions a jump of 160 feet was made, which is eleven feet further than the previous longest jump made by any amateur in Canada. The club, realizing the advantages and possibilities of the park, are, I understand, seriously considering making an application to have their ground included within the new extension to the park.

In conclusion I would like to thank the citizens of Revelstoke for the courtesy and assistance which they have at all times been so willing to render to me while temporarily discharging the duties of superintendent of this park.

E. N. RUSSELL.
APPENDIX No. 5.

REPORT OF THE SUPERINTENDENT OF WATERTON LAKES PARK.

I am very glad to be able to report a very successful year in this park, both as regards the increase in the number of visitors and the development work undertaken. In the face of the absolute necessity of practising the strictest economy as regards all expenditure during the war, I consider the amount and nature of work allowed and accomplished during the year very satisfactory.

The weather last season was very good, and this, together with the improved condition of the roads and the natural attractions of the park, which are becoming more widely known, accounts for the gratifying increase in the number of visitors and the greater interest shown in the park, which is being more widely recognized as an unequalled place in which to spend a most interesting and enjoyable vacation.

I regret to have to report the death of two of our wardens, viz., John George Brown, and Lieut. George Knight.

John George Brown, more commonly known as "Kootenai" Brown, died on July 18, after a short illness, at his home in the park. The late Mr. Brown was the first settler in this locality. He was the first ranger in charge of the park, and, in fact, the existence of the park is largely due to his efforts to have protection afforded the game, as he realized that with the number of settlers in the country increasing its destruction was certain.

Lieut. George Knight was killed in action in France last summer. Up to the time of his enlistment he was engaged in the park as fire and game warden. He was very popular with every one and most faithful in the discharge of his duties.

ROADS.

With the exception of a short distance from the east boundary of the park to Crooked creek, no new roads were constructed during the year; along this route a new grade was built. This grade connects with a turnpike road graded last summer by the provincial government from Cardston to the park, and, owing to its construction, where it was formerly practically impossible to travel in wet weather, the automobiles can now come to the park from Lethbridge, Macleod, Cardston, and other eastern points. There is still some grading to be done on the road after it enters the park, but the work already accomplished has improved it to a large extent, and I hope to be able to complete the remaining part in the coming year. We should then have a first-class automobile road through the park from the east. All that portion of the road from Crooked creek to the resort, not graded, was gone over and put in as good condition as possible without incurring too much expense.

The wagon road up Pass creek and over the Summit to Oil City was cleared of stumps and rocks, and in some places diverted to lessen the grade. Where some slides had occurred a new roadbed was built, and this road is now in good shape, although a bridge over Pass creek is urgently required. This road leads into one of the most beautiful valleys of the park, and is very popular with tourists as a camping place and means of access to lake Bertha and other lakes which provide good fishing.

Although the road mentioned above is now passable and in fair shape, by following the route it does it has to cross the summit, and naturally the grades are very steep in some places. A more direct and level road could be put in from the resort
to this part of the park by following up Oil creek. This would shorten the distance about seven miles and make a much better road to travel over.

The main road from the north, which connects with the road from Pincher creek, was raked and picked over to the park line, a distance of about 7 miles. This work was badly needed and made a great improvement to the road.

The road leading from Lot 10, in Block 7, to Lot 1, in Block 3, in the townsite, along the base of the mountain was also gone over, rocks picked out, raked, and the grade cut down in places. This is a beautiful stretch of road through the trees and all it now requires is widening in places where there are sharp turns in order thereby to lessen the danger of accidents.

TRAILS.

A good deal of work was undertaken in connection with the extension of some of our trails and the construction of others.

A new trail was built up Stoney creek and through the Crooked creek basin to Belly River station, a distance of about 7 miles. This trail is partly through heavy timber and partly open country and now allows one to take a direct route from the lakes to this point, a saving of some 6 or 7 miles over the old route.

The trail from Cottonwood creek through the Horseshoe and over the summit to Yarrow Creek station was completed, a distance of 8 miles beyond where the trail was built the year before. The section of the country through which this trail leads was formerly impassable. It also makes a direct route from headquarters to the Yarrow station, a saving of many miles over the old route around Pine ridge.

Some work was done on the Boundary trail such as clearing, etc. Further work is necessary on this trail on account of its being used to a greater extent each year as the number of tourists from the Glacier National park to the south of us increases.

The trail to Oil City, which follows up Oil creek, was cleared and widened and some grading done.

Some work was also performed on the trail leading from the Belly river cabin to the United States boundary.

The last three mentioned trails are constantly in use during the summer and it is therefore necessary that they be kept in good shape.

PARK BUILDINGS.

A new cabin was erected at the Waterton bridge for the use of the warden stationed at this point. This cabin is located at a very important point, at the end of the above bridge where everyone coming from the east must enter the park. The building is of upright poles and cottage roof and when fenced, etc., will be very attractive.

A blacksmith shop and granary were also erected at the headquarters. Both these buildings have filled a long felt want in the park.

Bridges.

The old bridge across Cameron creek below the falls was washed out early in the spring and a new bridge built along firmer and more attractive lines.

A small bridge was built over Crooked creek where the new graded road crosses.

Some work was done on the bridge over the Waterton river in order to strengthen the same.

OTHER DEVELOPMENT WORK.

Some two and one-half miles of first-class fence was erected. This fence encloses a large area of good grazing land where it is proposed to have the tourists and visitors keep their horses while camping or visiting the park. Heretofore the absence of such provision has been the cause of considerable inconvenience and I am sure it will be greatly appreciated.
Twenty acres of land were broken and oats and timothy planted but owing to its being so late before the crop was put in, it was not a success. A larger area will be seeded this year and earlier. The raising of our own feed will mean a large saving to the department.

**FIRE AND GAME PROTECTION.**

Big game of all kinds is very numerous in the parks. Considerable trouble has been experienced during the past winter with wolves and coyotes which have been a serious menace, particularly to the deer. Strenuous steps are to be taken forthwith to cope with this pest. Bears, which are rapidly increasing in numbers and becoming more of a nuisance, caused some trouble last fall. Owing to the continued protection, the deer especially are coming lower down and early in the season may quite often be seen around the buildings and in large numbers.

There were two infringements of the park regulations governing the killing of deer. Convictions were secured in both instances. Some other minor infringements of the regulations were reported and convictions secured in each case.

I am very glad to report that no damage whatever was done by fire in the park during the year. One small fire was discovered on the open prairie and extinguished by one of the wardens before it had gone any distance.

**RECREATION.**

In addition to the different means of outdoor recreation here, such as boating, fishing, riding, etc., we completed last summer two tennis courts and a baseball ground for the use of the public. The tennis courts were not completed in time to be of use but the baseball ground was taken advantage of and evidently appreciated, some very spirited games having been played.

The fishing is all that can be desired, not only in the different creeks and smaller lakes, but the big lake trout are very plentiful in the main lakes and some excellent catches were made.

Quite a number of parties enjoyed exciting climbs to the summits of some of the rugged and picturesque peaks in the park. One party after two days climbing, succeeded in attaining the summit of mount Cleveland to the south, the altitude of which is 10,500 feet.

Large numbers of tourists spent a few days in the park travelling through from the Glacier National park and one and all were loud in their praises of the beauties of the Waterton Lakes park.

Work has been commenced on a number of summer cottages and many inquiries received with regard to lots both for residential and business purposes. Quite a large number of the lots in the townsite were disposed of and the plans of the proposed buildings thereon are of a good type, mostly of a rustic nature so as to conform to the surroundings.

Along the boulevards the undergrowth and stumps were all cleared and the property made much more attractive. A number of rustic seats were built along the shore of the bay.

We had a considerable increase over former years in the number of visitors, over 4,000 coming to the park last season. As we are some 35 miles from a railroad and the season is quite short, I think this is an excellent showing and proves that this park will become famous as a summer resort and each year will see greater numbers of people taking advantage of its different attractions.

ROBERT COOPER.
APPENDIX No. 6.

REPORT OF THE ACTING SUPERINTENDENT OF JASPER PARK.

The outstanding improvement being carried on in Jasper park this year is the construction of a 14-mile carriage drive to mount Edith Cavell, a beautiful snow-clad mountain about 11,000 feet high chosen to commemorate the martyrdom of the noble nurse executed by the Germans in Belgium. This striking peak, notwithstanding its beauty, had remained unnamed, awaiting, it would seem, the honour that was to fall upon it.

The drive to this mountain will be a source of pleasure to all who pass over it. Starting from Jasper, it crosses the Miette river at a distance of a mile, where the latter joins the Athabaska. For some distance it follows the western bank of the Athabaska, taking in all its sinuosities and affording a number of strikingly beautiful views of riverscape and surrounding mountains. Four mountain streams are crossed on the way. As the road winds up the steep hillside to the foot of the mountain and unexpectedly reveals the beautiful jade-coloured lake at its base, one realizes the special delights reserved here for those fortunate enough to visit the district. The bridges on this drive span the Miette, Whistler, Boulder, and Cavell rivers, and are respectively 100 feet, 40 feet, 300 feet, and 60 feet long; the last spanning a canyon some 50 feet deep. These bridges are all constructed of timber taken on the ground, and are of a rustic design suitable to the surroundings.

Following out the policy of the department, a chalet will be built at the foot of mount Edith Cavell on completion of the drive, probably some time next summer, which will give visitors an opportunity of remaining there a few days exploring the many singular features in that vicinity, and the abundant growth of mountain flowers, masses of red and white heather, forget-me-nots, moss campion and Indian paintbrush in every shade from bronze to crimson.

SULPHUR SPRINGS.

Notwithstanding that the vicinity of the Miette Sulphur Springs has not yet been put in shape for those wishing to avail themselves of its curative waters, more than forty people were camped there at one time during the past summer, putting up with the hardships for the sake of the benefit to be derived.

FISHING.

Fishing is a feature of interest to nearly all visitors. Any true sportsman who visited this park last season and participated in this sport had no cause for complaint. The deeper lakes like Pyramid, Jack and others furnished their quota of 2-, 3- and 4-pound lake trout. The smaller streams and shallow lakes did well in the way of providing a good supply of that gamey little fighter, the rainbow trout, and the rivers, when they had become clear, a number of the Dolly Varden trout.

GAME.

It is a noticeable fact that the game animals are becoming quite tame in this park, and the beaver so plentiful that rabid utilitarians speak of them as a nuisance not recognizing the pleasure the sight of these little animals at work gives to those who have never seen beavers and considered them extinct.

Mountain sheep are to be seen from the train, and herds of deer gaze timidly at one when driving within a few miles of Jasper.
Visitors.

Visitors to the park during the past year were for the most part from the large cities of Canada and the United States, and considering the unsettled weather and the great drawback of not having an hotel, were fairly numerous and well satisfied with their visit.

It is greatly to be regretted, however, that the anticipated erection of the hotel has not as yet materialized, due no doubt, to the strain of the war. The present hotel situation, however, is being looked after by the “Tented City” conducted under the auspices of the Grand Trunk Pacific railway, at a point on the shores of Lac Beau Vert, a beautiful spot much appreciated by lovers of nature, where the tourist can boat, fish, ride, drive and climb. The tourist of means demands his well appointed hotel and it is to be hoped that ere long the erection of one which will meet the needs of this class of visitor may be possible.

Hunting.

Many hunting parties were outfitted in Jasper during the early spring and late fall of last year for hunting trips outside the park, and returned well satisfied with the trophies secured, including mountain sheep and goat-heads, grizzly-bear skins, etc., and the resident guides have already been retained for further trips this coming spring.

Fires.

Owing to the care exercised and assisted by a wet summer, only a few fires occurred. They were of an incipient character and easily put out. These fires, however, were all started by coal burning locomotives, and our good fortune of last year does not convey any security for the future, or guarantee that a disastrous fire may not occur at any time. If the railways could be compelled to use only oil as fuel for their locomotives this danger would be greatly diminished.

Telephones.

The telephone system is a feature of this park, giving much greater results than its outlay would indicate. An addition of thirty miles has been built during the past season, and the service is now extended in many directions; even to the “lookouts” on mountain tops from which a fire can be seen from a great distance away in every direction. Being of a comparatively primitive type, with trees used as poles in many places, a patrol is necessary to keep it in repair. Its installation has been amply justified, if only for the protection it has afforded against forest fires.

Aliens.

During the year about 200 aliens were interned at Jasper. They were brought from Brandon, as it was thought that the cost of their internment could be largely offset by their employment on roads and other necessary work within the park. Owing to the labour stringency and to the fact that these interns were Austrians, not Germans, and had given evidence of their good behaviour, they were subsequently released on parole to work for the railways and in the coal mines. They were under the surveillance of the Royal Northwest Mounted Police, and there appears to be no reason up to the present to regret their release.

In closing this report, and in contemplation of another summer of war before us, I beg to assure you that this park will endeavour to keep in mind the matter of economy which you have brought before us, and also the employment of returned soldiers wherever possible, as has been done during the past year.

A. DRISCOE.
APPENDIX No. 7.

REPORT OF THE SUPERINTENDENT OF BUFFALO PARK.

Wainwright, Alta., March 31, 1917.

The land under crop this year consisted of 400 acres at the south end and 30 acres at the north end, the latter being cut for green feed for the animals in the home paddock. Part of this land had been prepared the previous fall. As soon as seeding operations were over we began work on the fireguards; part of these were gone over with discs, but all the guards around and across winter quarters and the farm were ploughed, and it is my intention to plough all the fireguards during the coming year. During the past year there have been several fires just outside the park boundary, but only one occurred inside; this was caused by lightning. It was discovered by one of the wardens shortly after it started; he immediately gave the alarm, and after several hours' fighting we succeeded in putting it out before any serious damage was done.

When we had finished work on the fireguards we began ploughing summer-fallow, and 200 acres were turned over. I might mention in connection with our farming operations that of the 600 acres that have been broken for crop we are summer-fallowing one-third each year. Owing to the season being so wet, we experienced considerable difficulty in getting the necessary amount of hay put up. However, we succeeded in putting up some 225 tons of good upland hay in the vicinity of Jamieson lake, to be used at the north end, and although we were unable to get on to the meadow at the south end, we managed, by cutting along the edges, to get about 220 tons.

Our crop suffered from both the hail and frost that struck our district last year, but we were more fortunate than many others, for after leaving a portion for green feed we had 14,017 bushels of oats threshed, and while the quality was not quite up to the grade of the previous year's crop yet they are a splendid grade of feed oats.

In connection with the farming operations carried on in Buffalo park, I wish to point out that in addition to the quantity of oats required for our own use we have supplied the requirements of the various Dominion Parks, and also those of the Forestry Branch and the Topographical Surveys Branch in both Alberta and Saskatchewan, in all 19,530 bushels were shipped during the year.

The main fence was found to be badly in need of repair and on the 15th of July a gang of men was started at this work. We began with the fence surrounding the home paddock enclosure, then moved to the west side, beginning two miles south of the Rocky Ford, we worked north, east and south on the main fence to winter quarters. In all about 2,500 new posts were put in and any of the old posts that were found suitable were reset.

In addition to repairing the main fence considerable new fence was erected. At the northwest corner of the park the main fence was moved and about 1½ miles of new fence constructed. This was done to permit the building of a suitable road around the outside of the park for the accommodation of the settlers living on the west side who heretofore were obliged to use the trails across the park when coming to town, which was unsatisfactory to them and a source of worry to the officers of the park owing to the uncertainty of the gates being closed properly.

In the home paddock the low fence separating the horse pasture was replaced by a 7-foot fence, this being necessary to prohibit the buffalo from getting in among the horses.
Another piece of new fence was erected from the southeast corner of the small park in an easterly direction to the main fence, a distance of about 1&frac14; miles. This was for the purpose of completely fencing off Mott lake, as it has been decided to have a summer resort at this lake. With this object in view, 60 lots were surveyed last fall, all of which are fronting the lake and are located at the most convenient and prettiest part of it. The opening of this resort during the coming summer will certainly be appreciated by the people of this district.

The trees and shrubs around the superintendent's quarters are doing very well, but just as soon as conditions will permit I should like to see some improvements made to these grounds, also some repairs made to roads, especially those used by visitors to the park.

Our telephone line has given splendid satisfaction during the year, and has been of great assistance during the season of danger from fire, and I hope to see the line extended to the west side of the park during the coming year.

I am pleased to report that our horses have come through the year's work in splendid shape. It is unfortunate that there were no colts this year, but all the mares have been bred and while we cannot hope for as good success as if we had a horse of our own yet we are in hopes of having a good bunch of young stock next year.

WILD ANIMALS.

There was an increase of 356 buffalo during the year. The decrease was small considering the size of the herd. I am pleased to report that they have stood the long cold winter well and are in exceptionally good shape. It has been remarked by many that the herd has never looked better than during this past winter, reflecting great credit on those directly in charge of the feeding of the animals. The young stock of the present give us every reason to believe that the future herd of buffalo will be made up of a much better type of animal than many of the original herd.

The elk have done exceptionally well this year—the natural increase has been 17. It is certainly a grand sight to see such a splendid herd of elk.

There has been no increase in moose this year, but the herd seems to be doing nicely. One young female was shipped in during the year and she has done very well.

The three male antelope are the picture of health; two of these are in the home paddock and the other one is in winter quarters. This one is always found in company with a couple of old buffalo bulls; they, no doubt, protect him from the coyotes.

The mule deer seem to be increasing rapidly. We have not got an accurate count of these but it is a common sight to see 25 in a bunch, sometimes more, and I am of the opinion that if the number were known there would be over 300.

During the winter 20 head of cattalo were brought in here by the Department of Agriculture. These are rather an interesting animal, having the appearance of both the buffalo and the domestic cow. I am pleased to report all of these are in good condition and appear quite contented in their new quarters.

The animals in Buffalo park at the present time are as follows:

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<th>Animal</th>
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Buffalo park is not only an animal preserve, but the feathered game also realize the protection afforded them. The numerous lakes and ponds are the home of the wild
geese and duck, while prairie chicken and many kinds of birds are to be found within
the limits of the park.

The total number of visitors during the year was 1,206. This number was not as
great as during some of the previous years, due, no doubt, to the falling off in the
tourist traffic.

In conclusion I wish to thank the officials of the park for the support they have
given me throughout the year, also to express my appreciation of the assistance
afforded me by yourself and other officers of the Parks Branch.

A. G. SMITH.
APPENDIX No. 8.

REPORT OF THE SUPERINTENDENT OF ELK ISLAND PARK.

Only the most necessary work was undertaken during the year owing to war conditions. We had 4,000 fence posts shipped to Lamont from Jasper park. These I had hauled and distributed along the park fence in preparation for replacing the old posts. In the spring to insure a longer life to the posts, I had them peeled and treated with antiseptine, and as soon as the frost was out of the ground the work of setting them in the fence was commenced. This work was done on the northwest and south sides. These were not finished, with the exception, of the deep sloughs, the water being too deep in summer and the early winter setting in with such severity it could not be done then either, but I hope to finish it this spring, and then we shall have a good fence for a number of years to come, the east side having been built two years ago.

ROADS.

The latter part of June and the first part of July, I had the main road into the park and on into the buffalo pasture repaired as far as funds would permit. We did not get as good a job as we should have liked and hope to improve this road next year. However we made it passable which it was not before. I should like to see the Sandy Beach road finished as it would serve a double purpose of road and inside fire guard.

HAYING.

We started the haying the last week in July and had a very bad haying season indeed. It rained almost every day and often for three days at a time with the result that the hay sloughs were filled with water so could not be cut. We only got up about 125 tons of poor, quality hay. I find that we shall have to go farther south onto the reserve for a sufficient quantity of hay next year. This will necessitate a longer haul in winter, but it is the only way we can procure the required amount for our increased herd of buffalo. We were fortunate enough to get good straw to help out our small hay supply. The animals appear to relish it and are doing well on it. Such a severe winter has been hard on feed; we had a great depth of snow with extreme cold and at such times the animals require more feed, but they have wintered well.

FIREGUARD.

On the completion of the haying we started ploughing the fireguard and, a splendid job was made of it, but I find the growth of grass and weeds so, rank that it will be necessary to disc it in June and plough it in the fall, that we may have a good guard.

FIRES.

We had a small fire in the park last May. The fire came from the southeast over the reserve with a very high wind and jumped the guard but as I was there with a party of men, we got it under control before any damage was done.

VISITORS.

We had very few campers this year as the weather was so wet and cold, all the camping season, and tenting is not pleasant under such conditions. I have, had
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numerous inquiries in regard to renting lots for a term of years on which to build cottages, and I think it would be well to have lots surveyed, for that purpose as it is a pity to shut the people, particularly of these parts, out from this lovely lake; it would not interfere with the animals at all, and would add considerably to the revenue of the park.

With your permission I should like to have a piece of ground convenient to the picnic grounds prepared as a sports ground, as there is not a spot for ball or even foot races, and picnickers miss it very much. It would certainly add to the popularity of the place as a picnic resort and should not be a very great expense.

We had 1,532 visitors to the park during the year.

ANIMALS.

It is often very difficult to get teams to do the work at the proper time. If we had four good work horses of our own much expense might be saved and more satisfactory work done because it could be done at the right time.

We had an increase of 28 buffalo calves this year and no loss, the elk, moose, and deer are also increasing rapidly. Last fall when patrolling the fence, 67 elk were counted in one herd. They were all cows and young stock, and were feeding in a slough at the time. I estimate the elk at 100, the same number of deer, and the moose at 46.

The total number of animals in the park is as follows:

- Buffalo: 134
- Moose: 46
- Elk (estimated): 100
- Deer: 100

During the hunting season the park needs careful watching and it would be well, I think, in November and December to put a man on steadily at this work, as well as to keep a lookout for poachers. He would also have a splendid chance to get an idea of how many wild animals are in the park, and at the same time he could cut water holes in the big sloughs where the buffalo are feeding. This would keep the buffalo out on the range for at least a month longer, or until the snow got too deep.

ARCHIBALD COXFORD.

REPORT OF THE ST. LAWRENCE ISLANDS PARKS.

There are twelve islands and a parcel of mainland included in these parks, containing in all approximately 150 acres. They are scattered along the St. Lawrence river between Brockville and a few miles west of Gananoque, and may easily be distinguished by large sign boards on which is written “Dominion Public Lands.”

Most of the islands are equipped with wharves, pavilions, camp-stoves, closets, tables, benches, garbage cans, etc.; in fact, all the equipment and shelter necessary to campers or day visitors.

Each island or group of islands has a caretaker who looks after the park and its equipment, issues camp permits, and sees that all parks regulations are complied with.

Very little expenditure was made on these islands during the past year, the chief items being for caretakers’ salaries and small repairs or additions to the equipment. This does not necessarily mean that the islands were not made use of to a great extent by the public. The caretakers report that each year sees a greater number of visitors and campers to these island parks, and although no official record is kept, it was considered that the number of visitors during the past year was in excess of all previous years.
FORT ANNE HISTORIC PARK.

By Order in Council of January 24, 1917, the site of old Fort Anne, at Annapolis Royal, N.S., was transferred by the military authorities to the Department of the Interior and created a Dominion Historic Park.

This old fort was the centre of many of the stirring events in the early history of Nova Scotia. It approximately marks the site of the first permanent settlement of European emigrants in this Dominion. Three years before Champlain founded Quebec, a fort and village were to be found nestling on the shores of the Basin at Port Royal. Here was launched the first vessel built on this continent, and the first grist mill in North America was erected on the river L'Equille within a short distance of the fort and under the protection of its guns. Port Royal may be termed the cradle of Canadian civilization. With it are connected names of world-wide interest, among them those of the poet L'Escarbot, Pontgrave, Des Monts, Champlain and the noble Poutrincourt, to whom, more than to any other, was due the permanent settlement of these shores.

The site of the park covers about thirty acres, and comprises relics of the old fort, consisting of the officers' quarters, magazine and sally-port. It is situated at the confluence of the Annapolis and L'Equille rivers, commanding a magnificent view of the Basin.

Owing to the strict economy necessitated by the war, only such improvements as are absolutely necessary for preservation will be undertaken at the present time.
### Meteorological Tables


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### SESSIONAL PAPER No. 25

**METEOROLOGICAL TABLES.—Continued.**

**MAXIMUM AND MINIMUM TEMPERATURES and the General State of the Weather between April 1, 1916 and March 31, 1917.—Continued.**

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### SESSIONAL PAPER No. 25

#### DOMINION PARKS

#### METEOROLOGICAL TABLES.—Continued.

**Maximum and Minimum Temperatures and the General State of the Weather between April 1, 1916 and March 31, 1917.—Continued.**

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Mar. 1 | &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &n
MONTHLY MAXIMUM AND MINIMUM TEMPERATURES.

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MONTHLY AVERAGE TEMPERATURE.

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Average annual monthly temperature 32.4.
### MONTHLY PRECIPITATION

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Annual Precipitation 25.15.

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</table>

Total for 1916—230 days.

**Note.**—A fair day is one on which the average of the morning and evening observations amount of clouds makes 8 or less. The sky completely overcast is 10.
PART VI

FORESTRY
REPORT OF THE DIRECTOR OF FORESTRY

This report concerns the work of the Forestry Branch for the year 1916-17, and includes the reports of the officials in charge of the outside divisions.

Owing to the reduction of staff from the enlistment of a number of the officers of the branch for service in the army no new work of importance has been undertaken, and the operations of the branch generally have been kept to as small proportions as possible in view of the large extent of territory to be supervised and the value of the public forest property requiring protection.

The total number of men who have enlisted is sixty-five.

During the year we have unfortunately lost several of our men who were fighting in France. Mr. George E. Bothwell, forest assistant on the Athabaska forest reserve, was killed by the treachery of a German prisoner who had surrendered. Mr. Bothwell was one of the most promising among the young technically trained foresters on the staff, and the loss of his services will be very much felt. Mr. John B. Brophy, who was employed in the head office of the branch, met his death from an accident while flying in England. He had previously done good service in the Flying Corps in France. There are also two members of the forest ranger staff who were killed in action, namely, Mr. G. G. Fuller of the Bow River forest and Mr. J. W. Smith of the Long Lake forest reserve, British Columbia; and one member of the fire-ranging staff in British Columbia, Mr. William Waddell. They were all good officers whom the service could not afford to lose.

It is only right also to mention the names of some of the undergraduates of the forest schools who had been employed on forest surveys by this branch. Four of these young men gave up their lives in the war, namely, Jack B. Hipwell, A. M. Thurston, R. A. R. Campbell, and J. D. Aiken. They were among the most promising of the undergraduates of the forest schools, and it had been their hope, and ours, that they would take a large place in building up forest administration in Canada.

The past season in the western provinces was generally wet, so that the danger of fire was not as a rule serious. In some localities there were dry spells of considerable extent, but the patrol staff were able to control the situation so as to prevent heavy losses.

The great loss of life and property in the province of Ontario in the summer of 1916, as a result of forest fires, forced a careful consideration of the conditions which made such a disaster possible. The season in Ontario was particularly dry and the natural conditions the worst possible. Of the controllable factors the one most prominent in causing the disaster was that of fires set out by settlers for clearing lands in conditions under which, as was found by the result, it was impossible to regain the mastery over them. It was felt, therefore, that the control of such fires was a necessary thing for the safety of the settlements now so generally extending into wooded districts. The setting out of fires on Dominion forest reserves is controlled by the provisions of the Forest Reserves Act and the regulations made thereunder, and the legislation in this respect is sufficient to meet the case. But, on the large areas of Dominion lands outside of forest reserves the matter is governed by the provincial fire acts, or by the homestead regulations; and outside of the province of British Columbia none of these previous to January, 1917, contained any provision which gave power to control the setting out of fires. The permit provision of
the Fire Act of the province of British Columbia has been in operation for a number of years, and has been working successfully and with decreasing evidences of any friction as the years go by. Recommendations have been submitted and approved that the homestead regulations be amended so as to provide for a permit from a fire ranger being required for the setting out of fire for the clearing of homesteads entered for after the passage of the Order in Council establishing such regulations, which is as far as Dominion legislation can go on the subject. The provinces of Manitoba, Saskatchewan, and Alberta have been considering changes in the Fire Acts so provide a permit system, and the provinces of Manitoba and Saskatchewan passed at the legislative session of 1917 the necessary legislation which, with proper co-operation between the Dominion and provincial authorities in the administration of the Act, should prove effective.

The relation between the forests and settlement is a question involving many interests, and is one not easy of solution. The need for land for settlement after the war will make it necessary to devote every possible piece of land to agricultural purposes, but on the other hand the financial demands for the war will make it advisable and necessary to protect the public forest property, and ensure that the forest on non-agricultural land is retained and brought into best producing condition. As was stated in the report of last year, this is a question which cannot be decided from the point of view of either interest solely, and which shows the necessity of co-operation between the agricultural and forestry interests for the development of an agricultural and forest survey of the country such as will determine the best general lines of development for each district.

The object of a forest policy is not only to perpetuate the forest but to make the products as readily and reasonably available to the consumer as possible, so that they may be most useful in the building up of the districts to which the forest is tributary. The permit system, under which a settler is given the right, at first free and later on payment of reasonable dues, to take timber and wood from the forest for his own use, was adopted for the purpose of enabling the consumer to get his wood supplies directly. Under this system the intention (and the actual practice in the early days of settlement) was that the settler should go into the forest and cut his own wood and timber. As the timber becomes scarcer and less accessible the difficulty of the settler getting out his own timber becomes much greater, and in some cases such a method is practically impossible. In order to preserve the direct right of the settler to timber through the permit system, even in such circumstances, an arrangement has been tried in the past few years by which the right to locate a saw-mill on a forest reserve where there is a quantity of timber is put up for tender, on the basis of the charge to be made the settlers for logging and sawing the timber they obtain under permit. This assists the settlers in two directions. It makes it possible for them to have their logs sawn in the locality where they are obtained, so that all they have to draw out to the settlement is the sawn lumber, and it provides that the logging and sawing shall be done for them at the lowest possible rate. This system is being tried on several of the forest reserves and gives prospects of working out successfully.

Scientific research in the forest to ascertain the conditions that affect the development of the forests has been found a necessity to ensure proper methods of management in every country where forest administration on a permanent basis has been provided for. This necessity is being felt in Canada, and the advisory committee which has been formed in connection with this branch has been giving the question consideration. The war conditions, preventing new appointments or expenditures, have, however, made it impossible to take steps toward any definite programme of investigations. The committee, however, prepared a memorandum for submission to the newly appointed Dominion Council for Scientific and Industrial Research, point-
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ing out the great need for organizing forest research work in Canada. It may be permissible to quote the following paragraphs from this memorandum:

"Ignorance, lack of definite information, opinions rather than knowledge of facts have characterized, and still to a large extent continue to characterize, the methods of handling the forest resources of the Dominion to their detriment and loss.

"Before any rational policy for the management of our timberlands can be put into operation two things at least must be determined, namely, the available supply of sawlog and pulpwood material, and the rate at which the commercial species are reproducing themselves.

"It is ignorance as to extent and character of these resources which has led governments and private owners to treat their forests like mines instead of like crops, administering timberlands rather than managing forests under forestry practice for a sustained yield.

"Such ignorance can of course be removed only by systematic investigation or research.

"There is still abroad, even in authoritative quarters, a good deal of talk of 'inexhaustible timber resources' and especially are extravagant opinions afloat regarding pulpwood supplies. As a result of this loose talk propositions for a more conservative management find only lukewarm reception. Undoubtedly for some time to come if the demand does not increase unduly the timber and pulpwood supplies of the Dominion will be ample to meet the demand. But with growing demand the time of exhaustion of virgin supplies is drawing nearer, and if it is realized that Canada's timber wealth could not supply the present saw-mill capacity of our neighbours for fifteen or twenty years the inexhaustibility phrase should be dropped.

"It should be understood that there is only one way of keeping the forest resource inexhaustible, namely, by means of reproduction.

"We know next to nothing as to whether, and to what extent, the cut-over lands are reproducing the timber that has been removed, still less at what rate such new crop is growing.

"General principles of silviculture can be imported from Europe and, in so far as the same species occur in Canada that are found in the United States, we can profit to some extent from the work of their foresters; finally, however, climatic and soil differences make it necessary to learn how to manage the species under their home conditions. We have in Canada not yet undertaken the first systematic study of the biology of any of our species, a knowledge fundamental to its silviculture. This is to be accomplished by observation in the field and by a systematic location of permanent sample plots placed under different treatment and observed periodically.

"As regards increment, the rate of production that may be expected from our species under varying conditions, we are also lacking in knowledge. There are neither volume tables as aids for timber estimating nor growth or yield tables as bases for calculating the results of our silviculture in existence. Meanwhile, truly foolish ideas prevail regarding the rate of growth of forest trees and forest acres. A correction of these ideas through systematic measurements will bring the wholesome realization that the replacement of our cut timber takes many more years than is generally believed. We may add that these investigations are most urgently needed for the species of the eastern provinces, which have already been largely exploited and where recuperative measures should be applied at once."

It is understood that the Council for Scientific and Industrial Research have considered the matter of such importance as to recommend its being given early consideration in the programme of research to be carried out in Canada.
The carrying on of forest research will involve co-operation with the provincial forest services so as to prevent unnecessary overlapping and to ensure the carrying on of the investigations in the most efficient way. The urgency of the general administrative and protection work of the forest services has not allowed much time for scientific investigation, but the necessity for it is being felt and any action in that direction can be assured of the co-operation of the provincial authorities.

The province of British Columbia has a well organized forest service which has administrative and protection work well in hand. It has also initiated some special scientific investigations and, as its staff is now appointed entirely under civil service rules and includes a number of specially well qualified foresters, it should be in a favourable position to co-operate in scientific investigation.

The province of Ontario is undertaking a reorganization of its protective and administrative work which will absorb the energies of its forest service for some time to come. The smallness of the technical staff also makes it difficult to organize investigative work, although the enlistment of the staff of the provincial forest school in this work would materially assist in its development. Ontario presents some of the most interesting problems of forest administration to be found in Canada and has proceeded so far in forest exploitation that the necessity for determining the scientific basis of forest management is becoming a pressing question.

The province of Quebec from the first organization of its forest service recognized the necessity for technical training, and provided the nucleus for a technical staff by having two foresters take special courses in forest schools in the United States and in France. This was followed later by the establishment of a forest school in connection with Laval University. This province is, therefore, in a good situation to co-operate in any general plan for forest investigations that may be laid out.

The province of New Brunswick has had until recently no technical forestry staff, and has considered in its administration only the revenue and protective sides. The recent organization of a forest survey of the province, and the employment of a staff of technical foresters in connection therewith, will probably result in the establishment of a forest service with sufficient of a technical staff to make possible the undertaking of scientific investigations in a definite way. The forest school in connection with the provincial university will also be able to render valuable assistance.

The province of Nova Scotia is in the difficult position of having alienated all but a small proportion of the forest lands, and consequently has not organized a special forest service, nor is it to be expected that that province will be able to provide a technical staff for forest investigations. It is probable that forest investigations in Nova Scotia will have to be largely provided for otherwise.

The increasing complexity of the work to be dealt with emphasizes the necessity for having the men employed in the forest service specially trained in the principles of forestry. While the forest schools now in existence in Canada can supply the men with the higher technical training there is no educational institution giving the training required for the position of forest ranger, and the want of such training is felt in many ways. The forest rangers in the employ of the department are given instruction in forestry principles as opportunity permits, but such instruction should be given on a more systematic basis. Assurance of permanency in the position of forest ranger would encourage greatly the disposition of the rangers to qualify themselves for better work and, with a standard of qualifications for appointment based on the character of the work required, would make one of the absolutely necessary forward steps toward a forest management adequate to the situation and creditable to the Dominion.

It may be advisable and necessary at the present time to point out the general plan which is being followed in the forest surveys which are being carried on. At the inception of the Dominion forestry work in the West the plan of intensive surveys was first adopted, surveys which would give accurate information in regard to the forest,
its quantity, condition, etc., so that data on the subject would be complete. It was quickly realized, however, that such a policy was very costly; it gave complete information that would not be required for many years, and owing to the change in conditions later, particularly as a result of forest fires, much of the information was rendered useless for practical purposes. The policy of surveys was, therefore, carefully reviewed at that time and the general plan which is now being followed was determined on.

According to this plan the forest surveys that are being carried on are of three main classes.

The first class is the general reconnaissance or exploratory survey to ascertain where the main bodies of timber are located, their general quantity and condition, and the tracts that are non-agricultural and should be permanently kept in forest. Such a survey can be carried out quickly and at small cost. The average cost per square mile of such surveys, so far carried out, is sixty cents. The greater part of the surveys now being carried on are of this character. They have covered the larger portion of the woodlands under Dominion jurisdiction, and if continued in the same way for three or four years more will cover the whole of such territory. Such surveys make it possible to determine the lands that should be included in forest reserves and to plan the protective organization for the whole timber-bearing area.

The second class of forest survey is that made after forest reserves have been established to obtain the exact location and stand of bodies of timber, the areas reproducing naturally, and generally, the data necessary for planning the management of the reserve so as to provide for the best production. Surveys of this kind are dependent on the land surveys in the district being sufficiently far advanced to give reasonably accurate locations and permit of correct mapping. The land surveys may be either rectangular or topographical, but on many of the reserves they have not been completed sufficiently to make it possible to carry out the forest surveys properly. In consequence of this and the smallness of the staff in this branch qualified to make such surveys progress with this class of survey is not far advanced, though it is important that such surveys should be pushed forward as rapidly as possible.

The third class of forest survey is one made with the object of obtaining information for commercial exploitation. Such surveys ascertain carefully the quantity of timber, its conditions, the relation of species, accessibility, conditions that affect operations, and anything that may affect the commercial possibilities in connection with the particular area or district. Such surveys are being made only on such special tracts of timber as are applied for for commercial purposes, which form as yet but a small proportion of the area of woodlands. Surveys of this character require considerable time and expenditure, and are being undertaken only so far as commercial development demands.

The provinces are following the same general lines in their forest surveys, but in most cases they have not yet been organized on a systematic basis. A general reconnaissance survey of Nova Scotia was made by the Provincial Government, which gave valuable information as to the present stand and condition of the forests of that province. Similar studies of the provinces of British Columbia and Saskatchewan have been made by the Dominion Commission of Conservation in co-operation with the Dominion and provincial forest services. A similar survey of a somewhat more intensive nature is now being carried out by the province of New Brunswick. Beyond these the main forest surveys that have been made are of particular tracts that have been sold or are being put up for sale.

It will be seen, therefore, that the forest surveys are being developed on the line of first obtaining general information as a basis of general organization and management, and gradually intensifying the surveys as they can be made most economically and efficiently, as commercial development requires, and as increased expenditure becomes possible.
For commercial development, therefore, the information now available can only be depended on in a general way, and special surveys of a more intensive nature will be required when it is desired to determine the commercial feasibility of any proposed operations or of the development of any district.

Reforestation was begun on several of the forest reserves in the prairie districts during the year, and sufficient planting was done to make a fair experiment. The reserves on which planting was done are tracts of almost pure sand on which the main tree growth is poplar of small size and poor character. Plantations were made of Scotch pine, jack pine, and spruce, and, with the exception of one reserve, the success is all that could be expected. The importance to the prairie districts of the rapid development of this work cannot be overestimated, and it is hoped that it can be pushed forward steadily each year till the reforestation of these small but important reserves is completed.

At the request of the Home-Grown Timber Committee of the British Isles arrangements are being made for the collection of forest tree seeds of Canadian species for reforestation work in Great Britain. Samples of Canadian tree seeds for trial in China have also been supplied to the Agricultural College at Nanking.

As production of food supplies is an important duty at the present time it is pleasing to note that the number of live stock being grazed on the forest reserves has considerably increased, and the possibility of obtaining summer grazing and hay on the forest reserves has undoubtedly encouraged a number of farmers in the vicinity of the reserves to begin the establishment of herds. It may be expected that the business will develop to large proportions as there are considerable areas of grass land on the forest reserves which will not be reforested naturally or artificially for many years to come, and some not at any time. The forests in Europe, in most places, furnish grazing for large numbers of stock in open meadows or among the trees, and it may be expected that large numbers of stock will always be carried on the forest reserves in the West.

STAFF.

The total permanent staff of the branch for the past year was as follows:

<table>
<thead>
<tr>
<th>Position</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Head office</td>
<td>40</td>
</tr>
<tr>
<td>District inspectors</td>
<td>5</td>
</tr>
<tr>
<td>Assistant inspectors</td>
<td>12</td>
</tr>
<tr>
<td>Forest assistants</td>
<td>11</td>
</tr>
<tr>
<td>Forest rangers</td>
<td>88</td>
</tr>
<tr>
<td>Chief fire rangers</td>
<td>10</td>
</tr>
<tr>
<td>Inspectors of tree planting</td>
<td>9</td>
</tr>
<tr>
<td>Forest Products Laboratories</td>
<td>19</td>
</tr>
<tr>
<td>(technical staff)</td>
<td></td>
</tr>
<tr>
<td>Outside clerical staff</td>
<td>35</td>
</tr>
<tr>
<td>On military leave</td>
<td>36</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>265</strong></td>
</tr>
</tbody>
</table>
SESSIONAL PAPER No. 25

APPROPRIATION.

The appropriation for the year was $750,000.
The expenditure was divided as follows:

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salaries at head office</td>
<td>$14,224.82</td>
</tr>
<tr>
<td>Salaries of officials on military leave</td>
<td>15,551.27</td>
</tr>
<tr>
<td>Travelling expenses</td>
<td>1,056.92</td>
</tr>
<tr>
<td>Printing and stationery</td>
<td>7,956.33</td>
</tr>
<tr>
<td>Miscellaneous expenses at head office</td>
<td>4,561.63</td>
</tr>
<tr>
<td>Statistics</td>
<td>2,398.75</td>
</tr>
<tr>
<td>Forest surveys</td>
<td>11,744.40</td>
</tr>
<tr>
<td>Fire-ranging</td>
<td>192,089.89</td>
</tr>
<tr>
<td>Forest rese. vels</td>
<td>557,827.29</td>
</tr>
<tr>
<td>Tree planting</td>
<td>48,725.47</td>
</tr>
<tr>
<td>Forest Products Laboratories</td>
<td>10,720.00</td>
</tr>
<tr>
<td>War appropriation</td>
<td>9,000.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>$721,923.41</td>
</tr>
</tbody>
</table>

(Note. The item of $10,720 shown under "War appropriation" was drawn from the Forestry appropriation and later refunded.)

The field expenditure, exclusive of tree planting on the prairie farms, is divided as follows among the provinces:

<table>
<thead>
<tr>
<th>Province</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manitoba</td>
<td>$91,266.92</td>
</tr>
<tr>
<td>Saskatchewan</td>
<td>150,775.46</td>
</tr>
<tr>
<td>Alberta</td>
<td>202,265.69</td>
</tr>
<tr>
<td>British Columbia (Railway Felt)</td>
<td>117,330.51</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>$561,661.58</td>
</tr>
</tbody>
</table>

CORRESPONDENCE.

The letters received and sent out by this branch were as follows: Number of letters received, 19,684; mail sent out, letters, circulars, etc., 35,407; bulletins and reports, 21,866; parcels, 256; total, 57,529.

LIBRARY.

During the year 29 books and 327 pamphlets were added to the library at the head office. Seventy magazines have been received during the year, 46 by subscription and the remainder by exchange. A question that is receiving attention is that of the maintenance of branch libraries at the offices of the various inspectors. The number of photographs received during the year is almost 1,400, a slight decrease compared with the number received during the year previous. The matter of the preparation of lectures, illustrated by lantern slides, has received considerable attention during the year. It is hoped in this way to bring the forestry work before the people of the western provinces, especially those living in the neighbourhood of the various reserves, thus drawing their attention to the necessity of it and enlisting their sympathetic co-operation in its accomplishment.

PUBLICATIONS.

The policy of reviewing the manuscript of every publication issued with the view of adapting it as closely as possible to the object for which it is intended has resulted, it is believed, in increased publicity at reduced cost. There has been a steady demand for the publications of the branch, which shows that the public is becoming aware of the technical and commercial information therein contained. Canadian newspapers, as in former years, continued to give great assistance in explaining what the branch is doing and in warning against forest fires.
One of the most effective methods of fire prevention is the posting up of notices warning all who use the forests of the need of care with fire. In the past these have been printed on a prepared linen called buckram, manufactured in Great Britain. The war has greatly reduced the supply and increased the cost of this material. The branch is, therefore, making tests of other material such as tough paper, galvanized iron, boards, and unbleached cotton. It is believed that with these new materials the branch will be able to produce more effective signs at a smaller cost.

During the year the following publications, in pamphlet form, were issued:—


" 57. " " " " 1915: (Being Bulletins 54, 55, and 56.)

" 57. " " " " 1914: (French Edition.)

" 58a. " " " " 1915: Lumber, Lath and Shingles.

" 58b. " " " " 1915: Pulpwood.

" 58c. " " " " 1915: Poles and Cross-ties.

" 58. " " " " 1915: (Being a Combination of Bulletins 58a, 58b, 58c.)

" 59. Canadian Woods for Structural Timbers.


" 3. Government Co-operation in Forest Tree Planting. (Reprint.)

Dominion Forest Officers’ Manual: “Property.”

Regulations for Dominion Forest Reserves.

STATISTICS.

The most notable feature of the statistical work of the branch has been the increased demand from manufacturers, firms located outside of Canada, and others, for special information regarding different features of the forest products industry. This indicates both an increased effort to secure special wood materials in Canada and a more widespread knowledge of the work of the branch in this particular.

The provinces of Quebec and British Columbia co-operated with the branch and collected the statistics of lumber and shingle mills within their borders.

The figures for the main items in the forest products industries show that, despite the changes introduced by the war, these industries operated with remarkable steadiness. The falling off in lumber was compensated for by increases in pulpwood and in ties and poles. The total value of lumber, lath, and shingles produced in Canada in 1916 was $66,072,222; of pulpwood, $19,971,127; of poles purchased in Canada, $427,154; and of cross-ties purchased in Canada, $3,307,319. The proportion of pulpwood manufactured into pulp in Canada is steadily gaining upon that exported in the raw state. In 1916, 62-3 per cent of Canadian pulpwood was made into pulp in this country as against 37-7 per cent exported in the raw state to be manufactured abroad. Of air-dry pulp, approximately 1,296,084 tons were manufactured in Canada in 1916.

The following is an estimate, from the information available, of the total value of forest products in Canada during the calendar year 1916:—

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lumber, lath, and shingles</td>
<td>$66,075,000</td>
</tr>
<tr>
<td>Firewood</td>
<td>$2,000,000</td>
</tr>
<tr>
<td>Pulpwood</td>
<td>12,975,000</td>
</tr>
<tr>
<td>Fence-posts and rails</td>
<td>8,060,000</td>
</tr>
<tr>
<td>Cross-ties</td>
<td>3,750,000</td>
</tr>
<tr>
<td>Square timber exported</td>
<td>135,000</td>
</tr>
<tr>
<td>Cooperage</td>
<td>1,250,000</td>
</tr>
<tr>
<td>Poles</td>
<td>575,000</td>
</tr>
<tr>
<td>Logs exported</td>
<td>850,000</td>
</tr>
<tr>
<td>Tanning materials</td>
<td>140,000</td>
</tr>
<tr>
<td>Round mining timbers</td>
<td>750,000</td>
</tr>
<tr>
<td>Miscellaneous exports</td>
<td>230,000</td>
</tr>
<tr>
<td>&quot; products</td>
<td>9,000,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$172,830,000</strong></td>
</tr>
</tbody>
</table>
TREE PLANTING.

The demand for trees for planting on prairie farms was somewhat less during the past year, owing to labour conditions and other factors unfavourable to the undertaking of additional work by the farmers. This has, however, not had an unfavourable result, as it made it possible to give a larger number of trees to each farmer, which thus enabled him to start a plantation which would furnish more adequate shelter. The plantations are generally well established and growing satisfactorily, and have demonstrated finally that the growing of trees on the prairie is merely a question of proper preparation and care. The number of trees distributed in the spring of 1917 was 7,604,925, as compared with 4,618,800 in the spring of 1916.

Stock for reforestation by planting on the Dundurn, Elbow, and Manito reserves was provided from the nursery at Indian Head, and provision is being made for growing supplies for further extension of the work.

The permanent plantations at the forest nursery station were established partly for the purpose of giving shelter to the nursery beds and partly to obtain information in regard to the rates of growth of different species and their relations in mixture. Careful measurements of these plantations are taken annually, and much useful information is being obtained that will be of great value for guidance in reforestation and forest management in the future.

FIRES.

The season of 1916 was very much safer throughout than the average season. In the Railway Belt of British Columbia the driest period occurred in August but was of short duration and was preceded by an exceptionally heavy rainfall in July. In the provinces of Manitoba, Saskatchewan, and Alberta the temperature in March and April was high, and some fires occurred in May. Comparatively heavy rains in the latter part of the month reduced the danger and continued throughout the remainder of the season, so that altogether there were fewer fires than in either of the two previous seasons.

The total number of fires reported during the year was 891, as compared with 1,455 in 1915 and 1,986 in 1914. The number of these fires that burned over an area of ten acres or more was 146, as compared with 343 in 1915 and 388 in 1914. The percentages of the total number of fires started that burned ten acres or over were 16 per cent in 1916, 24 per cent in 1915, and 20 per cent in 1914.

The total area burned over was 116,310 acres. Of that area 2,000 acres were classed as merchantable timber, on which there were 4,608,000 feet board measure; 4,340 acres as cordwood, bearing 57,664 cords; and 20,634 acres as young growth. The average area of the fires spreading beyond ten acres was 796 acres, compared with 3,932 acres in 1915 and 1,804 acres in 1914.

The causes of fires were as indicated in the table hereunder. The number of fires is shown for 1916 only, but the percentage due to each cause is shown for the last three years for purposes of comparison.

<table>
<thead>
<tr>
<th>Number of Fires</th>
<th>percentages</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1916</td>
</tr>
<tr>
<td>Unknown</td>
<td>270</td>
</tr>
<tr>
<td>Campers and travellers</td>
<td>179</td>
</tr>
<tr>
<td>Settlers</td>
<td>187</td>
</tr>
<tr>
<td>Railways</td>
<td>174</td>
</tr>
<tr>
<td>Lightning</td>
<td>59</td>
</tr>
<tr>
<td>Lumbering</td>
<td>30</td>
</tr>
<tr>
<td>Incendiary</td>
<td>5</td>
</tr>
<tr>
<td>Brush disposal (other than by settlers)</td>
<td>7</td>
</tr>
<tr>
<td>Totals</td>
<td>891</td>
</tr>
</tbody>
</table>
The fire record and the statement of causes again emphasizes the necessity for public education on the subject. In spite of attention having been called to the subject all over the country by various means there are still hundreds of fires occurring every year due mainly to carelessness. The campaign of education is being carried on steadily through the press, through public lectures, through the public schools, and in various other ways. The public schools have been visited by officials of the Forestry Branch and talks given on the fire danger, the matter being emphasized by the presentation to the pupils of articles such as wooden rulers on which are printed mottoes impressing the lesson.

**FIRES AND RAILWAYS.**

The patrol of the privately owned railways, which form the greater part of the mileage in the West, is carried out by the railway companies under the orders of the Dominion Board of Railway Commissioners, subject to inspection by the officers of this branch. On the publicly owned railways, consisting of a portion of the Transcontinental railway and the Hudson Bay railway, the whole responsibility for patrol and inspection has had to be assumed by this branch. One permanent inspector and eight temporary inspectors were employed in this work. The railway companies generally have co-operated well in the protection work and the results have been good. The Edmonton, Dunvegan and British Columbia railway is the only one against which any serious complaint has been necessary. Out of a total of 174 fires charged against railways this line has a total of 66. Locomotives were carefully inspected from time to time and out of 442 inspections made 36 locomotives were found defective. Of these 17 were on the Canadian Pacific railway and 10 on the Edmonton, Dunvegan and British Columbia railway.

On the government-owned railways conditions were considerably improved over the previous year owing to better co-operation on the Hudson Bay railway. Both the engineers in charge and the contractors have worked with the inspectors of the Forestry Branch to improve the protection, and the result showed only 1,640 acres burned over along this railway line last year as against one million acres the previous year.

Some difficulty is experienced with railways chartered by the provinces which do not come under the jurisdiction of the Dominion Board of Railway Commissioners or under Dominion jurisdiction in any way.

**FOREST RESERVES.**

The area included in forest reserves is 23,024,640 acres, and the permanent staff employed thereon is as follows: district inspectors, 4; supervisors, 12; forest assistants, 11; forest rangers, 88; total, 115. For the area to be managed the permanent staff is small, but the work required in winter is not great and the improvement and fire patrol work in the summer is carried out with the assistance of a temporary staff of rangers, of whom 57 were employed last year. A good proportion of the rangers have done their work well, but until there is some plan of selection on qualifications, and permanency of tenure of office based on merit, the organization cannot be placed on an efficient and satisfactory basis, or have that degree of permanency which long-time management like that of the forest requires.
**SESSIONAL PAPER No. 25**

**Improvements.**—Considerable improvement work was carried out during the past year, and was on the whole done satisfactorily and at reasonable cost. Following is a statement of the improvements completed during the year with the total and average cost, including the cost of labour by forest rangers:

<table>
<thead>
<tr>
<th>Class of Improvements</th>
<th>Number.</th>
<th>Total.</th>
<th>Average.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cabins</td>
<td>34</td>
<td>$9,832</td>
<td>$289</td>
</tr>
<tr>
<td>Houses</td>
<td>12</td>
<td>13,144</td>
<td>1,095</td>
</tr>
<tr>
<td>Lookout towers.</td>
<td>8</td>
<td>1,039</td>
<td>130</td>
</tr>
<tr>
<td>Stables.</td>
<td>22</td>
<td>6,439</td>
<td>295</td>
</tr>
<tr>
<td>Other buildings.</td>
<td>7</td>
<td>895</td>
<td>128</td>
</tr>
<tr>
<td>Bridges</td>
<td>2</td>
<td>693</td>
<td>346</td>
</tr>
<tr>
<td>Telephone lines.</td>
<td>122</td>
<td>12,475</td>
<td>102</td>
</tr>
<tr>
<td>Fireguards ploughed.</td>
<td>156</td>
<td>1,231</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>cleared</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Roads</td>
<td>96</td>
<td>9,426</td>
<td>98</td>
</tr>
<tr>
<td>Trails</td>
<td>418</td>
<td>29,226</td>
<td>70</td>
</tr>
<tr>
<td>Miscellaneous projects such as fences, etc.</td>
<td></td>
<td>4,787</td>
<td></td>
</tr>
</tbody>
</table>

Total.................$91,520

The proper planning of the system of communications in the forest reserves is being given careful attention and has been done pretty thoroughly for all of the older reserves, though the completion of the work of construction will take some years yet to accomplish. A study is being made of methods of construction of forest telephone lines and their use and of other methods of transmitting information, with the object of preparing a manual for the instruction of the forest officers. An immense amount of improvement work remains to be done on the newer forest reserves and in the tracts recommended to be set apart for that purpose.

**Timber Operations.**—For several reasons, including a scarcity of coal, there was more demand for wood from the forest reserves during the past season. The winter was a severe one and there was heavy snow which interfered somewhat with operations, but the demand for lumber was good enough to encourage considerable activity. The number of permits issued was 2,973 and the quantity cut thereunder was 4,549,215 feet board measure, 37,313 cords, 615,917 linear feet, besides other products. The number of free permits was 1,657. Ten millsites locations for cutting under settlers’ permits were granted and have proved a great convenience in every way. The further concentration of the cutting under settlers’ permits has enabled better supervision, with the result that more efficient methods have been followed and brush disposal has been carried out more thoroughly. The owners of the mills understand better the requirements of the regulations and are following them more closely.

Operations were carried on during the past year on 22 sales, 10 of which were made during the past year. The cut of timber was 4,227,751 feet board measure, and of mine props, 460,240 linear feet.

These sales are made to meet local requirements for timber supplies, and in the Rocky mountains in particular are made mainly to coal-mining companies. It is of the utmost importance that a supply of mine timber should be conveniently and readily available for coal operations, and through small areas this is accomplished, though it may be pointed out incidentally that, as a result of fires, there is but a small area of timber convenient to some of the coal mines in the more accessible districts. On these sales the method of operations is steadily improving. Where the operation is in green timber a selection is made of trees that should be left to produce seed for the reproduction of the forest, and the selected trees are marked for that purpose. The disposal of the débris of operations has been good and is steadily improving, and will soon develop into a well-established practice. The cost is still in many cases higher than necessary, owing to poor organization or bad methods. The quality of labour also adds to the cost as it is difficult to get good men, and brush disposal requires intelligence if it is to be done properly and at a reasonable cost.
Fires.—There were only 43 fires in the forest reserves as compared with 205 in 1915 and 408 in 1914, both of the latter years being, of course, very dry. Seventeen of the fires (40 per cent) burned 10 acres or more, covering a total area of 18,628 acres, of which 122 acres were merchantable timber, 970 acres cordwood, and 340 acres young growth. The greater part of the burned area was grass lands.

The proportion of fires due to various causes differs somewhat from that obtaining in fires on the lands outside the reserves.

<table>
<thead>
<tr>
<th>Causes</th>
<th>No. of Fires</th>
<th>1916</th>
<th>1915</th>
<th>1914</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unknown</td>
<td>15</td>
<td>35</td>
<td>35</td>
<td>41</td>
</tr>
<tr>
<td>Campers</td>
<td>7</td>
<td>17</td>
<td>21</td>
<td>9</td>
</tr>
<tr>
<td>Settlers</td>
<td>6</td>
<td>17</td>
<td>24</td>
<td>17</td>
</tr>
<tr>
<td>Railways</td>
<td>7</td>
<td>17</td>
<td>9</td>
<td>29</td>
</tr>
<tr>
<td>Lightning</td>
<td>2</td>
<td>4</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Lumbering</td>
<td>4</td>
<td>9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Incendiary</td>
<td>1</td>
<td>2</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>Brush disposal (other than by settlers)</td>
<td>1</td>
<td></td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Other causes</td>
<td>1</td>
<td></td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Total</td>
<td>43</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
</tbody>
</table>

Surveys.—A reconnaissance survey was carried out on the Porcupine forest reserve in Saskatchewan to obtain fuller information in regard to the general conditions in the interior, which had not previously been examined. The result was to show, as usual, that owing to fires the area of merchantable timber is a small percentage of the whole. Information was obtained that will be useful in the planning of the improvements necessary for the protection of the reserve.

Surveys for the marking of boundaries were also carried out on the Porcupine Hills and Cooking Lake forest reserves in Alberta.

Grazing.—The total number of stock grazed on the forest reserves was 17,147, of which 14,569 were cattle and 2,578 were horses. This is an increase over the previous year and the use of the grazing areas in the reserves may be expected to increase steadily. On the reserves in the prairie districts the fencing of areas for grazing purposes has been found to work satisfactorily. In two cases on smaller reserves in the province of Manitoba the plan has been tried of having the department erect the fence and assume the main responsibilities. In most cases, however, the fences are erected by stock associations or individuals who assume all responsibility for looking after the stock. In such cases, however, the fences become the property of the Crown. It is probable that the latter plan will be most generally followed, although the former may turn out to be the better in special circumstances. Grazing will assist to a great extent in reducing the fire danger and, where properly regulated, in getting the lands into condition for forest planting where it is desired to have reforestation carried out.

There were practically no sheep grazed on the forest reserves last year, although in some parts of the Rocky Mountains forest reserve a large number of sheep could be accommodated. There are certain difficulties inherent in sheep grazing which have yet to be overcome. These difficulties are receiving consideration, and it is hoped that the coming season will witness a beginning in sheep grazing on a sound basis.

Acting in accordance with information obtained from an investigation of the forage plants on the Crowsnest forest reserve, by an agrostologist of the Department of Agriculture, changes were made in the grazing periods in certain districts where
losses of cattle had occurred due to poisonous weeds, and, by keeping the cattle off the range during the time when these weeds were dangerous, losses from this cause were reduced to a minimum.

The grazing regulations have not been applied as yet in British Columbia except in regard to certain meadows designated "project meadows," which are situated in more inaccessible parts of the forest reserves which can now be reached by trails recently constructed. Special regulations have been established for dealing with such meadows, which it is hoped will result in their useful development.

Grazing on the forest reserves is developing so steadily and as the reserves become stocked to capacity will present so many problems, such as determining grazing capacity, improving range, etc., that a specially qualified man will be required for investigation and inspection work in connection therewith.

Fish.—The fishing provisions of the forest reserves regulations have been based upon those designed by the Fisheries Branch of the Department of the Naval Service for the different provinces in which the forest reserves are situated. The object has been, first, to take advantage of the expert knowledge at the command of the Fisheries Branch, in the interests of the protection of the fishing; and second, to save the public the inconvenience of finding two different sets of fishing regulations in the same province. The forest reserves fishing regulations vary from the regulations of the Fisheries Branch only in such particulars as are called for by local conditions. The regulations have been found to work smoothly during the past year, and the arrangement by which a fishing permit, issued either under the forest reserves regulations or under the Dominion Fisheries regulations, is good for all waters in the province has been found to give general satisfaction. In the more northerly parts of the provinces of Manitoba, Saskatchewan, and Alberta, where a number of forest reserves have been established which contain large bodies of water, domestic and game fishing has been carried on for years past under the Dominion Fisheries regulations. It was arranged that such fishing should be continued under the same regulations and supervision, and this arrangement has also worked satisfactorily.

On lake Max and other waters in the Turtle Mountain forest reserve, where the fishing has been one of the most attractive features, large numbers of fish were found dead in the early spring of 1916. While the cause has not been definitely established a sample of the water was found upon analysis to be strongly alkaline, due probably to the lack of rain which resulted in these naturally somewhat alkaline waters becoming unduly charged with alkaline matter. This condition was pronounced by experts to be inimical to fish life, but a contributing cause was doubtless the very heavy fall of snow which came immediately after the lakes froze and excluded the air. Last winter conditions were different. Fish were observed during the winter at the water holes and no fish were found dead in the spring.

On lake Madge, in the Duck Mountain reserve, some of the pickerel with which the lake was stocked two years ago were taken but were returned to the water. The success of the stocking experiment is thus established.

The construction of roads and trails in the forest reserves is having an appreciable effect on sport fishing, as new bodies of water are thereby rendered more easily accessible to the exploratory instincts of the fisherman. This applies with equal force to the game hunter and to the nature lover.

Game.—A change has been made by the Manitoba Government in the Riding Mountain game preserve by the withdrawal therefrom of approximately four townships. The game preserve has now an area equal to six townships.

Efforts are being continued, in co-operation with the Department of Indian Affairs, towards the removal of certain Stony Indians who have located on the North Saskatchewan river in the Rocky Mountains forest reserve. Reference was made last year to the importance of this step in the interests of game protection. The task presents considerable difficulty, but the indications are that it will ultimately be accomplished.
Some years ago a number of half-breeds removed from Jasper Park and squatted on lands in the vicinity of Grand Cache, in the Athabaska division of the Rocky Mountains forest reserve. These people are inveterate game hunters and it was feared that their continued occupation would result in the rapid extinction of the game in that district. Steps were, therefore, taken to secure the removal of these half-breeds. The question was the subject of some correspondence with the Alberta Government, in which authority the property rights in the game of the province are vested. The provincial authorities did not consider that the protection of game was of sufficient importance to warrant taking the action proposed, and under the circumstances no further action for the removal of the half-breeds has been taken. The forest officers will, however, while having no executive authority as provincial game officers, continue to co-operate as far as possible with the provincial authorities in the matter of game protection.

FIRE-RANGING.

The area actually included in the districts of fire rangers outside the forest reserves was approximately 132,000,000 acres in the provinces of Manitoba, Saskatchewan, and Alberta, and 6,000,000 acres in the Railway Belt of British Columbia. There were 126 patrol districts in the former region having an average area of 1,047,000 acres, and 58 patrol districts of an average area of 107,000 acres in the latter. In Manitoba, Saskatchewan, and Alberta about half the fire rangers have assistants, especially where the patrol is carried out in canoes. The enormous area of patrol districts in that region means that the fire rangers must be concentrated along the edge of the forested region adjacent to the settlement where the greatest number of fires start. Farther north only the main routes of travel can be patrolled. In British Columbia the mountainous country, more extensive stands of valuable timber, and more widely distributed settlement throughout the Railway Belt make smaller districts necessary.

The number of fires on Dominion lands outside the forest reserves was 848, as compared to 1,501 in 1915 and 1,567 in 1914. The fires burning ten acres or more numbered 129, 15 per cent of the total number. The total area burned over was 97,682 acres, of which 1,879 acres bore 4,315,000 feet board measure of saw-timber, 3,370 acres bore 15,000 cords of small timber, and 20,344 acres were young growth. The remaining area of 72,089 acres was without either merchantable timber or young growth.

The causes of the fires outside the forest reserves were as follows:

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<th>Causes</th>
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* Less than one-half of 1 per cent.
RECONNAISSANCE SURVEYS.

Manitoba.—In Manitoba Mr. L. S. Webb continued the examination of the country east of lake Winnipeg.

An area of approximately 12,500 square miles, from Poplar river northward to township 58 and from lake Winnipeg east to the Ontario boundary, was examined. About 47 per cent of this is muskeg and water, 5 per cent is covered with timber and poles, and 48 per cent has been burned over in the last fifty years. The reproduction on the brulé is fair and is composed chiefly of poplar and jack pine. The country is of the Laurentian formation with numerous pronounced rocky ridges and outcroppings, and is comparatively level; only in a few places are there any hills that rise more than 90 feet above the general level.

The soil is on the whole unsuitable for agricultural purposes, only very small isolated areas of good land being found here and there along the rivers.

White spruce is found chiefly along the banks of rivers and shores of lakes, jack pine occupies the sandy and rocky ridges, and aspen and balsam poplar grow on moderately dry land throughout the area, while stunted tamarack and black spruce are found on the wooded muskegs.

Another party under Mr. J. E. Guay examined the country lying between lake Winnipegosis on the east, the Porcupine forest reserve and the Saskatchewan boundary on the west, township 37 on the south, and township 51 on the north.

This area is very flat and low, and is to a very large extent covered with muskeg. Here and there a low ridge breaks the monotony. A plateau is met with on the Overflowing river. It follows the river from a point about 15 miles east of the Saskatchewan boundary westward towards the Canadian Northern railway.

The soil is, of course, too wet for agricultural purposes.

All this country has been visited by fire several times and very little timber of merchantable size is left. This, composed of spruce, poplar, and fir, occurs chiefly along the slightly elevated river banks and lake shores, and on the plateau mentioned above. Tamarack and black spruce of small size are found on or along the edges of the muskegs. The area examined is 3,500 square miles in extent.

Saskatchewan.—In northern Saskatchewan a party under Mr. G. A. Mulloy examined an area of about 3,750 square miles, bounded on the south by Torch river, on the west by range 22, on the north by township 62, and on the east by range 11.

The western half of the area is a high plateau, while the eastern half is almost level and on that account lacks drainage. It is completely covered with the regular muskeg type of the north—black spruce and tamarack of small size and slow growth—and floating or quaking bog of sphagnum moss with an under-soil of stiff clay.

The western half is on an average of about 800 feet higher in elevation than the muskeg area. The southern portion of it is rather level in character, while the northern part is very hilly. The soil is sandy, sandy clay loam or pure sand of a reddish tint, overlying a very loose gravelly or sandy subsoil.

Of the total area examined, 37 per cent is muskeg, about 29 per cent is covered with timber or poles, 12 per cent is burned with more or less satisfactory reproduction, and the remainder is water.

It is estimated that fires in this district in the last twenty-five years have caused a loss of 2,400,000 cords and 20,000,000 feet board measure of timber. The reproduction on the “burns”, however, is quite satisfactory.

White spruce and poplar occur on the well-drained soils, and jack pine covers the sandy ridges. Balsam fir is found in places, mixed with spruce and poplar.

Very little of the land examined is considered to be of agricultural value.

Another party under Mr. J. E. Hall examined or re-examined certain portions of the interior plateau of the Porcupine forest reserves Nos. 1 and 2 in Saskatchewan and Manitoba. In addition to the examination of topographical conditions, soil, and forest cover, several road and trail surveys were made by Mr. Hall.
FOREST PRODUCTS LABORATORIES.

No effort has been made to develop new work in the Forest Products Laboratories owing to the economy, both as regards men and expenditure, required as a result of the war. Further, the staff of the laboratories have been carrying on a certain amount of work in connection with munitions, the superintendent giving practically all his time to inspection work for the Imperial Munitions Board.

Considerable work has been carried on in the divisions organized, and a large amount of useful data in regard to Canadian woods has been compiled from published reports or obtained by direct investigation, so that inquiries in regard to Canadian woods and their comparison with those of other countries, which are becoming increasingly numerous, may be answered as fully as the present development of investigation work generally will permit. Original investigations now under way cover some of the most important fundamental questions in regard to the constitution of wood, and would hardly ever be undertaken by any but government research laboratories. Such an investigation is the one now being carried on in regard to the chemical composition of the principal Canadian pulpwoods, which work is now well advanced and promises to bring out information of the utmost value to the pulp and paper industry.

Nothing in connection with the laboratories is more gratifying than the interest and co-operation of the industries using wood in the work now being carried on at the laboratories. This is particularly exemplified in the pulp and paper industry. The Canadian Pulp and Paper Association, as a whole and individually, have always taken an active interest in the work which is being carried on, and the Advisory Committee appointed by the Technical Section of that association have given a great deal of time and trouble to assist the laboratories in the planning of investigations and the necessary equipment therefor.

The bulletin on “Canadian Woods for Structural Timbers” (Forestry Branch Bulletin No. 59) that was published during the year, was a fair presentation of the value of Canadian timbers for this purpose as compared with timbers of other countries, and has had a wide distribution throughout the Empire and in foreign countries. The information contained in the bulletin was obtained from investigations made at the laboratories and from reports of investigations made elsewhere, but it was considered of importance to Canadian industry to publish the information available without waiting till all the Canadian woods had been thoroughly investigated at the laboratories. From the interest taken in this bulletin it is evident its publication has been timely and has given to prospective customers of Canada in foreign countries reliable information as to the properties of Canadian timbers, and the respects in which they show superiority.

An investigation into the production of wood oils for ore flotation, which was undertaken at the request of the Canadian Mining Institute and was carried out in co-operation with the Mines Department, resulted so successfully that it illustrates well the possibilities that scientific investigative work opens up. The Canadian mines were dependent on the United States for their supply of pine oil, which, though not required in large proportions, is an essential ingredient to ensure the proper frothing action necessary to carry out the process of extraction of ore by flotation, and the demand so greatly exceeded the supply that the Canadian mines were likely to be left in a difficult position. The investigation demonstrated that several of the light creosote oils produced from hardwood distillation will successfully take the place of pine oil in the flotation process, and as sufficient of such oils to meet the requirements of the mines is already being produced in Canada the difficulty has been solved for the mines, while an important new use and value has been obtained for a practically waste product of hardwood distillation.

R. H. CAMPBELL,
Director of Forestry.
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<th>Reserve</th>
<th>Timber Sales</th>
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<th>Timber Seizures</th>
<th>Grazing Permit and Trespass Dues</th>
<th>Hay Permit and Seizures</th>
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Statement of Revenue, Fiscal Year 1916-17
### Statement of TIMBER Permits issued on Forest Reserves, Fiscal Year, 1916-17.

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<th>Dues and Fees</th>
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</tbody>
</table>
## STATEMENT OF GRAZING PERMITS issued FISCAL YEAR 1916-17.

<table>
<thead>
<tr>
<th>Reserve</th>
<th>No. of Permits</th>
<th>Number of Stock</th>
<th>Dues and fees collected</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Cattle</td>
<td>Horses</td>
</tr>
<tr>
<td>Turtle Mountain</td>
<td>72</td>
<td>1,993</td>
<td>118</td>
</tr>
<tr>
<td>Riding Mountain</td>
<td>21</td>
<td>497</td>
<td>13</td>
</tr>
<tr>
<td>Duck Mountain</td>
<td>9</td>
<td>341</td>
<td>4</td>
</tr>
<tr>
<td>Spruce Woods</td>
<td>30</td>
<td>477</td>
<td>19</td>
</tr>
<tr>
<td>Moose Mountain</td>
<td>6</td>
<td>129</td>
<td></td>
</tr>
<tr>
<td>Porcupine</td>
<td>7</td>
<td>437</td>
<td>59</td>
</tr>
<tr>
<td>Pines</td>
<td>8</td>
<td>350</td>
<td>6</td>
</tr>
<tr>
<td>Beaver Hills</td>
<td>11</td>
<td>437</td>
<td>30</td>
</tr>
<tr>
<td>Nisbet</td>
<td>4</td>
<td>42</td>
<td>21</td>
</tr>
<tr>
<td>Keppel</td>
<td>35</td>
<td>434</td>
<td>54</td>
</tr>
<tr>
<td>Big River</td>
<td>1</td>
<td>42</td>
<td></td>
</tr>
<tr>
<td>Manito</td>
<td>53</td>
<td>1,267</td>
<td>238</td>
</tr>
<tr>
<td>Elbow</td>
<td>92</td>
<td>1,494</td>
<td>390</td>
</tr>
<tr>
<td>Seward</td>
<td>25</td>
<td>393</td>
<td>143</td>
</tr>
<tr>
<td>Dundurn</td>
<td>12</td>
<td>797</td>
<td>113</td>
</tr>
<tr>
<td>Crowsnest</td>
<td>66</td>
<td>4,678</td>
<td>721</td>
</tr>
<tr>
<td>Bow River</td>
<td>29</td>
<td>1,431</td>
<td>379</td>
</tr>
<tr>
<td>Clearwater</td>
<td>3</td>
<td>46</td>
<td>172</td>
</tr>
<tr>
<td>Athabaska</td>
<td>26</td>
<td>186</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>516</td>
<td>14,569</td>
<td>2,578</td>
</tr>
</tbody>
</table>

Timber Cut on Forest Reserves under authority of Timber Sales, Fiscal Year 1916-17.

<table>
<thead>
<tr>
<th>Reserve</th>
<th>Previous Sales still operating</th>
<th>Sales made Current Year</th>
<th>Mine Timber</th>
<th>Dues collected</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Saw Timber.</td>
<td>Mine Timber</td>
<td></td>
</tr>
<tr>
<td>Riding Mountain</td>
<td>1</td>
<td>20,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fort à la Corne</td>
<td>1</td>
<td>65,781</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Big River</td>
<td>1</td>
<td>5,994</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pasqua</td>
<td>1</td>
<td>121,220</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cypress Hills</td>
<td>5</td>
<td>2,676,375</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crowsnest</td>
<td>1</td>
<td>175,033</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clearwater</td>
<td>1</td>
<td>757,822</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>12</td>
<td>3,804,952</td>
<td>422,759</td>
<td>461,240</td>
</tr>
</tbody>
</table>
Statement showing the quantity of Timber sold and Revenue due during Fiscal Year ending March 31, 1917, on License Timber Berths within Dominion Forest Reserves.

**MANITOBA.**

<table>
<thead>
<tr>
<th>Forest Reserve</th>
<th>Timber Berths</th>
<th>Area in Reserve</th>
<th>Quantities Sold</th>
<th>Revenue</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Lumber.</td>
<td>Laths.</td>
</tr>
<tr>
<td>Riding Mountain</td>
<td>5</td>
<td>45.43</td>
<td>325,000</td>
<td>148 79</td>
</tr>
<tr>
<td>Duck Mountain</td>
<td>11</td>
<td>99.98</td>
<td>11,514,252</td>
<td>5,213 66</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>16</strong></td>
<td><strong>145.41</strong></td>
<td><strong>11,889,252</strong></td>
<td><strong>5,362 45</strong></td>
</tr>
</tbody>
</table>

**SASKATCHEWAN.**

<table>
<thead>
<tr>
<th>Reserve</th>
<th>No.</th>
<th>Sq. Mls.</th>
<th>Ft. B.M.</th>
<th>No.</th>
<th>Revenue</th>
</tr>
</thead>
<tbody>
<tr>
<td>Porcupine and Pasquia</td>
<td>44</td>
<td>960.99</td>
<td>22,296,544</td>
<td></td>
<td>11,599 78</td>
</tr>
<tr>
<td>Sturgeon</td>
<td>12</td>
<td>177.78</td>
<td>37,573,287</td>
<td>4,021</td>
<td>16,444 39</td>
</tr>
<tr>
<td>Big River</td>
<td>3</td>
<td>250.77</td>
<td>34,135,516</td>
<td>6,811</td>
<td>12,743 14</td>
</tr>
<tr>
<td>Nisbet and Pines</td>
<td>5</td>
<td>116.80</td>
<td>6,004</td>
<td>410 25</td>
<td>173 15</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>64</strong></td>
<td><strong>1,516.34</strong></td>
<td><strong>94,005,147</strong></td>
<td><strong>13,836</strong></td>
<td><strong>41,197 56</strong></td>
</tr>
</tbody>
</table>

**ALBERTA.**

<table>
<thead>
<tr>
<th>Reserve</th>
<th>No.</th>
<th>Sq. Mls.</th>
<th>Ft. B.M.</th>
<th>No.</th>
<th>Revenue</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crownest</td>
<td>11</td>
<td>254.94</td>
<td>2,558,766</td>
<td>780 051</td>
<td>2,846 63</td>
</tr>
<tr>
<td>Bow River</td>
<td>15</td>
<td>374.44</td>
<td>6,540,403</td>
<td>974 300</td>
<td>4,473 34</td>
</tr>
<tr>
<td>Clearwater</td>
<td>4</td>
<td>87.56</td>
<td>819.83</td>
<td>1,466 70</td>
<td>1,131 30</td>
</tr>
<tr>
<td>Brazeau</td>
<td>11</td>
<td>177.64</td>
<td>1,295 97</td>
<td>6,176 00</td>
<td>15,282 97</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>41</strong></td>
<td><strong>1,184.58</strong></td>
<td><strong>9,099,169</strong></td>
<td><strong>819,831</strong></td>
<td><strong>9,106 97</strong></td>
</tr>
</tbody>
</table>

**BRITISH COLUMBIA.**

<table>
<thead>
<tr>
<th>Reserve</th>
<th>No.</th>
<th>Sq. Mls.</th>
<th>Revenue</th>
</tr>
</thead>
<tbody>
<tr>
<td>British Columbia</td>
<td>11</td>
<td>133.57</td>
<td>667 85</td>
</tr>
<tr>
<td><strong>Grand total</strong></td>
<td><strong>132</strong></td>
<td><strong>2,979.90</strong></td>
<td><strong>667 85</strong></td>
</tr>
</tbody>
</table>
APPENDIX No. 1.

This Report concerns the tree-planting division for the fiscal year 1916-17.

The past season as a whole has been very favourable to nursery and tree-planting work. The spring of 1916 opened much later than usual, following a severe winter with an exceptionally heavy snowfall. The previous autumn left the ground in good condition as regards moisture, and the heavy covering of snow prevented evaporation during the winter and furnished additional moisture following the spring thaws. The soil, therefore, was in excellent condition for all planting operations. On account of the late spring growth was more or less retarded, and very little injury was caused by spring frosts.

The shipping season opened late, packing for the general distribution not commencing until April 25; as compared with April 10, in 1915. The weather, however, was cool and remained favourable during the shipping season. The evergreen shipments were completed by May 15. The growth of all stock in the nursery was excellent. The quality of all seedlings dug in the fall was above the average. The evergreens transplanted from seed beds to nursery rows showed very few losses, and the older transplants made strong growth and will make fine plants for distribution this spring (1917).

On September 10, 1916, digging was started. From that time until the ground froze up the season was the worst we have yet experienced. A continual run of bad weather—snow, rain, frost, mud, and cold winds—made the getting up of the stock a most disagreeable and unpleasant business, so that it was not until November 6 that the digging of the seedling stock was completed. Soil froze up solid on the 8th, so that no further work on the land was possible. We were, therefore, unable to get our usual fall sowing done, the ground being too wet and muddy to operate the seed drill.

The reports received from the inspectors covering the farm plantations are uniformly favourable. The plantations set out in the spring of 1916 made an excellent showing in all districts. All classes of stock, both seedlings and cuttings, gave a very high percentage of live plants. The older plantations made correspondingly good growth and but slight damage has been reported from winter-killing. The poplar leaf-beetle, which was noted in 1915 in certain districts of west central Alberta, apparently was much more in evidence last summer. The territory affected was very much larger and extended well into central Saskatchewan, the beetle being reported as far east as Morse on the main line of the Canadian Pacific Railway and at scattered points even east of Saskatoon. These beetles seem to suddenly appear in millions. Letters from farmers describe them as being so numerous that the sky is literally darkened by enormous clouds of the insects. In about three or four minutes after the beetles strike a plantation every poplar and willow in the belt is absolutely defoliated. Apparently no other varieties, with the exception of currants, are affected. After a few days the beetles disappear and are not seen again during the season. The suddenness with which these attacks occur make it almost impossible to effectually protect the plantations, unless the trees can be thoroughly sprayed with arsenate of lead in anticipation of the invasion. Of course in some cases the beetles are not quite so numerous and then they might possibly be controlled by spraying after the first ones were noticed on the trees. Fortunately, from all reports received, the defoliated trees leaf out again and make more or less growth before fall, but such attacks must necessarily weaken the trees and it is doubtful whether they will be able to survive severe attacks in consecutive seasons. It is to be hoped that some natural control will keep
this insect in check, as it would seem quite impossible at present to guard efficiently against it by any artificial means. When we realize that in the affected parts of Alberta the only broad-leaved trees that we can absolutely rely upon for hardiness for cultivated shelter-belts are different varieties of poplars and willows, it can be seen what serious effects repeated attacks from these leaf-beetles will have on the planting of trees generally in these districts. In Manitoba the fall canker-worm, which works principally on the Manitoba maple, is the only insect reported as at all general, although the area affected is gradually increasing. This caterpillar can be easily controlled if the trees are sprayed with Paris green or arsenate of lead at the proper season. The aphids which did so much damage in 1915 was not in evidence in 1916. In 1914 the larch saw-fly threatened to become a serious pest in the tamarack and larch plantations on the nursery station. These plantations cover in the total approximately 20 acres, and in order to save them roads were cut through at intervals of 40 feet and all the plantations thoroughly sprayed, in 1915, with arsenate of lead as soon as the larvae were noticed at work. This spraying appears to have been at least temporarily effective as not a single specimen could be found in any of the plantations during the past season.

In my last report mention was made of an arrangement arrived at with the Saskatchewan Provincial Department of Education to encourage tree planting on rural school grounds and to more effectively ensure the success of these school plantings. Under this arrangement fifty-five schools will be supplied with trees this spring. As the local school boards become more familiar with the details of this arrangement we may expect to have a very much larger number on our lists next season.

Owing to the present abnormal conditions due to the war it cannot be expected that farmers will be able to devote as much time as in the past to any farm operations that are not directly productive. In referring to Table 1 it will be seen that the number of men receiving trees this spring is approximately 400 less than in 1916. This reduction is due largely to shortage of farm labour, and, again, many of those who applied for trees have since enlisted for overseas service. A great reduction will be noticed in the number of new applications, the difference being something like 1,400. At the same time the available stock has very nearly doubled, so that, instead of an average of 875 trees and cuttings sent out to each individual in 1916, the average this spring will be about 1,675.

Up to 1916 the demands on our stock were becoming almost too heavy for us to take care of, and the average allotment of 875 trees was hardly sufficient to make anything like an efficient shelter-belt, and, in fact, in many cases the individual allotments were quite inadequate. The present falling-off in applications will allow a more generous distribution and will make it possible to furnish enough stock to each individual to enable him to set out a really practical shelter.

Table 1.—Annual Distribution of Deciduous Stock.

<table>
<thead>
<tr>
<th></th>
<th>1912</th>
<th>1913</th>
<th>1914</th>
<th>1915</th>
<th>1916</th>
<th>1917</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of applicants receiving trees</td>
<td>3,618</td>
<td>3,336</td>
<td>3,420</td>
<td>3,450</td>
<td>5,072</td>
<td>4,627</td>
</tr>
<tr>
<td>Seedlings and cuttings distributed</td>
<td>2,729,135</td>
<td>3,495,375</td>
<td>3,685,455</td>
<td>3,730,375</td>
<td>4,460,600</td>
<td>7,797,125</td>
</tr>
<tr>
<td>Average number per applicant</td>
<td>626</td>
<td>988</td>
<td>1,077</td>
<td>1,078</td>
<td>975</td>
<td>1,684</td>
</tr>
<tr>
<td>Number of applicants on inspection list</td>
<td>7,375</td>
<td>6,987</td>
<td>7,187</td>
<td>9,579</td>
<td>10,275</td>
<td>9,677</td>
</tr>
<tr>
<td>Number of new applications received</td>
<td>1,449</td>
<td>1,899</td>
<td>1,550</td>
<td>3,698</td>
<td>2,855</td>
<td>1,434</td>
</tr>
</tbody>
</table>

1 Compiled March 19, 1917. Figures will be slightly altered when 1917 lists are completed.
2 Supplementary to these figures considerable stock will be shipped to the Saskatoon Nursery, Manitoba Education Department, and other Public Institutions.
For inspection purposes the three prairie provinces were divided into nine districts, each one covered by an inspector. The following table shows the number of applicants in each of these districts, number of trees allotted in each district, etc.

Table 2.—Distribution of Trees in Relation to Districts, 1917.

<table>
<thead>
<tr>
<th>District</th>
<th>Number men on list</th>
<th>Number to receive trees</th>
<th>Number trees allotted</th>
<th>Average number per applicant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central and Southern Manitoba</td>
<td>804</td>
<td>272</td>
<td>472,950</td>
<td>1,738</td>
</tr>
<tr>
<td>Central Saskatchewan east of Saskatchewan</td>
<td>1,077</td>
<td>437</td>
<td>690,925</td>
<td>1,581</td>
</tr>
<tr>
<td>Southeastern Saskatchewan</td>
<td>1,228</td>
<td>570</td>
<td>1,174,700</td>
<td>2,060</td>
</tr>
<tr>
<td>Northern Manitoba, Saskatchewan and Alberta</td>
<td>1,115</td>
<td>571</td>
<td>833,575</td>
<td>1,455</td>
</tr>
<tr>
<td>Southern and Western Alberta</td>
<td>1,285</td>
<td>635</td>
<td>988,000</td>
<td>1,516</td>
</tr>
<tr>
<td>Central Alberta</td>
<td>1,275</td>
<td>525</td>
<td>731,930</td>
<td>1,394</td>
</tr>
<tr>
<td>Southern and Western Saskatchewan</td>
<td>1,217</td>
<td>474</td>
<td>699,025</td>
<td>1,901</td>
</tr>
<tr>
<td>Central Saskatchewan west of Saskatchewan</td>
<td>1,140</td>
<td>583</td>
<td>945,725</td>
<td>1,774</td>
</tr>
<tr>
<td></td>
<td>1,136</td>
<td>596</td>
<td>1,049,675</td>
<td>1,779</td>
</tr>
<tr>
<td>Total</td>
<td>10,275</td>
<td>4,625</td>
<td>7,797,125</td>
<td>1,684</td>
</tr>
</tbody>
</table>

The following is a statement of the planting plans prepared during the winter and the correspondence handled during the fiscal years 1915-16 and 1916-17:

Planting plans prepared, fiscal year 1915-16, 4,441; 1916-17, 3,583.

Pieces of mail received, fiscal year 1915-16, 22,076; 1916-17, 18,598.

Pieces of mail sent out, fiscal year 1915-16, 29,536 (including 4,270 plans franked); 1916-17, 26,982 (including 3,574 plans franked).

New files added, fiscal year 1915-16, 4,864; 1916-17, 2,604.

The record of pieces of mail sent out does not include bulletins, these being sent out from the head office at Ottawa.

NURSERY WORK.

For the first time a distribution of stock was made from the new Saskatoon Nursery station at Sutherland. This nursery, located in the outskirts of Saskatoon, is situated so that it can serve all the country to the north of Saskatoon and the main lines and branches running east and west into Manitoba and Alberta; while the Indian Head station covers all shipments in the southern halves of the three provinces. In order to equalize the stocks at these two distribution centres it will generally be necessary to exchange different quantities of certain varieties between the two nurseries. Last spring we, therefore, shipped from Indian Head to Sutherland 1,042,000 seedlings of maple and ash, and from Sutherland to Indian Head 50,000 cuttings of Russian poplar. In 1916 a somewhat larger stock was raised at Sutherland, so that the transfer will not be so heavy from Indian Head this spring.

At Indian Head the following areas were under nursery stock: Maple, 17 acres; one-year ash, 21 acres; two-year ash, 24 acres; conifers, 11 acres; caragana, 8 acres; Russian poplar stock, 6 acres; willow stock, 3 acres; total, 90 acres. In the fall of 1916 we managed to get 11 acres of ash sown, but no caragana or maple.

At the Saskatoon station the areas under nursery stock were as follows: Maple, 22 acres; one-year ash, 21 acres; two-year ash, 20 acres; caragana, 5 acres; Russian poplar stock, 2 acres; willow, 3 acres; total, 73 acres.

Owing to rather inadequate shelter, the plots at Sutherland suffered some setbacks because of drifting soil, and the ash was badly damaged from summer frosts, so that the output of ash seedlings is very small compared to the average.
Stock available for distribution in 1917:

At Indian Head—

<table>
<thead>
<tr>
<th>Plant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maple seedlings</td>
</tr>
<tr>
<td>Ash seedlings</td>
</tr>
<tr>
<td>Caragana seedlings</td>
</tr>
<tr>
<td>Willow cuttings</td>
</tr>
<tr>
<td>Russian poplar cuttings</td>
</tr>
<tr>
<td><strong>Total</strong></td>
</tr>
</tbody>
</table>

At Sutherland—

<table>
<thead>
<tr>
<th>Plant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maple seedlings</td>
</tr>
<tr>
<td>Ash seedlings</td>
</tr>
<tr>
<td>Caragana seedlings</td>
</tr>
<tr>
<td>Willow cuttings</td>
</tr>
<tr>
<td>Russian poplar cuttings</td>
</tr>
<tr>
<td><strong>Total</strong></td>
</tr>
</tbody>
</table>

**Total of broad-leaved stock** | **8,881,500**

To these may be added the following conifers from Indian Head—

<table>
<thead>
<tr>
<th>Plant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scotch pine, 4-year transplants</td>
</tr>
<tr>
<td>Jack pine, 4-year transplants</td>
</tr>
<tr>
<td>Lodgepole pine, 4- and 5-year transplants</td>
</tr>
<tr>
<td>White spruce, 5-year transplants</td>
</tr>
<tr>
<td><strong>Total</strong></td>
</tr>
</tbody>
</table>

**Grand total** | **9,086,200**

Collection of seed.—From the seed collector’s standpoint 1916 was a comparatively good seed year for ash but poor for other varieties, the very unfavourable fall weather making collections very difficult. The following were collected: Caragana, collected on Indian Head nursery, 325 pounds; ash, collected in Qu’Appelle valley, about 4,500 pounds; Scotch pine, collected on Indian Head nursery, 10 bushels of cones—seed extracted, 83 pounds; Manitoba maple, collected in the nursery and in Qu’Appelle valley, about 1,400 pounds. All seeds used in the Saskatoon nursery have been collected, cleaned, and sent from the Indian Head station.

Conifers.—In the spring of 1916 the following seedlings were set out in nursery rows:

<table>
<thead>
<tr>
<th>Plant</th>
</tr>
</thead>
<tbody>
<tr>
<td>White spruce, 3-year seedlings</td>
</tr>
<tr>
<td>Scotch pine, 2-year seedlings</td>
</tr>
<tr>
<td>Jack pine, 2-year seedlings</td>
</tr>
<tr>
<td>Lodgepole pine, 2-year seedlings</td>
</tr>
<tr>
<td><strong>Total</strong></td>
</tr>
</tbody>
</table>

The following were dug and shipped under the usual conditions in the spring of 1916 at a nominal price of $1 per 100: White spruce, five-year transplants, 110,400; jack pine, four-year transplants, 25,100; lodgepole pine, four-year transplants, 17,600; Scotch pine, four-year transplants, 7,600; total, 163,700.

About 2,400 of these were sent to various experimental farms and ranger stations. In all 730 separate shipments were made. In addition to the above the following seedlings and transplants were sent out for planting on the Dundurn, Manito, and Elbow reserves in Saskatchewan: White spruce seedlings, 6,300; white spruce transplants, 2,100; jack pine seedlings, 10,500; Scotch pine seedlings, 6,300; total, 25,200; making the total number of conifers shipped out 188,900.

The reports from the individual planters, in reference to the planting of these evergreens, indicate very general success. In many cases lots of 500 were set out without losing a single plant. Three per cent would cover all losses on the average. Very encouraging reports are also being received on the growth of similar stock sent out in previous seasons. The farmers are beginning to learn from experience that the evergreens are as easy to handle as the broad-leaved varieties, and although somewhat slower growers at the start, they eventually make a more efficient shelter,
especially during the winter. Once these hardy evergreens become established there is practically no danger of winter-killing, and up to the present they appear to be but little subject to any serious insect attacks.

At present under lath-screened seed beds are the following areas:

<table>
<thead>
<tr>
<th>Variety</th>
<th>3-year plants</th>
<th>2-year plants</th>
</tr>
</thead>
<tbody>
<tr>
<td>White spruce</td>
<td>2,400</td>
<td>1,550</td>
</tr>
<tr>
<td>Scotch pine</td>
<td>2,100</td>
<td>650</td>
</tr>
<tr>
<td>Jack pine</td>
<td>2,100</td>
<td>2,350</td>
</tr>
<tr>
<td>Lodgepole pine</td>
<td>1,850</td>
<td>1,850</td>
</tr>
<tr>
<td>Total</td>
<td>14,650</td>
<td></td>
</tr>
</tbody>
</table>

The seed of the Scotch pine sown in 1916, as stated in my last report, was extracted from cones collected on the nursery here from trees raised from seed and set out in permanent plantation in 1906 as three-year-old transplants. These trees were in 1916 only 13 years old and we were doubtful as to germination of seed and quality of the seedlings. The resulting stands in the seed beds are practically perfect and the growth of seedlings strong and vigorous. We shall, undoubtedly, from now on be able to secure all the seed of this variety which we are likely to require without going off the nursery. Seed secured in this way is more likely to produce stock suitable for prairie planting than that procured from European sources and of doubtful origin.

PERMANENT PLANTATIONS.

No additions have been made to the permanent plantings since my last report. The growth during the season of 1916 was good. The usual growth measurements were made as in past seasons.

GENERAL FARM WORK.

Owing to pressure of other work no new land was brought under cultivation. Fifty acres of oats, which were, however, about 50 per cent hauled out, furnished grain and straw for the horses. Thirty-five acres were summer-fallowed. Thirty acres were in hay, of which 25 acres were ploughed immediately after cutting. Ten acres of new hay land were sown, and besides this about forty acres of nursery land were ploughed and cultivated after the stock was lifted in the fall.

SASKATOON NURSERY STATION.

The amount of stock grown on this nursery has already been stated. This nursery, located at Sutherland adjoining the city of Saskatoon, is now well established, though shelter-belts and hedges, naturally, will require time for development. Good permanent shelter-belts of conifers have been set out on the east, south, and west sides of the half-section. At present only the south quarter is to be used for nursery plots. These are to be divided from each other by caragana hedges, following practically the same plan which has given such good results on the Indian Head nursery. The main approach to the buildings consists of a well-graded and gravelled road, planted along both sides with wide borders of ornamental shrubs and trees. In front of the superintendent’s residence an ample lawn has been laid out, also enclosed by an irregular border planting of trees, shrubs, and perennials. This portion of the grounds has made good progress and has already attracted numerous visitors to the nursery.
A much needed addition to the buildings, in the shape of a roomy boarding-house, was made during the past season and this will help to simplify the labour problem. This nursery could now be considered as thoroughly equipped if adequate water supply can only be secured. The original well, which when sunk gave promise of an abundant supply of water, has since then gradually silted up and proved quite insufficient. Attempts were made to sink deep wells last spring but on account of quicksand and boulders two holes had to be abandoned after drilling to a depth of about 90 feet. Apparently the only reliable supply is to be secured by piping water from the Sutherland water-mains. At present all water for domestic use and most of that required for the stock has to be hauled in tanks from Sutherland. This means a great deal of lost time both for teams and men and is generally rather unsatisfactory.

**PLANTING ON THE FOREST RESERVES.**

Experimental plantings of 4 acres each were set out on each of the following reserves in Saskatchewan: Elbow, Dundurn, and Manito. The sites for these plantings were selected, so far as possible, in situations typical of the larger areas which must be subsequently planted up.

On the Spruce Woods reserve in Manitoba a more extended planting of some 27 acres was undertaken. The stock for this latter planting was grown entirely on the reserve, in a nursery adjoining the ranger house.

The soil on all these reserves is very similar, being an almost pure sand supporting a very light growth of grass; in places patches of various sizes are grown over with ground cedar which spreads over the surface forming a dense, matted growth from 2 to 6 inches high. The prostrate stems of this cedar are very tough and often 2 inches in diameter, so that it is not practical to plough or cultivate such patches.

The planting was done entirely in plough furrows which run east and west, with the sod thrown to the north, the seedlings being set in the bottom of the furrow and close up to the land side so that they would be more or less shaded. Seedlings were set in wedge-shaped holes made with planting irons, but in handling transplants it was found necessary to dig out holes with spades.

Figures, as accurate as possible, were kept in all cases as to labour cost of these plantings. The small plantings on the three Saskatchewan reserves averaged $11.39 per acre, not including cost of transporting seedlings or the labour of the ranger in charge of the work. The cost of setting out approximately 30 acres on the Spruce Woods reserve is given as $9.93 per acre for seedlings and $20.75 per acre for transplants. This includes the cost of digging in the nurseries and transport to the planting site, which, however, in this case was close at hand. These figures do not include charges for supervision or the ranger’s time, except when he was actually doing planting personally. Thus the cost of planting and digging the transplants is double the cost of handling the seedlings, and the cost does not take into account the great expense of transplanting in the nursery, or the larger area of nursery ground required. From the reports this season it would appear that on the small reserves the transplants have shown less than the seedlings, but on the Spruce Woods the reverse is the case. This is probably to be accounted for by the fact that the stock sent out from the Indian Head nursery, having been grown on much richer soil, has good compact root systems, whereas the stock grown on the almost pure sand of the Spruce Woods reserve had very thin, straggly roots and consequently gave poorer results. Again, white spruce, which was used on the Saskatchewan reserves, in our experience always transplants with less loss than the pines, which were the only varieties of transplants used on the Spruce Woods.

The composition of each of the four-acre plantations on the Dundurn, Elbow, and Manito reserves was similar. The four acres were divided into eight half-acre plots and these were planted as follows: (1) alternate rows of caragana and Scotch
pine seedlings; (2) Scotch pine seedlings; (3) alternate rows of caragana and jack pine seedlings; (4) alternate rows of caragana and white spruce seedlings; (5) white spruce seedlings; (6) white spruce transplants: (7 and 8) jack pine seedlings.

Reports sent in by rangers in the autumn show fairly good results on the Manito and Dundurn reserves, but not so good for Elbow reserve. As conditions are practically similar on all three it is difficult to account for the comparatively large losses on the latter reserve. The reports are as follow:

Dundurn reserve: loss covering all varieties, due largely to drifting sand burying the young seedlings, 3 per cent.

Manito reserve: white spruce transplants, no loss; white spruce seedlings, 5 per cent loss; jack pine and Scotch pine seedlings, 3 per cent loss; with some damage due to moles covering up plants.

Elbow reserve: white spruce transplants, 2 per cent loss; jack pine seedlings, 9 per cent loss; white spruce and Scotch pine seedlings, 30 per cent loss.

On the Spruce Woods reserve the following stock was planted:

Lodgepole pine transplants, 3 1/2 acres, 10,900 plants.
Jack pine transplants, 5 1/2 acres, 15,100 plants.
" and caragana alternate rows, 1 1/2 acres, 1,968 (of each).
" 2-year-old seedlings, 17 acres, 50,100 plants.

An examination of these plantings, made by the district inspector late in June, showed a loss of 1 per cent in the seedlings and 2 per cent in the transplants. A report from the ranger in September is to the effect that the seventeen acres of jack pine seedlings were looking very well, only a very small percentage of the plants had died, due, probably, to the excessive heat. The jack pine and lodgepole pine transplants had done well but showed a loss of probably 10 per cent.

In all the reserve plantings the spacing was, as far as practical, the same in every case. That is, the furrows were run approximately four feet apart and the plants placed about four feet apart in the row.

All the plantings, to date, are of a more or less experimental nature and as yet no definite scheme has been worked out for the more extensive plantings which must be made in future seasons. Before any such planting can be worked out it is first necessary to have a definite knowledge of the portions of the reserve which will require to be planted. A surface survey of each of these reserves will, therefore, have to be made, which should show, when mapped, the general topography such as creeks, sloughs, important elevations, trails, etc., and also the areas at present partially timbered and those entirely bare of trees, which will, of course, be the portions to be first planted. On most of the reserves certain areas are more or less covered with a natural growth of aspen and such deciduous shrubs as are usually found growing with it. The aspen will spread rapidly when given good fire protection, and, as it makes quite a good fuel and is the common wood fuel of the prairies, it may possibly be the best policy to encourage the reproduction of aspen wherever possible, instead of trying to introduce conifers which must be artificially planted. In any event there are large areas on all the reserves which cannot possibly become forested except by artificial methods, and these should receive first attention.

A survey was started on the Manito reserve, but unfortunately was stopped after a few weeks, owing to the man in charge leaving to engage in other work. In all, twenty-seven sections in the northwest corner of the reserve were covered, being in townships 42 and 43, ranges 27 and 28. A map (scale 3 inches to the mile) showing the data obtained was prepared and forwarded to Ottawa.

VIDAL'S POINT PARK.

The public park property, locally known as "Vidal's Point," on the northwest quarter of section 4, township 20, range 12, west of the 2nd meridian, has been under the supervision of the Indian Head office for several seasons. This property com-
prises about twenty acres along the shore of lake Katepwe, the most easterly of the Fishing lakes, a chain of five lakes in the Qu'Appelle valley. This is the only land along the lake shores not held in private hands and, consequently, is largely used by the neighbouring public for camping and picnics. Certain portions of the property were originally well treed, but a great many of the trees were destroyed or damaged by thoughtless campers, principally through the biting away of the bark by horses which were tied to the trees, often for days at a time. Soon after being put under the supervision of this office, in 1911, the property was fenced and a farmer living alongside engaged as caretaker, to see that horses were not allowed to be brought inside the fence and to warn the public generally against injuring trees or shrubs.

When the ground was first fenced it was divided into two portions, one part to be used for camping purposes and the other only for picnics, bathing, etc. There is an excellent sand bathing-beach here, and as a summer hotel is situated on the immediately adjoining property there is always a large number of people who make use of this portion of the park.

Last spring the other part was surveyed into 58 camping lots with an average of 30 feet frontage. Permits are granted for camping privileges at a nominal fee of 50 cents per lot per month. Nineteen permits were issued during the summer, covering periods of from one to five months each. Probably each permit represents about four people, mostly women and children, so that, roughly, about 75 people camped here during the past summer.

NORMAN M. ROSS,
Chief of Tree-Planting Division.

APPENDIX NO. 2.

The following report concerns the work done in the Manitoba inspection district during the fiscal year 1916-17. It covers the work done on the Riding Mountain, Duck Mountain, Turtle Mountain, and Spruce Woods forest reserves, and on the Manitoba South, Manitoba North, Pas, and Port Nelson fire-ranging districts.

IMPROVEMENTS.

Riding Mountain forest reserve.—The road work on this reserve was confined to maintenance only, and principally to parts of the Central road and opening up of the Birdtail road. This work covering some 73 miles consisted of replacing and repairing bridges, grading, corduroying, etc., and was done by Forestry Branch teams and small gangs of men assisted by the rangers.

The present road system enables the officers to reach almost any part of this reserve with horses, but when funds can be obtained and conditions return to their normal state it is the intention to make further improvements, so as to permit automobile travel on some of the principal routes. This will give much more rapid access in case of fire, will enable the public to get in and out of the reserve, and will give travellers an idea of the work being carried on by the Forestry Branch. Frequent requests have been made to have this work carried out.

Work was performed on some 60 miles of fire lines and boundaries. New work covered 35 miles and consisted of clearing out the lines and piling the debris ready for burning. Ten miles of this were cleared under contract and the work was so satisfactory that it is hoped more can be done in this way. On the lines where clearing had been done in former years the debris was burned, some parts which were
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open were ploughed, and in one section bridges were erected so as to enable teams to travel over it. Forestry Branch teams were used on all work possible for horses.

One steel look-out tower was erected in the Whirlpool district where a commanding hill permits an extensive view.

No new buildings were erected, though two ranger houses were improved and material laid on the ground for a new house in the Russell district which will be erected at an early date. The four cabins with their stables, which were built last year, were completed by being chinked and plastered so as to be habitable during the winter. These have proved great conveniences to officers when their work necessitated their being absent from headquarters over night.

The telephone work consisted of maintenance and covered some 200 miles, on 24 miles of which, in the Whirlpool section, poles were erected, as the original tree line was not found satisfactory. A quantity of new poles was taken out for repairs during the coming season.

Although it was reported that this line was not satisfactory no complaints have been laid by the officers on the reserve, and only on rare occasions has it been impossible for the supervisor to get in touch with the rangers, who report to him daily.

_Duck Mountain reserve._—The principal road work on this reserve was done in the extension of the central road with the intention of completing it to the north boundary at Minitonas ranger station, but owing to the scarcity of labour and the high rate of wages and supplies this was not accomplished, though 23 miles were finished, leaving 6 miles to complete, which will be taken in hand as soon as possible.

New construction to the extent of 2 miles was found necessary on the Kamsack-Lake Madge road, as a homesteader, through whose property the original road led, desired to fence it in. We have now, however, a much better road over which visitors to the lake can travel with automobiles.

Work was commenced on a road from the north boundary to lake Madge to enable patrons from the Swan River valley to reach a very pretty beach at the northeast angle of the lake, where it is desired to establish a second summer resort. Some 4½ miles of this were put in first-class condition, and it is the intention to complete this at an early date.

Six miles of fireguard were cut and cleared in the Grandview district and the débris burned; in the Deepdale district 4 miles were improved and put in condition for travel, which will save the ranger some five miles when travelling north. Other fireguards were cleared up, and on one the line was widened five feet, and the débris burned wherever it was possible to do so.

Several minor trails were cleared out and repaired, and on the whole the work carried out has done much towards the opening up of this reserve and is most satisfactory, though it entailed very heavy work owing to the hilly nature of the country traversed.

The principal work on telephone lines was concentrated on the extension of the line following the central road, which comprised 28½ miles of No. 9 grounded line, which is practically all strung on poles, though, when suitable, trees were cut off and used. The maintenance of older lines demanded a good deal of attention, such as setting new poles and re-tying. It is desired to have telephone connection with the Kamsack ranger station, and in order to do this material was taken out to erect a line from lake Madge to the western boundary to connect with the Kamsack local system. The idea, however, had to be abandoned as it was found impossible to make satisfactory arrangements with the owners of the Kamsack system.

The Lake Madge summer resort as usual attracted a great number of people, on Sundays and holidays especially, the improvement on the road permitting the use of motors. Several very attractive cottages were erected and more attention generally was paid to this beautiful spot. A restaurant, with public stables in connection, was opened and proved a great convenience to transient visitors.
Material was taken out and work commenced on a wharf for use of the campers, and lumber laid down for two bathing-houses for the convenience of the lessees of lots who have, I understand, formed themselves into an association, with the intention of farming rules for the management of the resort and making marked improvements to their premises during the coming summer.

_Turtle Mountain reserve._—The improvement work done was principally in the way of maintenance of trails and fire lines, only 6 miles of new construction having been undertaken and this was along the Canada-United States boundary, where 2 miles were cleared and ploughed while the timber was cut out along the other 4 miles, some of the heavy stumps having had to be blown out preparatory to ploughing. The remainder of work under this heading was in improving roads which also serve as fireguards, and consisted in grading, building bridges and culverts, and mowing and burning the growth at the sides. No new buildings were erected, but improvements were made at both headquarters establishment and the West cabin.

The pasture fence called for considerable repairs. Material was also placed on the ground for dividing the main pasture in two, the object being to keep the stock owned by patrons living to the west of the reserve separate from the stock of those living to the east.

The system of "cutting-out" corrals was installed at the east end of the pasture to facilitate the distribution of the stock in the fall, and has proved so convenient that it is intended to erect a similar set at the west end, for which purpose material has been secured from the Riding Mountain reserve, where some of the fire-killed timber was taken out during the winter.

_Spruce Woods reserve._—No new work was undertaken on this reserve in the way of roads or fireguards, though maintenance work on the latter to the extent of 102 miles was carried on by re-ploughing 68 miles and disc-harrowing 34 miles. Nothing was done in the way of new buildings on this reserve, but necessary repairs were made.

The only new construction was that of a wind-driven pumping-plant set up at the south end of the pasture enclosure, consisting of a 10-foot wheel, 4 by 16 syphon-pump, 50-barrel storage tank, and a 24-barrel watering-trough. The water is obtained through four sand points, and an ample supply is always on hand. This plant was found necessary as stock had to travel too far to reach the ranger station.

All necessary repairs were made to the pasture fence by fastening wire, which in many places the moose had stripped off the posts for considerable distances, and setting new posts.

The work on telephone lines on this reserve was all maintenance, consisting of putting in some new poles, re-setting others that had been broken off at the ground but were still serviceable, and tightening wires.

**SILVICULTURE.**

_Riding Mountain reserve._—There were 504 timber permits issued during the year, covering fuel, fence-posts, etc., to the amount of about 1,500,000 feet board measure. A large proportion of all timber taken out was from areas burned one or two years ago. The brush disposal was very satisfactory, the mill operators complying with instructions readily.

A quantity of fence-posts and rails was taken out for use on the Turtle Mountain and Spruce Woods reserves, where it is not possible to secure such material, and a supply of tamarack telephone poles was cut and distributed for repairs.

_Duck Mountain reserve._—A long period of exceptionally cold weather prevented many people from going to the bush for timber, and of the 235 permits issued two-thirds were for free timber. The permits issued covered 500,000 feet board measure of lumber besides fuel and fence-posts.
The mill operators are realizing more each season that it is to their own advantage to leave the forest in good condition, the result being that the brush disposal on the Duck Mountain reserve was most satisfactory.

A quantity of telephone poles for repairs and new construction was taken out, together with material for a wharf at Lake Madge summer resort.

Turtle Mountain Reserve.—The number of permits was larger than in any former year, due, it is thought, to the financial stringency, as numerous settlers who had heretofore purchased fuel from outside points took advantage of the free supply offered under permit. One hundred and twenty-nine applications were made, calling for 3,311 cords of fuel, all of which was cut from dead or diseased timber.

No planting was done, but the experimental plantation was cultivated, trees were hoed and cleared of weeds, and protection given by the erection of a rabbit-proof fence, as during the previous year these rodents had done considerable damage to the transplants.

Spruce Woods reserve.—Fifty-seven timber permits calling for 366 cords of fuel were taken out. These permits covered only dry or diseased timber, as the practice of confining cutting to these classes is still adhered to. No trouble was experienced on this reserve over the brush disposal question.

While no tree seeds were sown on either of the nurseries, these were kept in good condition and the usual work of weeding and watering carried on. Sunflowers were planted round the tree beds to protect them from drifting sand.

To the south and west of Shilo headquarters, 28 acres were planted from the nursery beds. This plantation comprised jack pine seedlings, 17 acres; mixed jack pine and caragana seedlings in alternate rows, 1½ acres; jack pine transplants, 5½ acres; lodgepole pine transplants, 4 acres. The results of this planting have been very good and the losses have been light.

Vigorous growth has taken place in the Scotch pine plantation to the south of Camp Hughes, where the only work required in the past season was that of clearing the fireguards. Little damage was done last winter by rabbits, though heavy drifts of snow broke down and injured some of the trees.

The success met with in this project is very gratifying and demonstrates that when funds are available the reforestation of this reserve can be undertaken with fair prospects of success, provided the fire danger can be controlled. Already our work in this line is showing good results.

Grazing.

Riding Mountain reserve.—There is no closed grazing on this reserve, but twenty permits were issued for open grazing covering 499 head of stock. As there are very large areas of excellent, well-watered pasture lands to be found, it is hoped greater use will be made of these advantages in the near future.

Duck Mountain reserve.—Little attention was paid to the large areas of pasture land on this reserve, and only two permits covering 68 head were taken out. This is no doubt due to the fact that there are large areas of unoccupied land adjacent to the reserve which furnish grazing for such stock as are owned by the settlers in the vicinity.

Turtle Mountain reserve.—On this reserve seventy-two permits were taken out for 1,231 head of stock, of which 118 were horses and about 75 head, under six months of age, the progeny of the herd. This shows a steady increase from former years and is practically double the number grazed last year. Stock were brought from a distance of 50 miles, and as many as 40 head were the property of one owner.
The pasturage was excellent, and stock when handed over to the owners at the end of the season were in the pink of condition.

There is ample accommodation for many more head, and the herd is expected to be increased this coming season. Arrangements are being made to keep stock coming from the west separate from that from the east, thus making it more convenient for patrons to remove them in the fall. There was no open grazing this year on this reserve.

Spruce Woods reserve.—The number of stock grazed did not come up to expectations, high prices for all classes of stock and the great demand induced many owners to dispose of or reduce their herds. Permits covering 292 head of cattle and 77 horses were issued for the enclosed grazing and for 60 head of cattle on the open grazing. The trouble formerly experienced from footsoreness, caused by the long walk to water, was overcome this season by the installation of the wind-mill pumping-plant at the south end of the enclosure. This was found most satisfactory and the stock in the enclosure were delivered in good condition.

USES OF LAND.

Fish and Game.—On lake Max and other bodies of water in the Turtle Mountain reserve, where in the past the good fishing was such an attraction, great numbers of fish were found dead on the opening of spring. While the cause is not known it is thought this may have been due to the heavy snowfall which occurred early in the fall, immediately after the lakes froze, and which excluded the air from the water. The result was that no fish were caught in these waters and many of the former patrons did not visit the lake. During last winter, however, fish were seen at the water-holes. This, together with the fact that the same trouble occurred in lakes in the vicinity of the Duck Mountains, confirms my opinion that it was lack of air which caused the fish to die, and not the decay of vegetable matter; and I hope the stock may be replenished.

On lake Madge, in the Duck mountain, good fishing was to be had and some of the pickerel, with which the lake was stocked two years ago, were taken but returned to the water.

A large number of sportsmen hunted in the Riding and Duck mountains during the big game season and most parties met with success.

The game laws were changed at the last session of the Manitoba Legislature and the killing of elk and all varieties of grouse was prohibited. This was very necessary, as the former are getting scarce while practically no prairie chicken or partridge were to be seen during the shooting season last fall. Numbers of partridge and chicken are, however, to be seen now, and it is hoped that if this is a favourable breeding season and the law is enforced, the supply will increase.

Hay permits.—Three thousand six hundred and forty-two tons were covered by 196 permits which were distributed over the different reserves as follows:—Riding Mountain, 101 permits, 1,899 tons; Duck Mountain, 50 permits, 1,505 tons; Turtle Mountain, 37 permits, 578 tons; Spruce Woods, 8 permits, 160 tons.

As a safeguard against fire, and to improve the yield, rangers have been instructed to burn off all meadows wherever possible before the snow melts in the bush.

Summer resorts.—Owing to the financial stringency and the absence of so many of our young men who have enlisted, the summer resort patrons did not improve their lots as it was expected, though week-end visitors were quite numerous, particularly at lakes Max and Madge which are the most popular summer resorts.

Clear Lake summer resort.—Little attention was paid by the public to this resort in the Riding mountains and at the original site no new lots were taken up, but
another beach was laid out at the east end and several of these lots were taken up. The holders intend to build this summer.

Lake Max summer resort.—Though there were not the usual number of campers attending lake Max, Sundays and holidays found very large parties, and all the cottages were occupied during the season. The failure in fishing had a great deal to do with this falling off of visitors.

Lake Madge summer resort.—The road leading from Kamsack to the summer resort at lake Madge was improved so as to enable motors to travel over it, with the result that there were more transient visitors than during any previous year. While but few additional lots were taken up a number of very attractive cottages were erected and more attention was paid to keeping the premises neat. The lot-holders are taking keen interest in this resort, and have formed themselves into an association with a view to establishing rules for its management. A number of new boats, several being motor driven, were placed on the lake and a boat livery was in operation for use of transient visitors. A wharf for the use of the public is in course of construction, which will encourage the use of better and larger craft on the lake, an ideal spot for boating.

There is another very pretty beach at the northeast angle of the lake where the residents of the Swan River valley desire to establish a summer resort, it being more accessible for them than the present site. It is the intention to lay out a number of lots along this beach during the coming summer and, as the road to it is practically completed, I expect it will become a popular camping ground.

SURVEYS.

No alterations were made in the boundaries of the forest reserves in Manitoba during the year, but reconnaissance surveys were carried on outside of the reserves by two parties, the object being to ascertain whether the areas covered were suitable for agriculture or should be formed into forest reserves.

Messrs. L. S. Webb and G. M. Linton covered that tract situated on the east shore of lake Winnipeg northward from Poplar river to the north boundary of township 57, and from the lake front to the Ontario boundary, some 12,456 square miles, through which area several large streams flow. Practically no agricultural lands were found, and recommendations have been made that it should be formed into a forest reserve so as to provide better protection from fire. This would also provide for the proper administration of the timber, much of which, it is thought, will ere long be of such value as to warrant marketing.

The territory examined by Messrs. E. J. Guay and Thomas Maher covered some 3,500 square miles, between townships 37 and 51 and the Canadian Northern railway and lake Winnipegosis. No agricultural lands of any value were found in this area, but there was not a sufficient quantity of timber to warrant the establishment of a forest reserve, nor does it contain the source of any streams whose watersheds would call for conservation. A few isolated areas were found suitable for settlement, most of which were occupied.

FIRE-RANGING.

The fire-ranging work outside of the forest reserves was divided into four districts, viz.: Manitoba South, Manitoba North, Pas, and Port Nelson.

Manitoba South district.—This district was divided into thirteen patrols, there being thirteen rangers and four assistants. The staff, on the whole, was a great improvement over the previous year and gave very good service.
The patrols were made both by canoe and on foot, the lake Winnipeg and lake Winnipegosis patrols being made by canoe and sail-boat. We also had a small skiff with a detachable gasolene engine which proved very advantageous to the service.

On account of the heavy snowfall in the winter of 1915-16 and frequent rains in the spring and early summer the country was very wet and most favourable for our work.

In all we had five large fires reported, covering an area of 1,040 acres and incurring an expenditure of $7.20, exclusive of ranger service, which is indeed most satisfactory. There was no merchantable timber destroyed and very little young growth. There were also 34 small fires, covering not more than ten acres each, which were extinguished by the rangers and caused no extra expense.

The season can be termed as very fair, and the good service rendered by the majority of the rangers is in no small measure accountable for the result.

**Manitoba North district.**—The Manitoba North fire-ranging district has been for some time under the charge of Mr. J. T. Blackford at Norway House, the patrol work being performed by Indian rangers who have an intimate knowledge of the districts to which they are assigned. These men work in pairs, and patrols are made by canoe.

Mr. Blackford has been furnished with two motor-canoes, for his use in the waters accessible to his district without portaging, which are found most serviceable. He frequently makes inspections of the outlying districts to see that the rangers are doing their work properly, and at the same time interviews as many of the Indian tribes as possible. When it is not possible during the summer to complete the reports or prepare maps of each of the fires that may have occurred Mr. Blackford travels by dog train in winter and secures this information.

It is very pleasing to note that only six large fires and six small ones are reported for the season of 1916, and though they burned over a considerable area very little damage was done.

The season, on the whole, in this district was very satisfactory and is no doubt due to the strong influence Mr. Blackford has with the people in his district and the co-operation he receives from the Indian chiefs.

**Pas district.**—This district was again handled by Chief Ranger Fischer and nine rangers, eight of whom were allowed assistants as all the patrols are made by canoe. It might be well to mention that Mr. Fischer enlisted for overseas service in August and his place was filled by Mr. B. M. Stitt who handled the district very well during his term of office. Very good results were obtained in this district, there being only three fires reported which burned over an area of 680 acres and incurred an expenditure of $79, exclusive of ranger service. Very little damage was done to the timber, the estimate of damage being $2,000. This is a very satisfactory report when one takes into consideration the fact that miners and prospectors were so active in different parts of the district.

**Port Nelson district.**—This district was organized during the early part of the season, there being two rangers, each with an assistant. Patrols were made in canoes, one ranger taking the Nelson river and the other taking the Hayes river. The patrol work was kept up until the latter part of October and no fires were reported during the season, which is indeed very satisfactory.

**Fires in forest reserves.**—The past season has probably been the most satisfactory we have had in this district. No fires were reported from the Turtle Mountain or Spruce Woods reserves, and only one on each of the Riding and Duck Mountain reserves. This is most satisfactory, and is no doubt due to a large extent to the publicity work done and educational policy carried on by several of our officers in the course of the last year. It is very gratifying to note the hearty co-operation we
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are receiving from the settlers living adjacent to the reserves in respect to forest fires. The weather conditions for the greater part of the season were very favourable to our work and, coupled with the heavy snowfall the previous winter, helped materially to keep the fire danger down.

F. K. HERCHMER,
District Inspector of Forest Reserves for Manitoba.

APPENDIX No. 3.

This report concerns the Saskatchewan inspection district for the fiscal year 1916-17.

The province of Saskatchewan has a total area of 251,700 square miles or 161,688,000 acres, with an average population of about two people to the square mile, or one person to every 320 acres. Approximately 151,000 square miles or 96,640,000 acres lie south of the Churchill river, with an average population of three and one-third people to the square mile, or one person to 260 acres. At the present time the work of the Forestry Branch pertains only to that part of the province lying south of the Churchill. The work of the branch is divided into two classes in this district: (1) the forest reserves, and (2) the fire-ranging outside forest reserves.

FOREST RESERVES.

There are fifteen forest reserves with an area of 10,279 square miles or 6,578,560 acres. They can be divided into prairie reserves and timber reserves. The prairie reserves are: Dundurn, Elbow, Keppel, Manitou, Moose Mountain, Beaver Hills, and Seward, with an area of 469,696 acres. These reserves occupy areas totally unfit for agricultural purposes, either on account of the sandy condition of the soil or on account of the unevenness of the topography, and at the present time a large portion of the area is open grazing land with only scattered areas of timber, composed mostly of aspen or white poplar.

The timbered reserves are located mostly in the northern part of the district and comprise the following reserves: Big River, Fort à la Corne, Nisbet, Pasquia, Porcupine, Pines, Steep Creek, and Sturgeon, with an area of 6,108,864 acres. The area within the boundary of these reserves is suitable only for the growing of timber and for grazing purposes either on account of the soil or topography.

Each forest reserve is divided into ranger districts, according to the size of the same. These districts have an average area of 187,973 acres. On each district are constructed comfortable headquarters for the ranger, and he is required to live on his district during the entire year. Each reserve is placed in charge of a supervisor or ranger-in-charge, and this man is held responsible by the Forestry Branch for the proper handling of all classes of work on the reserve under his jurisdiction.

FIRE-RANGING.

The fire-ranging area practically comprises all the timbered country south of the Churchill river and north of the Saskatchewan river, outside of the forest reserves. It is divided into the Battleford and Prince Albert fire-ranging districts. These districts have a total area of 47,736 square miles, or 30,551,040 acres. This area is divided into ranger districts varying in size from 391,650 acres to 2,534,400 acres, with an average of 1,041,168 acres. The smaller districts are located along the
northern line of settlement, where the danger from fire is at a maximum. In the larger and more northern districts only the used waterways are patrolled. The districts, however, are very much too large to give the best results, but the men are doing good work and there has been very little loss from fire during the past two years in these outlying districts. The primary work of the men on the fire-ranging staff is fire patrol, but during the periods when there is very little fire danger they are employed on improvement work, such as keeping all old trails and portages open, cutting new trails and portages when needed, constructing lookout towers, small cabins for stopping places, tool caches, and storehouses. There is always plenty of work to keep the men busy at all times.

The Battleford district lies west of the line, passing approximately north and south through the town of Big River, and comprises an area of 16,812 square miles, or 10,750,680 acres. This area is divided into eleven districts, with a chief fire ranger and one sub-chief fire ranger. The average area for each ranger district is 978,153 acres.

The Prince Albert fire-ranging district comprises all the country east of the Battleford district, and is divided into seventeen ranger districts with one chief fire ranger and two sub-chief fire rangers. It comprises an area of approximately 30,924 square miles, or 19,791,360 acres. Each ranger district has an average of 1,104,197 acres.

**IMPROVEMENTS.**

During the past year the making of improvements was carried out steadily on the reserves. They included 4 houses, 7 cabins, 19 stables, 7 other buildings, 101 miles of roads and trails, 20 lookout stations, 42 miles of telephone line, and 46 miles of fireguard. Considerable fencing and other improvements were also carried out. On the smaller reserves, in the prairie districts, the necessary improvements are now fairly well on towards completion. Good progress has been made on the large reserves in the northern part of the province. On the Porcupine and Sturgeon forest reserves the roads and telephone lines constructed have greatly improved communications on these extensive and previously largely inaccessible tracts. The programme of improvements on the other of the larger reserves in the north, the Big River reserve, is not so far advanced.

On the Nisbet forest reserve a special improvement cutting was made for a distance of four miles along the road through the eastern block of this reserve. Travel to and from the city of Prince Albert along this road is frequent. All the brush, infected timber, and dead and down material was cut along this road, thus removing a serious fire danger and greatly improving the conditions in that locality. Improvements and extensions of fireguards, not included in the figures given above, were made on other reserves, particularly the Beaver Hills, Pines and Moose Mountain reserves.

**FIRES.**

No serious fires occurred during the year in the district, and only two-tenths of 1 per cent of the forest reserve area was burned over, this being mostly grass land, including only 10 acres of merchantable timber damaged.

The total expenditure, including ranger's time expended on extinguishing fires, amounted to $180, or less than 1 per cent of the previous year's cost. The danger period only lasted a fortnight in the spring, while during the remainder of the year moisture conditions and precipitation were such that very little danger of fire existed. What few fires occurred were mostly small. The causes to which fires were attributed were divided into the following classes: settlers, 51 per cent; campers, 19 per cent; unknown, 17 per cent; railways, 10 per cent; lightning, 3 per cent.
Inside forest reserves there occurred 8 large and 15 small fires, a total of 23, which burned over 11,195 acres. Damage to the extent of $725 was done, and the expenditure to extinguish amounted to $45. The size of the average fire exceeding ten acres amounted to 1,381 acres burned over, in contrast to 2,000 acres the previous year.

Outside forest reserves and in fire-ranging districts, 8 large and 24 small fires occurred, a total of 32, which burned over 24,605 acres, costing $135 to extinguish, and doing an estimated damage of $5,820. Less than three one-hundredths of 1 per cent of the area patrolled was burned over.

The erection of lookout towers, opening of trails, building of telephone lines, and the appointment of assistants to the rangers with canoe patrols, greatly increased the efficiency of the force. The addition of three sub-chiefs, to continually cover several districts and direct the work of the men, secured better results in the work and more prompt action in the submission of reports and the handling of accounts in the fire-ranging territory. The forest reserve rangers had additional assistance for a few days in the spring in order to burn off fireguards, and hay and grass lands, thus insuring a large amount of protection at a very low cost. This was an exceptional season compared with last year, when the total loss of merchantable timber amounted to $742,000, and when also there were large and valuable areas of young growth destroyed.

The average loss each year of all classes of timber, i.e., merchantable saw-timber, cordwood, pulpwood, and reproduction—would be close to one million dollars. This loss is the same as a total destruction of interest-bearing assets, and the interest is lost as well as the principal. It will take one hundred years of hard labour on the part of the Forestry Branch to replace the principal, the loss of which was due, to a great extent, to lack of interest. A great part of the loss of merchantable timber was due to the fact that the operators on timber berths are allowed to leave a fire-trap on all cut-over areas.

So long as the present system of cutting is allowed on timber berths it will be practically useless to attempt the restocking of burned-over areas, and the loss from fire will always be great until some change is made for the better.

EQUIPMENT.

Within the year a fairly good supply of fire-fighting tools, portable telephones, telephone construction equipment, wagons, canoes and all other necessary equipment, has been supplied to the reserves and fire-ranging districts. These tools and supplies are placed at reserve headquarters, ranger stations, stop-over cabins, and tool caches. Each ranger is required to have the equipment in his district always ready for immediate use. An adequate supply of equipment is very necessary in all districts, as articles of this nature cannot be secured locally in quantities sufficient to meet emergencies.

A supply of provisions is also placed in the more remote districts for fire-fighting purposes. In fact, every effort is made to keep the men in the field well supplied with all necessary tools, etc., so that there can be no excuse for not getting results because of lack of equipment.

GRAZING.

The development of the grazing industry on forest reserves has taken place within the past three years. This has been brought about by a system of regulations which allow stock owners to place stock on the reserves under a permit system at very reasonable rates. The applicant is required to take out a permit each year for the number of head he wishes to run, but, in order to make the industry as permanent
as possible, the permittee is assured that the permit will be renewed each year in accordance with the regulations in force on the reserves. Permits are issued, at a nominal charge, to users of the range for the construction of corrals, herders’ cabins, stables, water-tanks, and all other improvements that are required to properly develop the range.

The conditions in the vicinity of the prairie reserves are such that the Forestry Branch is practically forced to issue fencing permits in order that the range can be used by the stock owners. It is always desired that as large areas as possible be fenced, as good-sized fenced areas are better for the stock, there are fewer gates to be opened by the travelling public, and the cost of fencing per head is much less than for small pastures. In order to secure these advantages the small owners are forming stock associations, fencing large areas, and running their stock in common, under rules made by the association and approved by the department. This method seems to work to the advantage of all concerned. Five stock associations are organized and using fenced areas at the present time.

The number of stock under permit on reserves in 1915 was 4,500. In 1916 there were approximately 100 permits issued for 6,500 head of stock, an average of 65 head per applicant. Approximately 10 per cent of the number were horses. Placing the average value per head at $75, the stock on the reserves had a total value of $487,500. Six thousand head of this stock were run on the prairie reserves with an area of 469,696 acres, and only 500 on the northern reserves with an area of 6,108,864 acres.

The range conditions on the prairie reserves are ideal, as there are large areas of open grass land well supplied with good water. The range on these reserves is stocked to 50 per cent of its capacity. The prairie reserves will carry about 12,000 head.

There are large areas of good range country on the northern reserves, equal to any on the prairie reserves. These areas are open, hilly country, with good feed and water. There is also excellent feed on the burned areas, and in many places there is an excellent growth of pea-vine, etc., in the green timber, which makes excellent feed in late fall and early winter. Cattle on the Porcupine reserve were doing well on this class of feed as late as the middle of November. Fully 30 per cent of the wooded reserves could be used to advantage for grazing purposes, and, if used, would carry 60,000 head of stock where only 500 were grazed last season. This valuable asset is being neglected at the present time, but I believe that within ten years these areas will be fully stocked. When the need arises larger areas of the reserves will be used for grazing purposes, as the above only applies to the more accessible areas. The proposed reserves will carry as many stock as the present reserves.

Permits were issued in 1916 for 5,000 tons of hay on the prairie reserves, and for 1,700 tons on the northern reserves. The cut on the prairie reserves could probably be increased by 25 per cent, but on the northern reserves 30,000 tons of hay could be cut with very little improvement work on the meadows. Large areas of hay land could be made available by drainage, clearing out the willows, etc.

**Silviculture.**

*Sales and Permits.*—The timber sale work has been increasing yearly and during the past fiscal year two old sales have been running, four new ones were awarded, and four applications reported on but not advertised, due to the small amounts applied for very late in the season or to the immature material desired. The total amount cut on these sales in the district will run about one million feet board measure. About 90 per cent of the timber is white spruce, the remainder is divided among tamarack, jack pine, balsam fir, poplar, and birch. Two sales were in operation on the Porcupine reserve, two on the Pasquia, one on the Fort à la Corne, and one on
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the Big River reserve. Ten small mills have been operating on the reserves in this district, six of which have been running in connection with timber sales, while the remainder were sawing mostly on settlers' permits. The demand for lumber has been very brisk during the latter part of the season and the prices obtained by the manufacturers have again reached a par with the high prices prevailing during 1912. Several of our sales have covered burned timber or territory culled over by previous operators or settlers, and a considerable improvement in the condition of the forest has been obtained by the present operations. Burned and wind-felled timber has been taken out and saved from decay; old logs and tops, which had been left from previous cuttings, have been removed and sawn. Considerable over-mature material has been cut and, with the cleaning up of the areas by the strict enforcement of the brush-burning conditions, the safety of the remaining timber is increased, and the silvicultural conditions greatly improved. Close supervision by the forest officers in marking, scaling, and the enforcement of brush burning has greatly improved the appearance of the cutting areas, and the present staff are securing fair results in this silvicultural work, when there is taken into consideration the short time the regulations have been in force and that the staff had no previous experience. As the timber sale work continues to increase, the men on the ground will require better qualifications in order to properly handle the work, and the efficiency of the present staff would be greatly increased by a system of ranger meetings in which the men would be instructed in the fundamental principles of mapping, estimating, marking, and scaling.

The wood-cutting operations were quite extensive on all of the reserves last season, and the price on cars averaged from $3.50 per cord for poplar to as high as $5 per cord for tamarack. The average for all species was about $4 per cord, f.o.b., throughout the district. The retail price ran from $6.50 to $10 per cord. On all the operations within the reserves all brush was burned.

In granting all timber sales, timber permits, and wood permits, it is the aim of the branch to dispose of all the dead, down, diseased, and over-mature timber that can be used under the requirements of any of the above permits. In all cases the permittee is required to burn all brush and refuse from his operations. The brush and refuse from a logging operation is always ready for a match and when once started nothing can stop it until the entire area is burned. The best method of protecting this valuable national asset is to require all operators to dispose of the brush as the logging operation proceeds, so that fires which do start may be controlled.

PLANTING.

Four-acre experimental plantations of white spruce, Scotch pine, jack pine, and caragana were set out on the Dundurn, Manito and Elbow forest reserves in the spring of 1916. The seedlings used were mostly 2- to 3-year-old stock which was planted in both pure and mixed arrangement. The areas were located in close proximity to ranger headquarters in order to ensure the maximum protection. Sites were selected that were typical of the whole reserve as nearly as possible, and thus a variation in exposure and soil was secured, depending upon the topography of the areas, which was mostly rolling. The areas planted were open and of sandy soil, and the planting was done in furrows with the planting iron. The stock was shipped from the Indian Head nursery, and supervision of the planting was given by a special man detailed from the nursery station assisted by the forest rangers. The rate of planting averaged about one thousand trees per man per day, and the cost per acre about $15. This should be greatly reduced if the work were conducted on a larger scale. The areas were fenced and surrounded by fireguards. The season was very favourable, with an abundance of moisture, and the growth, so far, has been fairly good. Reports show that less than 1 per cent of the jack pine seedlings have failed,
while the Scotch pine and white spruce show approximately 33 per cent failure, due to winter-killing and being covered up by moles.

Some fifteen hundred seedlings were planted out in the old "burn" on the Pines forest reserve. This stock consisted of white, Norway, blue and Engelmann spruce; and of Scotch, jack, rigid, yellow, and lodgepole pine, all grown in the local nursery at the headquarters of the reserve. The planting was done in furrows with the planting iron, and the trees have made a very good showing for the first season. Forty-seven new beds in the nursery were seeded down to jack pine in the spring, the seed of this species being the only kind obtainable for this purpose. The seedlings all made a good growth, with the exception of four beds which were killed by the cutworm and had to be re-sown in July.

The small plantations around the ranger stations on the Nisbet, Moose Mountain, and Beaver Hills forest reserves were increased by the addition of four hundred trees at each place, and these are all doing well. The trees planted during previous years are beginning to make a very noticeable growth, and not only greatly improve the appearance of the grounds but attract the attention of the public.

Planting on a large scale will not be practicable until the fire danger is reduced to a minimum. This can be accomplished on the prairie reserves where there are no timber license operations; but, as to the reserves which contain timber berths, until it is the rule that brush from operations on timber berths is burned or otherwise disposed of, it would be a waste of money to attempt restocking these reserves as, under present conditions, it is impossible to protect what nature has placed there at no expense. More young material is burned in an average year on cut-over lands within reserves containing timber berths than could be replaced by planting in fifty years.

SURVEYS.

A reconnaissance survey was completed by Mr. G. A. Mulloy on an area of 2,500,000 acres lying north of the Torch river and east of the Candle lake. This area is classified as follows: lakes, 2.05 per cent; muskeg, 53.8 per cent; merchantable timber, 4.8 per cent; old "burn", with reproduction, 6.06 per cent; old "burn", not reproducing, 0.38 per cent; woodland or cordwood, 27.87 per cent; "burn" with scattered trees, 5.01 per cent.

Mr. Mulloy states that in the whole area examined hardly an acre of agricultural land was discovered and that the well-wooded portion of the area will, if protected, prove to be of immense value to the adjoining prairie in supplying firewood, ties, posts, poles, and a large amount of saw-timber. The greater part of the area is young, thrifty reproduction about twenty-five years old, and this, if protected for a few years, will produce an enormous quantity of valuable material.

SUMMARY.

All branches of the work in the district are progressing very favourably and along permanent lines. Practically all of the development in the district has taken place since 1912. The reserve areas were in very poor shape when turned over to the Forestry Branch as they had been devastated by fire, cut over without supervision, and all slash left on the ground. This slash is the worst fire danger to the forest and is the primary cause of more fire loss than any other one agent. The slash is being burned on reserve operations without trouble.

The staff on the reserves has developed rapidly in the past three years, and the officers are interested in their work and are showing good results. The progress of improvement work has been rapid and at the present time all supervisors and rangers
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have good, comfortable living quarters located on the reserves. Lines of communication are well opened up, and the fire protection system improved by the building of many lookout towers, provision of equipment, and construction of telephone lines.

From a silvicultural standpoint the reserves are being cleaned up as fast as possible, by removing the dead material and burning all slash on operations under the Forestry Branch supervision. The first aim is to protect the forest areas from fire and this can be done only by removing the chief source of danger—slash.

G. A. GUTCHIES,
District Inspector of Forest Reserves
for Saskatchewan.

APPENDIX NO. 4.

This report concerns the Alberta inspection district for the fiscal year 1916-17. In presenting the annual report of the work of the district for the past fiscal year it is perhaps unnecessary to point out that this organization, as well as others, has been working under very serious handicaps, brought about by a state of war. Organizations which have been brought to a high state of efficiency are generally able to contend, more or less adequately, with conditions that may come about; others, not so highly developed and organized, must naturally suffer to a greater degree, and at times must face conditions which are discouraging and sometimes appear almost hopeless. Forestry, which in this country is still in a very elementary state of development, must naturally suffer a retarding effect under present conditions. Not only is it difficult to provide for new lines of work which are of extreme importance, but it is necessary to considerably curtail work which is fundamentally essential to normal development. There is, however, one aspect of the work which, in spite of present handicaps, should add incentive and bring into play all the energy and initiative at command—the national importance of the work both for the present and future welfare of the country. Forestry has given its quota of men who have fought and died in the great conflict taking place. Some of these went from the lower ranks, while others were young men who had devoted a number of years to a study of the profession. If for no other reason we owe it to these heroes to "carry on."

BOUNDARIES.

No material change took place in the boundaries or areas of the forest reserves in Alberta during the past fiscal year. In the Peace River country, however, numerous temporary reservations were made, on the basis of reconnaissance surveys previously conducted by officers of the Forestry Branch. These reserves have been made not with a view of decreasing the amount of land available for legitimate settlement but for the purpose of preventing, so far as possible, the occupation of non-agricultural lands by settlers who have little knowledge of land or by those having in view some ulterior motives, rather than legitimate agricultural pursuits. The withdrawal of these lands from indiscriminate settlement is a measure calculated to protect not only the interests of the country at large but also the individual interests of the incoming settler. In every country there are lands which are essentially agricultural and which, consequently, should be devoted to that purpose; there are also lands which are absolutely unsuited to agriculture but which are very suitable for forest pro-
duction, and it is self-evident that in such cases the land should be so utilized. Between these two extremes there are lands which might serve, to a very limited extent, the purpose of agriculture, but which, in the final reckoning, can never be so productive for agricultural pursuits as to warrant their being set aside for that purpose. In the case of temporary reserves of the Peace River district an effort has been made to exclude, so far as possible, all areas having even a semblance of being real agricultural land. In other words, so far as possible, the policy of including in such reservations only absolute forest land has been followed. There are some who are of the opinion that greater areas might consistently have been included within the temporary reservations, but it is considered that the steps which have been taken by this branch, in so far as these reservations are concerned, are adequate for the present time, and that, if sufficient development takes place on these areas, with a view to proper protection and management of them, a very good beginning will have been made in establishing a forest policy in that district. In some parts of the western provinces there are notable examples where settlement was allowed on absolute forest land, which action simply resulted in the denudation of the land by the bogus settler and its ultimate abandonment by him. By having these land examinations made as far in advance as possible, measures can be taken to protect the country and the people against this detrimental class of settlement. As soon as it is possible to do so these temporary reserves should be set aside and administered as forest reserves in full standing. It is self-evident that if such reserves are to be placed on the same basis and run along similar lines of organization as the older established reserves it will be necessary that adequate provision of funds should be made. Under present appropriations it is not possible to give more than an exceedingly limited measure of fire protection to these areas. Not only is considerable expenditure necessary in connection with the development of proper forest management, but also, if only for the development of a systematic scheme of fire protection, it is necessary that considerable funds should be available for the development of transportation and other facilities in the reserves.

The readjustment of boundaries between Dominion parks and forest reserves has not as yet been finally settled. It appears, however, that this problem is at last nearing a state of solution, and it is sincerely hoped that the next fire and improvement season may be entered upon with definite and final ideas as to the respective boundaries between Dominion parks and forest reserves. In some cases it is evident that co-operative measures must be adopted for the protection of adjoining parks and reserves, but, as has been pointed out in reports submitted during the year, there are no legitimate reasons why such co-operation could not be established.

The work of boundary surveys was continued, and during the past year a complete survey of the outer lines of the Cooking Lake forest reserve was made. In conjunction with this a considerable amount of interior survey work was done for the purpose of re-establishing lines which had become obliterated. Boundary work was also carried out on the Porcupine Hills section of the Crowsnest forest. It was expected that this latter survey would be completed, but, owing to the serious situation which developed in labour conditions, it was found necessary to discontinue the work before completion.

FIRE PROTECTION.

The conditions which obtained during the fire season of 1915 were practically repeated during 1916, and at no time during the season did the conditions on any reserve in the district become really serious. Throughout the Rocky mountains and also, with the exception of a few short dry spells, on the other reserves there was abundant precipitation distributed fairly well during the season. While the occurrence of these wet seasons certainly reduces the actual loss in forest resources for these
IMPROVEMENTS.

IMPROVEMENTS.

particular seasons, it is, unfortunately, not a condition which is in itself conducive to the building up of an efficient fire-fighting organization. It follows that urgent efforts must be directed toward educating both forest officers and the general public along such lines as will secure, so far as possible, the prevention of fires. Also, every effort must be made to develop to the utmost the facilities for actual fighting of fires which must inevitably occur. From the experience of the past few years it may be stated that fires are, in the majority, confined to those caused by human agencies. Lightning fires do occur, but the situation of this inspectorate in this respect is much better than that of some other forest protective organizations. In any case, when the organization here is so developed that it can successfully combat, under any conditions, fires directly attributable to human agencies, it will, incidentally, be in a position to keep good control of fires which may have their origin in lightning.

The total number of fires reported as actually occurring on the reserves of the district is ten. This figure in itself is indicative of the character of the season. The area burned over was confined to approximately 7,000 acres, which is almost a negligible figure as compared to the total area of the forest reserves of the district. The total damage resulting from these fires is estimated at approximately $1,500, including damage to both merchantable timber and young growth. While the total number of fires occurring was so small that statistics are not of much value for comparison it may be pointed out that more fires occurred during the month of May than at any other time. June and July, according to the statistics, were the next worst months, although as an actual matter of fact there was very extensive precipitation during these two months and, consequently, they were not really as dangerous as the statistics would imply. Of these ten fires, four are attributed to railways; for three, the causes are unknown; and one each is attributed to lightning, hunters, and saw-mills. If a bad season had been encountered in 1916 there probably would have been considerable difficulty in adequately coping with it, owing to the exceedingly serious condition of the labour market. While it is true that for some fires help can be drawn from the farm and ranching lands in the vicinity of the reserves, as a general rule, when it comes to serious fires, it is necessary to draw for help from the labour markets of the towns and cities. Last year the help of this character which could have been secured was exceedingly limited. Probably during the coming season the branch will be still more seriously confronted by this situation and, as previously indicated, it is felt that some arrangements should be made whereby it might be possible to draw to a certain extent on the military forces which may be mobilized and available. It seems that an arrangement of this kind would be quite in keeping with the fundamental idea of National Service, for it is of the utmost importance to this country that the natural resources should be protected. In view of the fact that there may also be a shortage of labour on the farms it would seem desirable to avoid, so far as possible, the ordering out of labour so employed; consequently, it would appear that the only material source of labour supply may be the military forces. Although there is no reason, on the basis of present conditions, to anticipate a particularly dangerous season it appears that the amount of snow which fell in the mountain sections during the past winter was considerably less than in the previous winter. If there is a fairly dry spring and not the usual rainfall in June and July conditions may become very serious indeed.

IMPROVEMENTS.

I have pointed out that the unusually wet season rendered conditions very favourable for fire protection; in the case of improvements the reverse is true, and work in this direction was attended by considerable difficulties; moreover, the serious labour shortage was keenly felt on every reserve of the district. For these reasons it was entirely out of the question to complete the programme of improvement work which
had been laid out and for which funds had been provided. When the labour shortage occurred it might have been possible to complete the plans laid out by paying extremely high wages, but it was considered inexpedient to increase wages unduly, owing to the fact that there was evidence of a very serious shortage of labour in the agricultural sections of the country. Notwithstanding weather and labour conditions very material progress was made, and another fire season will be approached with better improvement facilities than heretofore.

Athabasca forest.—A total of approximately 57 miles of trail was constructed, 15 miles primary and the remainder secondary. Toward the end of the fiscal year steps were taken for the provision of telephone poles for the first link of the Lower telephone line, which will probably be constructed during the coming season. Two or three cabins and tool caches were constructed, and one 40-foot lookout tower was framed from timber. A considerable amount of time was expended by the staff of the reserve in the preliminary location of trails, as a basis for improvement work of the next few years.

Brazeau forest.—On this forest approximately 13 miles of primary trail were constructed and 27 miles of secondary. Other trail work which had been planned had to be abandoned. A considerable amount of maintenance and preliminary location work was also performed by the staff. In telephone work two short branch lines, totalling 17 miles in length, were completed.

Clearwater forest.—In this forest there were built 19 miles of primary trail and 127 miles of secondary. This, added to the trail equipment provided in previous years, renders a very considerable part of the reserve accessible within reasonable length of time. In addition to this entirely new construction a very considerable amount of maintenance work was done on previously constructed trails which had suffered damage as a result of floods. Two cabins were constructed in outlying parts of the reserve, while at Nordegg a good beginning was made in connection with the various buildings and fences of the headquarters at that point. Toward the end of the fiscal year steps were taken to provide telephone poles, in anticipation of a certain amount of telephone construction during the coming improvement season.

Bow River forest.—A total of approximately 85 miles of primary trail and wagon road was constructed. The construction of these trails renders accessible certain parts of the reserve through which travel was formerly tedious and slow. The most important improvement project constructed on the reserve was the North Trunk telephone line, connecting Morley, on the main line of the Canadian Pacific railway, with the Red Deer ranger station, a total construction distance of 45.3 miles. About half of this line is of standard pole construction, while the remainder is of the tree line type. The line is of first-class construction, and places the district inspector's office in quick communication with two important administrative headquarters on the north half of the Bow River forest. Another exceedingly important project, which was started during the winter months, is the Elbow bridge. In previous reports I have drawn attention to the necessity of reducing, so far as possible, the hazard which occurs in fording some of the larger rivers in the Rocky mountains. This was mentioned in connection with the drowning of Forest Ranger E. House on the Clearwater forest during the season of 1914. Another sad accident occurred last fall, when Assistant Ranger Carlson on the Brazeau forest was drowned while endeavouring to cross the main Brazeau river. While it is undoubtedly true that men engaged in forest administration will always have to take certain chances in their work, it is just as certain that this branch should make every effort possible for the provision of safe crossing of the larger streams, at least at the more important points. Although the Elbow river is by no means one of the most dangerous streams, the crossing was considered as of such importance as to warrant the construction of a bridge.
Crowsnest forest.—Between 45 and 50 miles of new trail were constructed on this forest. Telephone work assumed considerable proportions in this reserve, a total of 45-7 miles being constructed. The line in question connects the Porcupine Hills section with the Trunk line running north and south from the Livingston gap, inside the range. With the extension of the existing telephone lines in the Crowsnest forest, for comparatively short distances in various directions, this forest will be fairly well served with telephone communication.

Lesser Slave reserve.—Progress was made in the trail work, although it was not possible to complete the programme. A total of 64 miles of primary trail was constructed, of which a considerable portion can be travelled by wagon, and work was also done in the construction of auxiliary trails.

Cypress Hills reserve.—The most important Improvement work in the Cypress Hills was the construction of complete headquarters buildings in the Battle Creek ranger district. Fireguards were constructed to a considerable extent throughout the reserve, and some repairs and alterations were made on some of the important trails.

Cooking Lake reserve.—Improvement work on this reserve was decidedly limited; good work was done, however, in bringing up to a higher standard some of the already existing trails.

General.—Summarizing the work done it may be stated that a total of about 440 miles of roads and trails was constructed; that 108 miles of telephone line were built; that one first-class ranger station house and numerous smaller buildings were constructed; and finally, that a considerable amount of work was done toward providing bridges, tool caches, lookouts, and other facilities. This and previous reports indicate the completion of a large amount of improvements, and to the casual observer it might appear that this district would be well provided with such facilities. One has but to travel through the forests, however, to really appreciate the tremendous volume of work which is still to be done, before the reserves may, in any sense, be considered as provided with sufficient trail facilities. As for the telephone work the next few years will necessarily involve the construction of hundreds of miles of telephone lines, ere the reserves will be sufficiently provided with that very necessary adjunct of modern forest protection—quick communication.

At this point I feel that some remark should be made with regard to the educational work performed by Professor W. N. Millar of the Forest School, Toronto, consulting forester of this branch. Two demonstration camps were held in this district, one at Morley and one at Coalspur. With the exception of the Clearwater forest every reserve of the district was represented at one or other of these meetings, and forest officers had the opportunity of hearing lectures on quick communication and of taking part in field demonstrations in telephone construction. Each camp involved about a week’s time, and the interest in telephone work on the part of a considerable number of the men was given a very desirable impetus. The equipment which Mr. Millar had provided for the demonstration could scarcely have been improved upon, and I have little hesitation in stating that probably never before was such a complete and, at the same time, compact outfit gotten together for the purpose in view.

Surveys.

Aside from boundary work, previously described, no special survey work was conducted during the past year. During the three previous seasons substantial progress had been made in preliminary survey on some of the reserves, but a very great amount of work still remains to be done. A good topographic map is a fundamental requirement of forest administration; more particularly in the Rocky mountains there is a
very pressing necessity for such data, both for ordinary administration and fire protection. Within the past few years a topographic survey of the Crowsnest forest was conducted under the direction of the Surveyor General; the map resulting from this survey provides data which we should have for every forest. There are, however, a few points in connection with such surveys and maps where a little closer co-operation between the two organizations will result in more complete data and possibly a certain reduction in expense. It is with satisfaction that I look forward to the co-operation of the Surveyor General's Branch in this work.

**EQUIPMENT.**

During the past season progress has been made in providing the various reserves of the district with the equipment necessary for the various operations taking place. It will be realized that to provide reserves embracing areas of two or three million acres with sufficient equipment and tools for improvement work, and also to provide caches of tools for fire protective purposes, is by no means a small matter, nor one which can conveniently be handled during any one season. The policy has been to add, each year, as many as possible of the necessary articles of equipment, and before very long each reserve should be very well provided for in this respect. Toward the end of the fiscal year, especially, it was possible to take into account the requirements of the various reserves, and the probability is that this district will start into the new season in a much better position as regards equipment than has heretofore been the case. No new equipment has been developed, but more and more the standardization of equipment for forest reserve work is being approached.

**TIMBER SALES AND SILVICULTURE.**

During the year four timber sales, which had been in operation for periods of from one to three years, expired. Six new sales were started, involving the disposal of approximately 5,500,000 feet board measure of timber; over 90 per cent of this is fire-killed, the remainder being over-mature or defective green timber. While the lumber markets have shown a marked improvement during the past year this has not materially affected the disposal of timber from the forest reserves. The bulk of the timber disposed of by this branch in the Rockies consists of mining timber, and, as the coal-mining situation during the past year has, due to financial, transportation and labour difficulties, been anything but satisfactory, the utilization in this direction has not been so great as might otherwise have been expected. Detailed inspections of numerous sales were made by an officer definitely assigned to the timber sale work of the district. As a result of these inspections it was found that in some instances operators were not satisfactorily complying with the conditions of sale. Careful attention has been given to such cases, however, and the operators have been compelled to observe, to every reasonable extent, the conditions and requirements under which such sales were made. Timber sale work of this district is still confined to the Crowsnest, Clearwater, Brazeau, and Cypress Hills reserves, no development having as yet taken place on the Bow River, Athabasca, and Lesser Slave reserves. On the last named reserves there have as yet been no commercial mining developments, and there probably will not be much expansion in this direction until some of the mining properties are opened up and made commercially productive. The timber permit business of the past year was conducted along the same lines as previously, although an effort has been made to establish definite cutting areas, and thereby to confine cutting operations to areas where they are most necessary from the standpoint of improving the forest. By far the greater part of the timber disposed of under permit, also, is fire-killed.
On numerous occasions it has been pointed out that there are billions of feet of fire-killed timber in the Rocky mountains, for the bulk of which no scheme of utilization has been devised. Only an insignificant proportion of this timber offers any hope of being utilized as saw-timber; in fact, even for timber killed in the fires of 1914 the branch has been able to find no saw-timber market, and as the bulk of the dead timber was fire-killed during or previous to the summer of 1910 it will be appreciated that the branch cannot expect to enter the lumber markets with this class of material. While it will be possible to dispose of very limited quantities for fuel purposes it is evident that to a greater extent dependence must be placed on mining industries. In 1916 the amount of coal produced in Alberta was 4,648,604 tons; probably not more than twenty-five million lineal feet of mine-timber would be required in the production of this amount of coal. Assuming that the next eight years will witness an increase of 100 per cent in coal production, it would appear that in the neighbourhood of 300 million lineal feet of mine-timber, or, in round numbers, half a billion feet board measure, will suffice for coal-mining operations in Alberta until 1925. Even if dead timber were used in all the mines of the province, which is by no means the case, the branch cannot expect to dispose of more than a small proportion of the fire-killed timber to be found in the Rocky mountains forests. Dead timber is subject to serious deterioration in quality and usefulness from year to year, and, although the rate of deterioration is not so rapid in mining timber as in saw-timber, it is my opinion that a period of eight or ten years will probably place the bulk of the fire-killed timber beyond usefulness for mining purposes. The foregoing remarks indicate that, although the coal-mining industry is the only extensive outlet for fire-killed timber, operations for this purpose must be decidedly limited and, consequently, will be more or less confined to the more accessible blocks of timber. It must be recognized that the bulk of the fire-killed timber must rot where it lies ere it can be put to any use whatsoever. That, even under the most favourable conditions of mining development, it will likely be possible to dispose of only a small part of it is a fact which should make clear the necessity of taking advantage of every possible outlet. The policy should be to reduce, so far as possible, the ultimate amount of waste as a result of fires of the past. To some of these points attention has been given during the past year, and during the coming year it is the intention to carry on further studies with a view to securing an extension in the use of fire-killed timber. Needless to say, if such markets are to be developed it is necessary to offer the products to the consumers under the most advantageous arrangements possible.

During the year steps were taken for the collection of data and the preparation of rough maps which will show the various forest types in the Rocky Mountain forest reserve. With rather a limited and untrained staff the results can by no means be considered as accurately representing conditions; nevertheless, before long there should be completed a map which will show roughly the conditions which exist. Incidentally, the training which is given to the forest officers in work of this kind is of great value from an educational standpoint.

GRAZING.

No great development in connection with the grazing on forest reserves of the district can be reported for the past fiscal year, this to a certain extent being due to the fact that it has not as yet been possible to provide for the assignment of a grazing assistant to develop this particular line of work. While on two or three of the reserves a certain portion of the range has been used for a great many years, and, therefore, there are always applicants willing to range their stock on the reserve, there are other reserves where the available range is considerably removed from the settlements, and consequently the settlers have not become familiar with the grazing
facilities obtainable. Even on the reserves quite accessible to the settled country it appears that the settlers are not yet sufficiently familiar with the situation to take advantage of all the range which is available. It will readily be perceived that the best way to bring this range into conservative use is to have a thorough reconnaissance made of the grazing resources, and to have a well-qualified man assigned to the work of developing the grazing business. Undoubtedly the present conditions have curtailed the expansion in the stock-raising industry which, normally, might have taken place. While I am not in a position to quote figures on the general stock situation in this province, it is clearly evident that the settlers in the country accessible to the forest reserves have not been able to increase their holdings very much, and, in fact, in some cases there have been considerable reductions. A total of approximately 6,500 head of stock was grazed under permit on all reserves of the district. Of this number a little over 80 per cent were cattle, the remainder being horses. Although a certain amount of range in the Crowsnest pass was reserved for sheep, no advantage was taken of the facilities offered, owing to the prejudice which existed against sending sheep by railway to the Crowsnest pass.

When one takes into consideration the very extensive grazing resources of the numerous forest reserves in Alberta it is regrettable that the total number of stock handled should be confined to the rather insignificant figure quoted above; on some reserves there are grazing resources which are practically untouched. Present indications are that in some places there will be a very marked increase in the stock grazing on the reserves during the coming season. In the Rocky Mountains forest reserve there are thousands upon thousands of acres of range which might readily be put to conservative use if it were possible to stock the range with sheep. Unfortunately, however, there stand in the way certain difficulties which it is not possible to overcome immediately. So far as possible, however, this important question is being considered, and for the coming season it is hoped to be able to make at least a small start in connection with sheep grazing on the reserves.

Due to the abundant rainfall which was experienced throughout the Rocky mountains the range was in excellent condition for the grazing of stock. Reports indicate that in nearly all cases the stock came off the range in excellent condition, and in no case has any evidence been received of over-stocking having taken place. I am pleased to state, also, that no reports have been received indicating any extensive losses of stock due to poisoning. It will be remembered that some difficulties of this kind were experienced, particularly in the Crowsnest forest, two years ago. In this respect, however, the past season has been entirely successful, as more detailed attention has been given to the choice of grazing periods and, where necessary, stock has been kept off the range at such times as the poison weeds are most dangerous.

Commercial uses of the forest reserves have to a certain extent been discussed under other headings. The war conditions are undoubtedly responsible for a retardation in commercial activities within the reserves. Probably the greatest commercial development which may be expected is that of coal mining. This industry is, of course, more or less tied up with railway facilities, and, although there are railway lines projected into the various coal-fields, construction has been delayed by financial conditions. No new railways have been constructed during the past year, although we have indications that a start may shortly be made on the Smoky Valley and Peace River railway which will traverse a portion of the Athabasca forest. Townsites within the reserve are also dependent to a very great extent on the progress in coal-mining operations and, consequently, none has been laid out or applied for during the past year. Recreational use of the forest reserves has, also, been retarded by conditions. The only summer resort in the forest reserves of the
district, namely, that at Elkwater lake in the Cypress hills, is still utilized only to a very small extent. With the exception that three or four lessees have constructed small cottages there has been no development at all. It will be appreciated that under conditions such as the present there are, comparatively speaking, but few persons living at a distance who can take advantage of the recreational facilities offered in the forest reserves, and while as usual there have been a considerable number of hunting, fishing and camping parties, there has been no increased use in this direction. Numerous reserves offer particularly advantageous attractions, and with the considerable progress which has been made in road and trail construction, whereby various portions of the forest are made more easily accessible, there should be a very considerable increase in the number of persons from the surrounding country and also from the towns and cities of the province resorting to the forest reserves for recreational purposes. Particularly good opportunities are offered to fishermen and hunters, as well as to those who merely desire to spend a period of quiet camp life in the woods.

FIRE-RANGING.

The organization for forest protection on Dominion lands not included within the forest reserves is divided into four main fire-ranging districts, namely, Edmonton, McMurray, Slave, and Mackenzie River. Although some minor changes were made, involving to a limited extent the redistribution of patrols, the general organization remained the same as in the previous year. Work in the Edmonton district involved the employment of a staff of about forty men. About fifteen men were employed in the McMurray district. The Slave district was patrolled by two steamboats each manned by a crew of from three to four men, supplemented in one or two cases by canoe patrols. Work in the Mackenzie district was not very extensive and consisted in operations, more or less of an educational character, carried on by a staff of four men acting under the direction of the Government agent at Fort Simpson. Owing to the weather conditions which prevailed, the McMurray, Slave, and Mackenzie River districts suffered comparatively little loss from fire. In parts of the Edmonton district, however, notably the Peace River country, there were periods of considerable fire danger, and a total of 247 fires is reported, of which 25 covered an area of more than ten acres. The total area burned over appears to have been in the neighbourhood of 40,000 acres, the bulk of which was grass land and old “burn”; only about 5 per cent. of the total area was covered with desirable young growth or merchantable timber. Out of a total of 247 fires the causes of 113 were not determined; 63 were caused by campers and travellers; 51 were caused by the operations of settlers in clearing land, etc.; 16 are attributed to railways; and 4 are reported to have been of an incendiary nature. While the weather conditions which prevailed in the Peace River country were more dangerous than obtained elsewhere on the northern forest reserves, the large number of fires which occurred is indicative of the situation which may be expected in any country where settlement is in the development stage. During the past few years it has been necessary, in order to avoid serious conflagrations, to maintain a more or less extensive patrol of the whole country. As the country becomes more settled, however, the most logical solution of the fire situation is, so far as possible, to withdraw the efforts to lands which it is desired to consider permanently as forest reserves and, in confining attention to such areas, to make them just as fire-proof as possible. This involves not only the provision of more intensive patrol but also the development of the various tracts, by providing trails and other means of communication so essential to efficient fire protection. While the control exercised over the fire situation by the present staff and organization has probably justified the expenditure, just as soon as possible the effort should be confined to definite areas over which the branch can absolutely control all operations under the Forest Regulations.
With regard to the McMurray and Slave districts a special inspection was made by Mr. J. A. Doucet under the direction of this office. This officer spent two or three months in detailed inspection operations in that country. As a result of this work it is expected that the branch will be able to make an entire reorganization of the fire-ranging operations in both these districts. Previously I have pointed out the necessity of providing for closer supervision of the operations in that country, and it is hoped that by an amalgamation of these two districts and the assignment of a competent man in charge of both, whose exclusive duties will be those of fire protection, a very material improvement will be made in the organization.

RAILWAY FIRE PROTECTION.

In co-operation with the Board of Railway Commissioners for Canada notable progress was made in fire protection along railway lines. Railway work in this province was again supervised by District Fire Inspector McNaughton and his two assistants. Both the Canadian Northern railway and the Grand Trunk Pacific railway took active steps in connection with right-of-way clearing. In connection with the Grand Trunk Pacific railway I am glad to report that there has been marked development in the efficiency of the patrol organization. In my last report I indicated that their patrol organization had been entirely unsatisfactory. The past year, however, witnessed a notable change in this direction, and a good patrol was maintained. I regret that I cannot present a similar report in connection with fire protective measures taken by the Edmonton, Dunvegan and British Columbia railway. Last year I indicated that there had been a very decided improvement over the previous season. For some reason or other during the fire season of 1916 the branch was not able to secure such satisfactory service. Toward the close of the fiscal year strong efforts were made to provide for a thorough cleaning up of the right of way on this particular road, and the situation during the coming season will to a very large extent depend upon the success which rewards these efforts. Detailed reports have previously been submitted to the Director of Forestry, indicating very clearly the exceedingly dangerous condition on some portions of the right of way. It is perhaps unnecessary to point out that a combination of these conditions and a fairly dry season would create a situation with which it might be exceedingly hard to deal. A large number of fires occurred along this line during the past season, and it is more a matter of good fortune than anything else that a very large portion of the country was not burned over. Every effort will be made to secure a thorough compliance with all the fire protective requirements, in order that this railroad may be brought to completion without such evidences of wanton destruction as are to be found along some of the older established lines. In the territory through which new construction was carried on last season the fire prevention efforts of the branch were very successful, and it is hoped that this experience may be repeated.

EDUCATION AND PUBLICITY.

No extensive programme of publicity work has been undertaken during the past year, owing to the exceedingly limited staff. It was not possible to provide for a series of lectures and meetings for the purpose of bringing the public into closer touch with our work. A considerable amount of educational work has, however, been done in a smaller way, by means of the use of various advertising materials, so that it is felt there is a little more appreciation on the part of the public as to the value of the work. When it is possible to advertise more extensively the facilities at the disposal of the public, both commercial and recreational, in the forest reserves, we may expect that principles underlying the establishment of the reserves, and the necessity for protection and rational use of the forest resources of the country, will be more fully appreciated.

E. H. FINLAYSON,
District Inspector of Forest Reserves for Alberta.
APPENDIX NO. 5.

This report concerns the work done in the British Columbia inspection district for the fiscal year 1916-17.

The fundamental basis and all-important feature of Forestry Branch administration in the Railway Belt of British Columbia is adequate and efficient protection of the forests from fire. During the past year the interrelation between the forest resources and the economic condition of the people of British Columbia has been brought out by the fact that the stimulation of forest industries has resulted in a returning prosperity to all classes of the population. This fact has been impressed upon the public by newspapers and public men, with the result that the people as a whole are more in sympathetic touch with the value of our work than ever before.

The forest resources of the Railway Belt in British Columbia are large and, owing to proximity to transportation, these forests are inevitably destined to be the first utilized in the great world demand which the termination of the war will inaugurate. The importance of adequate protection as an insurance for future raw materials is, therefore, manifest to all.

During 1916 weather conditions favoured the work of fire prevention very greatly. Partly owing to this fact and partly due to increased efficiency of personnel all along the line, both the number of fires reported and the fire damage in 1916 were the smallest yet recorded. There were fought 272 fires, or approximately 60 per cent of last year's number. The total damage resulting was reduced from $15,675 to $1,826, a splendid record.

The fire statistics for the past year throw an interesting light on the greater efficiency of patrol. The percentage of fires of unknown origin, which has steadily decreased since intensive administration was established, has this year reached the lowest stage yet, 25 per cent. Railways, from being the greatest menace to the forests, have reduced the percentage of fires so much that they have fallen to the bottom of the list, largely through the excellent patrol system established by authority of the Board of Railway Commissioners.

The higher percentage of forest fires due to fires left by campers, 22 per cent, indicates the need for still further educational work. Fires caused by lightning assume a relatively higher percentage than ever before, 20 per cent. During the past year despite the great decrease in fires recorded there was an increase in the absolute number of fires caused by lightning.

FOREST RESERVE ADMINISTRATION.

The forest reserves established in the dry belt portion of the Railway Belt owe their origin not mainly to the conservation of the timber resources thereon, which are relatively less important, but to the necessity of protecting the watersheds of innumerable rivers and creeks whose water, used for irrigation, is absolutely essential to the well being of this part of British Columbia.

A proper realization of this fact is being gained by the public at large and, together with the settlement of the agricultural lands difficulty, is dissipating adverse criticism of forest policy and administration. It would appear that we are coming appreciably nearer the goal sought, namely, full sympathetic support by all sections of the community.
As set forth in detail in my report for 1915-16 it is urgent, if the Forestry Branch is going to guarantee to the public a proper fulfillment of the functions delegated to it, that additional watershed areas should be placed under permanent forest reserves.

The further development of favourable public opinion mentioned above has also been aided considerably during the past year by increased use of forest reserves, both in regard to resources in timber and hay, and for recreation in camping and fishing at Trout and Paul lakes.

There is in these two lakes what was described at the annual meeting of the Kamloops Fish and Game Protective Association as probably the most wonderful fishing on the continent of North America. The Forest Reserves regulations in regard to fishing are conserving this sport, and together with occasional restocking of the lakes by the Fisheries Branch will guarantee an unsurpassed attraction for tourists from all parts of the world.

The summer resort at Trout Lake in the Long Lake forest reserve is growing in popularity yearly. Recently a very largely-signed petition was received asking for the establishment of a similar resort at Paul lake in the Niskonlith forest reserve, and it is hoped that action may be taken in regard to this matter during the coming year.

AGRICULTURAL LANDS.

Some mention should be made in this report of the procedure authorized in respect to the granting of homesteads in forest reserves. I mentioned in my last report the difficulty which had arisen in this district as a result of the retention of some lands of value for agriculture in the forest reserves, despite recommendations made over two years ago for their elimination. The arrangement for recognizing the rights of settlers or applicants for entry for such lands has largely removed this difficulty. Under this arrangement lands are not taken out of the jurisdiction of this branch until application for entry has been made, even though recommendation has been made by this branch for their elimination from the forest reserve.

This procedure while not in accordance with the policy advocated in my report for 1915-16 is probably a fair compromise. As it is a plan of administration coordinated with the Dominion Lands Branch, and having the support of the general public, I consider that it is of very great value in forwarding the ends desired in forest policy, namely, efficient administration backed by the full support of all classes of the public.

GRAZING.

No further steps have been taken to establish grazing regulations on the forest reserves of British Columbia. Considering the present reduced condition of the staff it is probably necessary that this matter should be held in abeyance until after the war.

In my report for 1915-16 mention was made at some length of proposed regulations for the use of hay meadows on forest reserves. These regulations had the approval of the Interior Stock Breeders’ Association and have been put into effect by Order in Council of December 19, 1916. Many applications for the use of meadows under these regulations have already been received and it is expected that much good will result, not only in increased prosperity to the grazing industry but also in a better understanding of the purposes of the reserves. The availability of these meadows for use will remove another of the criticisms sometimes made that the setting aside of forest reserves results in locking up natural resources and in preventing the development of the community.
FOREST INVESTIGATION.

Advantage has been taken of the application for sale, under the Forest Reserves regulations, of a large tract of timber of a sub-alpine type, on the summit of the Fly Hills forest reserve, to employ the regular forest rangers on a forest survey under the direction of Forest Assistant K. G. Wallensteen. This party while making the necessary examination preliminary to disposal under timber sale are also making the start in scientific silvical investigation, in this district, of this spruce-alpine fir type. This type covers large areas of the forest reserves and has in the past clothed practically all the summits of the interior plateau of British Columbia. This study is along the lines suggested by Mr. H. C. Wallin in his memorandum of January 2, 1917, advocating forest plan investigations, and should add considerably to the data now available on this type. This work also serves as a very valuable experience to the forest rangers employed. While no definite reports have been turned in as yet I am very well satisfied with the results obtained as shown to me during a recent visit to the scene of operations.

IMPROVEMENTS.

The favourable fire season permitted the giving of a great deal of attention to improvement work on the forest reserves. Practically all the rangers were thus employed either on new projects or on maintenance of existing ones for the greater part of the season. As a result most of the reserves are now completely equipped with the necessary trails, telephone lines, lookout stations, headquarters stations, and cache cabins. Special attention was paid to the last named, thirteen cabins being erected for storing fire-fighting equipment and to serve as stopping places for rangers on patrol. The district is thus in the fortunate position of being able to accept the reduction of allotments for the coming season and consequent cancellation of improvements with a fair assurance of success in combating fires.

PUBLICITY.

Although the exigencies of a much reduced staff prohibited the personal attention of forest officers to public education in the value of our work, still a great deal of good was accomplished among school children by the distribution of rulers and blotters bearing appropriate inscriptions, and among users of the forest by the distribution of whet-stones, and by placing blotters in hotels, banks, etc. Articles bearing on forest administration were also written for the newspapers from time to time.

EQUIPMENT AND SUPPLIES.

Further additions to the fire-fighting equipment available were made during the year, principally for storage in the cache cabins mentioned above.

FIRE PROTECTION ON DOMINION LANDS.

The organization of fire protection on the forested areas within the Railway Belt, outside of forest reserves, differs from the work explained above in several essentials:—

(1) The object to be attained is not the protection of watershed areas lightly covered with inferior tree species but the conservation of merchantable timber resources whose value is direct rather than indirect;

(2) The system of patrol is not so intensive, nor have the ranger districts been opened up by improvements in communication and transportation to nearly the same extent;
(3) Administration of fire permit regulations, supervision of burning of settlers' slash, and the situation of fire-ranging districts close to the settled areas of the Railway Belt bring the fire rangers into much more intimate contact with the general public than is afforded to the forest rangers on reserves in the discharge of their duties;

(4) Appointments to the fire-ranging staff are only temporary instead of permanent as they should be to get the best results.

It will be seen readily that conditions 2 and 4 operate adversely in any endeavour to secure maximum efficiency. The general public, and particularly the lumbermen whose vital interests are at stake, find it hard to understand why the Forestry Branch should expend its best efforts on the least productive areas, the forest reserves, rather than in alleviating the conditions mentioned above, which undoubtedly detract from the value of the protection afforded the merchantable timber areas, most of which are held under license as timber berths.

It has, therefore, seemed advisable to put on record here some of the considerations which have affected the origin and development of the present system of fire protection established by this branch, namely, the forest reserve and the fire-ranging administrations. In the first place it should be understood that the latter system is an adaptation of the original organization established by the department when the Crown Timber agents were charged with the supervision of the fire-ranging staff. As the organization of the Forestry Branch was extended this work was gradually taken over by it, but in a large number of cases the actual field work continued to be handled by the Crown Timber agents, who reported on all matters relating to fire protection to the Superintendent of Forestry. A later development of the organization consisted in the appointment of separate chief fire rangers, in place of the Crown Timber agents, as supervising officers of the ranger staff. Later, on the setting apart of forest reserves in certain sections of the West, a separate field staff was organized for their management along the lines followed by the United States Forest Service. At the present time it may be considered that the whole work is in a transition stage. As further forest reserves are created the field organization is readjusted to conform to the altered status of the lands protected. The extension of the area under forest reserve, by parliament, has in general followed the spread of public sentiment in favour of adequate conservation of national resources. Consequently, action has been not continuous but intermittent and irregular. This is as it should be, for it is a fundamental axiom of democracy that governmental action to be lasting and effective must either follow public demand or result as the outcome of an educational campaign adequate to bring public opinion to the point where it will agree to and approve of radical changes in national policy. The experience of this branch has shown that where the people of this country realize that the welfare of the basic industry of Canada, namely agriculture, is directly concerned there will arise automatically from the people themselves a demand for action on the part of the government adequate to meet the situation. Where the connection is not directly apparent or where subsidiary industries are concerned there is a tendency to public indifference to the administration of natural resources, which may easily be fanned into opposition by self-seeking exploiters unless an educational campaign is waged by those having the ultimate good of the country, as a whole, at heart.

This aspect of the public thought is illustrated by referring to the conditions relative to the origin of the forest reserves in British Columbia and on the east slopes of the Rocky mountains in Alberta. In this province the initiative came from the community, in a request to the department to protect the watersheds of streams used for irrigation purposes by creating forest reserves. In Alberta the forest reserves were established as a result of an educative propaganda which impressed upon the thinking men of the Prairie Provinces the correlation between the mountain forests and the stream flow of the great rivers of the prairies.
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It is necessary that a distinction be drawn between the nature of the country patrolled under the fire-ranging organization in the Prairie Provinces and in the Railway Belt of British Columbia. In the former instance, while there are undoubtedly areas which should be included in forest reserves, there are also large areas, particularly in the north country, where settlement is so remote and the timber so scattered and inaccessible as to make it probable that for a very long time at least these districts can best be handled by a loosely organized fire-ranging staff appointed for the danger season only. In British Columbia, on the other hand, the fire-ranging districts comprise areas containing either valuable stands of merchantable timber or well-established reproduction of calculable value, which should be given the utmost protection possible. Both transportation facilities and growth condition render the forests in this district, whether mature or in the younger age-classes, the hope and mainstay of future development in the lumbering industry. Consequently, the fire-ranging organization can only be considered as a temporary makeshift to fill in the gap till public sentiment forces the proper and necessary action, namely, the setting aside of all non-agricultural lands within the Railway Belt as forest reserves, with full administrative authority, a permanent staff, and an adequate improvement system developed on the ground.

The consummation of this plan is hindered both by the present state of public sentiment and by the interior organization of the department. As regards the former, I have mentioned in former reports the agitation raised against the forest reserve policy on the charge of locking up agricultural lands which, though largely unfounded, yet remains an obstacle not entirely overcome. Concerning the latter it is only necessary to refer to the address of Dr. B. E. Fernow on “Co-operation in Forestry” delivered at the sixth annual meeting of the Commission of Conservation, and printed on page 120 of the annual report of the Commission for 1915. It is doubtful if the creation of forest reserves and the application of reserve administration over these merchantable timber areas would result in any considerable reduction in the fire hazard, unless the management of the logging operations on timber berths were carried out in accordance with correct forestry practice as regards brush disposal. Such a reorganization of the department would appear to be a necessary corollary to the establishment of forest reserves over the remaining non-agricultural lands within the Railway Belt, as it offers, naturally, a relatively greater obstacle to further progress along this line than the mere obtaining of legislative action with respect to the status of the lands involved.

Such a broad increase in the scope of the functions of this branch could not be carried out without a considerable increase in the staff both of technically trained foresters and competent men of experience in logging operations. Under present conditions it is doubtful whether the necessary staff could be obtained.

Provided, however, that the solution of this difficulty is arranged for I do not anticipate serious objections to such a reorganization on the part of the lumbermen operating in the Railway Belt, who comprise the section of the public most intimately concerned.

I think it might be safely stated that the lumbermen of the Railway Belt are not averse to paying out large sums of money on fire protection of their limits, providing they can be shown that an improvement in the fire risk results from more intensive organization and larger expenditure on the part of the Government. This view has been expressed publicly several times by lumbermen at the annual meetings of the fire rangers.

Whether or not new forest reserves, with their attendant necessities for increased staff, are established in the near future, it is time that thought be given to the matter of future appointments to the staff. The Order in Council directing that preference in all appointments be given to returned soldiers brings up the question of the necessity of establishing some safeguards to guarantee efficient officers. While no one can disagree with the policy of preferential treatment of our returned soldiers, yet the public interest requires that all officials should be fully qualified for their duties. I
am of the opinion that the Government should go a step further in so far as appointment of forest officers is concerned and, following the procedure established in Europe, establish a vocational school to train returned soldiers for forest work. It is essential that only physically fit men be allowed to take such a course of instruction. From graduates of this school all necessary appointments could be made, so far as the number of men available would permit.

The routine work of the fire-ranging staff in this district during the past year was conducted in the same manner as detailed in previous reports. The generally favourable fire season, and close attention to work on the part of the rangers, resulted in very inconsiderable losses, as mentioned above.

In the Coast district, owing to the clearing off by lumber companies of several berths, resulting in the closing down of operations in the localities affected, it was found possible to reduce the number of rangers by two, leaving a total of twenty-one. Advantage was taken of favourable weather conditions to burn a large accumulation of logging débris, and to encourage and assist settlers in clearing up their slash. The Lookout Mountain lookout station, completed early in the season, gave first-class service and will undoubtedly be a great aid in preventing damage from forest fires.

Meetings of the rangers held in New Westminster at the opening and close of the fire-ranging season were productive of very interesting discussions and many practical suggestions for improvement in method.

In the Salmon Arm district it was necessary to increase the staff of rangers by two owing to the demands of the burning-permit business, bringing the number of men employed in the district up to eighteen.

One extra ranger was also employed in the Revelstoke district to provide an adequate protection to the great timber areas in the Spillamacheen River watershed, hitherto largely neglected.

In both these districts the settlers were co-operated with in the matter of burning brush. In most cases the ranger issuing the permit superintended the actual burning, a consideration which the settlers in general seem to have appreciated very much.

Publicity material distributed by rangers in all the districts has been of immense assistance in keeping the matter of forest protection constantly before the public.

A very enthusiastic ranger meeting was held in Revelstoke in October at which each of the rangers present contributed experiences and suggestions for the betterment of conditions in his particular district. Such meetings are of distinct value, not only in encouraging esprit de corps amongst the staff but also in providing a clearing-house for data, much of which is worked into the administration procedure in succeeding years.

RAILWAY FIRE-RANGING.

Co-operative work in the supervision of railway patrols, under General Order No. 107 of the Board of Railway Commissioners, was handled in the same manner as formerly, with excellent results. The railway companies concerned, namely, the Canadian Pacific Railway and the Kettle Valley Railway, gave the most careful consideration to all requests for action, and the only failures were due to labour conditions rather than to any disinclination on the part of the railway officials to conform with requirements.

The two suggestions made by myself to the Chief Fire Inspector of the Railway Board, which I consider would further increase the efficiency of fire prevention, have not been acted upon as yet, as he considers the time inopportune to lay further burdens upon the railway companies. They are, first, that all windows of smoking compartments of cars be screened to prevent the throwing of cigar or cigarette butts out of the train; and second, that when only one round trip per day is specified for section patrols that such patrol be performed in the afternoon. Records of the past few years
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show that an increasing number of fires are attributed to careless smokers on trains and, also, that most railway fires start or spread after mid-day. It is advisable that some action be taken along these lines in the future.

Co-operative work was also performed with the British Columbia Forest Branch in the supervision of railway patrols along the Canadian Northern railway, which was under provincial jurisdiction. Patrol measures were specified by myself early in the season and were carefully carried out by the company, as were also all suggestions for right-of-way improvements.

Thirty-three fires were attributed to railway causes during 1916, a reduction of 20 per cent from the preceding year. Of these about 80 per cent were set by coal-burning engines. No fires were reported as being set by oil-burning locomotives.

D. ROY CAMERON,
District Inspector of Forest Reserves for British Columbia.

APPENDIX No. 6.

This report concerns the progress of work in the Forest Products Laboratories of Canada for the fiscal year 1916-17.

Perhaps the most encouraging development during the year has been the widespread recognition of the place which scientific institutions must take in the systematic utilization of a country’s natural resources. This, in turn, has been a stimulus to the Forest Products Laboratories in planning investigations on a comprehensive basis, and in organizing the division with more faith in the ultimate value of the work and with more confidence in the fuller co-operation which may be expected between this division of the Government service and the wood-using industries.

The progress of work in the laboratories has been considerably hampered by the absence of members of the staff on active service and the loss of others who have gone into munition work. The Division of Timber Tests has been at half strength, and the nucleus of the Division of Wood Preservation was disturbed by resignations for war work, without the opportunity of building up this division very far under present conditions. The Divisions of Timber Physics, and Pulp and Paper have been more fortunate. Important progress has been made in most of the lines of investigation undertaken in the laboratories, and a special effort has been made to safeguard the basic organization and lay plans for more effective work when the pressure of war is relieved.

LIBRARY.

Library accessions during the year totalled 469, including books, pamphlets, government bulletins, etc. The total number of books on hand is 669, being an increase of 208 for the year. In addition to the above, 39 technical journals and periodicals have been received and indexed regularly. Progress reports of investigations are prepared monthly for the library and a number of special reports on tannins, potash from wood ashes, resinous wood distillation, wood flour, etc., have been filed. It is quite apparent that the library division has possibilities for increased usefulness in the way of carrying out literature studies, preparing concise reports on special subjects, working up miscellaneous articles for publication, and, in general, collecting information on forest products from all available sources and disseminating the same in proper form for the benefit of the Canadian public.
ENGLISH LANGUAGE:

DEPARTMENT OF THE INTERIOR

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EXHIBITS.

During the year 36 trunk-bark specimens were prepared from logs of Canadian species for permanent exhibit at the laboratories. The preparation of sets of hand specimens has been going forward, about 600 specimens representing 11 species being finished by the end of the year. Suitable labels for 56 Canadian species have been ordered and it is the intention to distribute these labelled hand specimens of Canadian woods to schools and other institutions throughout the country. Process exhibits are in preparation to illustrate the raw materials, intermediate products, and final products in various wood-using industries. A set of specimens representing Canadian woods suitable for toy-making was prepared. A very fine collection of Canadian pulp and paper samples was placed in the care of the laboratories by the Canadian Pulp and Paper Association. The British Columbia Forest Branch has furnished an exhibit of western woods in finished form.

TIMBER PHYSICS.

A special bench for microscopical work, a large cabinet for storage of specimens, a work desk, etc., have given improved accommodation for this division. The equipment and supplies added during the year include microscope accessories, microtome knife, micrometer, electric drying oven, photographic supplies, and special chemicals.

The main work of this division has been the determination of physical and structural properties of the woods which have undergone mechanical test in the Division of Timber Tests. The special investigations discussed under “Testing Clear Specimens,” “Drying of Wood,” and “Fibre Measurements,” show something of the scope of this work. Miscellaneous activities have included the working out and publishing of a new method of staining wood fibres, the replacing of celloidin by pyroxylin as an embedding material in mounting slides, the preparation of special reports on structural timbers, tannins, etc., and the distribution of 451 special slides of Canadian woods and fibres to 18 companies and other laboratories. The work of the division may be summarized as follows: Moisture determinations, 1,449; structural characteristics, 486; radial and tangential shrinkage, 75; specific gravity and volumetric shrinkage, 171; permanent microscopic slides, 379; duplicate slides, 1,448; temporary slides prepared and examined, 575; wood identifications, 108; fibre identifications, 119; fibre measurements, 12,680; special fibre mounts for use with lantern, 12; ordinary negatives, 150; photomicrographic negatives, 130; photographic prints, 1,218; copies, 114; lantern slides, 103.

TIMBER TESTS.

The saw-mill has been transferred from the outskirts of the city to the yard of the laboratories. A new storage shed has also been built to relieve the congestion in the Division of Timber Tests as well as in the other divisions. One testing machine of the McGill laboratory previously available for our use has been taken over by the Imperial Munitions Board for testing war materials.

The main work of the division is covered under “Testing Clear Specimens” and “Nova Scotia Mine Timbers” in the discussion of special investigations. Other miscellaneous tests were made from time to time in order to provide data necessary to answer specific inquiries received, and in co-operation with the work of other divisions. A tentative outline was drawn up for a series of strength tests on Douglas fir timbers in structural sizes, in co-operation with the British Columbia Forest Branch.

PULP AND PAPER.

The paper machine room and chemical laboratory were greatly improved by constructing a tintometer room, paper-testing room, office, benches, experimental beater
outfit, etc. Among the new equipment may be mentioned a measuring tank, pulp slow-
ness tester, condenser, storage battery, mercury arc rectifier, hydraulic pressure pump,
Ives tint photometer, water motor, pressure regulator, and chemical apparatus.

The main work of the Division of Pulp and Paper is covered under "Waste Sul-
Considerable time has been spent in perfecting the designs for the proposed experi-
mental pulp-mill in co-operation with members of the Advisory Committee. A number
of minor investigations have been carried on, mainly in order to make the unusual
facilities of the experimental paper mill available to those working out special problems
in this field. These include the comparison of steel and stone rolls for beating leather-
board stock, runs on paper sized by the "Waxine" process, the effect on pulp stock of
long standing, the testing of a hydrated pulp and new paper filler, the bleaching
qualities of certain pulps, the conversion of spruce planer shavings into sulphite pulp,
the testing of absorbent paper for filtering oil, and the collecting of information on
decayed balsam fir in pulpwood areas.

WOOD PRESERVATION.

In the laboratory for preservative treatment of wood the treating cylinder was
provided with more condenser capacity, the steam and air lines were rearranged,
recording instruments were installed, two storage tanks for oil were constructed, a large
drying oven provided, and a number of miscellaneous items of equipment added. The
pathological laboratory was improved by constructing a large cabinet for specimens,
completing the fitting up of the fungus pit, etc.

The main work of the Division of Wood Preservation is covered under "Ties," "Paving Blocks," "Fence Posts," and "Durability of Wood," in the discussion of
special investigations. Miscellaneous work has been done on the analysis of various
preservative oils, impregnation of various woods with an emulsion of creosote oil and
rosin soap, penetration tests with a special coal tar sample, the effect on flexibility of
soaking elm in common salt, investigation of methods of accelerating the fruiting of
wood-destroying fungi, examination of railway ties in the track to compare the relative
importance of decay and mechanical wear, designing a new humidity apparatus, and
collecting samples of wood preservatives and wood-destroying fungi.

MISCELLANEOUS WORK.

As mentioned in my last annual report, the problems concerning lumber deserve
more attention than we can give them with the present staff, and a separate division
should be established to deal with them. This industry is, of course, the largest con-
sumer of forest products, but being scattered throughout the country there is great diffi-
culty in keeping in touch with its developments. The solution of its problems fre-
quently depends to a very large extent on local conditions, and unless these can be
studied by competent men on the spot proper assistance is impossible. The efficient
utilization of many forms of wood waste, for instance, depends largely on an intimate
knowledge of manufacturing conditions in all wood-using industries, which can only
be obtained by first-hand investigation. Problems concerning the development of new
lines of manufacture can only be studied in the light of accurate trade information.
Some organization is necessary, also, to bring lumber dealers, and wood users generally,
into closer touch with the information available to them in these laboratories.

Problems connected with the wood distillation industry have been prominently
before us during the past year. Considerable work was accomplished in making avail-
able for cordite manufacture substitutes for acetone derived from the products of hard-
wood distillation. Part of the tar produced in this process has also been found of value
as a substitute for imported pine oil used for ore flotation. As this tar creosote was previously burned for fuel the new use, if it works out as experiments indicate, will be of considerable advantage to both the mining and wood-distilling industries. The distillation of resinous woods, particularly red pine stumps and western yellow pine, has also received some attention but the work shows no prospect that this industry will become of early importance, since the yields of valuable products are low compared with those obtained from southern yellow pine.

Some little attention has been paid to the tannin extract industry and it seems likely that the collection of more complete information in regard to Canadian conditions in this matter would be of value. It is expected that something in this connection will be done during the coming summer.

Considerable interest has arisen of late regarding the manufacture of wood flour of grades suitable for use in dynamite manufacture. Practically all the wood flour used in America is imported from Norway but there is no reason why its manufacture should not become a Canadian industry since the requirements are simply cheap power and clean wood waste, particularly of spruce and white pine.

Besides the regular work in the divisions now operating, members of the staff have kept in touch as much as possible with all phases of work connected with forest products, with the result that information is now available on practically every question which may arise.

SPECIAL INVESTIGATIONS.

Testing Clear Specimens.—This is a comprehensive investigation to provide reliable data on the mechanical, physical, and structural properties of all the important Canadian woods. Test specimens are of rather small sizes and are cut in such a way as to be free from defect. The mechanical tests are static bending, impact bending, compression parallel to grain, compression perpendicular to grain, hardness, shear, cleavage, and tension perpendicular to grain. The physical tests include moisture content, specific gravity, volumetric and linear shrinkage, per cent sapwood, per cent summerwood, rate of growth, and microscopic structure. The extensive test results on Douglas fir were assembled for publication as Forestry Branch Bulletin No 60 "Mechanical and Physical Properties of Canadian Woods—Douglas Fir". During the year five shipments of material were tested: black spruce, the so-called “grey” spruce (really black spruce), and white spruce from Quebec province; and white pine and red pine from Ontario. The mechanical tests totalled 1,042, moisture determinations 1,163, structural characteristics 446, radial and tangential shrinkage 75, specific gravity and volumetric shrinkage 116. In general, black spruce is somewhat stronger, stiffer, and tougher than white spruce; red pine is much stronger, harder, stiffer, and tougher than white pine. Red pine has also proved to be stronger in most respects than black spruce.

Nova Scotia Mine Timbers.—The strength tests on 270 props and booms in the green condition were completed in the summer of 1915. The duplicate specimens which have been allowed to season are now being tested in the air-dry condition, 60 booms being finished by the end of the year. Props are tested in 6-foot lengths as columns, and booms are tested as beams on a 12-foot span. Half of the specimen logs were seasoned with the bark intact and half peeled. The comparative rates of seasoning have been determined and it is expected that the tests will provide interesting data as to the value of peeling mine timbers before storing in the yards. The species under examination are black spruce, red spruce, balsam fir, yellow birch, white birch and jack pine.

Drying of Wood.—Modified plans have been drawn up for a rather comprehensive study of the drying of wood. A start has been made towards determining the fibre saturation point of five coniferous woods. It is intended to study the relation between
shrinkage and moisture content, the variation of moisture content with changing humidity of the atmosphere at different temperatures, the rate of drying, and other factors which play such a large part in the proper choice of wood species for particular purposes.

_Waste Sulphite Liquor._—No further experimental work has been attempted in this field but considerable time has been spent in making a literature study. By abstracting the technical articles which have appeared since work on waste sulphite liquor was first started, and classifying these in such a way that literature on various phases of this subject can be readily located, it is hoped that a publication can be turned out which will be a valuable reference for those connected with pulp and paper making, and which will also serve as a basis for experimental work that will be necessary in order to promote utilization of this enormous by-product.

_Beating of Pulp._—A considerable amount of work has been done during the year in the study of the factors connected with the proper beating of paper pulp. Information has been obtained on the relation between peripheral speed, stock concentration, and horse-power consumption. Several methods have been investigated for determining the degree of hydration. Unfortunately progress has been hampered by inability to obtain foreign testing instruments and appliances.

_Cross-ties._—The experimental work during the year has been confined to creosote treatment of jack pine and hemlock, which are two of the most important woods for railway cross-ties. Some 16 charges of jack pine and 4 charges of hemlock ties have received experimental treatment under different conditions of temperature, pressure, moisture, vacuum, etc. The sapwood of these species is penetrated by creosote fairly well, but the heartwood is very resistant to impregnation. Not much improvement is noticed by preliminary steaming and vacuum, but proper drying of the ties is important.

_Acetone._—Reports and miscellaneous information have been submitted to the Imperial Munitions Board in connection with experimental and investigative work on acetone and substitutes as solvents in cordite manufacture. The new solvents proved successful, but there has not yet been need for using anything but pure acetone. The superintendent, as a representative of the Imperial Munitions Board, has been giving most of his time during the last half of the year to special work on acetone.

_Blotting Paper._—A number of runs of blotting paper have been made under conditions found necessary in previous experiments, and a satisfactory grade has been made on the semi-commercial paper machine. Several thousands of these sample blotters have been printed and distributed by the Forestry Branch as forest fire protection notices.

_Pulpwood Measurements._—Some further work has been done on the investigation of the feasibility of barking, chipping, drying and baling pulpwood for shipment to chemical pulp-mills. In view of the fact that saw-mills are at present burning slabs which contain raw material for good grades of pulp, data were obtained from saw-mills and a supply of slabs was carefully measured and chipped to determine the yield of chips per cord compared with rough or peeled round wood. The results are discussed in detail in a paper entitled "Pulpwood Measurements and some Factors involved in Chipping and Baling Pulpwood" published in the _Pulp and Paper Magazine_, December 15, 1916. Attention is being given to commercial tests on drying of pulpwood chips.

_Potash._—No further experimental work was done, but correspondence and literature study were continued. A report on potash from wood ashes was prepared and copies were sent to interested parties. Recovery of potash is receiving a certain amount of attention commercially in Canada during the present shortage.
Chemistry of Wood.—Very satisfactory progress has been made on this project and this investigation has taken its place as a fundamental study of the chemical properties of Canadian woods, particularly in relation to pulp-making. A new method for the determination of cellulose has been brought out and other methods of wood analysis have been improved. Black spruce, white spruce, red spruce, balsam fir, and poplar have been studied to date.

Paving Blocks.—An experimental investigation of the creosote treatment of red pine paving blocks has been planned for, but there has been no opportunity to carry forward the work. In the meantime the results of tests, specifications, and recommendations regarding treated wood-block paving in the United States and elsewhere are being analyzed, so that the laboratories can properly keep in touch with the Canadian situation.

Fence-posts.—Twenty-two Russian poplar fence-posts from the Forest Nursery station, Indian Head, Saskatchewan, were seasoned and treated with creosote by the open tank process. Determinations of rate of seasoning, moisture content when treated, absorption, and penetration were also made. The treated posts were shipped back to Indian Head for a service test in comparison with untreated posts set in the ground under the same conditions.

Oils for Ore Flotation.—A special investigation of Canadian wood oils for flotation of Cobalt and other ores was actively carried on during the greater part of the year in co-operation with the Mines Branch. By-product creosote and ketone oils now available commercially in the hardwood distillation industry have in some cases given promise of successful substitution for pine oil now imported from the Southern States, and the results are being checked up on a commercial basis at Cobalt. Various oils obtained by small scale distillation of Canadian resinous woods, including red pine and western yellow pine stumps, have also been tested, but the prospects for utilizing this waste material are not so promising. Valuable data have been obtained on the physical and chemical properties of the various wood oils and fractions thereof. The results have been summarized in two papers, "Flotation Experiments with Canadian Wood Oils" and "Canadian Wood Oils for Ore Flotation," by R. E. Gilmore and C. S. Parsons, for publication in the Bulletin of the Canadian Mining Institute.

Durability of Wood.—One hundred and two test pieces, representing 11 wood species, of which 7 were conifers and 4 hardwoods, were exposed in specially prepared fungus beds to determine the relative natural durability in contact with the important wood-destroying fungi. The results have confirmed the fact that conifers are more resistant to decay than hardwoods, but improved methods of test will have to be worked out in this difficult field in order to throw more light on the important subject of wood decay. About 100 test pieces of Douglas fir have also been exposed to various fungi under different conditions, in culture jars, to establish the characteristics of Canada's most important structural timber.

Fibre Measurements.—About 12,000 fibre measurements have been made during the year to establish the variation in fibre dimensions of the wood throughout the tree. The species under examination were Douglas fir, black spruce, white spruce, red pine, and white pine. The results on the first species have been summarized in a paper entitled "Douglas Fir Fibre, with Special Reference to Length," by H. N. Lee and E. M. Smith, published in the Forestry Quarterly, December, 1916.

Sulphite Pulp.—A start has been made on the investigation of the sulphite cooking process, which is the most important method of converting pulpwod into valuable chemical pulp. With the small scale apparatus available studies have been
made on the penetration of the cooking liquor into the wood under various conditions, with special reference to the effect of moisture content of the chips. The preliminary results have been published in a paper on "Wood as a Raw Material in Papermaking," by Dr. B. Johnsen, in the Pulp and Paper Magazine, April 5, 1917.

**PUBLICATIONS.**

The following are the publications of the year:—

Forestry Branch Bulletin No. 59, "Canadian Woods for Structural Timbers", by H. N. Lee, copies of which were distributed to persons interested.


During the year a number of unpublished papers have been prepared by members of the staff for presentation before various societies, a list of which is as follows:—


"Canada's Work in Forest Research", by W. B. Campbell (read before Canadian Forestry Association, Ottawa, January 15, 1917).

"Dry Rot in Buildings", by W. Kynoch (read before Canadian Lumbermen's Association, Toronto, February 6, 1917).


"Acetone as a War Material and its Relation to the Hardwood Distillation Industry", by J. S. Bates (read before Ottawa Foresters' Club, March 7, 1917).

"Flotation Experiments with Canadian Wood Oils", by C.S. Parsons and R. E. Gilmore (read before Canadian Mining Institute, March 8, 1917).

**PUBLICITY AND CO-OPERATION.**

During the year several hundred visitors interested in wood-using industries and conservation have come to the laboratories to see the work which is being carried on.
More and more stress is being laid on co-operation with scientific societies, trade associations, and the wood-using industries in general. Coordination of the government scientific branches with the various industries of the country is really necessary in order to eliminate a great deal of overlapping and waste effort, to carry out investigations with a thorough understanding of Canadian conditions, and to achieve the practical commercial results which represent the ultimate benefit of such work to the country as a whole. The superintendent has served again as Chairman of the Technical Section of the Canadian Pulp and Paper Association, member of the Committee on Uses of Wood in Building Construction of the National Fire Protection Association, member of the Committee on Publicity of the American Wood Preservers' Association, and member of the Council of the Society of Chemical Industry. Members of the staff have attended meetings and taken an active part in the work of various associations and societies, and have visited industrial plants, etc., in different parts of the country in connection with collecting or furnishing information.

The general Advisory Committee to the laboratories has held three meetings during the year and has given valuable assistance in matters of general policy. Last fall the laboratories secured the active co-operation of the pulp and paper industry by the appointment of a special Advisory Committee to the Division of Pulp and Paper from the Technical Section of the Canadian Pulp and Paper Association.

**Information Furnished.**

The answering of inquiries regarding woods and their uses has become a more and more important function of the laboratories, as the public have become aware of this governmental source of information. About three hundred such reports were prepared during the year.

The information desired was mainly on the following subjects: strength of various species of wood; suitability of species for particular uses; uses of various kinds of wood waste; identification of wood specimens; technical methods of examination of wood; botany of trees; characteristics of wood fibres; production of tannin, gums and oils from various species; weights of various species; warping and checking of lumber; the moisture content of wood for certain uses; the processes of preservation applicable to various woods for various purposes; the distinctions between rolls of different materials in the beating of paper pulp; method for the determination of fermentable and non-fermentable sugars in waste sulphite liquor; the manufacture of wood flour; the "souring" of wood when allowed to stand; uses of grasses in paper making; the chipping and baling of pulpwood; tests for pulp and paper; utilization of paper and pulp-mill by-products; possibilities of hardwoods for mechanical pulp; recovery of pine oil from the sulphate process; durability of railroad ties; fungus attack on mine timbers. Besides these a host of minor inquiries from all parts of the country have been answered.

JOHN S. BATES,

*Superintendent, Forest Products Laboratories of Canada.*
PART VII

IRRIGATION
Following the rule adopted last year this report of the Irrigation Branch for the year ended March 31, 1917, comprises brief reports by myself and by the Commissioner of Irrigation and Chief Engineer, under whose supervision much of the work was conducted.

The grain crop in southern Alberta and southwestern Saskatchewan—the district in which the principal interests of the Irrigation Branch are centred—was again good. The yield was, generally, not as high as in 1915, but was distinctly above the average, and in some districts equalled the record of 1915. This, coupled with the higher prices which obtained in 1916, made the crop of that year very profitable and many settlers who had suffered severely from crop failures prior to and during 1914 are now, as the result of two good harvests, on the high road to prosperity.

The exceptionally good grain crops in southern Alberta and southwestern Saskatchewan in the years 1915 and 1916 were due, primarily, to the unusually plentiful and well-distributed rainfall throughout the critical periods of the growing season, coupled with hot, dry weather during the ripening period in August, and to the absence of rust which so seriously affected the crops in other districts. The average precipitation at Calgary during the growing season for the 32-year period 1885-1916 was 13.5 inches, ranging from 6.8 inches in 1902 to 31.5 inches in 1902. The precipitation during this period, April to October, inclusive, during 1915, was 17.3 inches, and during 1916, 10.8 inches. While the latter is below the general average, the heavy rainfall of September and October, 1915, and April and May, 1916, more than compensated for the scanty precipitation during June and July of 1916. In this connection it is well to remember that the volume of rainfall is of less importance than its seasonal occurrence.

While an adequate and well distributed volume of moisture supplied naturally in the form of rain is undoubtedly more satisfactory than a similar amount supplied artificially by irrigation, the rainfall statistics and crop yields throughout this period clearly indicate the value of irrigation as a means of crop insurance, even in cases where it may not be required every year for the production of forage crops.

IRRIGATION DEVELOPMENT.

The practical completion of three of the larger irrigation projects, the discontinuance of work on others owing to the difficulty of securing funds, the falling-off in immigration, the shortage of man power and the high rate of wages for farm help have resulted in temporary stagnation in the development of irrigation enterprises.

The condition of the labour market is seriously interfering with ordinary farm work, and will probably result in a reduced acreage being planted in 1917. The effect upon irrigated farms is even more serious than in districts where irrigation is not practised. The irrigation farmer expects, and should receive, a greater return than his neighbour who practises ordinary farming methods, but in order to accomplish this he must make greater expenditures both of capital and labour. As both capital and labour are at present scarce and dear, the irrigation farmer finds it difficult, and in some cases quite impossible, to complete the construction of irrigation works or to maintain such works after construction, or to prepare his land so as to reap the return he should receive from the application of irrigation water. The result is that the larger completed projects are being settled and developed very slowly, while little
development work is being done on the smaller projects except in cases where the owner is himself able to do the work.

This is particularly regrettable at the present time when large areas of excellent land in the "dry belt" are awaiting the settler and the plough, and where irrigation works which have cost many millions of dollars are lying practically idle because of the falling-off in immigration, while at the same time there is greater need than ever before for increased agricultural production. This unfortunate condition will undoubtedly right itself in time, but meanwhile the land is unproductive and little or no return is being realized on the invested capital, while the maintenance expenses are almost as great as if the systems were being fully operated.

FIELD WORK.

In his report submitted herewith the Commissioner of Irrigation has described in some detail the nature and extent of the administrative and field work done during the past year. The work has been carried on under peculiarly difficult conditions. Many of our most experienced and efficient officers are absent on military duty—fifty-five having enlisted for overseas service and one being assigned to similar duty in Canada—and it is becoming increasingly difficult to keep the work up to its former standard of efficiency.

The necessity for economy has not been overlooked. All field survey work has been temporarily abandoned and a considerable saving has been effected by combining the work of stream measurement with irrigation inspections in certain districts. Although strongly urged to continue certain partially completed surveys—particularly in the district south and east of Lethbridge, Alta.,—with a view to finally determining the location and extent of areas that can be irrigated from the available sources of water supply, it has been decided not to prosecute this work further at present, although it is beyond question that its completion is essential to the fullest development of those districts. It may, however, safely be said that this work has by no means been abandoned; its completion has merely been deferred for a time.

HYDROMETRIC SURVEYS.

The work of hydrometric surveys (stream measurements) has been carried on much as in former years. Most of the gauging stations established in previous years have been maintained, and new ones have been established as opportunity offered. The policy has been to establish permanent stations on the more important streams and to continue measurements at these stations for an indefinite period. On the smaller streams, of less relative importance but still important in a limited sense, measurements will be continued for a period of approximately ten years from the date of the installation of the stations—a ten-year record being assumed to be sufficient for administrative purposes. In still other cases it has been found necessary in connection with local water supply problems to measure the flow of springs and small creeks at frequent intervals and with considerable exactness, but such measurements are rarely continued beyond a year or two, and are abandoned as soon as sufficient information has been obtained to serve the need of the case then being dealt with, which is usually the supply of water for domestic purposes for some village or settler.

The territory covered by this work is divided, for convenience of administration, into twelve districts, each in charge of an engineer, who, with one helper and the necessary gauge observers, performs all the field work. During the open-water season, 177 gauging stations were maintained, and records were also obtained at 138 gauges established on irrigation canals and ditches; during the winter season, 84 stations were maintained.
DRAINAGE.

The ownership and control of all sources of surface-water supply, including lakes, marshes and swamps, in the provinces of Alberta and Saskatchewan, and in that portion of the province of Manitoba added thereto by the Manitoba Boundaries Extension Act, 1912, are vested in the Crown in the right of Canada. (R.S.C. chap. 61.)

The unalienated public land within the boundaries of the provinces of Alberta, Saskatchewan and Manitoba is similarly owned and controlled by the Crown in the right of Canada, while control of the drainage of land is vested in the Crown in the right of the several provinces.

This divided jurisdiction has provoked controversy and has seriously interfered with the reclamation of submerged or swamp land and with the construction of highways, and has materially retarded the settlement and development of districts comprising large areas of such submerged or swamp land.

Efforts have from time to time been made, through informal conferences between representatives of the Dominion and Provincial Governments, to devise some mutually satisfactory and uniform means of dealing with the drainage of Dominion land, and at a conference held in Regina, Sask., in November, 1916, an agreement was reached with respect to:

1. Small drainage projects to be dealt with by the Dominion Government;
2. Drainage of Dominion land in connection with the construction of highways by the Provincial Governments;
3. Drainage of Dominion land within the boundaries of drainage districts organized under Provincial Drainage Acts; and
4. Drainage projects initiated by the Dominion Government under the provisions of the Provincial Drainage Acts.

The result of this conference was reported by the conferees to their respective governments, with a recommendation that such legislation be enacted as might be required to give effect to the aforesaid agreement.

The Government of the province of Alberta subsequently signified its approval of the proposed methods of dealing with the several classes of drainage projects hereinbefore referred to, in accordance with the procedure agreed upon at the conference, and, as evidence thereof, submitted a draft of a Bill intituled "An Act respecting the Drainage of Dominion Lands," to be submitted for enactment by the legislature then in session, thereby giving effect to the agreement in so far as legislation is required by the province of Alberta.

Upon receipt of this draft Bill the Dominion Government, by an Order in Council dated 17th March, 1917, approved of the agreement and undertook, upon the enactment by the respective provincial legislatures, or any of them, of adequate legislation to give effect thereto, to approve and promulgate such regulations as may be required to carry the agreement into effect.

The Government of the province of Alberta duly passed "The Reclamation Act," and the Dominion regulations are now in course of preparation.

The agreement reached with respect to the several classes of drainage projects previously referred to is as follows:

Small Drainage Projects.

Application is frequently made to the Dominion Government by owners of, or entrants for, fractional quarter-sections of land, the remaining portions of which are covered by the waters of lakes, or marshes, for permission to drain such bodies of water in order to reclaim the underlying land, which will thereafter be disposed of in one way or another (usually free of cost) to the applicants.
In other cases application is made for permission to drain such bodies of water and to purchase the underlying land.

It is usually found to be in the public interest that such small and shallow bodies of water should be drained, but in spite of the willingness of both the Dominion and Provincial Governments there has heretofore been no means of satisfactorily doing this except by following the procedure of the Private Ditches Acts of the Provinces of Alberta and Saskatchewan, or the Land Drainage Act of Manitoba, all of which provide unnecessarily elaborate machinery which is not well adapted to such small projects, although quite suitable to those somewhat more extensive.

The agreement hereunder provides a simple and satisfactory method of dealing with such projects and adequately provides for the maintenance of the drainage works after construction. Its adoption will be a boon to the settlers and a convenience to all the governments concerned—but chiefly to the Dominion.

(Agreement. Section 1.)

When application is made to the Dominion Government for permission to drain small lakes or swamps in order that the owners of, or entrants for, fractional quarter-sections of land thereby affected may be able to reclaim by drainage the submerged or swampy portions of such land and secure patent for the full area of each such quarter-section, or where application is made to the Dominion Government for permission to drain small lakes or swamps and to purchase the land to be thereby reclaimed, the applicants in such cases shall not be required to comply with the provisions of the Private Ditches Acts of the provinces of Alberta and Saskatchewan or the Manitoba Land Drainage Act, but upon production of evidence satisfactory to the Provincial Minister having control thereof that adequate provision has been made

(a) For the disposal of the water of such lakes or swamps;

(b) For the protection of roads, highways, and other public works;

(c) By agreement among the respective applicants for sharing the cost of constructing the proposed drainage works, and for the subsequent cost of maintenance;

and that the consent of the Dominion Government has been obtained, and upon submission to the said Provincial Minister of the report of the engineer appointed, or to be appointed, by the Minister of the Interior, the said Provincial Minister may approve of plans of the said proposed works, and the applicants shall thereupon become entitled to exercise all necessary powers respecting the expropriation of land required for right of way of the proposed works and for the settlement of the amount of damages with the owners of any lands affected thereby.

Provided, that the area to be reclaimed shall not in any one case exceed 1,280 acres and the estimated cost of the proposed works, as shown by plans thereof prepared by an engineer appointed or approved by the Minister of the Interior, shall not exceed the sum of $2,000;

Provided, further, that any and all ditches or other works so constructed shall thereafter be maintained in the same manner and subject to the same conditions as are prescribed by Section 34 of the Alberta and Saskatchewan Private Ditches Acts, or in the province of Manitoba by Sections 45, 46, and 47 of the Manitoba Land Drainage Act, as if the said works had been constructed in accordance with the provisions of the said Acts.

Drainage in connection with Road Construction.

Considerable difficulty has been experienced by the Provincial Governments in constructing roads through the central and northern portions of the Prairie Provinces
and wide detours are often necessary to avoid shallow lakes or swamps. It has frequently been found that roads built at considerable expense are impassable for long periods and that the only practicable means of building good and durable roads is by first undertaking to drain bodies of water or vacant swamp land owned or controlled by the Dominion Government.

The Provincial Governments have not been willing to spend their limited revenues for works which would largely benefit vacant Dominion land, without receiving some financial assistance from the Dominion Government. The agreement provides for the sale to the provinces of a sufficient area of the land to be reclaimed by such works to pay for the cost of the drainage and road work, and further provides that the provinces shall sell the land so acquired at public auction, subject to settlement and to such further conditions as the Dominion Government may impose, and for the refund to the Dominion of any portion of the sale price after the cost of the works has been defrayed.

(Agreement. Section 2.)

When the Lieutenant Governor in Council deems it necessary in the public interest that any submerged or swampy Dominion land should be reclaimed by drainage in order to facilitate the construction or improvement of public highways through the district in which the said land is situate, and upon the consent of the Dominion Government having been obtained for the drainage of any bodies of water within the purview of the Irrigation Act, and for the construction of the proposed works on the said Dominion land, the Lieutenant Governor in Council may purchase from the Dominion Government any portion of the Dominion land to be so reclaimed. Any land so purchased shall be offered for sale by the Lieutenant Governor in Council at public auction, in accordance with such conditions as may be imposed by the Dominion Government, and the proceeds of the sale of the land shall be applied towards the cost of the said drainage and road work. Any surplus money remaining after the total cost of the work, including the purchase price of the land, shall have been repaid, shall be refunded to the Dominion Government;

Provided, that the expenses of the sale of the land and of the collection of the purchase price shall be considered as part of the cost of the said works;

And provided, further, that adequate provision shall be made by the province for the maintenance of the said works after construction.

The following action shall be taken by the province to give effect to the foregoing:

1. An inspection and survey of the land; the laying out of the drainage ditches; the preparation of plans, with an estimate of cost and the proportionate benefit to each parcel of land affected, and the submission of such plans and estimate to the Dominion Government, with

2. An application to the Dominion Government to transfer to the province as much of the land affected by the works as may be necessary to fully cover the cost of the works.

Dominion Land within Organized Drainage Districts.

In many of the more northerly portions of the Prairie Provinces the arable land consists of ridges or islands interspersed with shallow lakes or swamps. Settlement is sparse because of the limited area of arable land and the difficulty of access to it at certain seasons.

The few resident owners are unable to drain their own lands because usually a comprehensive scheme of drainage is required, the cost of which is beyond their means. The bulk of the land in such districts, or certainly a goodly proportion of it, is vacant
Dominion land not assessable for any portion of the cost of the drainage works, although benefiting by such works equally with the land of resident owners.

(Agreement. Section 3.)

Where vacant Dominion land is included in a proposed drainage district and the province applies to the Dominion Government for the sale of such land to the province, and the Dominion Government agrees to sell the land, the Provincial Government shall be deemed to be qualified as a "resident owner" under the respective Provincial Drainage Acts.

The procedure required to give effect to the foregoing was agreed upon as follows:—

1. The province shall have an investigation made, in accordance with the provincial laws respecting drainage, and shall have a report and plans prepared, together with an estimate of the cost of the proposed works, the area and character of the land affected thereby, and the proportion of the cost to be assessed upon each parcel of land affected.

2. Such reports, plans, estimates of cost, and proportionate assessment shall be forwarded to the Minister of the Interior, together with a separate schedule of the Dominion land affected by the proposed works and the proportion of the cost of the works to be assessed upon each parcel thereof, with a request that the said land, or such portion thereof as may be available, be sold to the province in order to facilitate the organization of the drainage district and the undertaking of the necessary work.

3. If the plans of the proposed works and the estimated cost thereof are approved, the Minister of the Interior shall secure the approval of Council for the sale to the province of the available Dominion land affected by the proposed works, in accordance with the provisions of an agreement to be prepared under his direction and attached to the Order in Council. Such agreement shall contain, among other provisions, the following:—

(a) The land shall be sold at the rate of $1 per acre (or as may be agreed upon), payable as follows: Ten per cent of the purchase price shall be paid within thirty days of the execution of the agreement and the balance in nine equal, annual instalments, with interest at five per cent per annum upon the unpaid principal. Title to the said land shall remain in the Crown, in the right of Canada, until paid for in full, and title may then issue either to the province, or to its nominees, as may be requested by the provincial authorities. In the event of the province desiring to complete the purchase and take title to any part of the land sold before payment in full has been made for the whole tract, payment in full shall be made for such parcel or parcels, before letters patent are issued.

(b) The land so sold to the province shall be offered for sale at public auction within a period of two years from the date of the completion of the works, or within such extended period as may be authorized by the Minister of the Interior for that purpose. The sale shall be made under regulations similar to those prescribed by the Minister of the Interior for the sale of School Lands, and the minister may be represented at such sales, if he so desires. It shall be a condition of all such sales that the purchaser shall build a habitable house upon the land purchased and shall go into residence thereon, or within nine miles of such land (or words to that effect to harmonize with Sub-section 2 of Section 28 of the Dominion Lands Act) within a specified period and shall reside continuously upon the land for a period of not less than six months in each of three successive years.

4. The organization of the drainage district shall then be completed in accordance with the provincial laws. In the event of failure to organize a
drainage district through the unwillingness of the resident owners, or for any other cause, the agreement for sale shall not be executed and the application submitted by the province for the purchase of the land shall be cancelled.

5. Any land which at the time of the organization of the drainage district is held under entry, but is un-patented, and which is subsequently abandoned by the entrant, shall not be liable for any portion of the cost of the works remaining unpaid at the date of the said abandonment. Such land shall, however, upon abandonment, be sold to the province at the same rate and subject to the same conditions as the land set out above, reserving to the entrant the right to his improvements; provided that if such land is subsequently sold by the province credit shall be given the purchaser for the amount of any drainage assessments paid by the previous owner or entrant and subject to any such assessments remaining unpaid at the date of the sale.

6. The proceeds of the sale by the province of land so acquired from the Dominion Government shall be applied by the province:

(a) To recoup to the province any and all expenditures made in connection with the organization of the drainage district and the construction of the drainage works therein or in connection therewith, including the purchase price of the land, other than the proportionate cost assessed upon privately-owned land and remaining unpaid at that date;

(b) To cancel and remit the unpaid assessments charged against the aforesaid privately-owned land in the drainage district.

(c) To refund to the owners thereof any portion, or all, of the assessments previously paid on the said privately-owned land in the drainage district; and

(d) Any surplus remaining shall be applied towards the construction of roads and bridges in the rural municipality, or municipalities, in which the said drainage district is situated.

7. An account shall be kept by the Provincial Government of the proceeds of all sales of Dominion land acquired in connection with any drainage district, and of the disposition thereof, and a detailed statement thereof and of the expense incurred by the province in connection with each such district shall be rendered to the Dominion Government annually.

*Drainage Projects Initiated by the Dominion Government under the provisions of Provincial Drainage Laws.*

In certain cases where it is found to be in the public interest to drain shallow lakes or marshes, and where the adjacent lands have been alienated and are, for the most part, arable, the direct benefits of drainage accrue almost entirely to the submerged land which is owned by the Dominion. The settlers in the surrounding districts benefit only indirectly by the improved roads and more convenient routes of travel.

Under present conditions the Dominion Government cannot undertake the improvement of its own land without encountering serious legal difficulties, particularly in the expropriation of right of way for ditches, etc., and in making adequate provision for the maintenance of the works after construction.

Under the agreement the Dominion Government will be deemed a “resident owner” and will have the right to construct works for the reclamation of such land and to exercise all needful powers under the provisions of the Provincial Drainage Acts. In any case where such work is undertaken by the Dominion Government it is intended that the reclaimed land shall be sold at public auction and subject to settlement duties and that the proceeds of the sale shall be used to recoup to the Dominion Treasury the entire cost of the work. Dominion legislation may possibly be required before any such work is undertaken; certainly the money for the work must first be voted by Parliament, but the agreement removes any obstacles in so far as the Provincial Governments are concerned.
When the Dominion Government, as the owner of vacant Dominion land requiring drainage, desires to reclaim such land in accordance with the provisions of the Provincial Drainage Laws, the Dominion Government shall be deemed to be qualified as a "resident owner" under the provisions of the respective Provincial Drainage Acts.

The provisions of the respective Provincial Drainage Acts shall be complied with by the Dominion Government in so far as the same may be applicable thereto; provided that:

1. The inspection and survey to determine the feasibility of the proposed project, and the proportionate cost of construction works to be assessed upon each parcel of land affected thereby shall be made by an engineer appointed or assigned thereto by the Minister of the Interior, but the report of such engineer shall after having been approved by the Minister of the Interior, be dealt with in accordance with the provincial laws.

2. The whole cost of construction of such works shall be borne by the Dominion Government, and no debentures will be required in connection with any such drainage district. The proportion of the cost of the works assessed upon any land other than Dominion land comprised in any drainage district shall be collected annually, in the manner provided in the respective Provincial Drainage Acts, and deposited with the Provincial Treasurer, who shall, upon receipt thereof, promptly remit the amount so collected to the Minister of the Interior, to be applied in reduction of the expenditure made by him for the construction of the works. The Dominion land shall be offered for sale at public auction within a reasonable time after the completion of the drainage works, and the said land shall be sold subject, among other things, to settlement conditions, and upon the further condition that the purchasers of the said land shall be responsible for the maintenance of the drainage works in accordance with the provisions of the provincial laws and in accordance with the proportion of cost fixed by the engineer at the time of the organization of the district.

While as previously stated, the Government of the province of Alberta has enacted legislation to carry this agreement into full effect, the Saskatchewan Government has only partially done so by an amendment to the "Highways Act," passed at the last session of the legislature. This legislation deals only with such drainage of Dominion land as may be found necessary in connection with the construction or maintenance of highways. It is to be hoped that the further legislation required to give full effect to the agreement will be enacted at the next session. No action has been taken by the Manitoba Government to confirm, or otherwise, the agreement reached by the conference.

Two small reclamation projects have been authorized in the province of Alberta under the provisions of this agreement.

1. Mr. John Hedberg has been permitted to purchase at one dollar per acre the NW. ¼ of section 6, township 54, range 16, and the NE. ¼ of section 1, township 54, range 17, west of the 5th meridian, for reclamation by drainage, comprising an area of some 317 acres.

About 75 per cent of this land is composed of muskeg covered with small brush and under water. In its present condition it is valueless but when reclaimed and cleared will be valuable as hay and agricultural land. The land can be effectively drained into Edson creek, which will provide a sufficient outlet.

2. Mr. N. J. Bailey has been permitted to purchase at one dollar per acre an area of some 798 acres for reclamation by drainage in township 53, range 8, west of the 5th meridian, portions of which are covered by the waters of a shallow muskeg lake.
The lands at present are worthless but when reclaimed will be valuable for agricultural purposes and can be drained into the North Saskatchewan river through an intermediate creek system.

Preliminary surveys will be made during the season of 1917 to determine the feasibility and probable cost of a large reclamation project. This project comprises a large but useless lake and several smaller lakes and marshes, all situated within a well-settled mixed-farming district and within convenient distance of good market towns and railways. These bodies of water apparently serve no useful purpose, except as a resort for wild fowl, and constitute a serious obstacle to the further development of an otherwise prosperous farming district.

**PERSONNEL.**

The "Honour Roll" of the Irrigation Branch now contains the names of fifty-six officials who have enlisted for active service. Charles P. Maxted died of wounds; Nelson R. English, who had previously been reported wounded and missing, was, on 16th April, 1917, officially reported as having died on or since 15th September, 1916; several have been wounded, some seriously; Lieut. W. T. White was awarded the Military Cross, and several others have won promotion for service in the field.

The honour roll is now closed; the names of any who may hereafter enlist under any other than the voluntary system must be recorded separately. It is believed, however, that but few of the remaining officials of this branch are eligible for military service.

**REVENUE.**

Appended hereto is a statement of the revenue received and accounted for during the year ended 31st March, 1917.

<table>
<thead>
<tr>
<th>Location</th>
<th>Revenue</th>
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</thead>
<tbody>
<tr>
<td>Lethbridge agency</td>
<td>$ 59.65</td>
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<tr>
<td>Calgary Agency</td>
<td>1,356.35</td>
</tr>
<tr>
<td>Medicine Hat</td>
<td>6,158.25</td>
</tr>
<tr>
<td>Swift Current</td>
<td>1,199.40</td>
</tr>
<tr>
<td>Maple Creek</td>
<td>2,753.26</td>
</tr>
<tr>
<td>&quot; Irrigation Branch, Calgary &quot;</td>
<td>957.13</td>
</tr>
<tr>
<td>&quot; Ottawa &quot;</td>
<td>1,897.18</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$15,381.22</strong></td>
</tr>
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</table>

which is made up as follows:—

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Land sales</td>
<td>$14,310.51</td>
</tr>
<tr>
<td>Reservoir leases</td>
<td>81.58</td>
</tr>
<tr>
<td>License fees</td>
<td>576.00</td>
</tr>
<tr>
<td>Registration fees</td>
<td>19.00</td>
</tr>
<tr>
<td>Preparation of plans</td>
<td>394.13</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$15,381.22</strong></td>
</tr>
</tbody>
</table>

E. F. DRAKE,
Superintendent of Irrigation.
### Employees Enlisted for Active Service

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Enlisted</th>
<th>Discharged</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>J. W. H. Wilkes</td>
<td>Leveller</td>
<td>Aug. 16, 1914</td>
<td></td>
<td>Lieut. 3rd Brig., R. H. A.</td>
</tr>
<tr>
<td>E. S. McMillan</td>
<td>Draughtsman</td>
<td>Aug. 21, 1914</td>
<td></td>
<td>L. Corp. Div'l Engineers.</td>
</tr>
<tr>
<td>W. E. Dowe</td>
<td>Draughtsman</td>
<td>Aug. 22, 1914</td>
<td></td>
<td>Bombing Instructor, 15th M. D. Calgary</td>
</tr>
<tr>
<td>C. V. Craik</td>
<td>Asst. Engineer</td>
<td>Aug. 22, 1914</td>
<td></td>
<td>Corp. Div' Engineers.</td>
</tr>
<tr>
<td>H. E. Bowden</td>
<td>Teamster</td>
<td>Sept. 26, 1914</td>
<td></td>
<td>Spr. Div' Engineers.</td>
</tr>
<tr>
<td>J. S. Ferris</td>
<td>Draughtsman</td>
<td>Nov. 6, 1914</td>
<td></td>
<td>Lieut. Machine Gun Corps.</td>
</tr>
<tr>
<td>H. D. St. A. Smith</td>
<td>Asst. Engineer</td>
<td>Nov. 9, 1914</td>
<td></td>
<td>Maj. Div' Engineers.</td>
</tr>
<tr>
<td>D. C. McDougall</td>
<td>Accountant</td>
<td>Nov. 19, 1914</td>
<td></td>
<td>Q. M. S. Div' Engineers.</td>
</tr>
<tr>
<td>N. J. Arnold</td>
<td>Draughtsman</td>
<td>Jan. 28, 1915</td>
<td></td>
<td>Staff Srgt., 157th Bn., C.E.F.</td>
</tr>
<tr>
<td>H. W. Cheney</td>
<td>Asst. Engineer</td>
<td>Sept. 29, 1915</td>
<td></td>
<td>Lieut. 4th University Co.</td>
</tr>
<tr>
<td>N. R. English (died</td>
<td>Rodman</td>
<td>Sept. 29, 1915</td>
<td></td>
<td>Pte. 4th University Co., P. P. C. L. I.</td>
</tr>
<tr>
<td>L. J. Gleeson</td>
<td>Asst. Engineer</td>
<td>May 9, 1916</td>
<td></td>
<td>Corp. 50th Queen's Battery.</td>
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<tr>
<td>J. M. Paul</td>
<td>Asst. Engineer</td>
<td>May 22, 1916</td>
<td></td>
<td>Gnr. 72nd Queen's Battery.</td>
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<tr>
<td>I. R. Strome</td>
<td>Asst. Engineer</td>
<td>June 20, 1916</td>
<td></td>
<td>Lieut. 25th Reserve Battalion.</td>
</tr>
<tr>
<td>J. A. Currie</td>
<td>Draughtsman</td>
<td>Aug. 1, 1916</td>
<td></td>
<td>Gnr. 73rd Field Battery.</td>
</tr>
<tr>
<td>A. E. Hughes</td>
<td>Packer</td>
<td>Nov. 16, 1916</td>
<td></td>
<td>Pte. 211th Battalion.</td>
</tr>
<tr>
<td>J. E. Caughey</td>
<td>Asst. Engineer</td>
<td>Mar. 1, 1917</td>
<td></td>
<td>Lieut. 7th Battery, C. F. A.</td>
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SESSIONAL PAPER No. 25

SUMMARY REPORT ON IRRIGATION AND CANADIAN IRRIGATION SURVEYS.

Organization of Staff.

The organization of the staff was similar to last year, except that the proportion of the staff employed in the office was somewhat greater. This was caused by the fact that all field work was cut down to the necessary administrative work, and no large survey work was undertaken except that necessary to finally complete all field information concerning the Lethbridge Northern project. At the same time, owing to the necessity of completing estimates of certain large projects previously developed in the field, the office engineering staff had to be somewhat increased.

A change in the office procedure was made with a view to placing the assistant chief engineer in a position entailing more direct supervision over all matters of a technical engineering character. This meant that, in addition to the work in connection with the large irrigation companies, all work passing through the office engineer's hands and all the office work in compiling the reports on the surveys of the large irrigation projects was directly supervised by him.

It was again necessary to make a considerable number of changes in the personnel of the staff owing to men going on active service, yet, on account of the loyal support of the men remaining, it has been possible to carry on the work very efficiently and economically. The total number of persons employed on the permanent office staff was thirty and on the permanent field staff twenty-nine. This gives a grand total of permanent officers of fifty-nine, and including the summer assistants one hundred and four. Owing to the fact that we now have hydrometric records over a fairly long period and that the major portion of the irrigation construction work has been completed, it is planned next year to increase the efficiency and economy of the work in a number of districts by combining irrigation and hydrometric work. Under this new programme the efforts of the inspecting engineers will be, as fully as possible, concentrated on the development of actual field preparation and irrigation.

OFFICE WORK.

The office work carried out is indicated by the schedule below, which is given in a similar form to previous years for purposes of comparison:

<table>
<thead>
<tr>
<th>Description</th>
<th>Figures</th>
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<tbody>
<tr>
<td>Letters received</td>
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<tr>
<td>&quot; sent</td>
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<td>Applications for water rights recorded</td>
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<tr>
<td>Plans examined and approved</td>
<td>176*</td>
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<tr>
<td>Plans amended</td>
<td>145</td>
</tr>
<tr>
<td>Agreements, right of way, etc., recorded</td>
<td>45</td>
</tr>
<tr>
<td>Right of way plans recorded in quadruplicate</td>
<td>20</td>
</tr>
<tr>
<td>Water agreements field in quadruplicate</td>
<td>616</td>
</tr>
<tr>
<td>&quot; &quot; cancelled</td>
<td>619</td>
</tr>
<tr>
<td>&quot; &quot; transferred</td>
<td>148</td>
</tr>
<tr>
<td>Notices for publication prepared</td>
<td>34</td>
</tr>
<tr>
<td>Plans prepared</td>
<td>598</td>
</tr>
<tr>
<td>Blue prints made</td>
<td>13,550</td>
</tr>
<tr>
<td>Certificates issued under section 20</td>
<td>53</td>
</tr>
<tr>
<td>&quot; 33</td>
<td>47</td>
</tr>
<tr>
<td>Licenses recorded, in triplicate</td>
<td>64</td>
</tr>
<tr>
<td>Weekly reports received from engineers</td>
<td>2,003</td>
</tr>
<tr>
<td>Reports of discharge measurements received</td>
<td>3,137</td>
</tr>
<tr>
<td>&quot; gauge heights received</td>
<td>7,855</td>
</tr>
<tr>
<td>Descriptions of regular gauging stations, H.I</td>
<td>55</td>
</tr>
<tr>
<td>Reports of changes at river stations, H. 22</td>
<td>310</td>
</tr>
</tbody>
</table>
During the year a good deal of correspondence developed in connection with transferring the stream administration and records to the new system to be adopted, and one office engineer was employed entirely on this work. Owing to the fact that it was impossible to make available for this very important work more than one engineer, and that a great many details had to be studied out and the details of the new system worked out, the progress of the work was not entirely satisfactory. However, a very considerable amount of necessary preparatory work was done, as scheduled hereunder, and it is expected that during the coming year the major portion of all the records will be transferred. Drainage basin administration maps have been prepared covering the first thirty-two townships from the British Columbia boundary to the 5th meridian and twenty-four townships from the 5th meridian to the east boundary of the province of Saskatchewan. Schedules of applications and licenses have been prepared for thirteen basins, detail sheets for seven and balance sheets for five. Hydrographs and duration of flow curves have been prepared for fourteen stations.

HYDROMETRIC SURVEYS.

The records of this very important branch of the work are published in a separate report on Hydrometric Surveys. The organization of the work was similar to previous seasons. As noted under the caption "Organization of Staff", it is expected next year to combine certain of this work with irrigation inspections in order to gain further economy and efficiency. The office staff, including the chief hydrometric engineer, comprised seven men all told. The territory covered was divided into twelve districts and twelve hydrometric engineers were employed in the field. During the open-water season records were taken at 177 regular gauging stations on streams in Alberta and Saskatchewan and at 161 regular gauging stations on irrigation canals and ditches. Winter records extending as far north as the Peace river were secured at 84 regular gauging stations covering practically all the important streams in the two provinces.

CURRENT-METER RATING STATION AT CALGARY.

The rating station was operated as usual and a total of 69 meters rated as below:—

<table>
<thead>
<tr>
<th>Branch or Company</th>
<th>Meters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Irrigation Branch</td>
<td>45</td>
</tr>
<tr>
<td>British Columbia Hydrometric Survey</td>
<td>10</td>
</tr>
<tr>
<td>Manitoba Hydrometric Survey</td>
<td>9</td>
</tr>
<tr>
<td>Canadian Pacific Railway Company, Department of Natural Resources</td>
<td>3</td>
</tr>
<tr>
<td>Shawinigan Water and Power Company</td>
<td>2</td>
</tr>
</tbody>
</table>

**Total:** 69

FIELD WORK.

The field work is indicated below, subdivided under the headings of the field parties which carried out the work.

**Cypress Hills District—Irrigation Inspection.**—In view of the fact that the bulk of the construction work has been completed in this district by 1915, it was no longer considered necessary to provide so fully for the inspection of the irrigation schemes. The old eastern and western districts were, therefore, combined and the whole territory was covered by one party under the charge of Mr. M. H. French. The party took the field on April 29, and disbanded on September 27. Mr. French and his assistant working alone completed all the necessary inspections by November 13. The season comprised 174 actual working days. The total number of inspections made was 184, the number of schemes surveyed was eight, and in addition to this, right of way surveys were made for twelve schemes. The number of miles travelled by team was 2,989. The party consisted of five men with seven horses.
The construction work, tending to carry the unlicensed schemes further towards completion, and for the repairing of damaged structures, was practically nil this year. This is accounted for by the high price and scarcity of labour, owing to the agricultural districts being depleted of able-bodied men who have enlisted in the army. The farm help now available is decidedly unskilled and far from satisfactory, yet demands big wages, being aware that the irrigator has no option. Consequently, the latter must choose between paying big wages to incompetent and unreliable help, or leave the work undone. Generally speaking, the latter course is followed with the plea of no help available.

Calgary District—Irrigation Inspections.—The work was confined to the same district as in the previous year, but the difficulty of transportation, owing to the very heavy roads due to the wet season, again hampered the work considerably. The work was carried out by Mr. J. C. Milligan, who had one assistant and one team of horses. The work was commenced on April 19, and ended on October 26. The season comprised 140 actual working days. The total number of schemes inspected was 137, the number of schemes surveyed was three. The number of miles travelled by team was 1,883, and by train 630.

Practically no construction work was attempted this year and only one scheme was recommended for license. The reason for this has been the great scarcity of labour occasioned by the war and the very wet weather. Financial matters have improved among the ranchers and farmers, owing to the prevailing high prices of their products, and if the labour conditions were normal, construction work could all be completed. Five schemes have been authorized but as yet no work has been done on them. Eight schemes have been authorized but only partially completed.

Special Inspections—Domestic, Municipal, Irrigation and Industrial.—This work was carried on under the immediate supervision of Mr. W. E. G. Hall, office engineer. The routine work as office engineer again consisted mainly of examining and checking all plans prepared by the inspecting engineers or submitted by applicants for water rights or other purposes. In addition to this the office engineer supervised the work of the two special inspectors, and saw that for each trip the inspections were properly grouped, as regards economy in time, travel, expense and the urgency of an early report.

Mr. C. Chambers carried out the inspections in Alberta, totalling 66 in number, and made seven surveys of all descriptions. He travelled 6,254 miles by train and 1,586 miles by team or other means.

Mr. E. L. Miles carried out the inspections in Saskatchewan, totalling 91 in number, and made 19 surveys of all descriptions. He travelled 7,965 miles by train and 2,326 miles by team or other means.

The office engineer examined and checked 321 plans of all descriptions and 55 descriptions for right of way.

Large Irrigation Companies—Progress Reports.

Mr. S. G. Porter, Assistant Chief Engineer, devoted his time to supervising all the large irrigation companies, and the compilation of the final reports upon the projected irrigation developments surveyed during the preceding two years and completed during this year. In addition, he had under his special charge the approval of the classification of irrigable land in the Eastern Section of the Canadian Pacific Railway Company’s irrigation block.

The Southern Alberta Land Company completed the re-construction of the main diversion dam, damaged by floods in 1915, from the north end of the dam across and beyond the damaged portion where a temporary connection was made to the south end of the old dam.
It is proposed at some later date to extend the new part the balance of the distance
to join the sluice gate structure on the south bank of the river. Aside from the repair
work on the dam, no construction work was undertaken during the year.

No field work in connection with the Western Section of the Canadian Pacific
Railway Company’s irrigation block was carried on during the year. Mr. G. N.
Houston, Chief Field Engineer, completed his final report on the re-classification
of the irrigable lands and left the service of the department in September, 1916. A
considerable amount of office work in connection with the checking and filing of water
agreements, and the issuing of classification certificates has been carried out during the
whole of the year.

The Alberta Railway and Irrigation Company’s system was operated as usual, and
a small amount of improvement work and re-construction has been in progress during
the year.

Classification of Irrigable Land.—Canadian Pacific Railway Eastern Section.—
One field party, consisting of eight men, all told, with seven horses, was put in the
field under Mr. J. S. Tempest, who had as his assistant Mr. P. A. Fetterly. The party
commenced this work on April 27, and continued until October 28. The same general
methods of inspection were adopted as had been established in previous years on this
work, but on account of the greater difficulties that were encountered with respect to
the alkalinity of the soil, and the extremely flat nature of some localities, the party
was increased in size. As a rule the party was divided into two sections, one section
devoted almost all its time to soil investigations, and the other to topographical and
general inspection. An irrigable area of approximately 92,000 acres was inspected and
this completes the field work in connection with the classification of the irrigable land
on this project.

Irrigation Surveys.—As noted under the heading “Organization of Staff,” very
little field survey work was done, but a considerable staff was engaged in completing
the office work in connection with several large projects which had been previously
surveyed.

One large survey party under the charge of Mr. T. M. Montague was operated
during the season, working respectively, on the Lethbridge Northern irrigation project,
the Taber irrigation district, and the Macleod irrigation project. The party took the
field on April 25, and disbanded on September 13, completing a season of 123 actual
working days. A summary of the season’s work is as follows:—

161 miles of level lines.
61 miles of traverse line complete with topography;
Topographical features map over 25,000 acres of land;
39 test holes or test pits were made to determine the material for canal excava-
tion; and
20 groups of soil samples were taken.

The Lethbridge Northern Irrigation Project.—The investigation of the feasibility
of irrigating certain lands north of the Oldman river from a point north of Macleod
to the mouth of the Little Bow river, has been a live issue since 1910. Many schemes
have been proposed, the most feasible one of which began to take shape in 1913 as a
result of the surveys carried out by this branch during that season. The surveys were
continued in 1914 and 1915, and full reports of the investigations leading to the choice
of route for the main canal, and an approximate determination of the areas which
could be irrigated from it, are contained in the report on irrigation for those years.
Prior to 1916 the estimates of cost and area included the lands in the neighbourhood of
Carmangay, Barons, and Rocky Coulee. The settlers in these districts, in March,
1916, held a meeting at Barons, and adopted a resolution opposing the inclusion of
their lands in the proposed irrigation district. Inasmuch, however, as the settlers in
the balance of the district were anxious to have their lands irrigated, it was decided to
complete the surveys and estimates of the project, excluding the land in the east and north, the owners of which were opposed to it. Fortunately, the construction of the system as modified appears to be just as feasible as under the plans originally proposed. The field work completed during the season comprised the re-location of a portion of the main supply canal, the plane-tabling of 16,000 acres of land, the taking of a large number of additional soil samples, and the making of test borings along the route of the main canal to determine the material to be excavated. The office work completed under the charge of Mr. C. M. Arnold comprised the completion of a final report upon the feasibility and cost of this project.

*Milk and St. Mary Rivers—Irrigation Project.*

During the year 1914, preliminary surveys of this project were carried out by this branch and reports showing the methods of carrying on the field work, together with some approximate estimates of available water supply and cost data, were published for that year. During the year 1916 this branch again placed parties in the field to make more detail surveys, particularly of those tracts of land which from the previous year’s surveys it was determined could be the most economically served. During 1916 the necessary office work based on the field surveys already made, was continued by Mr. B. Russell. There has been projected, in as much detail as the information available would permit, a complete system of canals to serve the various tracts described, and complete estimates of the cost of construction have been submitted.

*Taber Irrigation District.*—In 1915 the province of Alberta enacted the Irrigation District Act providing for the formation of districts whereby the settlers may raise money by the sale of bonds secured by their lands for the purpose of constructing irrigation works.

The same year the farmers between Chin Coulee and Taber, along the Crowsnest Branch of the Canadian Pacific Railway, erected the Taber irrigation district for the purpose of entering into an agreement with the Alberta Railway and Irrigation Company, for the supply of water for the district from a reservoir already constructed in Chin Coulee. The surveys were made by the Canadian Pacific Railway Company, and during the fall of 1915 a complete inspection and classification of the lands were made by this branch.

It was found, however, that a large area in the west end of the district had not yet passed to the ownership of the settlers, who had undertaken to purchase it from the School Lands Branch. It could not, therefore, be bonded under the Irrigation District Act without the consent of the Dominion Government. Efforts were made to secure legislation which would overcome the difficulties, but no solution was found which was satisfactory.

It was then proposed to extend the limits of the district eastward to include an additional area sufficient to bring the total irrigable area in the extended district, exclusive of the School Lands, up to the amount of 17,000 acres, for which a water supply was available. This branch undertook to make the additional surveys which were necessary for this purpose. The field work was carried on from July 26 to August 10, during which time the survey of the main carrying canal was extended to the easterly limit of the tract, and an area containing 9,500 acres of land was plane-tabled. This work developed all the information that was necessary to allow the district to extend its boundaries in order to bring the total irrigable area, exclusive of the School Lands, up to 17,000 acres.

*Macleod Irrigation Project.*—In 1915 the President of the Board of Trade at Lethbridge made inquiries of this department as to the feasibility of irrigating a strip of land east of Macleod, lying between the Belly and Oldman rivers, in the vicinity of Pearce and Orton. This inquiry was afterwards supplemented by a petition signed
by a number of the owners of land in the district, asking the Government to make surveys to determine whether or not their lands could be irrigated at a reasonable cost. The water required to irrigate this land would be diverted from the Oldman river. The proposed dam, headworks and a portion of the main canal of the Lethbridge Northern project would be utilized, the new district bearing a pro rata portion of the cost of these works. The first definite step towards the investigation of the feasibility of the project was a reconnaissance of the district by the Commissioner and Mr. B. Russell.

During 1916, Mr. Montague with the party under his charge, carried on surveys of this project from April 25 to June 1. During this time the whole area which might be served was blocked out by level lines, and the main supply canals were located. The field investigations carried on developed the fact that, owing to peculiar topographical features, the irrigable area was very much smaller than that estimated by the preliminary reconnaissance. The field surveys indicate that there are only about 9,500 acres of irrigable land in the district, and the estimated cost of supplying them with water is about $24 per acre.

**Duty of Water Experiments and Demonstration.**—This work was carried on in a similar manner to the previous year, under the supervision of Mr. W. H. Snelson.

Mr. J. E. Degnan had charge of the work in the Coaldale district of the Alberta Railway and Irrigation Company's project at Lethbridge, and his work was devoted to measuring the actual quantities of water applied to the irrigated fields in this district, gaining all information possible with a view to demonstrating what is the proper and most beneficial duty of water.

Mr. H. C. Giffen had charge of the experimental work at the Strathmore plots. It has been very definitely determined that over a considerable area at the Strathmore plots, the ground water level rises to such a height that it is tapped by the roots of the plants, and this makes it impossible to accurately determine the quantity of water used by the plants, and thus renders the plots unsuited for experimental purposes. It is the intention to transform these plots into a demonstration station during 1917, and to establish new duty of water plots at Brooks, Alberta, in the Eastern Section of the Canadian Pacific Railway Company's irrigation project.

Through the courtesy and co-operation of the Southern Alberta Land Company, it was again possible to compile very useful data covering the duty of water on their irrigated demonstration farm at Ronalane, about 40 miles due west of Medicine Hat.

F. H. PETERS,
Commissioner of Irrigation and Chief Engineer.
PART VIII.

WATER POWER.
No. 1.

REPORT OF THE SUPERINTENDENT OF WATER POWER

J. B. Challies, C.E. (Tor.), M. Can. Soc. C.E.

The following report, with the attached reports of Mr. J. T. Johnston, B.A.Sc., C.E., Chief Hydraulic Engineer, and of the officers and engineers in charge of divisions, concerns the activities of the Dominion Water Power Branch for the fiscal year ending March 31, 1917.—

It has been exceedingly difficult during the past fiscal year to maintain those phases of our office and field work which, under all the circumstances were considered to be absolutely necessary. Every possible reduction of expenditure consistent with the absolute necessity of the departmental work, has been effected. The progress which has been made and results achieved are quite satisfactory, and due very largely to the self-sacrificing work of all the members of the staff.

In my preceding report, particular attention was called to the necessity for advertising Canada’s water-powers. As the war progresses the growing dependence of industry on water-power, and the ever increasing use of hydro-electric energy, is forcibly exhibited. The per capita consumption of power in Canada for all purposes except railways, is higher than in any other country, and with the increasing use of small accessories, the development of electric cooking and heating, the per capita consumption will be very largely increased. At the same time the industrial use of power is developing at a tremendous rate. It is safe to predict that within a very few years the use of electric energy will be twice what it is to-day. Under a proper scheme of development some day most of our great manufacturing industries and railway terminals at any rate, will be run by water-power.

While the development of hydro-electric power has reached a very high state of efficiency and very little improvement can be hoped for in the art, the efforts of engineers and designers must be devoted to the reduction of costs, largely by improved financing of power enterprises. The Government authorities can directly assist in the reduction of power costs by proper control of construction work, as well as by proper control of rates and services, also by preventing duplication of transmission lines and distributing systems. More especially can the Government authorities assist power development by preventing the usual initial large capital charges in connection with power enterprises that are incidental to promotion.

In view of the increased use of water-power and the necessity for close government supervision and co-operation in its development, it is urgent that there should be proper publicity for the fortunate position Canada enjoys in respect to “white coal.” Canada occupies a unique position in this respect, for we have a supply of power for all anticipated requirements for generations to come, and of equal importance, we have our powers very fortunately located.

During the year motion pictures have been adopted as the most suitable publicity medium. The power situation in respect to the cities of Vancouver, Calgary, Winnipeg and Montreal, and the systems of the Ontario Hydro-Electric Power Commission, have all been filmed. Complete scenarios in each case are incorporated in the report of the Chief Draughtsman, under whose immediate direction the filming of the Montreal power situation and the assembling and completion of the other scenarios, was carried out. There has been a very great demand for the use of these films to date, and it is understood that the Department of Trade and Commerce, for whom they were made
by the Dominion Water Power Branch, will have them circulated by the Bureau of Commercial Economics at Washington, D.C., throughout the world, more especially through the financial centres of the United States, where most of the capital is now being obtained for financing industry in Canada.

ONE NEW POWER PLANT.

Actual construction operations have not been commenced on any new water-power projects in the Prairie Provinces during the past fiscal year. At the same time preparations are under way for the commencement of actual work at Grand Rapids where the main Saskatchewan river debouches into Lake Winnipeg. At this point a development very favourable for pulp and paper purposes is feasible and will be undertaken by the Lake Winnipeg Paper Company. While the present financial stringency is causing delay in the commencement of several important and necessary water-power projects in the Prairie Provinces, delay will in the long run be advantageous. It allows the Dominion Water Power Branch an opportunity of proving beyond doubt the economic features of projects, certainly in so far as hydrometric and hydrologic data are concerned. Continuous hydrometric studies for a period of several years, and a careful analysis of future demands for power, are essential to a safe determination of the economic features of any power project. This is especially so in the rivers of the Prairie Provinces where flow conditions are apt to be very erratic and where there are competitive sources of power-producing agencies.

HYDROMETRIC SURVEYS.

The provinces of Manitoba, Saskatchewan, Alberta, and British Columbia are now included in the hydrometric work of this department. The Dominion Water Power Branch is looking after British Columbia and Manitoba; the Irrigation Branch, Alberta and Saskatchewan. All the work is being carried on under the most approved practice by qualified technical officers. While some more active co-relationship in the various organizations is desirable, the field methods now employed are satisfactory. Complete reports of the work in the provinces of Alberta and Saskatchewan are published in the regular annual Stream Measurement report of the Irrigation Branch. A complete report of the work in British Columbia by Mr. R. G. Swan, B.A.Sc., Chief Engineer of the British Columbia Hydrometric Survey, is incorporated in section 5. A complete report on the Manitoba work by Mr. M. C. Hendry, B.A.Sc., Chief Engineer of the Manitoba Hydrometric Survey, is incorporated in section 6 of this report.

WATER-POWER REGULATIONS.

A noted water-power authority in the United States has stated that owing to unsatisfactory water-power legislation the aggregate falling-off in water-power development since the year 1903, amounts to more than five million horse-power. In other words if water-power development had been properly encouraged during this period and continued at the normal rate of development prior to 1903, there would have been an additional five million horse-power at work in the United States today; the public would be fixing the rates to be paid for this great additional amount of energy and the service rendered thereby would be regulated by the State Public Utility Commissioners. Consumers would be enjoying a saving of at least $50,000,000 annually in their power bills, and most important of all, about 100,000 labourers now engaged in "following coal from the bowels of the earth to the ash pile," would be free for other more important work. Unsatisfactory water-power legislation is blamed for this apparent stagnation in the use of the water-powers of the United States.
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Suitable water-power regulations for Western Canada are therefore exceedingly important. In the report of last year the need for revising the water-power regulations was pointed out. When it is remembered that the entire hydro-electric industry has grown up within the last generation it is easily understood how there are no satisfactory precedents in the laws and regulations of other countries to serve as a guide to proper procedure. The most progressive of the European countries are no further advanced in this matter than the United States and Canada.

The existing laws governing the subject in North American jurisdictions, most of them passed since 1900, are surprisingly brief and inadequate, and have been subjected to the severest criticism from both the financial interests which seek development and the public. The Dominion law, like that of the United States, governing water-powers in the public lands and forests, occupies less than a printed page of the statute books.

Practically every session of the United States Congress in the past ten years has wrestled with the subject of water-power legislation; dozens of bills have been introduced; many committee hearings with voluminous proceedings have been held; and debates have occurred which have occupied the attention of the House and Senate for weeks at a time; but no satisfactory solution has yet been agreed upon.

While the existing regulations of the Dominion, adopted by an order of the Governor in Council on the 2nd of June 1909, contain many excellent features that have been the subject of favourable comment outside of Canada, it is not surprising that they should now (1917) prove inadequate in many respects.

The legislation of the Dominion Parliament which is the authority for both the existing and the proposed regulations is contained in section 35 of the Dominion Lands Act (1908). This section, after providing for the withdrawal from ordinary disposition and sale of all Dominion lands which are valuable for water-power development purposes, simply gives the Governor in Council very broad powers to make regulations for administering the said lands and water-powers, but stipulates that in no case shall any such lands be conveyed in fee.

The primary purpose of the water-power regulations is to bring into force an administrative scheme which, while not retarding the present development of any water-powers which are ready for development, will retain the ownership and control of the powers themselves in the Crown, and will secure their utilization under conditions that will guarantee the inhabitants of the surrounding cities and districts the utmost possible benefit.

Some of the problems presented in the study of suitable water-power regulations are as follows:

1. Shall the water-power grant take the form of a definite term lease, or shall the form of contract known as "the indeterminate franchise" be adopted?

2. If the definite term lease is adopted, what shall be the length of the term, and what the provisions for renewal?

3. Shall rentals be fixed at the time a contract is executed and shall they be invariable throughout an entire period of say fifty years, or shall they be revisable at stated lesser periods? In the absence of agreement between the Minister and the licensee, in what manner and by what authority shall rentals be readjusted at the end of the term (supposing the license is renewed), or at other stated periods?

4. Shall compensation be paid to the licensee for the water power plant if taken over by the Government at the end of the term? If so, shall actual investment cost, estimated cost of reproduction, going-concern value or some other basis of compensation be accepted?

5. Shall the Government be compelled to take over and pay for transmission lines, sub-stations, office buildings and entire distribution systems when repossessing itself of the site at the end of the term? If so, should there be any
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distinction between the principles of compensation for these properties and for works on Dominion lands?

(6) In recapturing the properties, if lands acquired in fee by the licensee are included, should the Government be privileged to purchase the lands at what they cost the licensee, or should the increment due to the enhancement of land values by reason of the progress of settlement be included?

(7) What court, commission, or other authority shall determine the extent of works to be taken over and fix the compensation to be paid therefor in case the Government exercises its right of recapture at the end of the term?

(8) What penalty shall be provided in cases of default on the part of the licensee? Shall cancellation of the license or lease ever be resorted to? If so, when, and what compensation if any, shall be paid the licensee for works constructed by him in different cases?

(9) What provision shall be made for stream-regulation and control by the Government to promote the largest measure of conservation of stream waters?

(10) What provisions, if any, for insuring reasonable rates and proper service to the customers of the public utility company utilizing a Dominion water-power?

During the past year or more certain of the members of the staff of the Water Power Branch have been quietly working on these and many other problems of like nature which must be thoroughly solved before satisfactory regulations can be evolved. Preliminary provisions covering all phases of the subject were first drafted and conferences and discussions were then held from time to time, after which a complete set of proposed regulations was prepared.

Three hundred copies of this complete draft were printed for private distribution, accompanied by an introductory note explaining its purpose and scope, and about two hundred of these have been mailed to different persons in the United States and Canada with the request that they be examined confidentially, and freely criticized. These persons included fellow water-power administrators in other Canadian provinces, in Washington, D.C., and in the State Capitals, consulting engineers, university men who have specialized on water-power problems and public utility matters, and representatives of several large operating concerns engaged in financing and constructing water-power developments.

Many letters of helpful and thoughtful criticism, representing all points of view, have been received in reply to these inquiries. At the same time a mass of invaluable material pertaining to the laws, regulations and pending legislation of other countries has been accumulated, and all this material has been carefully segregated, digested, and co-ordinated according to subject matters and the section numbers of our printed draft, in cases where divergent opinions have been expressed, and an endeavour has been made to indicate the preferable procedure.

With this intermediate stage of the work now nearing completion, the department is in a position where it can make intelligent decisions concerning correct lines of policy, and as a result of this investigation the department should be enabled to put into effect a most exemplary set of water-power regulations.

All this research work of the branch in connection with water-power regulations, has been under the supervision of Mr. H. W. Grunsky, B.A. The exceedingly satisfactory results achieved to date are entirely due to his expert legal knowledge and lengthy experience in both the engineering and legal aspects of administration and legislation problems respecting water and water-power.

NOVA SCOTIA WATER-POWERS.

During the past fiscal year, exceedingly satisfactory progress has been made in the co-operative investigations of the water-power resources of the province of Nova Scotia, being carried on by the Dominion Water Power Branch and the Nova Scotia
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Water Power Commission. Mr. K. H. Smith, B.A.Sc., A.M. Can. Soc. C.E., has been in charge of this work as resident engineer of the Dominion Water Power Branch and as Chief Engineer of the Nova Scotia Water Power Commission. The work is under way at an unusual low unit cost, and will gradually be extended to thoroughly cover the whole province.

FOREIGN VISITORS.

Several distinguished visitors from foreign countries have spent some time in the branch. Prof. Boris Bakhmeteff and Prof. A. Astroff, prominent Russian engineer members of the Imperial Supply Committee in America, were officially entertained by the writer last October, and were shown the water-powers serving the Montreal market and the Hydro-Electric Power Commission system in the province of Ontario. Some time also was spent in Ottawa.

LAKE OF THE WOODS REFERENCE.

The final hearing of the International Joint Commission in this very important reference has been held, and it is understood that the report will be available in a very short time. The engineers of this branch have without reservation afforded the consulting engineers to the commission and the engineers of the various private interests affected by the reference, every possible assistance by securing for them most of the essential data covering the hydrometric and hydrologic conditions in the watershed, and the physical features of the various developed and undeveloped power sites. This data will appear subsequently in a collation by the consulting engineers to the Commission, and so far as the Lake of the Woods is concerned, form the main part of the consulting engineers' report.

THE LAKE OF THE WOODS TECHNICAL BOARD.

The function of this board is to co-ordinate the various Canadian interests and see that those interests are properly represented before the International Joint Commission in connection with the Lake of the Woods reference. After a great deal of effort involving the collation of a large amount of hydrometric, topographic and general water supply and economic data, the board succeeded in effecting a very satisfactory compromise as between the navigation, land, fishing and water-power interests. As power is the predominant interest in the watershed, it was found necessary to afford the power requirements every possible consideration. As representing the power interests of the province of Manitoba, I desire to take this opportunity of formally expressing appreciation for the assistance that has been rendered by the other members of the board in conserving the water-power possibilities of the Winnipeg river in the province of Manitoba.

APPRAISEMENTS OF WATER-POWER COMPANIES.

Anticipating the time when a full appraisement must be made of water-power companies and public utility corporations controlling water-power developments in Western Canada, advantage was taken of an opportunity of having one of the members of our staff get valuable experience by placing Mr. A. M. Beale, B.Sc., temporarily, on the staff of engineers working for the Royal Commission of Investigation into Railways and Transportation. The experience gained by Mr. Beale in this connection will ultimately be of great value to the branch. It is very satisfactory to note at the same time, that Mr. Beale's services were of considerable worth to the technical staff of the commission.
During the past year the power and storage investigations in the provinces of Alberta and Saskatchewan have mainly consisted of investigations of water-power applications, some general reconnaissance work and some special survey work in various parts of the two provinces. A detail report of this work by Mr. C. H. Attwood, Chief Engineer, is set out in section 7.

In addition to its regular departmental work in the administration of the water powers of the western provinces, the Dominion Water Power Branch has been able to render assistance to the International Joint Commission in connection with the Lake of the Woods reference, the Commission of Conservation, the provincial authorities in the province of British Columbia, the Public Utility Commissioner of the province of Manitoba and the Nova Scotia Water Power Commission. Furthermore, the writer has, since last December, enjoyed the privilege of acting as secretary of the Honorary Advisory Council for Scientific and Industrial Research.

Much substantial progress in our regular work has been achieved, and evidences of very satisfactory results along many new lines can be recorded.
REPORT OF THE CHIEF DRAUGHTSMAN.


DRAUGHTING ROOM.

This work consists of the compilation of original plans, maps and diagrams to illustrate the reports of the field engineers; the preparation of plans, maps and diagrams accompanying the printed reports of the branch. Proofs of all plans are read here, and instructions as to their photographic reproduction and details of lithography given. Sixteen plans were reproduced during the year. In addition to the above, many small sketches were prepared to accompany memoranda and reports of the different members of the staff.

Filing of Official Plans.—The filing system described in the 1914 report has given entire satisfaction. There are now sixteen hundred and fifty plans filed for official record and future use.

A list of plans and maps prepared for publication during the year is appended hereto.

PUBLICATION AND DISTRIBUTION OF REPORTS.

The work under this heading divides itself into three parts; first, issuing of reports embodying the results of investigations of the various members of the staff; second, the distribution of the same and third, the preparation of press bulletins.

The following table gives details regarding the number and size of the publications issued during the year:

PUBLICATIONS ISSUED FOR FISCAL YEAR ENDING MARCH 31, 1917.

<table>
<thead>
<tr>
<th>Publications</th>
<th>Water Resources Paper No.</th>
<th>Number of Pages</th>
<th>Number of Copies</th>
<th>Number of Illustrations</th>
<th>Number of Plans and Maps, Photoliths.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manitoba Hydrometric Survey for the Calendar Years 1912-14</td>
<td>4</td>
<td>237</td>
<td>2,500</td>
<td>27</td>
<td>9</td>
</tr>
<tr>
<td>Canadian Hydraulic Power Development and Electric Power in Canadian Industry, by Charles H. Mitchell, C.E.</td>
<td>17</td>
<td>56</td>
<td>1,000</td>
<td>28</td>
<td></td>
</tr>
<tr>
<td>British Columbia Hydrometric Survey for the Calendar Year 1915</td>
<td>18</td>
<td>446</td>
<td>2,500</td>
<td>19</td>
<td>1</td>
</tr>
<tr>
<td>Manitoba Hydrometric Survey for the Calendar Year 1915</td>
<td>19</td>
<td>278</td>
<td>2,500</td>
<td>23</td>
<td>4</td>
</tr>
<tr>
<td>Dominion Water Power Regulations with explanation</td>
<td>72</td>
<td>300</td>
<td>7</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Dominion Water Power Branch Annual Report for the Fiscal Year ending March 31, 1915</td>
<td>228</td>
<td>2,500</td>
<td>74</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>1,367</td>
<td></td>
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</tbody>
</table>

During the year standards were adopted covering the size of type, style and arrangement. These standards have worked out very satisfactorily and have resulted
in more compact reports, and at a considerably less cost. A complete specification, covering the publication of Water Power Branch reports, has been based on the above. It is proposed to have this specification printed, and copies furnished the printers as a guide for future publications.


Appended hereto is a classified list of the reports of the branch.

\textit{Distribution.}—The demand for the reports of this branch has increased to such an extent that great care has to be exercised in their distribution to avoid waste. During the year the distribution list has been revised twice, and now contains about 1,600 names.

During the year 7311 reports were distributed.

\textbf{PHOTOSTAT ROOM.}

The photostat work executed by the branch shows an increase as compared with previous years; this increase is general and is merely due to the efficiency of our present apparatus and to the extent that photographic reproductions have been required for the illustration of the branch reports.

During the year special work has been carried on for the Imperial Munitions Board and the Wireless Branch of the Naval Service Department.

As in previous years, the branch has continued the practice of furnishing lantern slides of typical water-power developments and undeveloped water-powers throughout Canada to the Bureau of Commercial Economics, Washington, D.C., for a series of lectures in the United States on Canada's natural resources.

\textbf{SPECIAL WORK.}

Following instructions of August 31, 1917, regarding suitable motion picture films of the water-powers tributary to Montreal, Winnipeg, Calgary, and Vancouver, and also the system of the Ontario Hydro-Electric Power Commission, the writer personally supervised the work of the motion picture operator in the Montreal district and arranged the completion of all the scenarios.

As the field work for filming the Winnipeg, Calgary, Vancouver, and Hydro-Electric system situations was undertaken simultaneously with that for Montreal, it was not possible for the various engineers to profit by the experience gained in each case. Otherwise, much more satisfactory scenarios would have been secured. In case similar work is undertaken again, I would strongly recommend that it be undertaken in a progressive way, that is to say, one situation should be fairly well completed at a time, not only as to field work, but as to the developing and assembling of the negative.

One of the most difficult features of an industrial or educative film of this type is the prologue or introduction, especially where it is necessary to indicate clearly the location of the various power developments and sites with respect to a particular commercial centre. After much experimenting I have succeeded in developing an animated map to indicate such information. This feature of our films is exceedingly interesting, and has received much favourable comment.
SESSIONAL PAPER No. 25

In a general way the photographic work taken by the operators in the field has been fairly satisfactory, although much improvement could have been realized had the work been undertaken under the supervision of one engineer, and in a progressive way as stated above.

A detail statement of the scenarios is attached.

LIST OF MAPS AND PLANS PREPARED FOR PUBLICATION DURING THE PAST YEAR.

<table>
<thead>
<tr>
<th>Title</th>
<th>Accompanying</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plan of possible power layouts at Grand Rapids, Saskatchewan river.</td>
<td>Annual Report for 1916.</td>
</tr>
<tr>
<td>Map of Alberta and Saskatchewan showing Water Power and Storage</td>
<td>&quot;</td>
</tr>
<tr>
<td>Map showing Drainage Basin of the Peace river above Vermillion</td>
<td>&quot;</td>
</tr>
<tr>
<td>Chutes.</td>
<td>&quot;</td>
</tr>
<tr>
<td>Plan showing Peace river between Peace River Crossing and Vermillion</td>
<td>&quot;</td>
</tr>
<tr>
<td>Chutes.</td>
<td>&quot;</td>
</tr>
<tr>
<td>Sketch of possible power site on Peace river above Vermillion</td>
<td>&quot;</td>
</tr>
<tr>
<td>Chutes.</td>
<td>&quot;</td>
</tr>
<tr>
<td>Plan of Vermillion Chutes power site on Peace river.</td>
<td>&quot;</td>
</tr>
<tr>
<td>Topographic Sheet No. 1. Bow Falls Power site on Bow river at Banff.</td>
<td>&quot;</td>
</tr>
<tr>
<td>Topographic Sheet No. 2. Bow Falls Power site on Bow river at Banff.</td>
<td>&quot;</td>
</tr>
<tr>
<td>Map of Nova Scotia showing progress of stream measurements and</td>
<td>&quot;</td>
</tr>
<tr>
<td>power investigations during 1914-15, by K. H. Smith, resident</td>
<td>&quot;</td>
</tr>
<tr>
<td>engineer.</td>
<td>&quot;</td>
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<tr>
<td>Carrot River Reclamation Project. Plan showing approximate</td>
<td>&quot;</td>
</tr>
<tr>
<td>boundary of area requiring drainage.</td>
<td>&quot;</td>
</tr>
<tr>
<td>Carrot River Reclamation Project. Profile along the south bank of</td>
<td>&quot;</td>
</tr>
<tr>
<td>the Saskatchewan river from Sipanok channel to mouth of Carrot</td>
<td>&quot;</td>
</tr>
<tr>
<td>river.</td>
<td>&quot;</td>
</tr>
<tr>
<td>Carrot River Reclamation Project. Profile along second meridian</td>
<td>&quot;</td>
</tr>
<tr>
<td>from Carrot river to Saskatchewan river and North bank of Carrot</td>
<td>&quot;</td>
</tr>
<tr>
<td>river from mouth to Sipanok channel.</td>
<td>&quot;</td>
</tr>
<tr>
<td>Lowering of Lake Winnipegosis. Plan showing Lake Winnipegosis.</td>
<td>&quot;</td>
</tr>
<tr>
<td>Lowering of Lake Winnipegosis. Topographic sheet of situation</td>
<td>&quot;</td>
</tr>
<tr>
<td>Plan of Spence Lake Route Drainage Canal-Lake Winnipegosis-Lake</td>
<td>&quot;</td>
</tr>
<tr>
<td>Manitoba.</td>
<td>&quot;</td>
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<tr>
<td>Plan showing areas in which electric current is now supplied by</td>
<td>&quot;</td>
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<tr>
<td>the Winnipeg Municipal Light and Power Department and the Winnipeg</td>
<td>&quot;</td>
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<tr>
<td>Electric Railway Company.</td>
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<tr>
<td>Plan of Greater Winnipeg Water District.</td>
<td>&quot;</td>
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<tr>
<td>Plan of Winnipeg Electric Railway System.</td>
<td>&quot;</td>
</tr>
<tr>
<td>Lowering of Lake Winnipegosis. Topographic sheet of situation</td>
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<td>of Spence Lake Route Drainage Canal-Lake Winnipegosis-Lake</td>
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<td>Manitoba.</td>
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<tr>
<td>Lowering of Lake Winnipegosis. Profile Spence Lake Route Drainage</td>
<td>&quot;</td>
</tr>
<tr>
<td>Canal-Lake Winnipegosis-Lake Manitoba.</td>
<td>&quot;</td>
</tr>
<tr>
<td>McLaren Reclamation Tract, Province of Manitoba.</td>
<td>&quot;</td>
</tr>
<tr>
<td>Map of Southern British Columbia showing Stream Measurement Stations</td>
<td>Water Resources Paper No. 18.</td>
</tr>
<tr>
<td>of the British Columbia Hydrometric Survey for the year 1915.</td>
<td>19.</td>
</tr>
<tr>
<td>Map of Manitoba, showing Water Power and Storage Investigations</td>
<td>20.</td>
</tr>
<tr>
<td>of the Manitoba Hydrometric Survey for the year 1915.</td>
<td>20.</td>
</tr>
<tr>
<td>Sketch of North American Continent showing the position of</td>
<td>20.</td>
</tr>
<tr>
<td>Winnipeg geographically and as a railroad centre.</td>
<td>20.</td>
</tr>
<tr>
<td>Plan showing areas in which electric current is now supplied by</td>
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<tr>
<td>Plan of the Winnipeg Electric Railway System.</td>
<td>20.</td>
</tr>
<tr>
<td>Plan showing the situation of Kenora with respect to Winnipeg,</td>
<td>20.</td>
</tr>
<tr>
<td>Fort William and Duluth.</td>
<td>20.</td>
</tr>
</tbody>
</table>
CLASSIFIED LISTS OF REPORTS.

The Reports published by the Dominion Water Power Branch, with the exception of the Annual Reports, have been called Water Resources Papers, and have been numbered 1, 2, etc.

Annual Reports previous to 1913 are included with the Annual Report of the Department of the Interior, and can be secured from the Secretary of the Department.


Annual Report for 1913-14, published 1915.


Water Resources Paper No. 2.—Report of Bow River Power and Storage Investigations (Bow river west of Calgary), by M. C. Hendry, Chief Engineer in charge of surveys. Published 1914.


Water Resources Paper No. 4.—Report of the Manitoba Hydrometric Survey to end of year 1914, by M. C. Hendry, Chief Engineer. Published 1916.


Water Resources Paper No. 12.—Report on Small Water Powers in Western Canada, and discussion of sources of power for the Farm, by A. M. Beale. Published 1915.


MOTION PICTURES—WATER POWERS OF CANADA.

Scenario No. 1.—Tributary to Vancouver, B.C., two reels 1,702 feet, requires thirty minutes to screen.

" No. 2.—Bow River, Alberta, one reel 1,085 feet, requires fifteen minutes to screen.
SESSIONAL PAPER No. 25

MOTION PICTURES—WATER POWERS OF CANADA.—Continued.

Scenario No. 3.—Winnipeg River, Province of Manitoba, two reels 1,579 feet, requires thirty minutes to screen.

No. 4.—Hydro-Electric Power System in Ontario, incomplete.

No. 5.—Tributary to the City of Montreal, Quebec, three reels 2,530 feet, requires forty minutes to screen.

SCENARIO No. 1.

WATER-POWERS OF CANADA TRIBUTARY TO VANCITY, B.C.

Produced under the direction of the Dominion Water Power Branch, Department of the Interior, for the Department of Trade and Commerce.

Prologue.

Title.—"To gather the streams from waste and to draw from them energy, labour without brains, and so to save mankind from toil that it can be spared, is to supply what, next to intellect, is the very foundation of all our achievements and all our welfare."—Justice Holmes.

Title.—Vancouver, the largest Canadian port on the Pacific Coast, has within reasonable distance undeveloped water-power aggregating 750,000 horse-power.

Scene.—Government engineers making a discharge measurement at Campbell river gauging station.

VANCOUVER POWER COMPANY.

Lake Coquitlam.

Scenario No. 1.—Schuyler Falls at the head waters of Coquitlam Lake.

2.—Coquitlam Lake.

3.—The main storage of the Coquitlam-Buntzen Development.

4.—Location 503 feet above sea level.

5.—The hydraulic fill dam at the outlet of Coquitlam Lake, the largest of its kind in Canada.

6.—During construction and when completed.

7.—The stored water entering the 2½ mile rock tunnel from Lake Coquitlam and discharging from tunnel into Lake Buntzen at an elevation of 400 feet above sea level.

Lake Buntzen.

Scenario No. 1.—Lake Buntzen.

2.—Concrete dam and control gates with steel penstocks leading to Power-house No. 1.

3.—Intake control house and penstocks leading to Power-house No. 2

Power-houses Numbers 1 and 2.

Scenario No. 1.—Power-house No. 1, left.

2.—Power-house No. 2, right.

3.—Power-house No. 1 from the sea, housing 45,000 horse-power.

4.—Power-house No. 2 from the sea, housing 40,000 horse-power.

5.—High tension transformers.

6.—Hydro-electric generators, 12,500 horse-power units.

7.—High tension switch room.

Transmission Lines.

Scene.—60,000-volt transmission lines leading to Vancouver sub-station, showing transmission line crossing Burrard Inlet at Barnet, span 2,843 feet. Height of receiving tower, 132 feet.

Title.—Vancouver also receives power from the Western Canada Power Company plant on the Stave River generating (October, 1916) 37,500 horse-power.

WESTERN CANADA POWER COMPANY.

Scenario No. 1.—Birdseye view of existing and proposed development on Stave River, total capacity 100,000 horse-power.

2.—Main storage Stave Lake.

3.—Concrete dam at Stave Falls showing control gate.

4.—Power-house.

5.—Second half in course of construction. (August, 1916.) Head, 120 feet.

6.—Switch gallery and exciter units.

7.—Hydro-electric generators, 12,500 horse-power.

8.—60,000 volt transmission line leading to Vancouver.

9.—Site of proposed additional 50,000 horse-power development on Stave River, two miles below existing plant.
MOTION PICTURES—WATER POWERS OF CANADA.—Continued.

APPLICATION OF HYDRO-ELECTRIC POWER IN THE FRASER VALLEY DISTRICTS.

Scene No. 1.—Cloverdale sub-station of the British Columbia Electric Railway Company distributing energy to the valley.

2.—Loading and hauling logs to mill.

3.—An electrically operated lumber mill at White Rock.

Electricity on the farm, Fraser Valley.

Scene No. 1.—Milling by electricity.

2.—Transferring milk to dairy.

3.—Chickens hatched by electricity.

4.—British Columbia Electric Railway Company's express milk train to Vancouver.

5.—Milk train on way to Vancouver crossing Pitt River bridge.

Vedder Mountain Sub-station of the British Columbia Electric Railway Company feeding the eastern end of the Fraser Valley.

Scene No. 1.—Vedder Mountain Sub-station.

2.—Electric train leaving Chilliwack.

3.—Eastern Terminal of the Fraser Valley line of the British Columbia Electric Railway Company.

4.—Train crossing Fraser River bridge at City of New Westminster, thirteen miles from Vancouver.

CITY OF NEW WESTMINSTER.

Scene No. 1.—British Columbia electric depot at New Westminster.

2.—Street scenes in New Westminster and a panoramic view of the city.

CITY OF VANCOUVER.

Scene No. 1.—The British Columbia Electric Railway Company's head office and depot at Vancouver.

2.—Street scenes of Granville and Hastings streets.

3.—Canadian Pacific Terminal and Water Front.

4.—Grand Trunk Pacific ss. Prince Rupert returning from Alaska.

5.—Panoramic view of the city taken in North Vancouver and scene of Vancouver at night.

CONCLUSION.

"Water-power has played a most important role in the industrial development of Canada. No country is more fortunate in the extent and location of its 'white coal.' Practically every commercial 'centre has abundance of water-power available, not only for present needs, but for all anticipated requirements."

DOMINION OF CANADA.

(Coat of Arms.)

SCENARIO No. 2.

WATER-POWERS OF CANADA, BOW RIVER, ALBERTA.

Produced under the direction of the Dominion Water Power Branch, Department of the Interior, for the Department of Trade and Commerce.

Prologue.

Title.—"To gather the streams from waste and to draw from them energy, labour without brains, and so to save mankind from toil that it can be spared, is to supply what, next to intellect, is the very foundation of all our achievements and all our welfare."

—Justice Holmes.

Title.—The Bow River rises in the Rocky Mountains National Park of Canada, flows through the foothills out on the Alberta prairies where its waters irrigate vast tracts. Government power surveys show that, with storage regulations, over 60,000 commercial horse-power can be developed at six sites on the Bow River in the foothills within fifty miles of Calgary.

SOURCES OF BOW RIVER.

Scene No. 1.—Bow Lake with the snow clad peaks and glaciers of the Rockies is the source of the Bow River.

2.—Hector Lake.

3.—Lake Louise and the Lakes in the Clouds "typical" feeders of Bow River.

4.—Banff, Alberta, and Mount Rundle.

5.—Lake Minnewanka. The first Bow River storage reservoir to be constructed. Capacity, 44,700 acre feet.

6.—Minnewanka Storage Dam.

7.—Bow Falls, Banff. A beauty spot on the Bow River in the Rocky Mountains National Park.
SESSIONAL PAPER No. 25

MOTION PICTURES—WATER POWERS OF CANADA.—Continued.

CALGARY POWER COMPANY.

Title.—Two of the six power sites on the Bow River are developed. The first at Horseshoe Falls where the Calgary Power Company has (August, 1916), 19,500 horse-power installed.

Scene.—Horseshoe Falls Development.

Title.—The second development is at Kananaskis Falls where the Calgary Power Company has (August, 1916), 11,600 horse-power installed.

Scene.—Kananaskis Falls Development.

CITY OF CALGARY, ALBERTA.

Title.—Calgary, Alberta. The City of Calgary, Alberta, enjoys great advantages from the available water-power.

Scene.—Views of the City of Calgary, Alberta.

CONCLUSION.

Water-power has played a most important role in the industrial development of Canada. No country is more fortunate in the extent and location of its ‘white coal.’ Practically every commercial centre has abundance of water-power available, not only for present needs, but for all anticipated requirements.

DOMINION OF CANADA.

( Coat of Arms.)

SCENARIO No. 3.

WATER-POWERS OF CANADA, WINNIPEG RIVER, PROVINCE OF MANITOBA.

Produced under the direction of the Dominion Water Power Branch, Department of the Interior, for the Department of Trade and Commerce.

Prologue.

Title.—“To gather the streams from waste and to draw from them energy, labour without brains, and so to save mankind from toil that it can be spared, is to supply what, next to intellect, is the very foundation of all our achievements and all our welfare.”

—Justice Holmes.

Title.—In Manitoba the Winnipeg river falls 270 feet, which government surveys show can be concentrated for power at eight sites, all within 75 miles of Winnipeg, with total capacity over 420,000 24-hour horse-power.

WINNIPEG ELECTRIC RAILWAY COMPANY.

Title.—Two of the eight power sites are developed—The first by the Winnipeg Electric Railway Company transmitting 30,000 horse-power to Winnipeg.

Scene.—Winnipeg Electric Railway Company’s Development on the Pinawa Channel on Winnipeg River.

WINNIPEG MUNICIPAL PLANT.

Title.—The second developed site is the municipal plant of Winnipeg with an ultimate capacity of 100,000 horse-power now (June, 1916), transmitting 25,000 horse-power, 75 miles for use around Greater Winnipeg.

Scene.—City of Winnipeg power development at Point du Bois falls on the Winnipeg river.

UNDEVELOPED WATER-POWERS.

Title.—The six undeveloped sites are all under Dominion Government control. Three are on the upper stretches of the river.

Slave Falls Site.

Scene No. 1.—Slave Falls, 44,000 horse-power.

" 2.—Model of proposed development at Slave Falls.

Government Gauging Station.

Title.—Immediately above Slave Falls is the Government gauging station where the flow of the river is measured.

Scene.—Engineer in the act of taking a meter measurement.

Title.—The second and third undeveloped sites are at Upper and Lower Seven Sisters Falls. Under regulated flow conditions 68,000 horse-power, can be realized.
MOTION PICTURES—WATER POWERS OF CANADA.—Continued.

Upper Seven Sisters Site.

Scene No. 1.—Upper Seven Sisters Falls, 36,000 horse-power.
  2.—Model of proposed development at Upper Seven Sisters Falls.

Lower Seven Sisters Site.

Scene No. 1.—Lower Seven Sisters Falls, 38,000 horse-power.
  2.—Model of proposed development at Lower Seven Sisters Falls.

Title.—The fourth, fifth and sixth undeveloped sites are on the lower stretch of the river between Lac du Bonnet and Lake Winnipeg.

McArthur Falls Site.

Scene No. 1.—McArthur Falls, 31,000 horse-power.
  2.—Model of proposed development at McArthur Falls.

Du Bonnet Falls Site.

Title.—The Du Bonnet Falls site is the largest on the river, 96,000 24-hour horse-power.

Scene No. 1.—Du Bonnet Falls.
  2.—Model of proposed development at Du Bonnet Falls.

Pine Falls Site.

Title.—Pine Falls site has direct water transportation facilities on Lake Winnipeg and is particularly well adapted for pulp and paper manufacturing.

Scene No. 1.—Pine Falls, 83,000 horse-power.
  2.—Model of proposed development at Pine Falls.*

City of Winnipeg.

Title.—Few cities enjoy greater advantages from water-power than Winnipeg. Rates for light, heat and power are exceptionally low. There is sufficient power available for 3,000,000 people.

Scene No. 1.—Winnipeg receiving station.
  2.—Canadian Pacific Railway Hotel and Terminal.
  3.—Grand Trunk Pacific Railway Hotel. The Fort Garry. Old Fort Garry in foreground.
  4.—Canadian Northern and Grand Trunk Pacific Railway Union Station.
  5.—Winnipeg, the gateway to the Canadian prairies.
  6.—Main street, Winnipeg, at night.

Conclusion.

Water-power has played a most important role in the industrial development of Canada. No country is more fortunate in the extent and location of its “white coal.” Practically every commercial centre has abundance of water-power available, not only for present needs but for all anticipated requirements.

Dominion of Canada.

(Coat of Arms.)

Scenario No. 5.

Water Powers of Canada Tributary to Montreal, Quebec.

Produced under the direction of the Dominion Water Power Branch, Department of the Interior, for the Department of Trade and Commerce.

Prologue.

Title.—"To gather the streams from waste and to draw from them energy, labour without brains, and so to save mankind from toil that it can be spared, is to supply what, next to intellect, is the very foundation of all our achievements and all our welfare."
—Justice Holmes.

Title.—Montreal, the commercial metropolis of Canada derives its power from seven outlying hydro-electric developments with a total capacity of 500,000 horse-power of which there is transmitted for use within Montreal (August, 1916), over 125,000 horse-power.

Montreal Light, Heat and Power Company.

Richelieu River Development.

Title.—The Richelieu River Development at Chambly commenced operation in 1889, under 33-foot head. The present output (August, 1916), is 20,000 horse-power.

Scene No. 1.—Dam and power-house.
  2.—Generator floor.

Title.—Four of the developments are in the rapids of the St. Lawrence river, each using but a small portion of the river flow.
SESSIONAL PAPER No. 25

MOTION PICTURES—WATER POWERS OF CANADA.—Continued.

Lachine Rapids Development.

Title.—The Lachine Rapids Development commenced operation in 1895 under a head of 15 feet. The present output (August, 1916), is 14,000 horse-power.

Scene No. 1.—Intake to power canal and power-house.

" 2.—Lachine Rapids.

" 3.—A 1,500 horse-power generator direct connected to six low head water wheels.

Title.—The Soulanges, Cedars Rapids and St. Timothee Developments are close together.

Scene.—Panoramic view showing Soulanges, Cedars Rapids and St. Timothee Developments.

Soulanges Development.

Title.—The Soulanges Development under a head of 50 feet commenced operation in 1909. The present output (August, 1916), is 15,000 horse-power.

Scene No. 1.—Intake to power canal.

" 2.—Power-house.

" 3.—Generator floor.

Cedars Rapids Development.

Title.—The Cedars Rapids Development commenced operation in 1916 under a head of 30 feet. The present output (August, 1916), is 260,000 horse-power. The ultimate development will be 290,000 horse-power.

Scene No. 1.—Intake to Power Canal.

" 2.—Gates and racks.

" 3.—Generator floor, nine 12,500 horse-power generators.

" 4.—Low tension switchboard which receives power from generators and distributes to transformer station.

" 5.—Transformer station, where power is stepped up to high voltage for transmission purposes.

" 6.—Oil switches.

" 7.—High tension transformers stepping the voltage from 6,600 volts to 120,000 volts.

" 8.—High tension aluminium bus bars from which transmission lines are supplied with power at 120,000 volts.

" 9.—Transmission lines to Montreal.

" 10.—Storage battery room where power is constantly stored for emergency operation of oil switches, turbine governors and for field excitation.

Title.—Cedars Development, Rapids King shooting Cedars Rapids, St. Lawrence river—St. Timothee Development across the river.

Scene.—Panoramic view.

CANADIAN LIGHT AND POWER COMPANY.

St. Timothee Development.

Title.—The St. Timothee Development commenced operation in 1911 under 50-foot head. The present output (August, 1916), is 30,000 horse-power.

Scene No. 1.—Intake to Power-house and power canal.

" 2.—Generator floor—four 7,500 horse-power machines.

Title.—Two of the developments are on the St. Maurice river about 100 miles from Montreal.

SHAWINIGAN WATER AND POWER COMPANY.

Shawenegan Falls Development.

Title.—The Shawenegan Falls Development consists of four separate plants operating under 145-foot head with present output (August, 1916), 200,000 horse-power, and ultimate output of 300,000 horse-power.

Title.—Much of this power is used locally for extensive electro-chemical industries, about 60,000 horse-power is (August, 1916), transmitted to Montreal.

Scene No. 1.—Dam and falls.

" 2.—Intake.

" 3.—Steel penstocks leading to power-house No. 2, 14 feet in diameter and incased in concrete.

" 4.—Turbine floor—20,000 horse-power turbines.

" 5.—Generator floor—20,000 horse-power units.

" 6.—Operating and distribution switchboard.

" 7.—110,000 volt transmission line leading to Montreal and district.

LAURENTIDE COMPANY.

Grand'Mère Development.

Title.—The Grand'Mère Water-power originally used for pulp and paper purposes has recently been developed electrically. Its present capacity is now (August, 1916), 120,000 horse-power, part of which is already being marketed.

25—viii—2
MOTION PICTURES—WATER POWERS OF CANADA—Concluded.

LAURENTIDE COMPANY—Con.

Grand'Mère Development.—Con.

Title.—Grand'Mère derives its name from a rock in the falls on the St. Maurice which bears a perfect profile of a grandmother's face.

Scene.—Rock.

Title.—To foster pride, loyalty and contentment among its several thousand employees the company has spent large sums in community enterprises, clubs, auditoriums, schools, homes and parks. All community and private property development conform to an elaborate town planning scheme.

Scene No. 1.—General offices of the company.

Title.—There is practically unlimited water-power available within transmission range of Montreal, especially in the rapids of the St. Lawrence, Ottawa and St. Maurice rivers and their important tributaries.

Scene.—Transmission lines entering Montreal.

Title.—St. Timothee Receiving Station.

Scene No. 1.—Exterior view of station.

Title.—Cedars Rapids Receiving Station.

Scene No. 1.—Exterior view of station.

Title.—Shawenegan Receiving Station.

Scene No. 1.—Exterior view of station.

Scene.—Central Station distributing 30,000 horse-power at Montreal.

Title.—Montreal, situated at the head of ocean going navigation and at the base of the Canadian Great Lakes Canal System, has excellent harbour facilities.

Scene No. 1.—Factories using over 12,000 horse-power (hydro-electric).

Title.—Montreal from the Mountain.

CONCLUSION.

Water-power has played a most important role in the industrial development of Canada. No country is more fortunate in the extent and location of its "white coal." Practically every commercial centre has abundant of water-power available, not only for the present needs but for all anticipated requirements.

DOMINION OF CANADA.

(Coat of Arms.)
No. 3.

REPORT OF THE ACCOUNTANT.

Percy Wilkinson.

ACCOUNTS.

The administration of the Dominion Water Power appropriation has been carried on in the same manner as in previous years, the year being divided into four periods of three months. Advances are made to each of the chief engineers in charge of field parties, upon their furnishing the office at Ottawa with a statement on a prescribed form, showing in detail for what purposes the advance is required. At the end of each period of three months, the accounts covering the expenditures of the period are prepared and submitted to the Ottawa office, together with the requisition for the further advance necessary to cover the expenditures of the succeeding period. Upon the receipt of these accounts in Ottawa, they are carefully checked and when considered to be in order, are submitted to the superintending accountant for final examination.

The following statement shows the number of accounts dealt with during the year, the total amount of such accounts and the number of cheques forwarded:

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of accounts dealt with</td>
<td>613</td>
</tr>
<tr>
<td>Amount of accounts</td>
<td>$142,545.40</td>
</tr>
<tr>
<td>Number of cheques forwarded</td>
<td>947</td>
</tr>
</tbody>
</table>

APPROPRIATIONS.

The sum of $164,000 was appropriated by Parliament to defray the costs of the administration of water-power regulation. The provincial legislatures of British Columbia and Nova Scotia continued to co-operate with us in a financial way, contributing approximately the same amounts respectively as last year, viz., five thousand and three thousand dollars, towards defraying the expenses in connection with administration and investigation in the provinces named.

STAFF.

Numerous changes have occurred in the personnel of the staff of the Branch during the fiscal year, including transfers from and to the branch and enlistments for service with the Overseas forces.

The following is a list of the names of members of the staff of the branch who enlisted during the fiscal year: H. Boyd; G. Foote; B. B. Hogarth; G. Milnes; C. E. Richardson; G. H. Wood.

Altogether, there are thirty-five members of the staff of this branch serving with the military forces.

Three members of the staff have given up their lives in the cause of the Empire, viz., Charles Penner Cotton, Walter Henry Bartlett and Eyre Morton Dann.
No. 4.

REPORT OF THE CHIEF HYDRAULIC ENGINEER, I. T. JOHNSTON, B.A.S.c., C.E. (Tor.), M. Can. Soc. of C.E.

HYDROMETRIC SURVEYS.

The regular stream measurement work has been continued in the province of British Columbia under Mr. R. G. Swan as chief engineer, and in Manitoba under Mr. M. C. Hendry as chief engineer. The co-operative arrangement made with the Nova Scotia \textsuperscript{1} water Power Commission in 1915 has been continued with most gratifying results, a very thorough power and storage investigation supplemented by extensive stream measurement studies being actively prosecuted in that province with mutually satisfactory results to the Provincial and Federal Governments. Owing to the very heavy reductions in staff, as a result of enlistments for overseas service, there has been a necessary curtailment of field operations; however, it is considered that the most pressing records of stream flow are being secured.

BRITISH COLUMBIA HYDROMETRIC SURVEY.

The British Columbia Hydrometric Survey under Mr. R. G. Swan, has continued its work in co-operation with the Provincial Government along the lines outlined in previous reports. The necessity of practising the strictest economy in maintenance combined with the shortage of staff has prevented any extension of the field studies. The new work established in the Fort George district was continued as energetically as the conditions would permit. The work in this district is considered to be of exceptional importance to the future development of this section of the province, the opening up of which has been hastened by recent railway construction.

The organization has worked in co-operation with the British Columbia Lands Branch and with the Dominion Parks Branch, with mutually satisfactory results. Mr. Swan's organization has enabled him to prepare and submit numerous engineering reports on water supply, irrigation, drainage and foreshore, with a minimum of expenditure in the field. The co-operation with the Provincial Water Rights Branch, both in work and finance, which has been in operation since 1914 has been continued throughout the year with marked success. Very complete water supply data have been furnished to the Commission of Conservation.

Attention might be called to the efficient organization of the work set out in Mr. Swan's complete report (No. 5) attached hereunder.

The stream measurement report for the year 1915 has been published as "Water Resources Paper No. 18". Material for the report covering the year 1916 is now prepared and will be submitted to the King's Printer at an early date. It will be published as "Water Resources Paper No. 21". These reports are available for free distribution to all interested in problems affected by the run-off of the rivers in British Columbia.

MANITOBA HYDROMETRIC SURVEY.

The regular stream measurement work in the province of Manitoba has been continued throughout the year under Mr. M. C. Hendry. Mr. Hendry's complete report (No. 6) is attached hereunder, and covers fully the extent and scope of the work carried on by the Manitoba Hydrometric Survey.
SESSIONAL PAPER No. 25

As in the case of British Columbia it has here been necessary to confine the work to the stations already established, owing to enlistments from the staff for overseas service. Every effort has been directed towards maintaining stations at the points considered to be of most urgent primary importance.

Reconnaissance studies of the rivers on the eastern shore of lake Winnipeg and in the northern section of the province have been continued. Every effort is being directed to secure as reliable data as possible concerning the run-off of the power rivers in the unsettled portions of the province, in order to satisfactorily advise on their future development, a development upon which the industrial future of this section of the province will very largely depend. To this end, special attention was given to the Nelson river at Manitou rapids and to the Saskatchewan river at Grand rapids.

The run-off studies carried on at the outlets of the Lake of the Woods in the interests of the Winnipeg River powers and in connection with the Lake of the Woods reference before the International Joint Commission, were continued throughout the year. The flood conditions obtaining on the lake throughout June and July and the necessity of securing very complete information in connection with the same made a heavy demand upon the Winnipeg office staff.

The work of the survey has been carried on with the greatest economy throughout the entire season and the results obtained speak well for the efficiency of the organization and for the efforts made by Mr. Hendry’s greatly reduced staff.

The first Stream Measurement Report of the Survey covering the stream measurement work complete to the end of 1914 has been published as “Water Resources Paper No. 4”. A second report covering the data for the year 1915 is being published as “Water Resources Paper No. 19”, and will be available for distribution at an early date. Material for the report covering the year 1916 is now prepared and will be submitted to the King’s Printer within the next few weeks. It will be published as “Water Resources Paper No. 22”. These reports are available for free distribution to all interested in problems affected by the run-off of the rivers in the province of Manitoba.

The Manitoba Hydrometric Survey has co-operated closely with Mr. T. H. Dunn, reclamation engineer, in his drainage investigations throughout the province.

POWER AND STORAGE SURVEYS.

Investigations into the power and storage resources of Alberta and Saskatchewan were continued during the past season by a reconnaissance party under Mr. C. H. Attwood as chief engineer. It has not, however, been possible to continue the work in these provinces as aggressively as in the past in view of the necessity for economy and owing to shortage of field staff.

MANITOBA.

Few additional power investigations were made throughout the province of Manitoba during the past season. The work was confined to a continuation of studies commenced in previous years. A close supervision was maintained over the Winnipeg River situation and many valuable records of high water and general river flow conditions were secured during the flood period. The exceptional run-off during 1916, supplied records of higher discharge than had previously been secured by the organization. These records form a most valuable addition to the data now available in the department for the consideration of the power reach of the Winnipeg river, and of the power developments, existing and prospective, connected therewith.

Close touch was kept with the discharge of the Saskatchewan river in connection with the proposed power development at Grand rapids, and records of the discharge during the higher stages were secured both at Pas and at the head of the rapids. In
the interests of the future development of the Nelson river, as complete records as possible were secured of the higher stages at Manitou rapids.

Storage studies on the Lake of the Woods and Lac Seul, in connection with possible reservoirs throughout the province of Manitoba, were continued. Reports were completed covering the reconnaissance surveys made during the preceding years on the Grass and Burutwood rivers in the northern portion of the province. These rivers are now readily accessible as a result of the opening up of the country by the Hudson Bay Railway. No new reconnaissance survey work was undertaken.

ALBERTA AND SASKATCHEWAN.

The power and storage investigations in the province of Saskatchewan and Alberta have been continued under Mr. C. H. Attwood. Mr. Attwood's full report (No. 7) is appended, and concisely covers the scope of the work accomplished during the season. With the limited funds available a very satisfactory season's work was accomplished. The principal situations covered and work accomplished in the field were as follows:

1. The establishment of permanent bench-marks at the power sites on the Bow river.
2. Investigation of the power possibilities of Pine creek in section 15, township 65, range 21, west of the 4th meridian.
4. A reconnaissance survey of the power possibilities of the Churchill river at Kettle falls and Bloodstone falls in Saskatchewan and Manitoba.
5. A power survey of Crownsnest falls on the Crownsnest river about two miles west of Lundbreck, Alberta.
6. An inspection of the power possibilities of Frog creek in fractional section 17, township 56, range 3, west of the fourth meridian.

Of the above investigations, those of the Crowsnest, Sturgeon-weir, and Churchill rivers were the most extensive. Work on the Churchill river was only discontinued in sufficient time to enable Mr. Attwood's party to withdraw before the setting in of winter.

A special demand has arisen for power data in the district of the Churchill and Sturgeon-weir rivers as a result of the mining activities to the northwest of Pâg, Manitoba. The data secured by Mr. Attwood has given the department a good grasp of the general power situation in the district in closest connection with the mining area.

All the investigations made were of a reconnaissance nature with a very light field party and were carried to completion with the utmost economy.

The general administrative policy of the branch has been continued. Engineering inspections have been made of all power projects and applications, in accordance with the usual practice, and preliminary to further action by the department. Every assistance has been supplied to applicants for water-power privileges, and particular attention has been given to the developers of small local water-powers. Practical advice and information secured first hand from a responsible departmental engineer is greatly appreciated by applicants for the smaller powers. The exact conditions governing the development in each case are supplied to the applicant and erroneous estimates of the power available are corrected. The policy is in brief, to encourage the development of desirable power undertakings and to discourage and prevent the development of wasteful and uneconomical projects.
RECOMMENDATIONS FOR FUTURE WORK.

During the continuance of war conditions it is not considered that an aggressive campaign of power investigation should be continued in the more remote districts. It is considered that attention should be confined to the problems pressing for immediate consideration. Looking forward, however, to the resumption of a more aggressive campaign, the following investigations are considered advisable:

1. The reconnaissance power survey of the English river which has been carried to Separation lake should be continued to the junction with the Winnipeg river, in order to close the gap which now exists in the plans and records covering the main branches of the Winnipeg River system.

2. The line of precise levels along the Winnipeg river which has been partially completed should be continued to cover the entire power reach in Manitoba.

3. Systematic investigation into the more northern rivers of the three Prairie Provinces should be continued. This work can be carried on very economically by reconnaissance investigation.

4. Arrangements should be made in the future for the systematic covering of all those sections and rivers in the more settled portions of the Prairie Provinces which have been omitted from the investigations to date.

NOVA SCOTIA POWER AND STORAGE INVESTIGATIONS.

The co-operative agreement between the Nova Scotia Power Commission and this department, looking to the investigation of the power resources of the province of Nova Scotia has been continued throughout the past season. The work is under the direction of Mr. K. H. Smith of this branch as resident engineer, and has been entirely satisfactory both to the commission and to this department.

Much more complete information relative to the power and storage situation in the province has been secured than had been considered possible with the limited funds and staff available. Mr. Smith's complete report (No. 8) is appended, and covers the outline of the work carried on throughout the season.

Power surveys and investigations have been carried out on the following streams: Bloody creek, Dartmouth lakes, East river Sheet harbour, Fall river, Gaspereaux river, Gold river, Indian and Northeast rivers, Kearney lakes, Lequille river, Liscomb river, Paradise river, Pennant river, Sackville river, West river, Sheet harbour, Profiles of the rivers investigated have been secured either by Mr. Smith's staff or from surveys made by private parties. The power studies have included surveys of all available storage reservoirs in the watersheds of the rivers investigated. The investigation in the field of each river taken in conjunction with the continuous stream run-off records being secured, gives a very complete index to its power potentials.

Regular stream measurement stations are established on the following rivers: Archibald brook; Bear river, East branch; East river Pictou, West branch; East river, Sheet harbour; Fall harbour; Fall river; Gaspereaux river; Gold river; Indian river; Lahave river (Bruhms bridge); Lahave river (Morgan's falls); Lequille river; Liscomb river; Liverpool river; Margaret river; Medway river; Musquodoboit river; Nictaux river; Northeast river; Paradise river; Philip river; Roseway river; Sackville river; Sissiboo river; Stewiacke river; St. Croix river; St. Mary river; Tusket river. In addition many additional miscellaneous measurements were made in the different localities.

A progress report was prepared for the Nova Scotia Water Power Commission covering in detail the entire hydrometric and water-power investigations in Nova Scotia up to September 30, 1916, the end of the provincial fiscal year. This report
RECLAMATION.

Mr. T. H. Dunn, C.E., O.I.S., has continued the reclamation investigations outlined in last year's annual report. His full report is attached hereunder (No. 9) and gives briefly the scope of his work and his conclusions.

The work in the Carrot River district was continued along lines followed in the previous year's investigations. The more detailed studies have shown that more extensive embanking than had previously been considered necessary will be required to carry out the proposed reclamation project. The project is, however, considered feasible and worthy of further investigation. Investigation was continued into the proposed lowering of lake Winnipegosis for the purpose of reclaiming the low lands lying along the western and northern shores. Reconnaissance survey of the lake shores indicated that less land would be benefitted by the lowering of the lake than had been generally assumed. The method of reclamation proposed is the lowering of the lake by means of a canal cut across Meadow portage to lake Manitoba. From an engineering standpoint, no difficulties will be experienced and the development of the reclamation project in conjunction with a power and navigation scheme is entirely feasible; such a development would make the reclamation project entirely sound from a financial standpoint. It is doubtful whether the reclamation project alone could be profitably proceeded with at the present time.

A considerable portion of Mr. Dunn's time was devoted to matters arising from the Lake of the Woods reference before the International Joint Commission. In conjunction with a reclamation engineer of the Ontario Government he has made all the investigations necessary for the Lake of the Woods Technical Board regarding the land phase of the reference. During the past season he has carried on an investigation on the ground into the high water conditions obtaining on the Lake of the Woods during June, July, and August of last season, and into the effects on the low lands bordering on the lake, particularly on the southwest shore. It is probable that Mr. Dunn's detail knowledge of this whole situation and his extensive knowledge with regard to the reclamation of the lands will be availed of by the Government continuously for some time, while the land phase of the Lake of the Woods reference is being dealt with.

No work was possible on the McLaren tract during the past season owing to the smallness of the staff available. It is considered that the field studies during the forthcoming season should include the continuation of this work. This could be done very economically by reconnaissance methods, and could be combined with certain supplementary power investigations necessary in the vicinity of Lac du Bonnet on the Winnipeg river, and with land flooding questions which must be dealt with on the river this season.

There has accumulated a great deal of Dominion land survey work necessary in connection with the allocating of land required by power companies for power site purposes, and for flooding purposes, as well as some important land matters difficult of settlement between the power companies and the department. It is proposed to have these matters handled by Mr. Dunn. It would be difficult for the department to secure a better qualified and more experienced engineer for the purpose.
Following the inspection of the power reach of the Saskatchewan river in the vicinity of Grand rapids made on the ground by the writer in company with Mr. Hendry, a definite decision was reached looking to the development of the power in harmony with the navigation and drainage interests involved. As a result, an agreement has been entered into between the department and Mr. D. B. McDonnell for the construction of a pulp and paper undertaking at the upper Grand Rapids site. General layout and construction plans covering the proposed development have been submitted to and approved by the department and it is understood that active construction operations will be commenced as soon as weather conditions permit access to the site. The present plans provide for the installation of three 7,000 horse-power units with provision for the installation of three additional units when market conditions demand. The head developed will average 55 feet and the headwaters will flood out Red Rock rapids about five miles above the power site. The working plans are being developed in harmony with the requirements of navigation as laid down by the Department of Public Works.

International Joint Commission.

It is probable that the International Joint Commission will at an early date report its findings on the "Lake of the Woods Reference". This question has been before the commission since 1912. The question has involved many conflicting interests of navigation, power fisheries and the flooding of lands and property around the lake borders. The use of the lake as a storage reservoir for the regulation of the run-off has been of vital interest to this department, in view of its effect on the power reach of the Winnipeg river in Manitoba. In consequence of this, very careful studies have been made by the field officers of this branch of the conditions on the lake and of those involved in the question of discharge from the lake. The data secured in connection with these power studies have been made available to the consulting engineers of the commission and additional data secured at their request whenever desired.

At different public hearings in connection with the reference, representations have been made by this branch in the interests of the powers on the river below, emphasizing the necessity of a substantial storage range on the lake, under domestic control. It is understood that no further public hearings are at present contemplated, and it is probable that the commission will make its recommendations at an early date.

Lake of the Woods Regulation.

Pending the adoption by the Canadian and United States Governments of such recommendations as may be made by the commission in respect to the reference, and with a view to the maintenance of better surface level conditions and the prevention, if possible, of future floods on the lake, an arrangement was made in September last between this office and the Department of Public Works of the province of Ontario whereby this branch should advise the Ontario authorities as to the operation of the Norman dam on the western outlet from the lake. This arrangement has necessitated this office and the Winnipeg office keeping in daily touch with the meteorological and run-off conditions throughout the watershed. A very complete system of securing and recording this data has been evolved, and the above offices, together with the office of the Provincial Department of Public Works, are in daily receipt of all data essential to an intelligent regulation of the lake. The Ontario authorities are advised from time to time by Mr. Hendry of the steps which, in the opinion of this branch, should be taken to forestall conditions of flood or low water. To date, this advisory co-oper-
ation in the regulation has worked out most satisfactorily and in spite of the exceptionally heavy precipitation occurring during the winter season, it is considered that the situation is well in hand to prevent the recurrence of such flood conditions as were experienced last season.

STAFF.

Upwards of thirty members of the field staff are at present on overseas military service. As a result, it has been necessary to materially limit the field investigations. That such excellent results in departmental work have been realized by the various field offices and organizations is very largely owing to the fact that the remaining members of the staff have cheerfully accepted and satisfactorily carried out the extra work devolving upon them.

No. 5.

REPORT OF THE CHIEF ENGINEER OF THE BRITISH COLUMBIA HYDROMETRIC SURVEY.


SCOPE OF WORK.

The work of collecting hydrometric data in the province of British Columbia has been carried on during 1916 under more or less adverse conditions. The absolute necessity of practising the strictest economy combined with the shortage of staff, has had the effect of confining the field of research, almost exclusively, to those streams upon which stations had already been established. By a careful planning of the staff's field work, it was, however, found possible to maintain most of the stations established in former years. Those streams upon which sufficient data for the requirements of the British Columbia Water Rights Branch had already been collected, were discontinued, as were also those established in connection with the proposed water supply for the town of Field, the scheme having been abandoned.

As a result of the co-operation between the Dominion Lands Branch and the Water Power Branch, investigations have been made and reports submitted on the following:

- Application of the Imperial Oil Company to construct a dam and pipe-line for a water supply in connection with their refinery.
- The claim of owners of lot 10, G. 2, tp. 11, E.C.M. to lot 242, G. 2, tp. 11, E.C.M.
- Application of J. C. Shields to purchase under irrigation conditions, certain lands in tps. 20 and 21, range 20, west of 6th meridian.
- Application of the city of Salmon Arm for the setting aside of certain lands in the drainage area of East Canoe creek, from which the city secures its water supply.
- Application of A. R. G. Goodwin to purchase under irrigation conditions lands in section 28, tp. 19, range 15, west 6th meridian.
- The scheme for co-operation with the Provincial Water Rights Branch, both in work and finance, inaugurated in 1914, has been continued throughout the year with marked success. Every effort has been made to assist the Water Rights Branch by establishing stations on streams where data were required in connection with their administration.

Owing to the shortage of staff, to which passing reference has already been made, it was found necessary to call the field engineers into the office to assist in the annual compilation of run-off data. This was regrettable, as at the time most of the gauging stations, particularly in the interior of the province, required almost constant attention, owing to the discharge relation being affected by ice conditions.
SESSIONAL PAPER No. 25

For the same reason it was found impossible to devote to the newly established Fort George district, the amount of attention it really required, the services of Mr. Elliott, the engineer of that district, being more urgently needed in the Nelson division.

ORGANIZATION.

The methods of collecting and compiling the data for publication in the Annual Stream Measurement Report were similar to those of previous years.

At the commencement of the year the staff consisted of the chief engineer, two division engineers, six assistant engineers, one accountant, two clerical assistants, and two stenographers.

For the first quarter of the year the organization was similar to that of 1915. In April, Mr. C. E. Richardson, the division engineer at Nelson, enlisted with the C.E.F., and Mr. H. O. Dempster the assistant engineer, resigned. Except for the temporary appointment of Mr. T. R. Patterson for the summer months, the engineers referred to were not replaced. Under the circumstances it was considered advisable to temporarily close the Nelson office. For the balance of the year the field work was directed from the Vancouver office, the routine work being placed in charge of G. K. Beeston who was formerly office engineer at Nelson, and was transferred to Vancouver.

The arrangement of the territory into districts, instituted in 1914 with a view to the economical visitation of streams, having been found quite satisfactory, no change has been made.

It is with deep regret that mention is made of the death, while on active service, of Mr. E. M. Dann and Mr. C. P. Cotton, members of this staff, whose work, of a high order, will be greatly missed by the survey.

COAST DIVISION.

The field work in the three districts of the Coast Division was in charge of Mr. C. E. Webb, B.A.Sc., and Mr. H. C. Hughes, B.Sc. Mr. Webb was in charge of the Vancouver Island District, Mr. Hughes in charge of the Lillooet District, and both engineers in charge of the Southern District at different periods.

List of Regular Gauging Stations, Southern District.

<table>
<thead>
<tr>
<th>Station Number</th>
<th>Stream</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1009</td>
<td>Belknap</td>
<td>Tp. 6, Rge. 7, W. 7, M.</td>
</tr>
<tr>
<td>1063</td>
<td>Belknap</td>
<td>Tp. 7, Rge. 7, W. 7, M.</td>
</tr>
<tr>
<td>1001</td>
<td>Bonolder</td>
<td>Tp. 3, Rge. 27, W. 6, M.</td>
</tr>
<tr>
<td>1021</td>
<td>Brandt</td>
<td>Tp. 7, Rge. 7, W. 7, M.</td>
</tr>
<tr>
<td>1023</td>
<td>Capilano</td>
<td>Near North Vancouver, Water District of Vancouver.</td>
</tr>
<tr>
<td>1004</td>
<td>Chilliwack</td>
<td>Tp. 29, E. C. M.</td>
</tr>
<tr>
<td>1005</td>
<td>Coquihalla</td>
<td>Tp. 5, Rge. 26, W. 6, M.</td>
</tr>
<tr>
<td>1006</td>
<td>Coquitlam</td>
<td>Tp. 39, W. C. M.</td>
</tr>
<tr>
<td>1062</td>
<td>Flume</td>
<td>Six miles from head of Burrard Inlet, Water District of Vancouver.</td>
</tr>
<tr>
<td>1007</td>
<td>Fraser</td>
<td>Tp. 5, Rge. 29, W. 6, M.</td>
</tr>
<tr>
<td>1064</td>
<td>Hixon</td>
<td>Tp. 6, Rge. 7, W. 7, M.</td>
</tr>
<tr>
<td>1084</td>
<td>Ioco No. 2</td>
<td>Burrard Inlet, Water District of Vancouver.</td>
</tr>
<tr>
<td>1087</td>
<td>Ioco No. 5</td>
<td>Burrard Inlet, Water District of Vancouver.</td>
</tr>
<tr>
<td>1010</td>
<td>Jones</td>
<td>Tp. 3, Rge. 27, W. 6, M.</td>
</tr>
<tr>
<td>1096</td>
<td>Lynn</td>
<td>Near North Vancouver, Water District of Vancouver.</td>
</tr>
<tr>
<td>1011</td>
<td>Maeldloet</td>
<td>Tp. 7, Rge. 6, W. 7, M.</td>
</tr>
<tr>
<td>1058</td>
<td>Nicoum</td>
<td>Tp. 4, Rge. 5, W. 6, M.</td>
</tr>
<tr>
<td>1013</td>
<td>Norton</td>
<td>Tp. 7, Rge. 7, W. 7, M.</td>
</tr>
<tr>
<td>1092</td>
<td>Seymour</td>
<td>Forty miles south from Hope, Water District of Ashcroft.</td>
</tr>
<tr>
<td>1035</td>
<td>Skaiget</td>
<td>Tp. 4, Rge. 4, W. 7, W.</td>
</tr>
<tr>
<td>1089</td>
<td>South Lillooet (Alouette)</td>
<td>Near Railway Belt Boundary, Water District of Ashcroft.</td>
</tr>
<tr>
<td>1056</td>
<td>Sumallo</td>
<td>Tp. 3, Rge. 24, W. 6, M., Water District of Ashcroft.</td>
</tr>
<tr>
<td>1057</td>
<td>Sumallo</td>
<td>Tp. 7, Rge. 7, W. 7, M.</td>
</tr>
<tr>
<td>1029</td>
<td>Young</td>
<td>Tp. 7, Rge. 7, W. 7, M.</td>
</tr>
</tbody>
</table>
List of Miscellaneous Gauging Stations, Southern District.

<table>
<thead>
<tr>
<th>Station Number</th>
<th>Stream.</th>
<th>Location.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1085</td>
<td>Loco No. 3</td>
<td>Burrard Inlet, Vancouver Water District.</td>
</tr>
<tr>
<td>1086</td>
<td>Loco No. 4</td>
<td>&quot; &quot;</td>
</tr>
</tbody>
</table>

The streams under observation in this district in 1915 were all maintained, with the exceptions of the Chehalis and Pitt rivers, the stations on which were discontinued early in the year.

The only place on the whole reach of the Chehalis river where the services of a gauge reader could be secured, was near the mouth, while the diversion for a power development would be at the outlet of Chehalis lake. When the British Columbia Electric Railway Company discontinued their surveys they also discontinued the gauge reading on their gauge at the outlet of the lake, and as their records were not continued for a sufficient length of time to establish the relation between the two gauges, we decided to discontinue observing the gauge which we had installed near the mouth.

Owing to the fact that no one resided in the vicinity of Silver Pitt river, the cost of obtaining records was out of proportion to the importance of the stream, and it was therefore considered advisable to discontinue the station until conditions became more favourable.

A Gurley recording gauge was installed on Jones creek, one of the most important undeveloped powers close to Vancouver. The Vancouver Power Company, which is interested in the flow of this stream, co-operated in the installation of the gauge by carrying out the work in connection with the intake, well and gauge house.

The light cable carrier, as worked out by Mr. Cline, in use on streams with widths up to 150 feet, has proved a great success, and during the year carriers of an improved design have been installed on Belknap, Capilano and Lynn creeks.

List of Regular Gauging Stations, Lillooet District.

<table>
<thead>
<tr>
<th>Station Number</th>
<th>Stream.</th>
<th>Location.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1065</td>
<td>Brandywine</td>
<td>Near Brew, 1 mile above mouth Water District of Vancouver.</td>
</tr>
<tr>
<td>1045</td>
<td>Bridge</td>
<td>Ten miles from Shalaith—Thirty miles above mouth Lillooet Water District.</td>
</tr>
<tr>
<td>1048</td>
<td>Cayuse</td>
<td>Near Lillooet. Above Seton Creek Lillooet Water District.</td>
</tr>
<tr>
<td>1024</td>
<td>Cheakamus</td>
<td>Near Cheekye, Vancouver Water District.</td>
</tr>
<tr>
<td>1088</td>
<td>Cheakamus</td>
<td>Near Watson, Vancouver Water District.</td>
</tr>
<tr>
<td>1074</td>
<td>Foster Bar</td>
<td>23 miles south of Lillooet—Lillooet Water District.</td>
</tr>
<tr>
<td>1047</td>
<td>Fountain</td>
<td>Near Lillooet, 1 mile above mouth Lillooet Water District.</td>
</tr>
<tr>
<td>1072</td>
<td>Fraser</td>
<td>At Lillooet, Lillooet Water District.</td>
</tr>
<tr>
<td>1035</td>
<td>Green</td>
<td>Near Pemberton—above Nairn Falls, New Westminster Water District.</td>
</tr>
<tr>
<td>1059</td>
<td>Lahnwissin</td>
<td>Sec. 30, Tp. 27, Rge. 17, W. 6 M.</td>
</tr>
<tr>
<td>1053</td>
<td>Lillooet</td>
<td>Near Pemberton, New Westminster Water District.</td>
</tr>
<tr>
<td>1073</td>
<td>Pavilion</td>
<td>Near Pavilion, Lillooet Water District.</td>
</tr>
<tr>
<td>1049</td>
<td>Seton</td>
<td>Near Lillooet—below Seton Lake, Lillooet Water District.</td>
</tr>
<tr>
<td>1044</td>
<td>Texas</td>
<td>14 miles below Lillooet, Lillooet Water District.</td>
</tr>
</tbody>
</table>

LIST OF MISCELLANEOUS GAUGING STATIONS, LILLOOET DISTRICT.

<table>
<thead>
<tr>
<th>Station Number</th>
<th>Location.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1083 Island Bar</td>
<td>10 miles below Lillooet, Lillooet Water District.</td>
</tr>
<tr>
<td>1043 Riley</td>
<td>9 miles below Lillooet, Lillooet Water District.</td>
</tr>
<tr>
<td>1075 Swartz</td>
<td>19 miles below Lillooet, Ashcroft Water District.</td>
</tr>
</tbody>
</table>
The study of stream flow data in the above district was commenced during the construction of the Pacific Great Eastern Railway between Vancouver and Lillooet, and gauge records at several stations were taken by employees of the company. Since the completion of the construction of this section of the railroad, some localities are practically uninhabited, and it therefore became very difficult to maintain these stations. Those on Soo and Sixmile rivers, which are more or less isolated have had to be discontinued during the year.

This is regrettable as both rivers, which are tributaries of Green river, are of importance, particularly Soo river, because the excellent undeveloped power site at Nairn falls, Green river, is dependent on Soo river for storage.

List of Regular Gauging Stations, Vancouver Island District.

<table>
<thead>
<tr>
<th>Station Number</th>
<th>Stream</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1062</td>
<td>Big Qualicum</td>
<td>½ mile above mouth, Nanaimo Water District.</td>
</tr>
<tr>
<td>1062</td>
<td>Campbell</td>
<td>At Campbell Lake, Nanaimo Water District.</td>
</tr>
<tr>
<td>1027</td>
<td>Chemainus</td>
<td>1 mile above mouth, near Chemainus, Victoria Water District.</td>
</tr>
<tr>
<td>1054</td>
<td>Cowichan</td>
<td>At Cowichan Lake, Victoria Water District.</td>
</tr>
<tr>
<td>1030</td>
<td>Englishmans</td>
<td>½ mile above mouth, near Parksville, Nanaimo Water District.</td>
</tr>
<tr>
<td>1020</td>
<td>Koksilah</td>
<td>2 miles above mouth, near Duncan, Victoria Water District.</td>
</tr>
<tr>
<td>1031</td>
<td>Little Qualicum</td>
<td>At Cameron Lake, B.C., Nanaimo Water District.</td>
</tr>
<tr>
<td>1028</td>
<td>Nanaimo</td>
<td>6 miles above mouth, Nanaimo Water District.</td>
</tr>
<tr>
<td>1040</td>
<td>Oyster</td>
<td>1 mile above mouth, Nanaimo Water District.</td>
</tr>
<tr>
<td>1036</td>
<td>Puntledge</td>
<td>1 mile above mouth, near Courtenay, Nanaimo Water District.</td>
</tr>
<tr>
<td>1063</td>
<td>Puntledge</td>
<td>Diversion Dam, above Canadian Collieries Power Plant, Nanaimo Water District.</td>
</tr>
<tr>
<td>1025</td>
<td>Shawnigan</td>
<td>At Shawnigan Lake, Koenigs, B.C., Victoria Water District.</td>
</tr>
<tr>
<td>1051</td>
<td>Sproat</td>
<td>At Sproat Lake.</td>
</tr>
<tr>
<td>1052</td>
<td>Stamp</td>
<td>At Great Central Lake.</td>
</tr>
<tr>
<td>1053</td>
<td>Stamp</td>
<td>4 miles above Stamp Falls, Alberni Water District.</td>
</tr>
<tr>
<td>1039</td>
<td>Tsolum</td>
<td>3 miles above mouth, near Courtenay, Nanaimo Water District.</td>
</tr>
</tbody>
</table>

List of Miscellaneous Gauging Stations, Vancouver Island District.

<table>
<thead>
<tr>
<th>Station Number</th>
<th>Stream</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1079</td>
<td>Holt</td>
<td>C.N.P. Ry. Bridge, near Duncans, Victoria Water District.</td>
</tr>
</tbody>
</table>

No changes have been effected in this district during the year.

KAMLOOPS DIVISION.

There have been no changes in the personnel of the staff of the Kamloops division during the year. The pressure of work made it necessary to hire temporary assistance from time to time as it was required.

Any stations established or discontinued during the year are mentioned under the headings of their respective districts.
### List of Regular Gauging Stations, Kamloops District.

<table>
<thead>
<tr>
<th>Station Number</th>
<th>Stream</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>2064</td>
<td>Barriere</td>
<td>Near Barriere, Kamloops Water District.</td>
</tr>
<tr>
<td>2002</td>
<td>Boise</td>
<td>Tp. 18, Rge. 12, W. 6. M.</td>
</tr>
<tr>
<td>2003</td>
<td>Cherry</td>
<td>Tp. 19, Rge. 19, W. 6. M.</td>
</tr>
<tr>
<td>2047</td>
<td>Clearwater</td>
<td>Near Raft River, Kamloops Water District.</td>
</tr>
<tr>
<td>2082</td>
<td>Edwards</td>
<td>Tp. 22, Rge. 16, W. 6. M.</td>
</tr>
<tr>
<td>2083</td>
<td>Edwards (Lyons Diversion)</td>
<td>Tp. 22, Rge. 16, W. 6. M.</td>
</tr>
<tr>
<td>2011</td>
<td>Essell</td>
<td>Tp. 17, Rge. 14, W. 6. M.</td>
</tr>
<tr>
<td>2007</td>
<td>Fishtrap</td>
<td>50 miles north of Kamloops, Kamloops Water District.</td>
</tr>
<tr>
<td>2013</td>
<td>Greenstone</td>
<td>Tp. 17, Rge. 20, W. 6. M.</td>
</tr>
<tr>
<td>2014</td>
<td>Guichon</td>
<td>Near Mamit Lake, Nicola Water District.</td>
</tr>
<tr>
<td>2019</td>
<td>Heffley (below Heffley Lake)</td>
<td>Tp. 22, Rge. 16, W. 6. M.</td>
</tr>
<tr>
<td>2018</td>
<td>Heffley (above divisions near mouth)</td>
<td>Tp. 22, Rge. 17, W. 6. M.</td>
</tr>
<tr>
<td>2020</td>
<td>Ingram</td>
<td>Tp. 17, Rge. 13, W. 6. M.</td>
</tr>
<tr>
<td>2022</td>
<td>Jameson</td>
<td>Tp. 22, Rge. 17, W. 6. M.</td>
</tr>
<tr>
<td>2026</td>
<td>Little Clearwater</td>
<td>Near Raft River, Kamloops Water District.</td>
</tr>
<tr>
<td>2023</td>
<td>Louis</td>
<td>Tp. 23, Rge. 15, W. 6. M.</td>
</tr>
<tr>
<td>2024</td>
<td>Monte (above Bostocks diversion)</td>
<td>Tp. 19, Rge. 15, W. 6. M.</td>
</tr>
<tr>
<td>2025</td>
<td>Monte (below diversion to Summit L.)</td>
<td>Tp. 18, Rge. 14, W. 6. M.</td>
</tr>
<tr>
<td>2026</td>
<td>Monte (diversion to Summit Lake)</td>
<td>Tp. 18, Rge. 14, W. 6. M.</td>
</tr>
<tr>
<td>2009</td>
<td>Murtle</td>
<td>Near Raft River, Kamloops Water District.</td>
</tr>
<tr>
<td>2085</td>
<td>North Thompson</td>
<td>Near Barriere, Kamloops Water District.</td>
</tr>
<tr>
<td>2002</td>
<td>Paul</td>
<td>Tp. 20, Rge. 16, W. 6. M.</td>
</tr>
<tr>
<td>2055</td>
<td>Raft</td>
<td>Near Raft River, Kamloops Water District.</td>
</tr>
<tr>
<td>2078</td>
<td>Salmon</td>
<td>Tp. 18, Rge. 12, W. 6. M.</td>
</tr>
<tr>
<td>2058</td>
<td>Siwash</td>
<td>Tp. 22, Rge. 16, W. 6. M.</td>
</tr>
<tr>
<td>2061</td>
<td>Sullivan</td>
<td>Tp. 23, Rge. 16, W. 6. M.</td>
</tr>
<tr>
<td>2038</td>
<td>Sullivan mile (Durand)</td>
<td>Tp. 20, Rge. 21, W. 6. M.</td>
</tr>
<tr>
<td>2043</td>
<td>Tranquille</td>
<td>Tp. 20, Rge. 19, W. 6. M.</td>
</tr>
<tr>
<td>2066</td>
<td>Whitewood</td>
<td>Near Barriere, Kamloops Water District.</td>
</tr>
</tbody>
</table>

### List of Miscellaneous Gauging Stations, Kamloops District.

<table>
<thead>
<tr>
<th>Station Number</th>
<th>Stream</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>2063</td>
<td>Boulder</td>
<td>Sixty miles north of Kamloops, Kamloops Water District.</td>
</tr>
<tr>
<td>2067</td>
<td>Canyon</td>
<td>Tp. 21, Rge. 15, W. 6. M., Kamloops Water District.</td>
</tr>
<tr>
<td>2100</td>
<td>Scuittoe</td>
<td>Tp. 18, Rge. 16, W. 6. M., Kamloops Water District.</td>
</tr>
</tbody>
</table>

This year the ratings were completed for Fishtrap and Greenstone creeks, and the discharges worked out for both 1915 and 1916.

On account of more stable conditions in the stream bed, it has been possible to compute daily discharges for Essell creek and Sullivan creek, and they are reported as regular stations for 1916.

Daily discharges cannot be given for Campbell creek, on account of changes in the bed of the stream. It is the intention to find a new location for the station on this stream next season.
List of Regular Gauging Stations, Okanagan District.

<table>
<thead>
<tr>
<th>Station Number</th>
<th>Stream.</th>
<th>Location.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2065</td>
<td>Ashnola</td>
<td>Near Keremeos, Princeton Water District.</td>
</tr>
<tr>
<td>2048</td>
<td>Boundary</td>
<td>At Greenwood, Grand Forks Water District.</td>
</tr>
<tr>
<td>2070</td>
<td>Brash</td>
<td>Tp. 18, Rge. 8, W. 6. M.</td>
</tr>
<tr>
<td>2050</td>
<td>Celesta</td>
<td>Tp. 26, Rge. 8, W. 6. M.</td>
</tr>
<tr>
<td>2073</td>
<td>Chase</td>
<td>Tp. 21, Rge. 13, W. 6. M.</td>
</tr>
<tr>
<td>2051</td>
<td>Crazy</td>
<td>Tp. 23, Rge. 5, W. 6. M.</td>
</tr>
<tr>
<td>2010</td>
<td>Eagle</td>
<td>Tp. 23, Rge. 6, W. 6. M.</td>
</tr>
<tr>
<td>2049</td>
<td>Kettle (Carson)</td>
<td>At Carson, Grand Forks Water District.</td>
</tr>
<tr>
<td>2002</td>
<td>Kettle (Cascade)</td>
<td>At Cascade, Grand Forks Water District.</td>
</tr>
<tr>
<td>2046</td>
<td>Kettle (Nicholsons Bridge)</td>
<td>Near Kettle Valley, Grand Forks Water District.</td>
</tr>
<tr>
<td>2045</td>
<td>Kettle (West Fork)</td>
<td>Near Westbridge, Grand Forks Water District.</td>
</tr>
<tr>
<td>2088</td>
<td>Okanagan</td>
<td>At Okanagan Falls, Fairview Water District.</td>
</tr>
<tr>
<td>2051</td>
<td>Seymour</td>
<td>Head of Seymour Arm, Shuswap Lake, Kamloops Water District.</td>
</tr>
<tr>
<td>2034</td>
<td>Shuswap</td>
<td>Tp. 18, Rge. 9, W. 6. M.</td>
</tr>
<tr>
<td>2054</td>
<td>Similkameen</td>
<td>Near Ashnola, Princeton Water District.</td>
</tr>
<tr>
<td>2063</td>
<td>South Similkameen</td>
<td>At Princeton, Princeton Water District.</td>
</tr>
<tr>
<td>2042</td>
<td>South Thompson</td>
<td>Tp. 21, Rge. 13, W. 6. M.</td>
</tr>
<tr>
<td>2002</td>
<td>Tulameen</td>
<td>At Coalmont, Princeton Water District.</td>
</tr>
</tbody>
</table>

List of Water-Level Stations.

<table>
<thead>
<tr>
<th>Station Number</th>
<th>Stream.</th>
<th>Location.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2087</td>
<td>Shuswap Lake</td>
<td>Tp. 21, Rge. 8, W. 6. M., Kamloops Water District.</td>
</tr>
</tbody>
</table>

List of Miscellaneous Gauging Stations, Okanagan District.

<table>
<thead>
<tr>
<th>Station Number</th>
<th>Stream.</th>
<th>Location.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2101</td>
<td>East Canoe</td>
<td>Tp. 20, Rge. 8, W. 6. M., Kamloops Water District.</td>
</tr>
<tr>
<td>2052</td>
<td>Kettle—North Fork</td>
<td>Grand Forks, Grand Forks Water District.</td>
</tr>
<tr>
<td>2102</td>
<td>Otter</td>
<td>Tulameen River, Princeton Water District.</td>
</tr>
<tr>
<td>2081</td>
<td>Twentymile</td>
<td>Hedley, Princeton Water District.</td>
</tr>
</tbody>
</table>

The ratings have been completed for Ashnola and Celesta creeks, and this year they are reported as regular gauging stations. Discharges have been computed for both 1915 and 1916.

The station on the North Fork of the Kettle river at Grand Forks proved unsatisfactory on account of the slag which is dumped into the river at the smelter. It was discontinued, and a new station established on the main river at Cascade. The new station gives the total flow of the Kettle river, including the North Fork.

Several stations in this district have been discontinued after records had been kept for a year or two, since there seemed to be an abundant supply of water, and a
more accurate idea of the stream flow was not considered necessary. Observations on the following stations were discontinued this year: Granite, Manson, Ross, Scotch, and Niskonlith.

On Twentymile creek there is a power plant which utilizes the total flow of the stream, so that actual measurements are hardly necessary. The station was very expensive and difficult to maintain, and it has been discontinued.

List of Regular Gauging Stations, Ashcroft District.

<table>
<thead>
<tr>
<th>Station Number</th>
<th>Stream.</th>
<th>Location.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2001 Barnes</td>
<td>Tp. 20, Rge. 24, W. 6. M.</td>
<td></td>
</tr>
<tr>
<td>2003 Beaver</td>
<td>North of Nicola Lake, Nicola Water District.</td>
<td></td>
</tr>
<tr>
<td>2004 Bonaparte</td>
<td>Tp. 21, Rge. 24, W. 6. M.</td>
<td></td>
</tr>
<tr>
<td>2005 Cache</td>
<td>Tp. 21, Rge. 24, W. 6. M.</td>
<td></td>
</tr>
<tr>
<td>2007 Cache (diversion to Eightmile)</td>
<td>Tp. 21, Rge. 24, W. 6. M.</td>
<td></td>
</tr>
<tr>
<td>2009 Coldwater</td>
<td>Near Merritt, Nicola Water District.</td>
<td></td>
</tr>
<tr>
<td>2009 Hat</td>
<td>Tp. 19, Rge. 26, W. 6. M.</td>
<td></td>
</tr>
<tr>
<td>2027 Nahatlatch (seven miles from mouth)</td>
<td>Tp. 12, Rge. 27, W. 6. M.</td>
<td></td>
</tr>
<tr>
<td>2028 Nahatlatch (outlet of Nahatlatch Lake)</td>
<td>Tp. 12, Rge. 27, W. 6. M.</td>
<td></td>
</tr>
<tr>
<td>2030 Nicola (mouth)</td>
<td>Tp. 17, Rge. 23, W. 6. M.</td>
<td></td>
</tr>
<tr>
<td>2075 Nicola (Nicola)</td>
<td>At Nicola, Nicola Water District.</td>
<td></td>
</tr>
<tr>
<td>2086 Nicola (above Nicola Lake)</td>
<td>East of Nicola Lake, Nicola Water District</td>
<td></td>
</tr>
<tr>
<td>2090 Oregon Jack</td>
<td>Tp. 19, Rge. 25, W. 6. M.</td>
<td></td>
</tr>
<tr>
<td>2036 Spottie</td>
<td>Tp. 23, Rge. 25, W. 6. M.</td>
<td></td>
</tr>
<tr>
<td>2037 Spios</td>
<td>Tp. 13, Rge. 23, W. 6. M.</td>
<td></td>
</tr>
<tr>
<td>2038 Thompson (Spence's Bridge)</td>
<td>Tp. 17, Rge. 25, W. 6. W.</td>
<td></td>
</tr>
</tbody>
</table>

The station on the Nicola river at Merritt was discontinued on account of the continual shifting of the stream bed; and because measurements are now being made on both branches of the stream just above Merritt.

A staff gauge was installed on the Nahatlatch river at the outlet of Nahatlatch lakes, to replace a chain gauge previously in use. With the help of the new measurements made in 1916, the rating of this station has been revised, and it has been possible to compute fairly accurate discharges for both 1915 and 1916.

At the lower station on the Nahatlatch river an auxiliary gauge was established on which readings can be taken daily. This is quite an improvement on the weekly readings taken previously. The cable at this station was raised and more securely anchored to the rock cliff above.

Measurements were made on Scottie creek at the request of the Water Rights Branch of British Columbia.

On account of the continual shifting of the channel on Spio Creek, it has not been possible to compute the daily discharges this year.

NELSON DIVISION.

As previously stated, the Nelson office was closed in the early part of April, and for the balance of the year the field work was carried on under the direct supervision of the Chief Engineer.

In addition to the territory in Mr. Hughes' care in the Coast division, the Revelstoke district of the Nelson division was also placed in his charge.
Superintendent of Water Power

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List of Regular Gauging Stations, Nelson District.

<table>
<thead>
<tr>
<th>Station Number</th>
<th>Stream.</th>
<th>Location.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3025</td>
<td>Carpenter</td>
<td>Sandon, New Denver Water District.</td>
</tr>
<tr>
<td>3008</td>
<td>Columbia</td>
<td>Trail, Nelson Water District.</td>
</tr>
<tr>
<td>3066</td>
<td>Duncan</td>
<td>Howser, Kaslo Water District.</td>
</tr>
<tr>
<td>3070</td>
<td>Fry</td>
<td>Kaslo, Kaslo Water District.</td>
</tr>
<tr>
<td>3081</td>
<td>Goat</td>
<td>Erickson, Nelson Water District.</td>
</tr>
<tr>
<td>3084</td>
<td>Inonoaklin</td>
<td>Edgewood, Nelson Water District.</td>
</tr>
<tr>
<td>3029</td>
<td>Kaslo</td>
<td>Kaslo, Kaslo Water District.</td>
</tr>
<tr>
<td>3014</td>
<td>Kootenay</td>
<td>Glade, Nelson Water District.</td>
</tr>
<tr>
<td>3068</td>
<td>Larderau</td>
<td>Howser, Kaslo Water District.</td>
</tr>
<tr>
<td>3087</td>
<td>L. H</td>
<td>Silverton, New Denver Water District.</td>
</tr>
<tr>
<td>3028</td>
<td>Silverton (above Intake)</td>
<td>Silverton, New Denver Water District.</td>
</tr>
<tr>
<td>3027</td>
<td>Silverton (above Mill)</td>
<td>Silverton, New Denver Water District.</td>
</tr>
<tr>
<td>3080</td>
<td>Slocan</td>
<td>Slocan City, New Denver Water District.</td>
</tr>
<tr>
<td>3023</td>
<td>Wilson</td>
<td>Roseberry, New Denver Water District.</td>
</tr>
</tbody>
</table>

List of Miscellaneous Gauging Stations, Nelson District.

<table>
<thead>
<tr>
<th>Station Number</th>
<th>Stream.</th>
<th>Location.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3024</td>
<td>Carpenter</td>
<td>New Denver, New Denver Water District.</td>
</tr>
<tr>
<td>3004</td>
<td>Columbia</td>
<td>Castlegar, Nelson Water District.</td>
</tr>
<tr>
<td>3088</td>
<td>Enterprise</td>
<td>Silverton, New Denver Water District.</td>
</tr>
<tr>
<td>3091</td>
<td>Gold</td>
<td>Silverton, New Denver Water District.</td>
</tr>
<tr>
<td>3018</td>
<td>Slocan</td>
<td>Crescent Valley, Nelson Water District.</td>
</tr>
<tr>
<td>3099</td>
<td>Spring</td>
<td>Trail, Nelson Water District.</td>
</tr>
<tr>
<td>3090</td>
<td>Vevey</td>
<td>Silverton, New Denver Water District.</td>
</tr>
</tbody>
</table>

The station on the Columbia—at Castlegar was established to provide a check on the stream flow records of the Columbia at Trail and Kootenay at Glade, but these stations having been sufficiently well rated, it was decided at the first of the year to discontinue that on the Columbia at Castlegar.

The exceptionally high water on Fry creek washed out the cable and car and changed the control. It has not been possible to re-rate the station during the balance of the year. However, the gauge has been observed daily and it is hoped it will be possible to publish daily discharges, etc., in a later report.

Owing to the stations on Silverton creek above and below Hewitt mill having been affected by high water carrying out a portion of the dam, they have not been sufficiently well rated to warrant the publication of the daily discharges.
List of Regular Gauging Stations, Revelstoke District.

<table>
<thead>
<tr>
<th>Station Number</th>
<th>Stream</th>
<th>Location.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3000</td>
<td>Akolkolex</td>
<td>Near Wigwam, Revelstoke Water District.</td>
</tr>
<tr>
<td>3003</td>
<td>Bugaboo</td>
<td>Near Spillimacheen, Golden Water District.</td>
</tr>
<tr>
<td>3005</td>
<td>Columbia</td>
<td>Golden, Golden Water District.</td>
</tr>
<tr>
<td>3007</td>
<td>Hospital</td>
<td>At Revelstoke, Revelstoke Water District.</td>
</tr>
<tr>
<td>3053</td>
<td>Illecillewaet</td>
<td>Near Revelstoke, Revelstoke Water District.</td>
</tr>
<tr>
<td>3030</td>
<td>Incomappleux</td>
<td>Beaton, Revelstoke Water District.</td>
</tr>
<tr>
<td>3036</td>
<td>Incomappleux</td>
<td>Cariboune, Revelstoke Water District.</td>
</tr>
<tr>
<td>3011</td>
<td>Kicking Horse</td>
<td>At Golden, Golden Water District.</td>
</tr>
<tr>
<td>3012</td>
<td>Kicking Horse</td>
<td>Near Field, Golden Water District.</td>
</tr>
<tr>
<td>3013</td>
<td>Kicking Horse</td>
<td>Near No. 2 Tunnel, Golden Water District.</td>
</tr>
<tr>
<td>3015</td>
<td>No. 12</td>
<td>Wilmer, Windermere Water District.</td>
</tr>
<tr>
<td>3019</td>
<td>Spillimacheen</td>
<td>Near Spillimacheen, Golden Water District.</td>
</tr>
<tr>
<td>3020</td>
<td>Toby</td>
<td>Athalmer, Windermere Water District.</td>
</tr>
</tbody>
</table>

List of Miscellaneous Gauging Stations, Revelstoke District.

<table>
<thead>
<tr>
<th>Station Number</th>
<th>Stream</th>
<th>Location.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3054</td>
<td>Washout</td>
<td>Galena, Golden Water District</td>
</tr>
</tbody>
</table>

A number of stations in this district, for various reasons, were discontinued at the first of the year.

Field Springs, No. 1, No. 2, and No. 3, as previously stated, established in connection with the proposed water supply for the town of Field, were discontinued owing to the project being abandoned.

On account of the difficulty in rating North and South Vermilion creeks, caused by the shifting nature of the river beds, the establishment of permanent controls is under consideration.

The station on the Blueberry river was discontinued; having been kept up for several years it was considered that sufficient data had been accumulated for any use to which the stream may be put.

The high water affected the rating of Incomappleux and No. 2 rivers, and the new ratings are not sufficiently well defined to compute the daily discharges.

List of Regular Gauging Stations, Cranbrook District.

<table>
<thead>
<tr>
<th>Station Number</th>
<th>Stream</th>
<th>Location.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3042</td>
<td>Big Sand</td>
<td>Jaffray, Fernie Water District.</td>
</tr>
<tr>
<td>3039</td>
<td>Bull</td>
<td>Bull River, Fernie Water District.</td>
</tr>
<tr>
<td>3038</td>
<td>Cherry</td>
<td>Wasa, Cranbrook Water District.</td>
</tr>
<tr>
<td>3048</td>
<td>Elk</td>
<td>Elk, Fernie Water District.</td>
</tr>
<tr>
<td>3047</td>
<td>Gold</td>
<td>Newgate, Cranbrook Water District.</td>
</tr>
<tr>
<td>3041</td>
<td>Kootenay</td>
<td>Wardner, Cranbrook Water District.</td>
</tr>
<tr>
<td>3043</td>
<td>Little Sand</td>
<td>Jaffray, Fernie Water District.</td>
</tr>
<tr>
<td>3057</td>
<td>Mark</td>
<td>Marysville, Cranbrook Water District.</td>
</tr>
<tr>
<td>3056</td>
<td>Moyie</td>
<td>Kingsgate, Cranbrook Water District.</td>
</tr>
<tr>
<td>3049</td>
<td>Rock</td>
<td>Elk, Fernie Water District.</td>
</tr>
<tr>
<td>3050</td>
<td>St. Mary's</td>
<td>Wycliffe, Cranbrook Water District.</td>
</tr>
</tbody>
</table>
SESSIONAL PAPER No. 25

List of Miscellaneous Gauging Stations, Cranbrook District.

<table>
<thead>
<tr>
<th>Station Number</th>
<th>Stream</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>3045</td>
<td>Linklater</td>
<td>Newgate, Cranbrook Water District.</td>
</tr>
<tr>
<td>3046</td>
<td>Phillips</td>
<td>Roosville, Fernie Water District.</td>
</tr>
</tbody>
</table>

Previous to 1916 the station on Rock creek had been maintained as a regular gauging station, but this year it was impossible to obtain a gauge reader.

The exceptional high water which occurred in June affected the control on Bull river, and it was not found possible to re-rate the station during the balance of the year. Daily gauge records have been secured and it is hoped that it will be possible to publish daily discharges in a later report.

The extreme high water in the Kootenays, which is shown by reliable information to have been the highest since 1894, washed out several of our gauges, and consequently some of our records are broken for the short period, until the gauges were replaced.

FORT GEORGE DISTRICT.

Owing to the necessity of transferring Mr. Elliott from the Fort George district to the Nelson division, to which reference has already been made, we were not able to devote the amount of attention required to thoroughly rate the Fort George stations.

List of Regular Gauging Stations.

<table>
<thead>
<tr>
<th>Station Number</th>
<th>Stream</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>4004</td>
<td>Bulkley</td>
<td>Hazelton, Hazelton Water District.</td>
</tr>
<tr>
<td>4005</td>
<td>Bulkley</td>
<td>Hubert, Hazelton Water District.</td>
</tr>
<tr>
<td>4002</td>
<td>Doré</td>
<td>McBride, Fort George Water District.</td>
</tr>
<tr>
<td>4007</td>
<td>Fraser</td>
<td>Ft. George, Fort George Water District.</td>
</tr>
<tr>
<td>4000</td>
<td>Nechako</td>
<td>Ft. Fraser, Fort Fraser Water District.</td>
</tr>
<tr>
<td>4006</td>
<td>Nechako</td>
<td>Vanderho, Fort Fraser Water District.</td>
</tr>
<tr>
<td>4005</td>
<td>Skeena</td>
<td>Hazelton, Hazelton Water District.</td>
</tr>
</tbody>
</table>

OFFICE WORK.

The office system which is co-related to the work of the field engineers whom it is designed to assist, has reached a degree of efficiency worthy of note.

The work of checking and filling data received from the field is kept up to date, and the records are filed in a manner making them easy of access.

The data are received from two sources; gauge observers and field engineers. The gauge observers forward their observations weekly by means of postal cards. These observations are at once entered on the discharge sheets and are then filed under the name of the stream to which they refer. The field engineers make weekly returns while in the field. These returns consist of diaries showing the work accomplished and the expenses incurred, and all field notes duly computed. The diaries, after perusal by the chief engineer, are passed on to the accountant, who compiles the costs data from the information contained in them, and credits each engineer with his expenses, forwarding a fresh supply of funds, if necessary. The computed field notes are given
to the office engineers who check them and, in the case of meter measurements, having plotted the results on the stream rating curves, file them under the head of the stream to which they belong. The chief engineer is kept in touch with all results and also with any fluctuation in water stages which is likely to make desirable an early visit from an engineer.

With regard to the care of equipment the system in use has proved its efficiency. When leaving for the field the engineer's equipment is listed, and the list checked and signed by the engineer, who assures himself that everything is in working order. On his return the equipment is compared with the list, and any repairs which may be required are immediately carried out. In evidence of the efficiency of this system it may be noted that during the year under review no losses of equipment have occurred.

CONCLUSION.

In reviewing the work of the past year in the light of the previously indicated difficulties under which it was accomplished, I find much reason for satisfaction with the results achieved. This success is largely due to the willingness with which extra work was undertaken by the staff and the energy with which it was performed.
No. 6.

REPORT OF THE CHIEF ENGINEER OF THE MANITOBA HYDROMETRIC SURVEY.

M. C. Hendry, B.A.Sc., A.M. Can. Soc. C. E.

SCOPE OF WORK.

The territory covered by the survey comprises the southern half of the province of Manitoba and a portion of the province of Ontario tributary to the Winnipeg river.

Investigation in the northern part of Manitoba has been only of a reconnaissance nature, and has been confined to those major streams which are comparatively easy of access.

It is recognized that great importance attaches to the early inception of hydrometric work in the outlying districts, for as a rule the need of authentic records of stream flow, particularly for power purposes, generally precedes the opening up of the country, as in the case of development for the manufacture of pulp and for the transmission of power to a distance. Two things have militated against this expansion of the work, first, the lack of transportation facilities and second and more important, the reduction in staff owing to enlistments and war conditions.

Instead of expanding the work the tendency has been to curtail it, and the main effort of the survey has been directed toward maintaining operations at the more important points from the standpoint of immediate necessity of records. During the past year no power investigations were carried on.

ORGANIZATION.

In the reports already published the organization of the survey has been discussed. The work has been handled directly from the main office in Winnipeg, with the exception of that carried on around the Lake of the Woods outlets, where a local staff has been maintained. In consequence, rearrangement of the personnel owing to enlistments has not been difficult, though curtailment of the work has been rendered necessary.

Early in the summer of 1916, the Winnipeg Electric Railway Company undertook some alterations to its plant on the Pinawa channel. As in the case of all construction carried on under approval of the department, it was necessary to detail an inspecting engineer for the work. A member of the Hydrometric Survey staff was selected for this purpose.

STAFF.

During the year 1916-17 the staff was further reduced through the enlistment of two of the members, bringing the total number from this office now engaged in military duties up to fifteen. There have been practically no replacements.

During the year the names of three of these men appeared in the casualty lists. Lieut. W. H. Bartlett was the first of the staff to give his life for his country. Sapper Alexander Pirie was wounded but has since rejoined his unit, and Sergeant P. J. Barry of the P.P.C.I.L., one of the original members of that battalion, has been in hospital as a result of his work at the front. Of the remainder of the staff who are engaged in military duties, all are either in France or England.

At the Lake of the Woods outlets the work had been handled by two members of the staff. However, the exceptional conditions that were experienced at that point
during the spring and early summer threw a very heavy burden on these men, so that it was necessary to increase this force. Mr. M. S. Madden was placed in charge of the work with three and afterwards four assistants, in order that the physical data required in connection with the Lake of the Woods reference before the International Joint Commission might be secured.

It was also necessary to have a man devote his whole attention to that section of the Winnipeg river between Point du Bois and the diversion dams at the intake to the Pinawa channel. Mr. Patterson was placed in charge of this work and was on the ground from June 1 until November 1. Other sections of the Winnipeg river were under observation by the writer assisted by Mr. Ireland. Valuable aid was also rendered by Mr. A. M. Beale, a member of the Ottawa office, who was carrying on certain work in the vicinity.

During the summer months, Mr. C. O. Allen made a trip to Manitou rapids, on the Nelson river, and to the head of Grand rapids, on the Saskatchewan river, and secured hydrometric data at each point covering exceptional high-water conditions. In February and March of 1917 the rivers entering lake Winnipeg from the east and the Saskatchewan river at Grand rapids were also visited by the same officer and stream flow data gathered.

Except during the period of spring run-off, conditions throughout the rest of the province were under the observation of Mr. R. C. Robinson.

The alterations to the Winnipeg Electric Railway Company’s plant required the attention of Mr. W. J. Ireland from about July 15 to the end of November 1916, and during February and part of March 1917.

OFFICE WORK.

A great deal of time has been devoted to the office preparation of the field data secured at the Lake of the Woods outlets, necessary to the power and storage investigations of the Winnipeg river, also to the consideration of the Lake of the Woods reference by the International Joint Commission and by all other interests affected thereby.

During seasons when little field work could be carried on data were prepared for the Annual Stream Measurement report. These annual reports contain the data gathered during the calendar year, and include the results of all meterings made at each station on the streams investigated; the observed daily gauge heights; the estimated mean daily discharge; the maximum, minimum and mean monthly discharge, and the total monthly and yearly run-off for the various stations maintained.
HYDROMETRIC WORK.

During the year 1916-17 the following regular metering stations have been maintained:

**REGULAR METERING STATIONS.**

<table>
<thead>
<tr>
<th>File No.</th>
<th>Stream.</th>
<th>Location.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.1a</td>
<td>Assiniboine river</td>
<td>Brandon.</td>
</tr>
<tr>
<td>A.1c</td>
<td>&quot; &quot;</td>
<td>Headlingly.</td>
</tr>
<tr>
<td>A.1d</td>
<td>&quot; &quot;</td>
<td>Millwood.</td>
</tr>
<tr>
<td>B.3a</td>
<td>Brokenhead &quot;</td>
<td>Sinnott.</td>
</tr>
<tr>
<td>B.4a</td>
<td>Birdtail creek.</td>
<td>Birtle.</td>
</tr>
<tr>
<td>L.1a</td>
<td>Lake of the Woods</td>
<td>Kenora Power House (Headrace).</td>
</tr>
<tr>
<td>L.1b</td>
<td>&quot; &quot;</td>
<td>North Tunnel Island, Keewatin River Bridge.</td>
</tr>
<tr>
<td>L.1c</td>
<td>&quot; &quot;</td>
<td>Norman Traffic Bridge, Norman Dam Headrace.</td>
</tr>
<tr>
<td>L.1e</td>
<td>&quot; &quot;</td>
<td>Old K. L. &amp; M. Co.</td>
</tr>
<tr>
<td>L.1f</td>
<td>&quot; &quot;</td>
<td>Mill &quot;A.&quot;</td>
</tr>
<tr>
<td>L.1g</td>
<td>&quot; &quot;</td>
<td>Mill &quot;C.&quot;</td>
</tr>
<tr>
<td>L.3f</td>
<td>Minnedosa river</td>
<td>Beulby's Bridge.</td>
</tr>
<tr>
<td>L.1h</td>
<td>&quot; &quot;</td>
<td>Indian Bridge.</td>
</tr>
<tr>
<td>L.3m</td>
<td>&quot; &quot;</td>
<td>Middleton Bridge.</td>
</tr>
<tr>
<td>M.1a</td>
<td>Manigotagan River</td>
<td>Above Wood Falls.</td>
</tr>
<tr>
<td>M.4d</td>
<td>Mossey &quot;</td>
<td>Below Fork River.</td>
</tr>
<tr>
<td>N.1e</td>
<td>Nelson &quot;</td>
<td>4 miles above Shell Rapids.</td>
</tr>
<tr>
<td>O.1a</td>
<td>Ochre &quot;</td>
<td>Ochre River.</td>
</tr>
<tr>
<td>R.1a</td>
<td>Rat &quot;</td>
<td>Otterburne.</td>
</tr>
<tr>
<td>R.1a</td>
<td>Red &quot;</td>
<td>Emerson.</td>
</tr>
<tr>
<td>R.5b</td>
<td>Roseau &quot;</td>
<td>Baskerville's Farm.</td>
</tr>
<tr>
<td>R.5e</td>
<td>&quot; &quot;</td>
<td>Stuartburn.</td>
</tr>
<tr>
<td>R.6a</td>
<td>Red Deer &quot;</td>
<td>Hudson Bay Jet.</td>
</tr>
<tr>
<td>R.7b</td>
<td>Rolling &quot;</td>
<td>C.N.R. Crosw.</td>
</tr>
<tr>
<td>S.1a</td>
<td>Saskatchewan &quot;</td>
<td>Head of Grand Rapids.</td>
</tr>
<tr>
<td>S.2a</td>
<td>&quot; &quot;</td>
<td>Pas.</td>
</tr>
<tr>
<td>S.3a</td>
<td>Shell &quot;</td>
<td>Assiniopi.</td>
</tr>
<tr>
<td>S.4a</td>
<td>Souris &quot;</td>
<td>Wawanesa.</td>
</tr>
<tr>
<td>S.4b</td>
<td>&quot; &quot;</td>
<td>Melita.</td>
</tr>
<tr>
<td>S.6a</td>
<td>Swan &quot;</td>
<td>Swan River.</td>
</tr>
<tr>
<td>V.1a</td>
<td>Valley &quot;</td>
<td>Valley River.</td>
</tr>
<tr>
<td>W.1a</td>
<td>Whitemouth &quot;</td>
<td>Whitemouth.</td>
</tr>
<tr>
<td>W.5d</td>
<td>Winnipeg &quot;</td>
<td>Slave Falls.</td>
</tr>
<tr>
<td>W.8w</td>
<td>&quot; &quot;</td>
<td>Whitedog Falls.</td>
</tr>
<tr>
<td>W.11a</td>
<td>Whirlpool &quot;</td>
<td>Danvers.</td>
</tr>
<tr>
<td>W.11a</td>
<td>Woody &quot;</td>
<td>Bowman.</td>
</tr>
</tbody>
</table>

In addition meterings have been obtained at the following stations, but owing to the fact that daily discharges have not been computed, they are listed under the heading of Miscellaneous Metering Stations:

**MISCELLANEOUS METERING STATIONS.**

<table>
<thead>
<tr>
<th>File No.</th>
<th>Stream.</th>
<th>Location.</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.1a</td>
<td>Berens river</td>
<td>3½ miles from mouth.</td>
</tr>
<tr>
<td>B.1b</td>
<td>&quot; &quot;</td>
<td>Little Grand Rapids.</td>
</tr>
<tr>
<td>B.2a</td>
<td>Bloodvein river</td>
<td>8 miles above mouth.</td>
</tr>
<tr>
<td>B.3a</td>
<td>Boyne &quot;</td>
<td>Carman.</td>
</tr>
<tr>
<td>G.5b</td>
<td>Clear creek.</td>
<td>Outlet Clear Lake.</td>
</tr>
<tr>
<td>L.1j</td>
<td>Lake of the Woods</td>
<td>C.P.R. Culvert.</td>
</tr>
<tr>
<td>L.2b</td>
<td>Salle river.</td>
<td>Sanford.</td>
</tr>
<tr>
<td>L.3e</td>
<td>Minnedosa river</td>
<td>Minnedosa Power House (Headrace.)</td>
</tr>
<tr>
<td>M.3b</td>
<td>Morris river.</td>
<td>Rosemont.</td>
</tr>
<tr>
<td>P.1c</td>
<td>Pembina river</td>
<td>Near Manitou.</td>
</tr>
<tr>
<td>P.2b</td>
<td>Pinawa channel</td>
<td>Below Control Dam.</td>
</tr>
<tr>
<td>P.2j</td>
<td>Winnipeg river</td>
<td>Below Sharkey's Dam.</td>
</tr>
<tr>
<td>P.4a</td>
<td>Pigeon river.</td>
<td>Above First Rapids.</td>
</tr>
<tr>
<td>R.5d</td>
<td>Roseau &quot;</td>
<td>Below Desmon City.</td>
</tr>
<tr>
<td>W.6ab</td>
<td>Winnipeg river</td>
<td>Throat Rapids.</td>
</tr>
<tr>
<td>W.6bc</td>
<td>&quot; &quot;</td>
<td>Intake, Point du Bois.</td>
</tr>
<tr>
<td>W.8a</td>
<td>Whitemud &quot;</td>
<td>Holmfield.</td>
</tr>
</tbody>
</table>
At a number of other points no measurements of the discharge were obtained but records of daily gauge height were secured. These were gathered more especially in connection with certain studies being made on the Lake of the Woods outlets, Winnipeg river, and Nelson river. Gauge records were also secured for the various lakes in the area covered by the survey. The places where such records were secured are listed below:

**GAUGING STATIONS.**

<table>
<thead>
<tr>
<th>File No.</th>
<th>Stream.</th>
<th>Location.</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.8a</td>
<td>Boggy lake</td>
<td>At Outlet Whirlpool river.</td>
</tr>
<tr>
<td>F.1a</td>
<td>Fairfield river</td>
<td>Fairford.</td>
</tr>
<tr>
<td>F.3a</td>
<td>Family lake</td>
<td>Little Grand Rapids.</td>
</tr>
<tr>
<td>L.1a</td>
<td>Lake of the Woods</td>
<td>Kenora Power House (Tailrace).</td>
</tr>
<tr>
<td>L.1d</td>
<td>&quot;</td>
<td>Norman Dam (Tailrace).</td>
</tr>
<tr>
<td>L.1m</td>
<td>&quot;</td>
<td>Ontario D.F.W. lake gauge (M.H.S).</td>
</tr>
<tr>
<td>L.1n</td>
<td>&quot;</td>
<td>Keewatin River gauge Mill &quot;A.&quot;</td>
</tr>
<tr>
<td>L.1p</td>
<td>&quot;</td>
<td>Kenora Automatic gauge.</td>
</tr>
<tr>
<td>L.3c</td>
<td>Minnedosa</td>
<td>Minnedosa Power House (Tailrace).</td>
</tr>
<tr>
<td>L.4a</td>
<td>Lac Seul</td>
<td>Hudson’s Bay Co. Post.</td>
</tr>
<tr>
<td>M.1a</td>
<td>Manitou river</td>
<td>Below Wood Falls, Delta.</td>
</tr>
<tr>
<td>M.2c</td>
<td>Lake Manitoba</td>
<td></td>
</tr>
<tr>
<td>N.1a</td>
<td>Nelson river</td>
<td>Norway House.</td>
</tr>
<tr>
<td>N.1f</td>
<td>&quot;</td>
<td>McMillan’s Landing.</td>
</tr>
<tr>
<td>N.1h</td>
<td>&quot;</td>
<td>Manitou Bridge Crossing.</td>
</tr>
<tr>
<td>N.1j</td>
<td>&quot;</td>
<td>Kettle Rapids.</td>
</tr>
<tr>
<td>N.1k</td>
<td>&quot;</td>
<td>Kettle Bridge Crossing.</td>
</tr>
<tr>
<td>C.3a</td>
<td>Otter creek</td>
<td>Scandinavia.</td>
</tr>
<tr>
<td>P.1b</td>
<td>Pembina river</td>
<td>Killarney.</td>
</tr>
<tr>
<td>P.2a</td>
<td>Pinawa channel</td>
<td>Above Control Dam.</td>
</tr>
<tr>
<td>P.2b</td>
<td>&quot;</td>
<td>Automatic gauge below Control Dam.</td>
</tr>
<tr>
<td>P.2c</td>
<td>&quot;</td>
<td>W. E. Ry. Forebay and Tailrace.</td>
</tr>
<tr>
<td>P.2h</td>
<td>&quot;</td>
<td>Intake.</td>
</tr>
<tr>
<td>P.2k</td>
<td>&quot;</td>
<td>Above Sharkey’s Dam.</td>
</tr>
<tr>
<td>P.2l</td>
<td>&quot;</td>
<td>Above Diversion Dam (M.H.S.)</td>
</tr>
<tr>
<td>P.2m</td>
<td>&quot;</td>
<td>Above Diversion Dam (W. E. Ry.)</td>
</tr>
<tr>
<td>R.4e</td>
<td>Red river</td>
<td>Below Diversion Dam (W. E. Ry.)</td>
</tr>
<tr>
<td>R.4f</td>
<td>&quot;</td>
<td>St. Agathe.</td>
</tr>
<tr>
<td>R.4g</td>
<td>&quot;</td>
<td>Redwood Bridge (Wpg.)</td>
</tr>
<tr>
<td>R.4h</td>
<td>&quot;</td>
<td>Morris.</td>
</tr>
<tr>
<td>S.2a</td>
<td>Seine river</td>
<td>Elm Park Bridge (Wpg.)</td>
</tr>
<tr>
<td>W.4a</td>
<td>Lake Winnipegosis</td>
<td>Ste. Anne des Chenes.</td>
</tr>
<tr>
<td>W.5a</td>
<td>Lake Winnipegosis</td>
<td>Winnipegosis.</td>
</tr>
<tr>
<td>W.6a</td>
<td>Winnipeg river</td>
<td>Winnipeg Beach.</td>
</tr>
<tr>
<td>W.6b</td>
<td>&quot;</td>
<td>Minaki.</td>
</tr>
<tr>
<td>W.6c</td>
<td>&quot;</td>
<td>Tailrace, Point du Bois.</td>
</tr>
<tr>
<td>W.6d</td>
<td>&quot;</td>
<td>Above Intake, Point du Bois.</td>
</tr>
<tr>
<td>W.6e</td>
<td>&quot;</td>
<td>Above Screens, Point du Bois.</td>
</tr>
<tr>
<td>W.6f</td>
<td>&quot;</td>
<td>Above Slave Falls.</td>
</tr>
<tr>
<td>W.6g</td>
<td>&quot;</td>
<td>Below.</td>
</tr>
<tr>
<td>W.6h</td>
<td>&quot;</td>
<td>Foot of 2nd McArthur.</td>
</tr>
<tr>
<td>W.6i</td>
<td>&quot;</td>
<td>Foot Little du Bonnet.</td>
</tr>
<tr>
<td>W.6j</td>
<td>&quot;</td>
<td>Foot of Seven Sisters.</td>
</tr>
<tr>
<td>W.6k</td>
<td>&quot;</td>
<td>Winnipeg City Tramway Bridge.</td>
</tr>
<tr>
<td>W.6l</td>
<td>&quot;</td>
<td>Foot 1st McArthur Falls.</td>
</tr>
<tr>
<td>W.6m</td>
<td>&quot;</td>
<td>Head of Grand du Bonnet.</td>
</tr>
<tr>
<td>W.6n</td>
<td>&quot;</td>
<td>Head of Little du Bonnet.</td>
</tr>
<tr>
<td>W.6o</td>
<td>&quot;</td>
<td>Head Whittemud Falls.</td>
</tr>
<tr>
<td>W.6p</td>
<td>&quot;</td>
<td>Head of Silver Falls.</td>
</tr>
<tr>
<td>W.6q</td>
<td>&quot;</td>
<td>Foot of Silver Falls.</td>
</tr>
<tr>
<td>W.6r</td>
<td>&quot;</td>
<td>Head of Pine Falls.</td>
</tr>
<tr>
<td>W.6s</td>
<td>&quot;</td>
<td>Foot of Pine Falls.</td>
</tr>
<tr>
<td>W.6t</td>
<td>&quot;</td>
<td>Port Alexander.</td>
</tr>
<tr>
<td>W.6u</td>
<td>&quot;</td>
<td>Above Seven Sisters.</td>
</tr>
<tr>
<td>W.6v</td>
<td>&quot;</td>
<td>Between 1st and 2nd Falls, Seven Sisters.</td>
</tr>
<tr>
<td>W.6w</td>
<td>&quot;</td>
<td>Between 2nd and 3rd Falls, Seven Sisters.</td>
</tr>
<tr>
<td>W.6x</td>
<td>&quot;</td>
<td>Foot of 3rd Falls, Seven Sisters.</td>
</tr>
<tr>
<td>W.6y</td>
<td>&quot;</td>
<td>Foot of 4th Falls, Seven Sisters.</td>
</tr>
<tr>
<td>W.6z</td>
<td>&quot;</td>
<td>Above eight foot Falls.</td>
</tr>
<tr>
<td>W.6z</td>
<td>&quot;</td>
<td>Below eight-foot Falls.</td>
</tr>
<tr>
<td>W.12a</td>
<td>Wolf lake</td>
<td>Elphinestone.</td>
</tr>
</tbody>
</table>
The winter of 1915-16 was one of exceptional precipitation, a very heavy snowfall being recorded throughout the district. For instance, the snowfall recorded at the meteorological station in Winnipeg exceeded that observed during any winter season since the station was established, the total fall being 85.8 inches. The fall rains of 1915 were also heavy in many districts; as an example it may be stated that in the upper part of the Winnipeg River drainage basin, the precipitation for October and November, which was nearly all in the form of rain, was practically double the mean for the period 1885-1915.

As a result of the heavy precipitation of the winter and following spring, a very heavy run-off was encountered. The Red river was the first upon which the spring freshet occurred. At Emerson the first evidence of the spring flow was noted on March 27; from that date the river rose steadily and rapidly until April 24, when the peak of the flood passed. During that time the river rose 35-5 feet, reaching the highest stage recorded since the inception of this survey, and one that has been exceeded on only two known occasions. The peak discharge at Emerson was 46,200 c.f.s. While some flooding occurred, no serious damage was sustained in that vicinity.

At Winnipeg the situation was more serious; the flood on the Red at this point crested at practically the same time as that on the Assiniboine river; as a result the river rose practically 25 feet above its winter level, the estimated discharge below the mouth of the Assiniboine being 73,000 c.f.s. In consequence, a great deal of flooding occurred in the lower parts of Winnipeg and St. Boniface. At different points along the rivers of the province flooding occurred but the above named places on the Red and Assiniboine rivers were the chief sufferers.

In the drainage basin of the Winnipeg river, particularly in that part lying above the outlet from Lake of the Woods, flooding occurred. Namakan, Rainy, and Lake of the Woods reached higher levels than any previously recorded. Lac Seul at the head of the English river, the main tributary of the Winnipeg, also reached a very high stage; as a result the discharge of the Winnipeg was abnormally high, exceeding all previously recorded stages.

Other rivers on which exceptionally high discharge was noted were the Saskatchewan and Nelson rivers.

The efforts of the survey were directed towards gathering as full records of the high discharge as possible. Owing to the critical condition that obtained in the Lake of the Woods district and the fact that, in addition to securing records for power and storage studies, the survey has been supplying the International Joint Commission with data relative to lake levels and discharge from the various outlets, it was necessary to maintain a full organization at that point for several months until conditions returned to normal. The data gathered were prepared and copies forwarded to the commission as rapidly as possible; at times this required the attention of the whole office staff.

On the Winnipeg river, water levels were secured at numerous points in addition to the observations made at the various gauging stations. The regular metering stations were also operated and a large amount of data was obtained covering the high stages.

The regimen of the Saskatchewan river was closely followed. While it was not possible to obtain as full data as in the case of the Winnipeg, observations of the discharge during the higher stages were made both at Pas and the head of Grand rapids.
DEPARTMENT OF THE INTERIOR

8 GEORGE V, A. 1918

SPECIAL WORK.

Hydrometric.—As a consequence of the high stages on the various rivers tributary to lake Winnipeg, a high stage obtained on that lake and as a result a heavy discharge occurred on the Nelson river.

In the past it has been impossible to obtain continuous records of discharge on the Nelson river, but an endeavour has been made to secure records of the extremes. The stage of lake Winnipeg was therefore carefully watched and as soon as it appeared to approach the maximum, one of the staff was sent down the Nelson to Manitou rapids and discharge measurements were secured. These indicate a higher rate of discharge than any previously recorded, though it is not certain that the maximum for the season was secured.

A special trip was also made to Grand rapids near the mouth of the Saskatchewan at the head of which fall a metering station has been maintained. The records obtained indicate a discharge which very nearly equalled the maximum of 1915.

In January 1917 arrangements were completed to send one of the engineers on a metering trip covering all of the rivers that enter lake Winnipeg from the east. A start was made from Fisher river, the total distance from that point being covered by dog team, and the following rivers were visited: Manigotagan, Bloodvein, Pigeon, and Berens on the east, and Saskatchewan on the west. The rivers were all metered at one point at least, and, in the case of the Berens, meterings were also obtained above Family lake. An idea of the difficulties of carrying out the work under the rigorous winter conditions met with, may be realized when it is considered that 630 miles were covered in twenty-one days, or an average of 30 miles per day, regardless of the necessity of breaking trail the greater part of the time.

Construction.—During the summer of 1916 the Winnipeg Electric Railway Company undertook certain alterations and improvements to the Company’s plant on the Pinawa channel. These alterations were approved by the department and Mr. W. J. Ireland, a member of this staff, was appointed inspecting engineer on the work, following the general policy of the department. The proposed changes in the plant were as follows:—

1. To increase the effective head on the plant by raising the headworks.
2. To increase the winter flow down the Pinawa channel by repairs and improvements to the diversion dams at the head of the Pinawa channel.

The changes and improvements were proposed with a view to increasing the output of the plant especially during the winter months.

Active work on the alterations to the plant itself began in July and was carried on until the freeze-up occurred in November. The raising of the forebay walls and the placing of the piers and deck on the old spillway were completed. The extension to the spillway and the large sluiceways and gates are still incompletely.

During February and March a certain amount of rock-fill was placed at the small diversion dam, known as Sharkey’s dam.

The progress of the work has been reported on from time to time by Mr. Ireland and these reports are now on file in Ottawa.

CONCLUSION.

The past year has been one in which exceptional conditions have been encountered. At a time when the staff was greatly reduced, extreme high water was observed on practically every river throughout the district covered by the survey. An exceptional opportunity was offered to obtain data relative to such conditions, and in one particular part of the territory it was imperative that the results of observations made should be made available to interested parties. That the situation under these conditions was met and successfully coped with, speaks volumes for the loyalty and hearty co-operation of every individual member of the staff.
No. 7.

REPORT OF THE CHIEF ENGINEER OF THE ALBERTA AND SASKATCHEWAN POWER SURVEY.

C. H. ATTWOOD, O.I.S., A.M. Can Soc. C.E.

The field work consisted of:

1. The establishment of permanent bench-marks at the power sites on the Bow river.
2. Investigation of the power possibilities of Pine creek, in section 15, township 65, range 21, west of the 4th meridian.
4. A reconnaissance survey of the power possibilities of the Churchill river at Kettle falls and Bloodstone falls in Saskatchewan and Manitoba.
5. A power survey of Crowsnest falls on the Crowsnest river about two miles west of Lundbreck, Alberta.
6. An inspection of the power possibilities of Frog creek in fractional section 15, township 56, range 3, west of the 4th meridian.

In July last, permanent bench-marks were established at the various power sites along the Bow river in order that datum elevation established at these power sites, by previous surveys, could easily be re-established in the event of future developments. These bench-marks consisted of a brass cap screwed on to an iron lag bolt. The bolt was placed in a hole drilled in the rock, and the hole filled with molten lead. The cap was then screwed down tight and the top of the bolt, which was allowed to protrude slightly above the cap was spread and burdor to prevent removal. These bench-marks were placed at the Minnewanka dam, Bow falls, Kananaskis falls, and at the Bow Fort, Mission, Ghost and Radnor power sites as follows:

<table>
<thead>
<tr>
<th>B.M.</th>
<th>Elevation</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4480 97</td>
<td>Top of new concrete sluiceway from fishery pond—Banff.</td>
</tr>
<tr>
<td>2</td>
<td>4743 76</td>
<td>Easterly end of the deck of Minnewanka storage dam—Calgary Power Co.</td>
</tr>
<tr>
<td>6</td>
<td>4917 64</td>
<td>On rock ledge, south shore Bow river at Bow Fort power site—S. 13° W. (magnetically) 76' 8 feet from old B.M. No. 6.</td>
</tr>
<tr>
<td>52</td>
<td>3870 03</td>
<td>On rock, north shore Bow river at Mission power site—N. 10° E. (magnetically) 4' 81 feet from old B.M. No. 32.</td>
</tr>
<tr>
<td>62</td>
<td>3811 21</td>
<td>On rock, north shore Bow river, east shore at mouth Ghost river, at Ghost power site—S. 47° E. (magnetically) 3' 3 feet from old B.M. No. 62.</td>
</tr>
<tr>
<td>4</td>
<td>3767 13</td>
<td>Top rock bank, north shore Bow river at Radnor power site.</td>
</tr>
</tbody>
</table>

(2) **Pine Creek.**—Following an application for the right to develop a small water-power on Pine creek, in section 15, township 65, range 21, west of the 4th meridian, an investigation of the power possibilities of the creek was made on August 14.

There are no discharge records of this stream available, and at the time of the inspection less than one second-foot of water was flowing in the creek. We are informed by the inhabitants that the creek was then at normal stage, and the applicant was advised that to proceed with a power development would be a waste of money.

(3) **Sturgeon-weir river.**—A power survey was made of Scoop rapids, on the Sturgeon-weir river, to ascertain the possibility of developing sufficient power to supply the mining country lying to the north and east of Beaver lake.
The Sturgeon-weir river drains that large system of waterways lying in Northern Saskatchewan bounded by latitudes 54° 30' and 55° 30' and longitudes 102° and 103°, including Deschambault, Wood, Pelican, and Mirond lakes, and empties into Beaver lake, which lies about 90 miles northwest of Pas, Manitoba. The river, from Mirond lake to Beaver lake, is approximately fifty miles in length, with Scoop rapids located about midway between these two lakes.

Above Scoop rapids the river has a drainage area of approximately 5,678 square miles. At Scoop rapids there is a drop of 6 feet, and a head of 12 feet could easily be obtained without flooding much land. The river banks above the rapids are low and the left bank is low, flat, and heavily wooded for a long distance back from the river, At the rapids the river falls over a granite ledge and is only 85 feet wide. The right bank is solid granite rising to a height of 40 feet above water level, while the left bank is clay overlying the granite formation and rising to a height of 17 feet above water level at the crest of the rapids.

The best power site on the Sturgeon-weir river is at Birch rapids, situate about 10 miles above Scoop rapids, where a head of 20 or 30 feet could be obtained and above which lies a fairly large lake that could be utilized for pondage.

The only discharge measurement available is that secured by the writer on August 29 last, when the flow recorded was 2,488 second-feet. Without further discharge records it is impossible to estimate the amount of power available. There are several large lakes in the drainage area that could be easily and economically converted into storage reservoirs. It is also possible, at a very small expenditure, to divert the flood waters of the Churchill river into this drainage basin at Frog portage for the purpose of filling these reservoirs.

Extensive investigations and surveys will be necessary before the power possibilities of the stream can be even approximately estimated. These investigations would not be warranted until a market for power is assured and the requirements of such a market known.

(4) Churchill River.—A power survey was made on the Churchill river at Kettle falls in northern Saskatchewan and at Bloodstone falls in northern Manitoba.

The Churchill river basin comprises the watershed lying immediately northward of the watershed of the Saskatchewan and Nelson rivers, and drains into Hudson bay. The total area of the basin is approximately 114,150 square miles, the axis being practically east and west, extending westward to the height of land dividing it from the Athabaska. Innumerable lakes of varying size occur throughout the whole basin and the river itself to within 50 miles of its mouth can be described as a chain of lakes linked up with short stretches in which rapids and falls occur. For the last 50 miles, the Churchill is a wide stream comparatively free from formidable rapids.

The Reindeer river which drains Reindeer lake is the largest tributary of the Churchill and joins the latter about 60 miles west of the Manitoba boundary.

Kettle Falls.—Kettle falls, on the Churchill river, is situated about 5 miles above the confluence of the Reindeer and Churchill rivers. At Kettle falls the river flows over a granite ledge with a total drop of 15 feet. At this site rock foundation is available on both banks and in the river bed, and a 30-foot head could easily be obtained with a dam about 1,000 feet in length. Above the site is a large lake-like expanse of river with an area of approximately 30 square miles providing a storage reservoir with a capacity, in the top 5 feet, of approximately 100,000 acre-feet, which can be utilized as pondage for regulation purposes.

In the event of such a development it will be necessary to build, at Frog portage, an embankment about 10 feet high and between one-quarter and one-half mile in length, to prevent the Churchill waters flowing across Frog portage into the Sturgeon-weir watershed.
SESSIONAL PAPER No. 25

On September 5 last the discharge of the Churchill river at Kettle falls was in the neighbourhood of 30,000 second-feet.

Bloodstone Falls.—Bloodstone falls is situated at the lower end of Sisipuk lake in northern Manitoba, approximately 17 miles east of the Saskatchewan boundary.

At Bloodstone falls, both banks and the river bed are composed of red granite, the rock on the left bank being covered with a deep layer of sandy loam and timbered with poplar and some spruce. The right bank is a high rock ridge which extends some distance above and below the falls. At the falls there is a 10-foot natural drop, while an additional 10 or 12 feet could be easily obtained with a dam 650 feet in length. Above the dam a storage reservoir between 80 and 90 square miles in area with a capacity, in the top 5 feet, of approximately 275,000 acre feet, would be available for pondage and regulation purposes.

The discharge recorded in September last at Bloodstone falls was about 50,000 second-feet.

Island Falls.—At Island Falls, situated on the Churchill river approximately 10 miles due west of the Manitoba boundary, there is a natural drop of 18 feet, while a head of 25 feet can be developed. At this site the river is divided into two channels by a large island, the larger channel being on the left. A rock ledge extends across the river, but on both banks the rock is covered with a deep layer of sandy loam and is timbered with small aspen and some small spruce.

The Churchill river throughout its entire length provides numerous power and storage sites, and will, at some future date, warrant very careful investigation. At the present time it is too far from industrial centres to be considered as a source of power, though, should the mining industry of northern Manitoba and Saskatchewan develop successfully an extensive power development might be warranted.

(5) Crowsnest River.—Following an application for the right to develop water-power on the Crowsnest river at Crowsnest falls to operate a flour mill, a power survey was made of the site, which is situated in the SE. ¼, section 28, township 7, range 2, west of the 5th meridian.

Following an application for the right to develop water-power on the Crowsnest river at Crowsnest falls to operate a flour mill, a power survey was made of the site, which is situated in the SE. ¼, section 28, township 7, range 2, west of the 5th meridian.

The Crowsnest river is one of the chief tributaries of the Oldman river. It rises in the eastern slope of the Rocky mountains, and its tributaries have their source in the mountains and foothills. The river flows easterly, joining the Oldman river in section 34, township 7, range 1, west of the 5th meridian, and has a drainage area of approximately 270 square miles.

At Crowsnest falls the river flows over a limestone ledge with a direct drop of 32 feet. Commencing at the falls and extending downstream for a distance of 400 feet, both banks are formed by sheer limestone cliffs forming a canyon 40 feet deep. From the crest of the falls and proceeding upstream the banks are low, rising gradually to the edge of the river valley at varying distances back from the river. The Canadian Pacific Railway, Crowsnest branch, crosses the river at a point approximately 600 feet above the falls on a single-span steel bridge with concrete abutments. Above the bridge, in a distance of 600 feet, the river has a fall of 4 feet, and from the bridge down to the crest of the falls the river drops another 8 feet. At the head of the falls outcrops of limestone were observed on both banks, as well as across the river bed; thus good foundations for a dam are available.

The site is one that lends itself to easy development, and a head of 46 feet can be developed without conflicting to any great extent with the existing interests. The discharge records show the minimum flow to be 46 second-feet and that in nine years
the average minimum flow was 60 second-feet. With a flow of 60 second-feet and a head of 46 feet 250 horse-power can be developed, sufficient to operate a fully equipped flour mill of 200 barrels of flour per day capacity. For possibly nine months of the year 400 horse-power can be developed.

(6) Frog Creek.—The question of developing a small water-power for domestic purposes on Frog creek in fractional section 17, township 56, range 3, west of the 4th meridian, was again raised with this department, and on October 20 last the writer secured a metering of the creek at the site. A discharge of 63 second-feet was recorded. In October 1914 a measurement was secured on Frog creek and at that time a discharge of only 0.2 second-foot was recorded.

In explaining the variation between the two measurements the applicant claims that the low flow recorded in 1914 was caused by the outlet of Frog lake being choked and silted up by sand and lake wash, and that the exceptionally large rainfall in that part of the country last year filled the lake and the high water scoured and cleaned out the outlet of the lake so that normal conditions are again likely to prevail on Frog creek. In view of the uncertainty of stream flow conditions, the applicant was advised to wait until additional discharge data has been secured before proceeding with the proposed development. An effort is now being made to secure further data relating to the stream flow.
No. 8.

REPORT ON THE WORK CARRIED ON BY THE DOMINION WATER POWER BRANCH IN CO-OPERATION WITH THE NOVA SCOTIA WATER POWER COMMISSION.

K. H. Smith, Resident Engineer.

SCOPE OF WORK.

In the summary report of this work for the year ending March 31, 1916 a brief sketch was given of water-power legislation in Nova Scotia, events leading to the appointment of the Nova Scotia Water Power Commission and to the co-operative arrangements made between the Dominion Water Power Branch of the Department of the Interior and the commission. The work of the year just ended has been entirely such work as is incident to the purposes and aims set out therein and involves a complete hydrometric survey of the province of Nova Scotia as well as power surveys and investigations in detail of all the more important rivers of the province.

PRECIPITATION AND EVAPORATION STATIONS.

All available precipitation data from existing meteorological stations in Nova Scotia have been co-ordinated and in co-operation with the Director of the Canadian Meteorological Service, Sir Frederic Stupart, several additional meteorological stations have been established. Evaporation stations have been established at Collegeville (Lochaber), Antigonish County, and Kedgemakooge, Annapolis County, where records of evaporation from free water surfaces are being obtained during the open water season.
HYDROMETRIC WORK.

Regular stream flow records were obtained during the year at the points listed hereunder:

<table>
<thead>
<tr>
<th>Number</th>
<th>Stream</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>E.o.2</td>
<td>Archibald Brook</td>
<td>Stillwater, Guysborough County</td>
</tr>
<tr>
<td>D.b.2</td>
<td>Bear River, East branch</td>
<td>Bear River above head of tide</td>
</tr>
<tr>
<td>D.p.1</td>
<td>East River Pictou, East branch</td>
<td>Eureka</td>
</tr>
<tr>
<td>D.p.2</td>
<td>East River Pictou, West branch</td>
<td>Eureka</td>
</tr>
<tr>
<td>E.m.1</td>
<td>East River, Sheet Harbour</td>
<td>Malay Falls</td>
</tr>
<tr>
<td>D.g.2</td>
<td>Fall River</td>
<td>Near Waverley</td>
</tr>
<tr>
<td>D.c.1</td>
<td>Gaspareau River</td>
<td>Highway crossing near Chester Basin</td>
</tr>
<tr>
<td>E.g.1</td>
<td>Gold River</td>
<td>Halifax and Southwestern Railway crossing</td>
</tr>
<tr>
<td>E.b.2</td>
<td>Indian River</td>
<td>Bruno's Bridge, West Northfield</td>
</tr>
<tr>
<td>E.f.1</td>
<td>Lahave River</td>
<td>Morgan's Falls, New Germany</td>
</tr>
<tr>
<td>E.f.3</td>
<td>Lahave River</td>
<td>Annapolis Electric Light plant, Lequille</td>
</tr>
<tr>
<td>D.c.1</td>
<td>Lequille River</td>
<td>Hydro Electric plant, Liscomb Falls</td>
</tr>
<tr>
<td>E.n.1</td>
<td>Liscomb River</td>
<td>Indian Gardens</td>
</tr>
<tr>
<td>E.d.1</td>
<td>Liverpool River</td>
<td>Prizzleton, C.B.</td>
</tr>
<tr>
<td>F.b.1</td>
<td>Margaree River</td>
<td>Charlottown</td>
</tr>
<tr>
<td>E.e.1</td>
<td>Musquodoboit River</td>
<td>Crawford's Falls</td>
</tr>
<tr>
<td>E.k.1</td>
<td>Nicta River</td>
<td>Nictaus Falls</td>
</tr>
<tr>
<td>D.c.2</td>
<td>Nicta River</td>
<td>Halifax and Southwestern Railway crossing</td>
</tr>
<tr>
<td>E.h.1</td>
<td>Northeast River</td>
<td>At Woodward's near Paradise</td>
</tr>
<tr>
<td>D.e.3</td>
<td>Paradise River</td>
<td>Oxford Electric Light plant</td>
</tr>
<tr>
<td>D.m.1</td>
<td>Phillip River</td>
<td>Lower Ohio</td>
</tr>
<tr>
<td>E.c.1</td>
<td>Roseway River</td>
<td>Neat Bate's Rock, head of pond from lower</td>
</tr>
<tr>
<td>E.d.1</td>
<td>Sackville River</td>
<td>pulp mill</td>
</tr>
<tr>
<td>D.b.1</td>
<td>Sissiboo River</td>
<td></td>
</tr>
<tr>
<td>D.g.1</td>
<td>Stewiacke River</td>
<td>Upper Stewiacke</td>
</tr>
<tr>
<td>D.e.1</td>
<td>St. Croix River</td>
<td>Hartville</td>
</tr>
<tr>
<td>E.o.1</td>
<td>St. Mary River</td>
<td>Stillwater, Guysborough County</td>
</tr>
<tr>
<td>E.a.1</td>
<td>Tusket River</td>
<td>West Gavelton</td>
</tr>
</tbody>
</table>

In addition, twenty-five miscellaneous measurements were made at twelve different places.

POWER INVESTIGATIONS.

Power surveys and investigations have been carried out on the following streams: Bloody creek, Dartmouth lakes, East river Sheet harbour, Fall river, Gaspareau river, Gold river, Indian and Northeast rivers, Kearney lakes, Lequille river, Liscomb river, Paradise river, Pennant river, Sackville river, West river Sheet harbour.

This work has involved a profile survey of the power sections of all these rivers with the exception of the Gaspareau, Indian and Northeast rivers, on which surveys made by private parties were available. In every case a great deal of reconnaissance work throughout the drainage basins was necessary including surveys at the outlets of all the more important storage basins. In the case of the Lequille and Paradise rivers, extensive surveys of all the storage basins were necessary. Some storage investigations remain to be carried out in connection with East river Sheet harbour.

REPORT TO THE NOVA SCOTIA WATER POWER COMMISSION.

A report was prepared for the Nova Scotia Water Power Commission covering in detail the entire hydrometric and water power investigations in Nova Scotia up to September 30, 1916. This report covers over 200 pages of printed matter besides the necessary illustrations and plans. It gives all hydrometric, precipitation and evaporation data collected to that date as well as detailed power reports on all the rivers.
listed above with the exception of Liscomb river, East river Sheet harbour and West river Sheet harbour.

Due to lack of sufficient hydrometric data, the estimates of power given for the various rivers covered in this report are necessarily of a preliminary nature. A summary of the power estimates is given hereunder.

Power Estimates at Certain Sites in Nova Scotia.

<table>
<thead>
<tr>
<th>Power site</th>
<th>Mean effective head in feet</th>
<th>Estimated continuous turbine horse-power at 85 per cent efficiency and regulated flow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bloody creek</td>
<td>400</td>
<td>309</td>
</tr>
<tr>
<td>Dartmouth lakes:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Foot of Sullivan pond</td>
<td>56</td>
<td>108</td>
</tr>
<tr>
<td>Head of Sullivan pond</td>
<td>11</td>
<td>21</td>
</tr>
<tr>
<td>Fort Walls locks</td>
<td>30</td>
<td>29</td>
</tr>
<tr>
<td>Fall river:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Foot of Miller lake</td>
<td>95</td>
<td>367</td>
</tr>
<tr>
<td>Head of Miller lake</td>
<td>60</td>
<td>197</td>
</tr>
<tr>
<td>Gasperau river</td>
<td>410</td>
<td>7,437</td>
</tr>
<tr>
<td>Gold river:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salmon falls</td>
<td>62</td>
<td>647</td>
</tr>
<tr>
<td>Lake Holden branch</td>
<td>140</td>
<td>406</td>
</tr>
<tr>
<td>Burned Potato falls</td>
<td>48</td>
<td>610</td>
</tr>
<tr>
<td>Long Run</td>
<td>40</td>
<td>406</td>
</tr>
<tr>
<td>Mosher falls</td>
<td>68</td>
<td>985</td>
</tr>
<tr>
<td>Indian and Northeast rivers combined at tidewater on the Indian river</td>
<td>93</td>
<td>1,976</td>
</tr>
<tr>
<td>Indian river, at Little Indian lake</td>
<td>85</td>
<td>1,232</td>
</tr>
<tr>
<td>Northeast river, at Little Indian lake</td>
<td>148</td>
<td>1,001</td>
</tr>
<tr>
<td>Kenney lakes:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>At tidewater</td>
<td>70</td>
<td>169</td>
</tr>
<tr>
<td>Head of Papermill lake</td>
<td>65</td>
<td>144</td>
</tr>
<tr>
<td>Lequille river</td>
<td>360</td>
<td>2,008</td>
</tr>
<tr>
<td>Paradise river</td>
<td>500</td>
<td>2,898</td>
</tr>
<tr>
<td>Pennant river:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>At tidewater</td>
<td>45</td>
<td>196</td>
</tr>
<tr>
<td>Head of Grand lake</td>
<td>28</td>
<td>68</td>
</tr>
<tr>
<td>Sackville river</td>
<td>140</td>
<td>947</td>
</tr>
</tbody>
</table>

Note: It is proposed that Salmon falls and lake Holden branch on the Gold river should form a single development and also that the Indian and Northeast rivers should be combined in a single powerhouse at the head of Little Indian lake. For details of all these developments, see "Progress Report, Nova Scotia Water Power Commission, 1916".

It is intended to continue the hydrometric work and water-power investigations in Nova Scotia until at least all the more important rivers of the province have been investigated.
No. 9.

REPORT OF THE CHIEF ENGINEER OF RECLAMATION.
T. H. DUNN, O.L.S., M.CAN. Soc. C.E.

Field operations were conducted in the following districts, viz:—

(1) Grand Rapids of the Saskatchewan.
(2) The Carrot river.
(3) Lake Winnipegosis.

In addition to the above an inspection of the Lake of the Woods was made during extreme high water.

One party was kept in the field under the immediate supervision of Mr. G. G. McEwen, B.A.Sc., from May 25 to October 28.

GRAND RAPIDS.

A topographical survey was made of the south bank of the Saskatchewan commencing at a point about midway of Grand rapids and extending upstream to a point above Red Rock rapids. The surface was contoured for a distance of from one to two miles from the river. The object of the survey was to secure sufficient information as to the surface elevation to permit the design of a dam for the development of power.

The district was reached by way of Pas and thence down the Saskatchewan river using a launch as far as the “Narrows” and canoes for the remainder of the trip. Work was commenced about the middle of June and continued for nearly four weeks. On the completion of the survey the party returned to Pas, where they arrived on July 15.

THE CARROT RIVER.

Work was commenced in this district about the middle of July and continued for seven weeks. At first fair progress was made in spite of the extreme height of the flood but the difficulty of getting axemen and other help to work in the water soon became serious and the survey had to be stopped altogether on this account.

The flood of 1915 was the highest recorded up to that time since gauging was started at Pas. The extreme height reached by the water in that year was 859.81 Public Works datum. The flood of 1916 was still higher and reached an extreme elevation of 869.38. This constitutes a record so far as government records go but there are evidences of the water having been higher at some earlier period. The information gained during the past season has introduced new data, the effect of which has been to materially alter the design previously suggested for the reclamation of the Carrot River triangle.

The flood of 1916 was extraordinary at least in so far as the Carrot river is concerned, because of the fact that the extreme conditions on the Saskatchewan combined with a very unusual flood on the Carrot, due to heavy rainfall in the Carrot River valley, caused the banks of the Carrot to overflow from its outlet to a point about four miles below the mouth of the Sipanok. At and near the mouth of the Sipanok the bank was only about one foot above the water while about twelve miles above the mouth of the Sipanok there is a small side channel leading from the Carrot to
the Sipanok entering at a point a few miles from its mouth. The banks of the Sipanok were also more or less flooded to the head of the first portage about eleven miles from its mouth. There was also increased flooding in 1916 along the south bank of the Saskatchewan. In the year 1915 the south bank of the Saskatchewan flooded only as far west as the Second Meridian but in 1916 it was also flooded for about seven miles across range 3, from the mouth of the Bigstone river west, and for about 15 miles across range 7 and a portion of range 6, from the head of the Cumberland Lake cut-off eastward.

The work of the season was a continuation of that planned and started in 1915, viz.: The running of a series of four north-and-south level lines across the flooded district from the Carrot river and Sipanok channel on the south to the Saskatchewan river on the north, the traverse and levelling of the Carrot river from its mouth to the mouth of the Sipanok channel and the cross-sectioning of the south bank of the Saskatchewan river at every bench mark established by the Department of Public Works from Pas up to the head of the Sipanok channel. During this season three lines were started from the Saskatchewan but none of these were completed. The first line was commenced about 18 miles west of the Second Meridian and was continued for 104 miles south from the Saskatchewan river. The second line was started about 31 miles west of the second meridian and was run south 74 miles. The third line was run 34 miles south from a point 41 miles west of the second meridian. If the three lines thus started are produced to the Sipanok it will require the opening up and levelling of about 27 miles of additional line.

So far as the district which has been called in these reports "The Carrot River triangle" has been explored it has been found to be, for the most part, low and wet with but few ridges of high land. In this respect it is somewhat disappointing since a fair percentage of high land so distributed as to be available for building purposes is of inestimable value in any scheme of reclamation by drainage.

Contrary to what has been previously supposed, the western portion of the flooded area is much flatter than the eastern portion. An examination of the profiles of the various cross lines shows that the only land having any tendency toward unevenness is that crossed by the second meridian and perhaps a very little in the extreme west end.

Along the second meridian there are three summits and two distinct depressions. At the north end of the line on the bank of the Saskatchewan the elevation is 877, at the south end on the bank of the Carrot it is about 873 and on the ridge a little north of the centre between these two rivers the maximum elevation is nearly 873. On each side of this central ridge there is a wide depression reaching to the Carrot on the south and to the Saskatchewan on the north. The north valley is traversed by the Birch river with its banks at elevation 863, while the south valley is traversed by a creek. In the south valley the average elevation of the ground is about 865. On the central ridge is located the Petabeck river, a branch of the Birch. From this it will be seen that the land on the meridian adjoining the Petabeck is about 10 feet higher than that adjoining the Birch and this represents almost the extreme difference of surface elevation along the second meridian. On this line the high water of 1915 in the Saskatchewan was 12 feet above the banks of the Birch while in 1916 it was 12.57 feet higher than the banks of the Birch.

On the next line to the west of the second meridian the elevation of the south bank of the Saskatchewan is 884. The surface drops down quickly to 875, from which it varies but little throughout the length of the line as far as run. There is a slight rise of about 3 feet for a very short distance at about 6 miles south, but south of this point the surface is level at about 872 to 873, is very wet and overgrown with willows.

On the second line west of the Second meridian the surface drops down from 895 on the south bank of the Saskatchewan to about 882 in the interior and is prac-
tically level at this elevation as far as the line runs. There is, however, a very slight rise and a very deep creek at the end of the line. The creek is without current and is believed to be identical with the one called Blind creek and thought to have been a side channel of the Saskatchewan at some former period.

The last line run is in the extreme west end and is only about 34 miles in length. The elevation at the bank of the Saskatchewan river is 901. It drops quickly to 896 but rises again about two miles south to 900 elevation, which continues to the end of the line.

From the information that has been obtained it is apparent that almost the whole of the interior of the Carrot River triangle lies considerably below high-water mark in the Saskatchewan for such years as 1915 and 1916. It is also apparent that, speaking generally, the slope of the whole district is eastward toward Saskeram lake but the fall is rather light. These two facts are alone sufficient to explain the conditions existing throughout the area, viz., a generally wet condition of the soil with complete flooding in the lower areas and in the eastern portion.

The comparatively high ground along the boundary rivers protects the western end from flooding in ordinary seasons, but the light surface slope and the absence of any very well-defined streams keeps the ground wet. The low banks at the east end, however, permit the flooding of the eastern portion to a considerable depth almost every year.

The question of extreme high-water mark is a very important one, and for this reason considerable attention has been paid to it and no opportunity for collecting information concerning extreme flood elevations has been neglected. In this connection it may be observed that high-water marks are plainly visible on the trees along the banks of the Sipanok channel at an elevation of about four feet above the banks. The real significance of the marks is not fully understood. They appear to indicate a flood of such extreme elevation as to turn the whole area from the head of the Sipanok channel to the Pasquia ridge and from the Pasquia hills to the north side of Cumberland lake into one immense lake. Under such conditions the Carrot River triangle would not be habitable as there would not be a single point of land above water in the whole area. It has been stated on good authority, however, that these high-water marks are not caused by the summer flood but by high water in the spring caused by an ice jam in the Saskatchewan river between the head of the Sipanok channel and the Cumberland lake cut-off. In the latter case it would not be serious, as the high water would last but a very short time, and the formation of an ice jam at this particular point is very unusual.

All the elevations given in the report of the Carrot River survey are referred to the assumed datum of the Department of Public Works. This datum is subject to a minus correction of 1-652 feet to bring it to sea-level datum according to the report of the Topographical Surveys Branch, 1916, by J. N. Wallace, D.L.S. On page 330 of this report the elevation of D.P.W. bench-mark 392 (formerly 79) is given as 865-685, while the elevation of the same bench-mark, referred to the assumed datum of the Department of Public Works, is 866-687. The elevation of this bench-mark referred to Hudson Bay railway datum is 839-01. The Water Power Branch gauge at the railway bridge at Pas is referred to this latter datum.

The information obtained in the year 1916 leads to the conclusion that a higher flood than that of the year 1915 should be provided for. Protection against such a flood, when augmented by an extraordinary rainfall in the Carrot River valley such as prevailed in the year 1916, requires not only the extension of the proposed embankment along the Saskatchewan river for some distance but also along the Carrot river to the mouth of the Sipanok channel and for a short distance along the Sipanok channel itself.

Under such extreme conditions it will also be necessary to provide a pumping plant of much greater capacity than previously planned owing to the fact that certain
areas that could be drained by gravity into the Carrot river under conditions similar to those prevailing in 1915 would, under conditions similar to those prevailing in 1916, have to be pumped. This additional plant and construction work would considerably increase the cost of the work but, nevertheless, the cost per acre would still be small and it is therefore advisable that the investigations be fully completed in order that construction may be commenced as soon as the demand for the land becomes sufficiently active.

**LAKE WINNIPEGOSIS.**

In the years 1914 and 1915 a short time was spent at the end of each season in examining Meadow portage and vicinity in order to secure information as to the cost of constructing a canal to lower lake Winnipegosis and at the same time to investigate the merits of two possible routes for such a canal. During the past season it was possible for the first time to make an examination of the shores of the lake in order to make a rough estimate of the area of low lying land adjoining the shore that would be directly benefited by lowering the lake. Estimates were made and published in former reports by the writer, but these estimates were based on such information as could be gleaned from township plans. Since, however, the township surveys did not extend north of township 41 any estimate based on them was necessarily very incomplete.

The work of 1916 was commenced on September 11 and continued for one month, during which time a reconnaissance of the northwest and west shores and a portion of the southeast shore was made. North of township 41 the land is unsurveyed and the location of the different points on the shore was fixed with reference to the physical features of the shore line and were marked on the map in their proper relative positions. The level was used in most cases to determine elevations and the contour of 6 feet above water level was taken as the boundary of the lands subject to overflow. Since the elevation of the lake at the time of the survey was 827, Water Power datum, the elevation of the limiting contour was 833. This would include all the land actually covered by water during periods of unusual floods but does not include all of the lands flooded at extreme high water. The elevation of the highest known water mark is 834.5. This is genuine water-mark, but nothing is known of the conditions existing at the time, and it may have been the result of a high wind blowing into the mouth of the Mossy river. It is known, however, that about sixteen years ago the water was very high all season and remained for a considerable time at a very high point where it left a well-defined mark, which is still plainly visible. This mark is at 834.11, Water Power datum, and represents the highest water within the memory of the result from lowering lake Winnipegosis.

The area of land below contour 833 is approximately 100,000 acres. This area would be damaged often, flooded occasionally, and at long intervals may be covered one foot in depth. This land is not at present sufficiently valuable to make the construction of a drainage canal at Meadow portage an economic proposition. As stated in a previous report, however, if worked out in conjunction with the development of power and navigation great benefits might be expected at inconsiderable cost. If also at the same time lake Manitoba be lowered but slight loss of head would result from lowering lake Winnipegosis.

**LAKE OF THE WOODS.**

During the unprecedented high water of July and August 1916 on the Lake of the Woods, an inspection was made in connection with the Lake of the Woods reference before the International Joint Commission, for the purpose of determining the effect of flooding on the lands and crops in particular and incidentally the general effect of the high water. Considerable time was spent on this work in company, during the
latter part of the season, with Mr. Hutcheon, Inspector of Surveys for the province of Ontario. Special attention was paid to the southwest shore of the lake, where there is considerable settlement and some lands under cultivation in addition to quite large areas of wild hay lands. All important cultivation areas adjoining the lake were visited as well as many districts, as yet uncultivated, where land is held by squatters or homesteaders. Most of the small streams running into the lake on the south and west can boast of one or more settlers and many of these streams were visited. Among those examined were Northwest Angle inlet and its three tributaries, Harrison, Poplar and Bear creeks, Stony creek, Willow and Zipple creeks, Big and Little Grassy and Rainy and Warroad rivers.

The northern part of the Lake of the Woods, being rocky and full of islands, has very little land suitable for agriculture along its shores. Small patches have been taken up at a few points but they are unimportant. The south part of the lake is a large body of open water with but few islands and low sandy or boggy shores. There is but little cultivated land adjoining the lake or its tributaries which is affected by high water and what there is is mainly located in the State of Minnesota. Owing to the late wet spring, the season was very unfavourable for grain and other crops except hay.
ANNUAL REPORT

OF THE

TOPOGRAPHICAL SURVEYS BRANCH

1916-17

PRINTED BY ORDER OF PARLIAMENT.
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1. Map to illustrate progress of Dominion Land Surveys to March 31, 1917.

2. Map showing topography and profiles of base lines and meridians run during the year.
REPORT
OF THE
SURVEYOR GENERAL OF DOMINION LANDS

Owing to the falling-off of immigration the Dominion Lands Surveys appropriation for 1916-17 was reduced to $976,800. In accordance with the department's general policy of retrenchment during the war, a further saving of $202,050 was made, the amount expended being only $774,250, or $269,250 less than the previous year. As a consequence, the number of parties in the field was reduced to fifty, the smallest number for several years.

BLOCK OUTLINE SURVEYS.

In recent times settlers have been following down the great waterways of the North and forming settlements in remote districts. This necessitated the extension of meridian and base line surveys to include those settlements in the Dominion Lands system. The extension of these lines is now so far advanced that the number of base line survey parties could be reduced to three. The total mileage surveyed was 508, somewhat larger average than for the preceding year.

One of these parties surveyed short portions of base lines east and west of the Sixth meridian from township 92 to township 112. This will allow of the subdivision into townships of all the land in this latitude and west of Peace river which is suitable for settlement. The surveyor reports a stretch of good, fairly open country between Peace river and the Sixth meridian and north of township 100; he also reports an area near Hay lake, which lies in the vicinity of township 112 and about thirty-six miles west of the Sixth meridian, where thousands of tons of first-class wild hay could be cut in a season. The surface of the land in this district is, as a rule, lightly wooded with poplar and willow, but a few stretches of heavy spruce and poplar were found, the trees measuring up to twenty-four inches in diameter.

A second party surveyed base lines in the lower Peace river valley, just west of lake Athabaska. This area is very level and during high water parts of it are flooded. The soil is alluvial and patches of swamp and muskeg are frequent. The district is excellent for stock raising as hay grows in abundance in all the open places and vast stretches of hay meadows are found, more especially south of the 29th base line (the north boundary of township 112). On the ridges some good timber grows, consisting of spruce, birch, poplar, tamarack, and willow.

The third party ran portions of the 19th and 20th base lines just east of the Fourth meridian in the drainage area of Churchill river. The original forest growth has been burned off and the district has so often been fire swept that the accumulation of mould is nowhere deep. A large block along the 20th base line (north boundary of township 76) contains considerable good land. The surface is generally rolling, and the district is most suitable for ranching as good hay grows almost everywhere, especially in the fire swept areas. Along Beaver and Churchill rivers are numerous rapids, and in many cases the fall is such that a large amount of power could be developed. This may yet prove very valuable.

TOWNSHIP SUBDIVISION.

The subdivision of townships was again carried on under daily pay, work by contract having been discontinued. The results give additional proof that the present method is much more satisfactory in every way.
Fifteen parties were engaged on regular subdivision, one operating in Manitoba, three in Saskatchewan, and eleven in Alberta. The trend of settlement was found to be still strongly towards the Peace river district, due partly to the large amount of desirable land in that locality and partly to the newly-constructed line of the Edmonton Dunvegan and British Columbia railway. As a consequence, nine of the eleven parties operating in Alberta were scattered over that district, one of these being southwest of Lesser Slave lake, two southeast of Dunvegan, two in the Peace River block, and four in the Peace river valley north of the town of Peace River. Of the remaining two parties in Alberta, one was working southeast of Lac La Biche and the other along the line of the Alberta and Great Waterways railway, now being constructed. When this line has been completed to McMurray a decided impetus will be given to the settlement of that district.

The three parties in Saskatchewan were working north of Prince Albert. To facilitate settlement around Torch and Candle lakes the Provincial Government is improving the road leading to the district from the south.

The party in Manitoba subdivided lands along the east shore of lake Winnipeg in the vicinity of the mouth of Bloodvein river.

### Regular Township Subdivision, 1916.

<table>
<thead>
<tr>
<th>Surveyor</th>
<th>Total mileage</th>
<th>*Total cost.</th>
<th>Cost per mile.</th>
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<tr>
<td>Baker, J. C.</td>
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<td>18,396</td>
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<td>Brenot, L.</td>
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<td>Buchanan, J. A</td>
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<td>Christie, W.</td>
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<td>Fawcett, S. D.</td>
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<td>37.98</td>
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<td>Glover, A. E.</td>
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<td>17,908</td>
<td>40.06</td>
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<tr>
<td>Jackson, J. E.</td>
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<td>12,902</td>
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<tr>
<td>Johnston, J. H.</td>
<td>538</td>
<td>18,413</td>
<td>34.22</td>
</tr>
<tr>
<td>Knight, R. H.</td>
<td>532</td>
<td>18,224</td>
<td>34.26</td>
</tr>
<tr>
<td>Lighthall, A</td>
<td>537</td>
<td>17,838</td>
<td>32.02</td>
</tr>
<tr>
<td>McEwen, D. F.</td>
<td>504</td>
<td>17,741</td>
<td>35.21</td>
</tr>
<tr>
<td>McGarry, P. J.</td>
<td>438</td>
<td>17,827</td>
<td>38.92</td>
</tr>
<tr>
<td>Norrish, W. H.</td>
<td>436</td>
<td>18,229</td>
<td>41.81</td>
</tr>
<tr>
<td>Pierce, J. W.</td>
<td>608</td>
<td>15,690</td>
<td>25.81</td>
</tr>
<tr>
<td>Seibert, F. V.</td>
<td>686</td>
<td>18,271</td>
<td>26.63</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>7,695</strong></td>
<td><strong>262,789</strong></td>
<td><strong>34.15</strong></td>
</tr>
</tbody>
</table>

*Total cost includes depreciation of the outfit used.

The comparison between subdivision under contract in 1914 and subdivision by day work in 1915 and 1916 is given below:

<table>
<thead>
<tr>
<th>Year</th>
<th>Method</th>
<th>No. of Parties</th>
<th>Miles surveyed</th>
<th>Total cost.</th>
<th>Cost per mile.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1914</td>
<td>Contract</td>
<td>18</td>
<td>7,686</td>
<td>229,303</td>
<td>29.83</td>
</tr>
<tr>
<td>1915</td>
<td>Day work</td>
<td>19</td>
<td>8,612</td>
<td>260,592</td>
<td>30.26</td>
</tr>
<tr>
<td>1916</td>
<td>Day work</td>
<td>15</td>
<td>7,695</td>
<td>262,789</td>
<td>34.15</td>
</tr>
</tbody>
</table>
The above statement shows the cost per mile of subdivision surveys under daily pay in 1916 as being four dollars and thirty-two cents more than for contract work in 1914. The chief reason for this is that in 1916 for the first time, levels were taken in connection with the subdivision by all of the regular parties engaged on this work; the cost is included in the total cost of survey, and is approximately three dollars per mile for the total miles of subdivision. In 1915 levelling was carried on by only four of the parties, and in order that a comparison of the parties could be made on an equal basis, the cost of levelling was deducted.

If the same deduction were made for 1916 the comparative costs would be as follows:

<table>
<thead>
<tr>
<th>Year</th>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1914</td>
<td>Contract</td>
<td>$29.83</td>
</tr>
<tr>
<td>1915</td>
<td>Day work</td>
<td>$30.20</td>
</tr>
<tr>
<td>1916</td>
<td>Day work</td>
<td>$31.15</td>
</tr>
</tbody>
</table>

Since 1914 the increase in the prices of food is 30 per cent, survey labour 25 per cent, equipment and other expenses 10 per cent, an average of 22 per cent. A survey which, under contract, cost $29.83 in 1914 would have cost $30.39 in 1916, while the actual cost for the same survey by day work was only $31.15. The result is most gratifying.

In addition to the fifteen parties engaged on regular subdivision, five parties were employed in the railway belt of British Columbia on subdivision, traverse, and resurvey. Three parties were also engaged making subdivision surveys in northern Manitoba, where only small portions of the townships were required for settlement.

**Inspection of Surveys.**

The abandonment of the contract system of performing subdivision surveys has greatly reduced the cost of inspection. In the past, five or six inspectors, each with a party, were engaged all or part of the season; last season only two surveyors were employed on this work, having no regular party with them and having only such assistance as was required for transportation, etc. Formerly only the parties working under contract were inspected, these being engaged on regular township subdivision. Under the present system an inspection is made of all the parties in the field. But though the number of parties examined has increased, the work of inspection is much less. In the past a considerable number of the surveyed lines in each township had to be checked for chainage and bearings to make sure that the work had not been carelessly performed. As contractors were paid according to the number of miles surveyed, there was every incentive for them to sacrifice accuracy for speed. Under the present system of daily pay there is no reason for the surveyor to slight his work, and the method of inspection has been modified to suit the changed conditions. The inspector now examines the surveyor's work by observing the actual methods employed in the various operations of chaining, levelling, turning angles, building monuments, offsetting survey posts, cutting out and blazing lines, etc. He furnishes a report on the methods of survey and of keeping the field notes and accounts, the instruments and equipment, and on the organization, general management, and efficiency of the party. In addition to this, the inspectors attend to the disposal of worn-out and unused outfits, the arranging for the wintering of the horses and other general business of this nature.

**Water Areas.**

The object of the stadia surveys is to revise quickly and at a moderate cost the survey of rivers, lakes and other bodies of water in townships subdivided many years ago. The drying up of these bodies of water has rendered the old township plans
unsatisfactory for the issuing of patents, and traverses of these bodies are necessary before new plans can be issued. Eleven surveyors were employed on stadia traverses in Saskatchewan and Alberta. They also reported on the progress of settlement, the amount of land under cultivation, the progress of grading on road allowances, and the condition of the survey monuments encountered.

The following table gives a synopsis of their work for the season:—

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Bennett, G. A.</td>
<td>71</td>
<td>554</td>
<td>356</td>
<td>544</td>
<td>131</td>
<td>135</td>
<td>8</td>
<td>581</td>
<td>6.145</td>
<td>751</td>
<td>865</td>
</tr>
<tr>
<td>Bowman, E. P.</td>
<td>38</td>
<td>118</td>
<td>305</td>
<td>479</td>
<td>189</td>
<td>173</td>
<td>47</td>
<td>888</td>
<td>5.665</td>
<td>672</td>
<td>1566</td>
</tr>
<tr>
<td>Boulton, W. J.</td>
<td>81</td>
<td>0</td>
<td>344</td>
<td>446</td>
<td>308</td>
<td>143</td>
<td>38</td>
<td>933</td>
<td>6.496</td>
<td>694</td>
<td>800</td>
</tr>
<tr>
<td>Cowper, G. C.</td>
<td>93</td>
<td>81</td>
<td>185</td>
<td>190</td>
<td>100</td>
<td>42</td>
<td>16</td>
<td>443</td>
<td>5.843</td>
<td>139</td>
<td>623</td>
</tr>
<tr>
<td>Davies, T. A.</td>
<td>38</td>
<td>180</td>
<td>333</td>
<td>338</td>
<td>0</td>
<td>0</td>
<td>120</td>
<td>688</td>
<td>5.382</td>
<td>811</td>
<td>988</td>
</tr>
<tr>
<td>McNaught, J. H.</td>
<td>30</td>
<td>55</td>
<td>334</td>
<td>681</td>
<td>36</td>
<td>101</td>
<td>7</td>
<td>829</td>
<td>5.697</td>
<td>657</td>
<td>188</td>
</tr>
<tr>
<td>Palmer, P. E.</td>
<td>76</td>
<td>114</td>
<td>133</td>
<td>151</td>
<td>352</td>
<td>93</td>
<td>94</td>
<td>690</td>
<td>6.011</td>
<td>871</td>
<td>799</td>
</tr>
<tr>
<td>Rinfret, C.</td>
<td>82</td>
<td>142</td>
<td>258</td>
<td>365</td>
<td>64</td>
<td>83</td>
<td>59</td>
<td>574</td>
<td>6.293</td>
<td>1096</td>
<td>764</td>
</tr>
<tr>
<td>Scott, W. A.</td>
<td>76</td>
<td>252</td>
<td>286</td>
<td>344</td>
<td>265</td>
<td>100</td>
<td>20</td>
<td>660</td>
<td>5.716</td>
<td>84</td>
<td>735</td>
</tr>
<tr>
<td>Soars, H. M. R.</td>
<td>33</td>
<td>145</td>
<td>328</td>
<td>550</td>
<td>107</td>
<td>88</td>
<td>6</td>
<td>737</td>
<td>5.736</td>
<td>735</td>
<td>175</td>
</tr>
<tr>
<td>Walker, C. M.</td>
<td>31</td>
<td>51</td>
<td>374</td>
<td>492</td>
<td>6</td>
<td>120</td>
<td>22</td>
<td>640</td>
<td>5.712</td>
<td>893</td>
<td>105</td>
</tr>
<tr>
<td></td>
<td>652</td>
<td>1,692</td>
<td>3,109</td>
<td>4,814</td>
<td>1,588</td>
<td>1,198</td>
<td>327</td>
<td>7,927</td>
<td>63.169</td>
<td>822</td>
<td>99</td>
</tr>
</tbody>
</table>

ALBERTA—BRITISH COLUMBIA BOUNDARY.

The delimitation of the interprovincial boundary between British Columbia and Alberta, commenced in 1913, was continued under the same arrangements as for the preceding year. Mr. R. W. Cautley, D.L.S. and A.L.S., who acted for the Dominion and Alberta was employed on the actual work of establishing the boundary and erecting the monuments, while Mr. A. O. Wheeler, B.C.L.S., who represented British Columbia, made a photo-topographical survey of the surrounding country. The boundary was defined last season through Palliser, White Man, and Assiniboine passes, this completing the survey from the international boundary to the main line of the Canadian Pacific railway. The report of the commissioners for this part of the work is now being prepared and will probably be issued during the present calendar year.

SETTLEMENTS AND TOWNSITES.

This work was very limited last season. Small settlements were surveyed at Birch River, Norway House, Carrot River, Menisino, and Bedford Station in Manitoba, together with a few scattered lot, cemetery, and townsite surveys in the other provinces.

TIMBER BERTHS AND MINERAL CLAIMS.

Two timber berths and parts of three others, comprising thirty-six miles of boundary, were surveyed.

Before patents can be issued for mineral claims they must be surveyed by a duly qualified Dominion Land Surveyor under instructions of the Surveyor General. Forty-one claims were surveyed, the majority being gold-mining claims in Manitoba in the vicinity of Herb lake northeast of Pas, and Rice lake east of the southern part of lake Winnipeg.
SESSIONAL PAPER No. 25b

RETRACEMENT AND RESURVEY.

Townships which were subdivided twenty-five or thirty years ago were not as carefully done as at present. In many cases also no trace of the original survey can be found. Even where the survey was marked by iron survey posts of the old style these were often removed by persons ignorant of their importance, or by those interested in destroying evidences of the survey. Although there is a $50 reward for evidence of this offence few convictions have been secured, and posts are still being displaced. When the survey marks are removed it is difficult for the settlers to find their boundaries, and it is the policy of the department to renew the monuments where the lands cannot be located. This is done only in cases where at least part of the lands affected are still vested in the Dominion.

In some cases the original survey was poorly executed, and a quarter-section returned as one hundred and sixty acres was often as much as forty acres over or under that area.

The correction of these errors is made under the authority of section 57 of the Dominion Lands Surveys Act, and the restoration of obliterated monuments under section 58 of the same act. The Department of Justice has recently ruled that these sections are not applicable to lands which have passed from the Dominion prior to the date on which the act was assented to, unless authorized by the legislature of the province in which the lands are situated. The provinces of Saskatchewan and Alberta have passed acts authorizing these surveys but Manitoba has not.

Three parties were engaged in restoring obliterated monuments, retracing old lines, and making resurveys where there was authority for doing so. They retraced or resurveyed 1,369 miles, besides running 110 miles of traverse.

Some of the early surveys of base lines and initial meridians were not very accurate, both in direction and measurement. As these lines are the governing lines of all other surveys a knowledge of their deviations and discrepancies is necessary for the management of the system of survey as a whole. One party was employed retracing old base lines where inaccuracies were suspected, over 500 miles of line being thus surveyed.

Four surveyors, each with an assistant only, were employed in travelling through Manitoba, Saskatchewan, and Alberta, attending to complaints, correcting errors, erecting monuments, and making various adjustments where the amount of work to be done at any one place did not warrant the expense of a survey party. They hired assistance locally when required.

YUKON SURVEYS.

In the Yukon Territory the work is mostly in connection with mining claims and is under the supervision of the Director of Surveys who resides at Dawson. He is assisted in the office by one draftsman.
### DEPARTMENT OF THE INTERIOR

#### STATEMENT OF MILEAGE SURVEYED.

The following is a comparison of the mileage surveyed each year since 1914:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Miles</td>
<td>Miles</td>
<td>Miles</td>
</tr>
<tr>
<td>Township outlines</td>
<td>3,270</td>
<td>2,725</td>
<td>1,952</td>
</tr>
<tr>
<td>Section lines</td>
<td>7,100</td>
<td>7,324</td>
<td>5,745</td>
</tr>
<tr>
<td>Traverse</td>
<td>5,141</td>
<td>7,234</td>
<td>9,706</td>
</tr>
<tr>
<td>Resurvey</td>
<td>2,544</td>
<td>3,441</td>
<td>2,355</td>
</tr>
<tr>
<td>Total for season</td>
<td>18,055</td>
<td>20,924</td>
<td>19,758</td>
</tr>
<tr>
<td>Number of parties</td>
<td>39</td>
<td>33</td>
<td>41</td>
</tr>
<tr>
<td>Average miles per party</td>
<td>307</td>
<td>395</td>
<td>482</td>
</tr>
</tbody>
</table>

The number of parties, which, owing to the nature of their work, cannot be included in this statement is nine this year. The survey of the forty-one parties cost $535,024, the average cost per mile being $27.08 as compared with $30.05 in 1915.

#### OFFICE WORK.

**FIRST DIVISION—GENERAL INFORMATION.**

The work performed by this division consists, in general, of the answering of requests for information concerning surveys received from the general public and from other branches and departments, the issuing of all preliminary township plans, the entering of all survey returns in the various registers, the issuing of the annual report and other publications of the branch, and special work of various kinds such as the drafting of formal descriptions of land, etc.

Formerly the drafting of instructions for the surveyors in charge of parties in the field was carried on by this division, but a new division has now been formed under the charge of the Supervisor of Field Work and Accounts, and the drafting of instructions, has been taken over by them. The plans and sketches to accompany the instructions, however, are still prepared in this division. These show all information about the section lines already surveyed, as well as about any Indian or forest reserves, townsites, settlements, etc., which are located in the townships to be surveyed. About 3,000 of these plans and sketches are required each year.

The distribution of the publications issued by this branch, including plans, maps, and pamphlets is attended to by this division. The number distributed each year amounts to many thousands.

All returns from surveyors in the field are received here and are entered up in the various registers. They are then sent on to another division for examination and compiling, after which they are returned for the purpose of being placed on record.

Formal descriptions for insertion in land patents and licenses of occupation are drafted by this division, especially in cases where the boundaries of a parcel are very irregular and the descriptions consequently complicated.
SESSIONAL PAPER No. 25b

Since the first Manual of Instructions for the Survey of Dominion Lands was issued in 1871 there have been many changes in the character of the boundary monuments erected at township, section, and quarter-section corners. The importance of having exact information in regard to such monuments cannot be over-estimated, both for the surveyors in the field engaged on resurveys and similar work, and for the office staff in dealing with the returns of old surveys. In the past such information was not readily available as it existed only in the old manuals of which very few are now to be had, and in the old departmental reports. A pamphlet has been prepared entitled "Description of Boundary Monuments Erected on the Survey of Dominion Lands, 1871-1917," giving complete information as to the character of all monuments used year by year on Dominion Land surveys since the beginning of the season of 1871. The pamphlet is fully illustrated and indexed, and will be of great value for office work. It should also be of material assistance to all surveyors engaged on surveys in the western provinces. It is now almost ready for the printers, and will probably be issued in about three months.

In addition to the annual report of the branch and the pamphlet on boundary monuments, two other publications were issued. One is the third edition of the pamphlet entitled "Description of the Surveyed Townships in the Peace River District in the Provinces of Alberta and British Columbia." The other publication, issued for the first time, is the "List of Maps and Publications Issued by the Topographical Surveys Branch and Available for Distribution."

The preparation of an index of the maps in the collection of the Geographic Board has been undertaken. These maps, more than 1,000 in number, include charts covering Canadian waters published by the British Admiralty, the Canadian Hydrographic Survey, the United States Lake Survey, the United States Coast and Geodetic Survey, and the French Admiralty; maps published by the Department of the Interior, the Geological Survey, the Department of Militia and Defence, the Provincial Governments; and maps from other sources.

The index will be in two different forms, one graphical and the other numerical. The first will consist of eleven sheets or maps about fifteen inches by twenty-one inches. These will show only the most important topographical features of the country, and will have the various maps plotted on them in the form of rectangles. Sheet No. 1 will be of the whole Dominion, on a scale of about 200 miles to an inch, and will show maps of which the largest dimension covers at least 400 miles. The other ten sheets which are on larger scales and which, combined, cover the whole Dominion, will show the smaller maps in the same manner. The numerical part of the index will contain a list of all these maps arranged according to the numbers assigned them on the graphical index, and giving for each map the title, publisher, size, scale, and the year of publication. The work is now well in hand, and will be ready for the printers in two or three months.

SECOND DIVISION—EXAMINATION OF RETURNS OF SURVEY.

The British Columbia surveys division having been merged into this division, the work now comprises the examination of the returns of survey of all Dominion lands, together with the preparation of all official plans thereof. It includes the examination of topographical and boundary surveys, of all mineral claim surveys, and of all plans of railways and provincial roads.

In the early part of the year the staff is engaged upon the examination of the surveys of the preceding year. In the summer and autumn, the surveyors' progress reports and the stadia surveyors' field notes and plots are received and examined. As in past years, a number of the stadia surveyors came into the office for about three months during the winter to assist with the preparation of the official township plans showing their positions.
The official plans now indicate by what surveyor each monument was erected or last restored. This additional information adds greatly to the value of the plans but takes considerable time to procure. This is especially the case in the surveys in the railway belt in British Columbia which are often quite complicated, a large number of surveyors having worked within the area shown on a single official plan. In the past a small additional survey could be added to the previously compiled plan in a short time, but with the introduction of the new method it becomes necessary to investigate each monument shown on the previous plan, besides adding the new survey. As a result the number of plans completed this year, 795, is considerably less than in former years, although a large number of others are in various stages of preparation.

An arrangement has now been adopted whereby certain plans of survey of Dominion lands previously objected to by the Manitoba Land Titles Office may now be brought under the operation of the Real Property Act, and the patentees may obtain certificates of title.

The maps and report of the Commission for the survey of the boundary between Alberta and British Columbia were examined and prepared for publication. The report, which covers the work of four years, will be issued at an early date.

The maps of the Jasper Park, Crowsnest Forest, and Waterton Lakes Park Surveys were also examined and prepared for publication.

Another increasing part of the work is the preparation of special plans of quarter-sections for the Land Patents Branch. Cases arise where the plan of a township does not correctly show some particular quarter-section for which it is required to issue patent. It may not be feasible to issue a new township plan, but a plan of the particular quarter-section is compiled, sufficient copies being made by hand in the Drafting Division for attaching to the patent sent to the Registrar of the Land Titles Office, and to the copy of the patent registered in the department, as well as for those offices where the plans are necessary for reference.

A record of the mileage of the provincial road plans examined has been kept; it shows a mileage of 883 for the 576 plans examined. Owing to the unsatisfactory plans of the Battleford-Swift Current trail, surveyed for the most part before subdivision of the townships, it was in many cases impossible to determine through which quarter-sections the trail actually passed. The whole trail, 183 miles in length, has been re-plotted from the original field notes and from ties shown in the subdividers' field notes, with very gratifying results.

Railway plans to the number of seventy-five were examined, the total mileage being 861. The work on Yukon maps has been continued in the district north of Tantalus and west of Dawson.

The reports from the travelling inspectors on the personnel, organization, efficiency, and work of the survey parties are noted and where any recommendations are made concerning the conduct of the survey such recommendations are communicated to the surveyors.

Considerable time was devoted in co-operation with the inspector of surveys amending the method of subdivision of townships and the consequent revision of the Manual of Surveys, and to the design and preparation of new and suitable blank field books for the use of surveyors in the field.

THIRD DIVISION—DRAFTING.

In other divisions of the branch, returns of survey are examined and plans compiled. Naturally the compiler's chief concern is the collecting of accurate information, such matters as neatness, arrangement, lettering, and appearance being secondary. The work of the Drafting Division consists mainly in re-drawing these plans neatly for photographing for reproduction.
SESSIONAL PAPER No. 25b

Additions have been made to the office equipment which greatly facilitates this work. They consist of a new tracing frame and a card index.

The tracing frame is larger than any previously used. The light is shut out by a curtain suspended from the ceiling in the form of a rectangle enclosing the frame, and leaving a clear space of about two feet on all sides of it. Above and below the curtain are open spaces to permit the air to circulate freely and give good ventilation. The advantages of this form of curtain over the hood type in which the curtain is quite close to the draftsman are apparent. The card index system has been adopted for recording township plans while being prepared for printing, and in connection with it a follow-up system traces the progress of all printing, through the various stages of drafting, photographing, proving, and printing.

The great majority of the plans drafted are plans of townships. To facilitate the work, printed forms of the roads, section numbers, and quarter-section lines of a regular township are used, requiring only the addition of the topography and the descriptive and numerical data. Townships, in part irregular, are re-drawn on a regular form printed in pale blue so that it is necessary for the draftsman to draw in black the regular part of the survey as shown in blue, and to depart from the standard blue form only where irregularities occur. The plans are reproduced by photography so that any of the blue form which has not been made black does not photograph.

At the end of last fiscal year there were 509 plans of townships on hand to be prepared for photographing. These have all been done, together with most of those received from the compilers during the year, so that we have now only 109 on hand. During the year 1,150 have been prepared, a number about 300 in excess of any previous year's work. This is accounted for by the clearing up of the large amount of work on hand at the beginning of the year.

Surveyors' sketch maps have been drawn and printed in the same way as last year, i.e. colours and symbols are used to describe the soil, timber, and other vegetation. The maps show the profiles along 960 miles of base lines surveyed, and the general character and topography of 654 townships or 23,544 square miles adjoining these lines.

The contour map of Jasper and vicinity, in four sheets on a scale of 1:10,000 or 6,336 inches to a mile with contour intervals of ten feet in the more level portions and twenty feet where slopes are steep, has been printed in four colours for office use. The map of Crowsnest Forest and Waterton Lakes park in five sheets, scale 1:62,500 or 1,014 inches to a mile with contour interval of 100 feet, is still with the printers but may be expected shortly. A third map of the central part of Jasper park in six sheets with scale and contour interval similar to the Crowsnest Forest map is also well under way. Astronomical Field Tables for use of Dominion Land Surveyors were prepared as in previous years, and also a number of such tables modified to suit the requirements of surveyors not operating on Dominion lands. Twenty-nine plans to accompany orders in council, eleven jobs of printing on the small Gordon press, twenty-three miscellaneous plans, and thirty-six other miscellaneous jobs were completed. The sectional maps are still distributed by one of the clerks of this division who also checks the stock from time to time so that the maps may be reprinted if necessary.

FOURTH DIVISION—MAPPING.

In the compiling room eight new sectional maps were prepared covering territory recently reached by base line surveyors. Three of these new sheets are in the region of lake Winnipeg and the other five are in northern Alberta. The area thus for the first time mapped with some degree of accuracy is about 30,000 square miles, being considerably larger than the province of New Brunswick. Revised editions were made of seventeen sheets and six others are in hand. The total number of sectional maps is now 128 covering an area of approximately 500,000 square miles.
DEPARTMENT OF THE INTERIOR

8 GEORGE V, A. 1913

In the surveys office at Calgary a scheme of contour lines is being worked out for all sectional maps covered by the network of base and meridian lines on which accurate levels have been taken. The contour interval is twenty-five, fifty, or one hundred feet, depending on the nature of the country. Five maps have been dealt with, three being new sheets and the other two revised editions. The contour lines will be shown in brown and will replace the hachures at present in use on the maps.

The method adopted two years ago of finding out the exact location of post offices and railway stations by sending diagrams to the postmasters, has been continued and with good results. Nine hundred and fifty diagrams of post offices on twenty sectional maps were sent out, and nine hundred and five were returned corrected.

Other work done in the office, but not directly connected with sectional maps, was as follows:—

(1) The surveyors' reports received from April 1, 1915, to March 31, 1916, were prepared and printed in five pamphlets containing 170 pages. The preparation of reports for the year ended March 31, 1917, is well advanced.

(2) The sixth volume of reports of surveyors, being extracts from reports for townships 17 to 32, west of the Second meridian, is in hand, but progress is slow as only one man can be spared for the work and that for only part of the time.

(3) Parties employed on the survey of base and meridian lines penetrate far beyond all previous surveys and often reach districts of which very little is known. For this reason there is attached to every party an explorer whose duty it is to explore for twelve miles on each side of the line as the survey progresses. From the explorer's reports and sketches, combined with the returns of the survey of the line, a "sketch map" is made up showing the topography of the country along the line and for twelve miles on each side, with copious notes to indicate the kind of timber, the nature of the soil, etc. A scheme has been devised by which this information is shown by tints and symbols, and the notes which so tend to disfigure the maps have been reduced to a minimum. Three maps were worked out on this basis and accompany this report. They represent 568 miles of line run and cover an area of approximately 12,500 square miles.

(4) Eleven odd jobs were undertaken, the time required for each varying from one-half day to one week.

In the drafting room where the compiled maps are drawn for reproduction by photo-lithography one man has been engaged exclusively on maps of the Alberta-British Columbia boundary and the remainder on the sectional maps, preparing new sheets and revised editions for publication.

FIFTH DIVISION—SPECIAL SURVEYS.

Base Line Surveys.

Three parties were engaged in the survey of base lines. The required information for these surveys was prepared and the returns of survey are being examined. For several years past surveys of governing lines have been carried on within a fertile belt of twenty-seven million acres through which flow the lower waters of the Peace and Athabaska rivers. This block lies between the Fourth and Sixth meridians, and extends from township 58 to township 112. Surveys of governing lines in this block are now almost completed, four base line closings having been made therein during the past year. Of Dominion Lands surveys, those in this block are farthest north, the 29th base between the Fifth and Sixth meridians being 676 miles north of the international boundary, while the Sixth meridian has been produced to a point eighty-seven miles still farther north. Where the surveys have extended to such great distances there is danger of accumulations of error and consequent misplacement of monuments. Considerable care therefore has been exercised, and time spent in checking the records.
of these surveys to ensure the establishment of monuments as nearly as possible in their correct latitudes. Some required adjustments in the positions of corners in this block were recommended, and these were made during the survey of the lines. The results of the surveys in this block are very satisfactory, monuments being very nearly in correct latitudes, and the majority of the closings agreeing very well with the computed values.

Some time was required for keeping the records of monuments erroneously established, computing the changes required for the correction of these, and registering when and by whom these corrections were made. Three surveyors received instructions for the correction of monuments originally placed in error.

Over 500 miles of old base lines and meridians were retraced during the year. The required information for these surveys was prepared and the returns of survey are being examined. These retracements were required in connection with the examination which is being made of old bases and meridians, and a report on this work is being prepared. No latitude observations with the zenith telescope were made during the year.

Astronomical Work.

Azimuth Observations.—All the azimuth observations taken on base lines and meridians during the summer season of 1915 and the winter season of 1915-16 have been received at this office and examined. This examination consisted of the checking of 1,275 individual observations on Polaris taken at 450 stations and controlling the bearings of over one thousand miles of original governing survey lines and seven hundred miles of retracement survey lines. The average length of line depending on a set of observations has during the past season been reduced to 3.8 miles. This fact is considered worthy of notice, especially when the speed at which the line is now produced is taken into consideration, as it necessitated the taking of a set of azimuth observations on almost every second day that the line was being produced. The following table gives a comparison of the results obtained during the season of 1915 with preceding years in triennial periods:

<table>
<thead>
<tr>
<th></th>
<th>1909</th>
<th>1912</th>
<th>1915</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average correction per mile of line</td>
<td>5°5</td>
<td>2°1</td>
<td>1°8</td>
</tr>
<tr>
<td>Miles of line per azimuth station</td>
<td>4°3</td>
<td>4°5</td>
<td>3°8</td>
</tr>
<tr>
<td>Average number of observations per azimuth station</td>
<td>1°6</td>
<td>2°6</td>
<td>2°8</td>
</tr>
<tr>
<td>Average range of observations at an azimuth station</td>
<td>17&quot;</td>
<td>9&quot;</td>
<td>9&quot;</td>
</tr>
</tbody>
</table>

This comparison shows that while very marked improvement took place in the earlier years of close supervision by this office over the work in the field, only a merely noticeable improvement has been obtained since. This fact would seem to indicate that further improvement in the work of the surveyor as regards azimuth observing and the accurate production of the line in bearing cannot reasonably be expected and indeed such improvement is not in any way necessary as the work now being done is considered well within the limits which practical considerations indicate as desirable.

Astronomical Field Tables.—The tables giving the right ascension and declination of the sun, and those tabulating the azimuth of Polaris were compiled and printed. A change in the latter was made to reduce somewhat their maximum error.

The general method of determining the azimuth of a line is to measure the angle between a mark on the line and one of the heavenly bodies, to compute the azimuth of the latter at that time, and from this to compute the azimuth of the line. For this purpose the tables of the Topographical Surveys were compiled, giving the azimuth of the Pole Star without any computation other than interpolation for latitude and time. The azimuth depends on the right ascension and declination of Polaris, the latitude of the place, and the hour angle of the star, the first two of which, in computing the tables, are considered constant, the other two variable. But this assumption is not strictly correct, and for a fixed latitude and time, the azimuth is varying
slightly from day to day. To assume a mean position of the star for a certain period produces an error, the magnitude of which depends on the period chosen. Some time ago, the position of the star during November and December, September and October, and July and August of three consecutive years was such that a mean position for this period introduced an error sufficiently small for the purpose of these tables, but gradually changes in the path of the star have caused this error to increase to such an extent that during the past year the grouping of months has had to be changed. The periods are now chosen in such a way as to give a minimum error for periods involving approximately six months, one set giving two months in each of three consecutive years, the other giving three months in each of two consecutive years. The arrangement is not as simple as the former one as it involves fractional months, but the maximum error has been decreased by about one-fifth. These new tables will be used after August, 1917.

Typical periods are:—

- October 8 to December 14, 1916.
- August 14 to October 6, 1917.
- June 2 to August 9, 1918, and
- December 15, 1917 to March 10, 1918.
- March 9, 1919 to June 2, 1919.

Most surveyors and engineers in the past have dreaded azimuth determinations of any kind; observations were looked upon as a terrible ordeal, were dispensed with as much as possible, and were taken only when considered absolutely imperative. The two methods most commonly adopted for determining the azimuth of a line were by means of the sun and of Polaris at elongation. Observations by means of the sun have the great advantage that they are of course always taken in daylight and may be taken at almost any time in the summer months, except within say two hours of noon; they have the great disadvantage in that they are not very accurate, and the computations are long. The observation on Polaris at elongation is both easy to take, simple to compute and accurate in results, and land surveyors who desired accuracy in their work have adopted it almost universally in the past. It has the great disadvantage however, that, as elongation takes place only twice in twenty-four hours, the observation can be made at only two particular times of the day, and as one of these times is generally unsuitable on account of strong daylight and the consequent difficulty in seeing the star, in practice it generally happens that the observation can be made only once a day; if the weather conditions should, as may very likely happen, be unfavourable at that particular time the opportunity for observing is gone for another twenty-four hours. This is one of the main reasons why for some time back it has been the practice among an ever increasing number of surveyors and engineers to observe on Polaris at any time. The method, except when the star is close to upper or lower culmination is just as accurate as the elongation method but entails considerable computation. To overcome this, various forms of tables have been prepared. One form gives the azimuth with the hour angle and latitude as arguments, the declination being considered constant. A table of corrections for change in declination is also required. This form therefore requires the calculation of the hour angle from the watch time by means of a table giving the right ascension or the time of elongation by the star, double interpolation in the main table for hour angle and latitude, and a correction to this for change in declination, the last requiring also a table of declinations. Another form of table even less simple, is to compute the hour angle as above, interpolate in the table supplied for this value and for the year of the observation to obtain the approximate value of the azimuth, and interpolate in another table for this approximate azimuth and for the measured altitude to obtain a correction to the former. These tables are all arranged so as to be suitable for many years and are a great convenience over the actual computations, but the double interpolations and the various correction tables make them clumsy to use.
SESSIONAL PAPER No. 25b

Frequent azimuth observations are one of the primary necessities for accurate work. Now if the taking of these observations can be made so simple and easy that surveyors will think nothing of them, a big step will have been made in raising the standard of survey work. About fourteen years ago the Surveyor General took the problem in hand. Transits were designed with telescopes sufficiently powerful to permit of the star being seen clearly in daylight and tables were issued by means of which the azimuth was derived in a much simpler manner than in the tables described above. They have been in general use on Dominion Lands surveys ever since and, taken in conjunction with the observing of Polaris in daytime, have been generally conceded among surveyors to have been one of the greatest, if not the very greatest, improvement ever made in Dominion Lands surveys.

Although the tables have been prepared for the Dominion Lands system of township surveys and are not very convenient for any other purpose, their use has been increasing for some years among surveyors and engineers other than those engaged on Dominion Lands surveys. Last year, the Minister of the Interior was requested by the Minister of Lands, Forests and Mines for Ontario, on behalf of the Ontario Land Surveyors Association, to issue astronomical field tables of the same kind, but modified to be convenient for these other Canadian surveyors and engineers. The preparation of the tables was authorized by the minister and five sets similar to those used on Dominion Lands surveys but extending from latitude 42° to 56° and having the latitude instead of the township as argument, have been computed.

MAGNETIC SURVEYS.

In 1916, fifty surveyors were instructed to observe for magnetic declination, and on the surveys of R. C. Purser, D.L.S., and E. S. Martindale, D.L.S., observations for magnetic dip and total force were taken at thirty-eight stations.

The data obtained during 1916, together with a discussion of all the magnetic data obtained to date, accompanied by various magnetic maps will be published in monograph form.

SURVEYING INSTRUMENTS.

All instruments used on surveys are required to be of approved pattern and in good condition.

A list of the instrumental equipment of the surveyors employed in the field was compiled, and where it was thought advisable the instruments were inspected and repaired.

Repairs were made to seventy-three transit theodolites, forty-three levels, four surveying aneroids, two dip circles, twenty-three levelling rods, fifty-one stadia rods, seven rod levels, and ten tripods.

Twenty sidereal watches were overhauled and readjusted.

In connection with the inspection of instruments and outfitting of the surveyors, 349 cases aggregating 8 tons (16,085 pounds), were shipped from this office and 214 cases aggregating 6½ tons (12,543 pounds), received.

A statement of instruments on hand on March 31, 1917, showing also the instruments purchased and sold during the year is given in Appendix 13 to this report.

GENERAL WORK.

A contract was let for the supply of 30,000 survey posts to be used in the field during 1916. The post consisted essentially of a thirty-inch length of standard one-inch pipe with a malleable iron foot-plate on the bottom and a bronze cap on the top—the bronze cap carrying the inscription PENALTY FOR REMOVAL, SEVEN YEARS IMPRISONMENT, and a crown. The completed post was then dipped in Mexican asphaltum, after
which it was filled with concrete consisting of equal parts of Portland cement and sand. The posts were packed in basswood crates holding ten posts each, for transportation purposes.

A representative from this division was deputed to oversee the manufacture of these posts, and this innovation resulted in work eminently satisfactory to both the manufacturer and the department.

Another contract has been let for 30,000 survey posts to be used in the field during 1917. The inscription on the bronze cap has been enlarged by the addition of the words DOMINION LANDS SURVEYS. Several improvements have been made in the design of the post, and the practice of deputing a representative to oversee the work has been continued.

Experiments have been made with the object in view of still further improving the design of these posts. The possibility of brazing on the bronze caps and welding on the foot-plates with the oxy-acetylene blow-pipe has been investigated, as has likewise the possibility of metal coating the outside of the post with zinc or copper to supersede the Mexican asphaltum at present in use.

A special short survey post for planting in rock has been designed and manufactured. In order to ascertain the best method of planting these posts, a piece of the hardest granite was obtained and the different surveyors in the city were invited to experiment for themselves and submit their opinions. As a result it would appear that little difficulty will be experienced in complying with the instructions which have been issued for planting these posts.

A special townsitc post having a bronze cap on the top and a foot-plate on the bottom has been designed, the inscription on the cap being DOMINION LANDS SURVEYS.

All the surveyors in the field were circularized in regard to the best methods of planting and marking the standard survey posts. This has resulted in several improvements being effected.

A general review is being made of methods of rapidly solving the astronomical triangle for time-azimuths and altitude-azimuths, covering tables, solar attachment, calculating devices, abaci, nomograms, etc. This interesting matter is expected to be ready in the near future.

**SURVEYS LABORATORY.**

Complete tests were made of ten D.L.S. subdivision transits and seven clinometers. Partial tests were made of sixty-eight subdivision transits and fifteen levels. Twelve aneroid barometers were examined and a determination for index correction made; four aneroids were subjected to complete tests in accordance with the Bureau of Standards method, and certificates issued.

Tests were made for the War Purchasing Commission of Canada of thirty-three engineer's transits and twenty-three engineer's levels, and certificates issued for twenty-nine of the transits and twenty-three levels, the remaining four transits having been rejected.

Seventy-two sidereal watches were submitted for trial and sixty-six of these passed through complete tests; the remaining six stopped before the tests were finished. Five of the watches which stopped were repaired and later passed through complete tests. All watch tests are now made in accordance with the Bureau of Standards method for a class A certificate. Of the sixty-six watches completing the test, twenty-nine or forty-four per cent passed.

During the year one hundred and four stadia cards were computed, printed and issued to the surveyors.

The work done at the Surveys Laboratory is given in more detail in Appendix 12 of this report.

**PHOTOGRAPHIC OFFICE.**

Considerable time was spent reproducing the Crowsnest Forest Reserve and the interprovincial boundary maps which are printed in four colours. The black plates are
engraved on copper and transferred to zinc. The brown, blue, and red plates are photographed from the original drawing and printed direct on zinc.

A departure has been made from the ordinary practice in issuing the map of the central part of Jasper park in six sheets; the black has been carefully drawn by expert draftsmen and photographed direct for the press.

Photography is being used throughout for this map and the final results can hardly be distinguished from engraving.

The schedule in Appendix No. 3 shows an increase in the number of negatives over last year, caused by the large number of township plans issued during the latter part of the year.

Blueprint proofs from all negatives are now taken and if any errors are found correction is made on the negative before printing on zinc.

The amount of enlarging and printing was less than usual, due in a great measure to the falling off in photographic surveys.

Further experience with panchromatic dry plates which were tried out the previous season has proved them to be well adapted to photo-topographical surveying. The results obtained from these negatives both in the enlargements used for plotting purposes and the contact prints are all that can be desired.

A system which dispenses with much of the mounting of prints has been introduced. The small negatives are masked and printed on paper large enough for binding in covers, being made in this way into a loose-leaf album. While the saving in time is not great, the result is very neat and convenient.

The Geographic Board consists of eleven members appointed from the different departments at Ottawa and one member from each of the provinces. The secretary is an officer of the Department of the Interior.

The regular meetings of the board are held on the first Tuesday of every month, and all questions concerning geographic names in the Dominion which arise in the departments of the public service are referred to it. The names and orthography adopted by the board are to be accepted and used by all the departments in their publications.

The decisions of the board are published after each meeting in the Canada Gazette and also in bulletin form.

The report of the board is issued as a supplement to the report of the Department of the Interior. This report contains all decisions of the board since its inauguration and also its rules of nomenclature.

Besides attending to the correspondence of the board the secretary has prepared historical notes for a guide book to Jasper Park which will soon be published.

The Board of Examiners for Dominion Land Surveyors held two meetings during the year.

The first was a special meeting lasting from May 1 to June 2 (inclusive), 1916, during which examinations were held at Ottawa, Toronto, Calgary, Edmonton, and Vancouver. The second was the regular annual meeting called for by section 9 of the Dominion Lands Surveys Act. It began on February 12, 1917, and lasted until March 15, 1917. During this meeting examinations were held at Ottawa, Toronto, Kingston, Calgary, Regina, Edmonton, and Vancouver. The total number of candidates for examination was 125. Of these 88 tried the preliminary examination, 35 tried the final examination and 2 tried the examination for Dominion Topographical Surveyor.
Twenty-nine candidates were successful at the preliminary examination, as follows:

Bone, Allan Turner, Calgary, Alta.
Bush, Harold Frederick, Ottawa, Ont.
Donevan, Frederick, Lansdowne, Ont.
Fetterly, Philip Austin, Calgary, Alta.
Fraser, John Donald, Ottawa, Ont.
Godwin, Dalton George, Ottawa, Ont.
Howe, John Parnell, Pembroke, Ont.
Johnston, George Wm. Frederick, Ottawa, Ont.
Lamert, Eugene, Montreal, Que.
Lawsen, Horace Hetherington, Kingston, Ont.
Marchand, Eugene Francis, Ottawa, Ont.
Maddock, Charles Orville, Inwood, Ont.
Manning, Ralph Clarke, Hamilton, Ont.
Miller, William Harold, Ottawa, Ont.
McDonald, John Nicholson, Edmonton, Alta.

McDougall, John Lorne, Ottawa, Ont.
McGrath, Walter Neville, Ottawa, Ont.
McKenzie, Gordon Leslie, Ottawa, Ont.
Paterson, Elwin L., Rocklyn, Ont.
Petrie, Edward Archibald, Ottawa, Ont.
Phillip, Patrick, Vancouver, B.C.
Quinn, James John, Ottawa, Ont.
Raynard, Kenneth S., Ottawa, Ont.
Russell, Benjamin, Ottawa, Ont.
Samuel, Maxwell, Toronto, Ont.
Snell, Charles Henry, Red Deer, Alta.
Watson, Cyril James, Ottawa, Ont.
Whittler, Albert Ronald, Ottawa, Ont.
Wrong, Gordon, Sandwich, Ont.

Twenty-three candidates were successful at the final examination, as follows:

Atkins, Cecil Benjamin, Revelstoke, B.C.
Beal, Alfred Martin, Ottawa, Ont.
Bruynseraede, Rene Paul, Edmonton, Alta.
Christie, Gerald Moffatt, Ashcroft, B.C.
Coursey, Eric Clarence, Revelstoke, B.C.
Daly, William Patrick, Ottawa, Ont.
Disney, John Harold, Edmonds, B.C.
Flook, Samuel Evert, Port Arthur, Ont.
Hunt, Septimus, Calgary, Alta.
Joslyn, Cecil Earle, Sintaluta, Sask.
Lamarque, Ernest Charles Wm., Marine Heights, B.C.

Matheson, Alexander, Lorne, Ont.
Martin, Walter Harold, Toronto, Ont.
Melville, MacKay, Ottawa, Ont.
Moffatt, William James, Vancouver, B.C.
McGugan, Donald Johnston, New Westminster, B.C.
Novion, Leon Marie Lucien, Edmonton, Alta.
Perry, Alfred Melville, Ottawa, Ont.
Rimmer, William Bolton, Vancouver, B.C.
Russell, John, Edmonton, Alta.
Spence, William A., Ottawa, Ont.
Tassie, Gilbert Culoden, Vancouver, B.C.

Twenty-three commissions were issued to candidates who had passed the final examination, and had furnished oaths of office and allegiance and bonds for the sum of one thousand dollars as required by section 25 of the Dominion Lands Surveys Act.

Seventeen certificates of preliminary examination were issued to successful candidates who had complied with the requirements of the law.

Section 35 of the Dominion Lands Surveys Act provides that every Dominion Land Surveyor shall be in possession of a subsidiary standard of length. During the year six new standards were issued to surveyors. One Ontario Land Surveyor, who was also a Dominion Land Surveyor, sent his O.L.S. standard measure to be tested. This measure was found to be in good condition, and after being tested at the Surveys Laboratory was re-issued as a subsidiary standard of length. One standard measure was issued to the Secretary of the Saskatchewan Land Surveyors' Association for one of the members. One D.L.S. standard measure was tested at the laboratory.

APPENDICES.

No. 1. Schedule of surveyors employed and work executed by them.
No. 2. Schedule showing for each surveyor employed the number of miles surveyed of section lines, township outlines, traverses of lakes and rivers, and resurvey; also the cost of the same.
No. 3. Details of office work.
No. 4. Inspection Surveys.
No. 5. Base line Surveys.
No. 6. Subdivision Surveys.
No. 7. Railway Belt Surveys.
No. 8. Stadia Surveys.
No. 9. Miscellaneous Surveys.
No. 10. Yukon Surveys.
No. 11. Levelling.
No. 12. Report of Surveys Laboratory.
No. 13. List of surveying instruments on hand March 31, 1917.
The following maps accompany this report:—
1. Map to illustrate progress of Dominion Land Surveys to March 31, 1917.
2. Map showing topography and profiles of base lines and meridians run during the year.

E. DEVILLE,
Surveyor General.
SCHEDULES AND STATEMENTS.

APPENDIX No. 1.

Schedule of Surveyors employed and work executed by them.

<table>
<thead>
<tr>
<th>Surveyor</th>
<th>Address</th>
<th>Description of Work</th>
</tr>
</thead>
<tbody>
<tr>
<td>Akins, J. R...</td>
<td>St. Catharines, Ont...</td>
<td>Survey of the following base lines west of the Fifth meridian: the 24th and 25th bases across ranges 22 to 25; the 26th base across ranges 21 to 25; and the 28th base across ranges 19 to 24. Survey of the following base lines west of the Sixth meridian; the 24th base across ranges 1 and 2; the 25th base across ranges 1 to 2; the 26th base across ranges 1, 2, and part of 3; the 27th base across ranges 1 to 3; the 28th base across ranges 1 and 2; and the 29th base across ranges 1 to 6.</td>
</tr>
<tr>
<td>Ayisworth, C. F.</td>
<td>Madoc, Ont...</td>
<td>Resurvey in tps. 17 and 18-19-Pr.; tps. 38-28-Pr.; and tps. 37 and 33-29-Pr. Traverse in tps. 17 and 18-19-Pr.; and tps. 18-20-Pr.</td>
</tr>
<tr>
<td>Baker, J. C.</td>
<td>Kingston, Ont...</td>
<td>Subdivision of tps. 92-22-5; tps. 92 and 93-23-5; and tps. 89-26-5. Part subdivision of tps. 91-23-5; tps. 92-24-5; and tps. 89-25-5. Survey of the east outlines of tps. 90-25-5; and tps. 90-26-5.</td>
</tr>
<tr>
<td>Bennett, G. A.</td>
<td>Tillsonburg, Ont...</td>
<td>Stadia surveys in tps. 31, 32, 33, 34, and 35-1-5; tps. 31, 32, 33, 34, and 35-1-5; tps. 31, 32, 33, 34, 35, and 36-2-3; tps. 31, 32, 33, 34, and 35-3-3; tps. 31, 32, 33, 34, 35, 36, and 37-5-3; tps. 31, 32, 33, 34, 35, 36, and 37-6-3; tps. 31, 32, 33, 34, 35, 36, and 37-7-3; tps. 30, 31, 32, 33, 34, 35, 36, and 37-8-3; tps. 31, 32, 33, 34, 35, 36, and 37-9-3; tps. 31, 32, 33, 34, 35, 36, and 37-10-3; tps. 31, 32, 33, 34, 35, 36, 37, and 38-11-3; tps. 33, 34, 35, 36, and 38-12-3; and tps. 36, 37, and 39-13-3.</td>
</tr>
<tr>
<td>Blanchet, G. H.</td>
<td>Ottawa, Ont...</td>
<td>Survey of the 19th base line across ranges 18 to 27; and the 29th base line across ranges 10 to 26, west of the Third meridian.</td>
</tr>
<tr>
<td>Boulton, W. J.</td>
<td>Wallaceburg, Ont...</td>
<td>Stadia surveys in tps. 15, 17, 18, and 19-13-4; tps. 17, 19, and 19-14-4; tps. 15, 16, 17, 18, and 19-15-4; tps. 15, 16, 18, and 19-16-4; tps. 15, 16, 17, 18, and 19-17-4; tps. 15, 16, 17, 19, and 19-18-4; tps. 15, 16, 17, 19, and 19-19-4; tps. 15, 16, 17, and 19-20-4; tps. 15, 16, 17, and 19-21-4; tps. 14, 15, 16, 17, and 19-22-4; tps. 16 and 17-23-4; tps. 16-24-4; tps. 15, 17, and 18-25-4; tps. 15, 16, 17, and 19-26-4; tps. 15, 16, 17, and 19-27-4; tps. 14, 16, 17, 18, and 19-28-4; and tps. 15, 16, and 17-30-4. Retraction in tps. 16-13-4; tps. 15 and 16-14-4; tps. 17-16-4; tps. 16-19-4; tps. 16 and 18-20-4; tps. 15-21-4; tps. 16 and 17-22-4; tps. 15, 16, 17, and 19-23-4; tps. 15, 16, 17, and 19-24-4; tps. 16 and 19-25-4; tps. 17-26-4; tps. 18-27-4 and tps. 15-28-4.</td>
</tr>
<tr>
<td>Bowman, E P...</td>
<td>West Moutrose, Ont...</td>
<td>Stadia surveys in tps. 46 and 47-14-3; tps. 45, 46, 47, 48, 49, and 50-15-3; tps. 46, 47, 48, 49, and 50-15-3; tps. 46, 47, 48, and 50-16-3; tps. 47, 48, 49, and 50-17-3; tps. 45, 46, 47, 48, 49, and 50-18-3; tps. 45, 46, and 47-19-3; tps. 45, 46, 47, 48, 50, and 51-20-3; tps. 46, 47, 48, 49, and 50-21-3; tps. 46, 47, 48, 49, and 50-22-3; and tps. 46, 47, 48, 49, and 50-23-3. Retraction in tps. 51-21-3; and tps. 51-24-3.</td>
</tr>
<tr>
<td>Surveyor</td>
<td>Address</td>
<td>Description of Work</td>
</tr>
<tr>
<td>------------------</td>
<td>--------------------</td>
<td>--------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Brenot, L.</td>
<td>Ottawa, Ont.</td>
<td>Subdivision of tps. 84-15-6; tps. 83 and 84-16-6; and tps. 51-17-6. Part subdivision of tps. 52-16-6; and tps. 52-17-6. Survey of the east outlines of tps. 81-16-6; and tps. 82-17-6.</td>
</tr>
<tr>
<td>Brownlee, J. H.</td>
<td>Dawson, Y.T.</td>
<td>Mineral claim, base line, and miscellaneous surveys in the Yukon Territory.</td>
</tr>
<tr>
<td>Buchanan, J. A.</td>
<td>Edmonton, Alta.</td>
<td>Subdivision of tps. 93 and 94-20-5; and tps. 93-21-5. Part subdivision of tps. 95 and 97-19-5; tps. 95, 98, and 97-20-6; and tps. 94-21-5. Survey of the east outlines of tps. 93 and 96-19-5; and the north outline of tps. 93-19-5. Traverse in tps. 94-19-5.</td>
</tr>
<tr>
<td>Cautley, R. W.</td>
<td>Edmonton, Alta.</td>
<td>Survey of interprovincial boundary between Alberta and British Columbia in Palliser pass; White Man pass; and Assiniboline pass.</td>
</tr>
<tr>
<td>Christie, W.</td>
<td>Prince Albert, Sask.</td>
<td>Subdivision of tps. 57-22-2; and tps. 55, 56, and 57-23-2. Part subdivision of tps. 54 and 55-22-2, and tps. 54-23-2. Survey of the east outline of tps. 56-22-2. Traverse in tps. 57-21-2; tps. 58-22-2; and tps. 54-24-2.</td>
</tr>
<tr>
<td>Coté, J. M.</td>
<td>Ottawa, Ont.</td>
<td>Miscellaneous subdivision in tps. 31 and 46-12-2; tps. 30-14-2; tps. 37-14-2; tps. 39-13-2; tps. 38-18-2; tps. 31 and 32-28-2; tps. 31-12-3; tps. 33-13-3; tps. 32 and 33-15-3; tps. 33-16-3; tps. 36-15-3; tps. 30, 39, 40, and 49-18-3; tps. 34, 35, 38, and 40-20-3; tps. 31 and 32-24-3; tps. 22-25-3; and tps. 32-26-3. Resurvey in tps. 41 and 42-23-2; tps. 46 and 47-1-8; tps. 45 and 46-2-3; tps. 34-5-3 and tps. 50-25-3. Retracement surveys in tps. 26-9-2; tps. 26 and 27-10-2; tps. 35-22-2; tps. 38-28-2; tps. 41-24-2; tps. 45, 45A, 46 and 47-27-2; tps. 30-28-2; tps. 31-29-2; tps. 48-1-3; tps. 31-16-3; tps. 36-17-3 and tps. 33-20-3. Restoration surveys in tps. 46X and 47-26-2, and tps. 38-12-2. Correction surveys in tps. 34-6-3; and tps. 41-13-3. Lot survey in tps. 44-7-4.</td>
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<td>Cowper, G. C.</td>
<td>Welland, Ont.</td>
<td>Stadim surveys in tps. 22 and 33-4-4; tps. 22, 29, 31, 32, 33, and 34-5-4; tps. 25, 27, 28, 29, 30, 31, 32, and 33-6-4; tps. 22, 25, 29, 30, 31, 32, and 33-7-4; tps. 22, 25, 28, 29, 30, 31, and 33-8-4; tps. 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, and 33-9-4; tps. 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, and 34-10-4; tps. 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, and 34-11-4; tps. 21, 22, 25, 24, 26, 25, 27, 28, 29, 30, 31, 32, 33, and 34-12-4; tps. 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, and 34-13-4; tps. 25, 26, 28, 32, 33-14-4; tps. 33 and 34-15-4; tps. 33 and 34-16-4; and tps. 33 and 34-17-4.</td>
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<td>Davies, T. A.</td>
<td>Edmonton, Alta.</td>
<td>Stadim surveys in tps. 37, 41, and 42-28-3; tps. 37-29-3; tps. 37, 38, 39, 40, 41, 42, and 43-1-4; tps. 38, 39, 40, and 41-2-4; tps. 38, 39, 40, 41, 42, and 43-5-4; tps. 36, 37, 38, 39, 40, 41, 42, and 43-5-4; tps. 38, 39, 40, and 41, 42, and 44-6-4; tps. 37, 38, 39, 40, 41, 42, and 44-7-4; tps. 38, 39, 40, and 41, 42, and 44-8-4; and tps. 39-9-4.</td>
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<td>Deans, W. J.</td>
<td>Brandon, Man.</td>
<td>Subdivision in tps. 58 and 65-2-Pr.; tps. 57, 58 and 65-3-Pr.; and tps. 57-4-Pr. Survey of Elk Island in tps. 29 and 21-1-Pr.; Lot surveys at Birch River station in tps. 39-26-Pr.; and at Norway House in tps. 57-3-Pr. and tps. 57-1-Pr.</td>
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### Schedule of Surveyors employed and work executed by them—Continued.

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<td>Evans, S. L.</td>
<td>. . . . . . . . . . . Corinth, Ont.</td>
<td>. . . . . . . . . . . Subdivision in tps. 19 and 20-4-3; tp. 19-5-3; tp. 74-5-5; and tp. 74-6-5. Retracement in tps. 18-24-3; tps. 18 and 19-25-2; tps. 18 and 19-3-3; tps. 17 and 18-4-3; tps. 18 and 32-5-3; tps. 15 and 16-5-3; tps. 18 and 19-8-3; tps. 17, 18 and 19-9-3; tp. 15-11-3; tp. 17-14-3; tp. 14-16-3; tps. 19 and 29-17-3; tp. 21-18-3; tp. 55-3-4; tp. 57-9-4; tp. 57-10-4; tp. 59-11-4; tps. 59 and 61-12-4; and tp. 60-18-4. Resurvey in tp. 21-9-3; tps. 19 and 20-14-3; tps. 19 and 20-16-3; tp. 12-17-5; tp. 22-15-3; and tps. 12, 14, and 15-19-3. Correction in tp. 19-22-2. Traverse in tps. 18-9-4; and tp. 59-11-4. Examination of subdivision surveys made during the session by J. C. Baker, D.L.S.</td>
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<td>Fletcher, J. A.</td>
<td>. . . . . . . . . . . Fletcher, Ont.</td>
<td>. . . . . . . . . . . Survey of the 29th base line across ranges 7 to 24; and the 30th base line across ranges 8 to 16 and part of range 17, west of the Fourth meridian. Survey of the east outlines of tps. 113, 114, 115, and 116-8-4.</td>
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<td>Fontaine, L. E.</td>
<td>. . . . . . . . . . . Lévis, P.Q.</td>
<td>. . . . . . . . . . . Subdivision in tp. 41-18-5; and tp. 48-24-5. Correction survey in tp. 59-19-4; and tp. 49-27-4. Retracement survey in tp. 12-18-4; tp. 49-22-4; tp. 1-26-4; tp. 51-27-4; tps. 20, 21, and 28-29-4; tps. 20 and 50-1-5; and tps. 50 and 52-2-5. Traverse in tp. 57-23-4; tps. 23 and 24-24-4; tp. 53-1-5; tp. 55-4-5; tp. 58-6-5; and tp. 26-7-5. Investigation of section lines in tp. 11-1-5. Marking monuments in tp. 24-1-5. Preliminary lot survey in tp. 29-29-4.</td>
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<td>Galletly, J. S.</td>
<td>. . . . . . . . . . . Oshawa, Ont.</td>
<td>. . . . . . . . . . . Subdivision survey in tp. 55-23-Pr; tp. 55-29-Pr; and tp. 55-39-Pr. Survey of road in tp. 55-27-Pr; and tp. 55-29-Pr. Survey of Carrot River settlement in tp. 55-29-Pr; and of timber berth No. 920 in tp. 55-29-Pr; and tp. 55-30-Pr.</td>
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<td>Glover, A. E.</td>
<td>. . . . . . . . . . . Edmonton, Alta.</td>
<td>. . . . . . . . . . . Subdivision of tp. 75-25-5; tp. 75-26-5; and tps. 75 and 76-3-6. Part subdivision of tps. 74 and 75-24-5; and tp. 74-26-5. Survey of the east outlines of tps. 74 and 76-25-5; tps. 74 and 76-26-5; and part of tp. 74-3-6.</td>
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<td>Jackson, J. E.</td>
<td>. . . . . . . . . . . Hamilton, Ont.</td>
<td>. . . . . . . . . . . Subdivision of tp. 32-5-E; tps. 30, 31, and 32-6-E; and tps. 28, 29, and part of 30-7-E. Traverse in tps. 27 and 31-7-E; and tps. 27 and 28-8-E. Retracement of I. R. in tp. 32-7-E.</td>
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<td>Johnston, J. H.</td>
<td>. . . . . . . . . . . Peace River, Alta.</td>
<td>. . . . . . . . . . . Subdivision of tp. 86-16-5; tp. 86-17-5; tps. 82, 85 and 86-16-5; tps. 85 and 86-15-5; and part of tps. 87-18-5. Survey of the east outlines of tps. 85-87, and 85-16-5; tps. 85, 87, and 86-17-5; and tps. 83, 84, 87, and 88-18-5.</td>
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<td>Johnston, W. J.</td>
<td>. . . . . . . . . . . St. Catharines, Ont.</td>
<td>. . . . . . . . . . . Subdivision in tp. 21-23-5; tps. 20 and 21-29-5; tps. 20, 21, and 22-1-6; tps. 22, 23 and 24-2-6; tp. 23-3-6; and tps. 21 and 22-7-6. Traverse in tps. 21 and 22-1-6; tp. 21-2-6; tp. 23-3-6; and tps. 21 and 22-7-6.</td>
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#### Schedule of Surveyors Employed and Work Executed by Them—Continued.

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<th>Description of Work</th>
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<td>King, J. A. S.</td>
<td>Ottawa, Ont.</td>
<td>Subdivision in tps. 3 and 4-7-Pr.; tps. 3 and 4-8-Pr.; tps. 16 and 17-18-Pr.; tps. 15, 16, 17, and 18-11-Pr.; tps. 3 and 4-21-Pr.; tps. 3 and 4-22-Pr.; tps. 13-6-Pr.; tps. 44-24-Pr.; and tps. 44-29-Pr.; Retraction survey in tps. 10-23-Pr.; tps. 28-29-Pr.; tps. 29-29-Pr.; tps. 10-2-2; tps. 11-3-2; and tps. 11-1-2. Correction survey in tps. 10-5-2. Traverse in tps. 11-23-Pr.; and tps. 40-24-Pr. Investigation of Big Grass marsh in tps. 15 and 18-10-Pr.</td>
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<tr>
<td>Knight, R. H.</td>
<td>Edmonton, Alta.</td>
<td>Subdivision of tps. 82-6-4. Part subdivision of tps. 84-5-4; tps. 79, 80, 81, 82, and 84-6-4; and tps. 79, 80, 81, 82, and 86-7-4. Traverse in tps. 79, 77, 83, and 84-7-4; tps. 75, 76, and 77-8-4; tps. 73, 74, and 73-9-4; and tps. 73 and 74-10-4.</td>
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<td>LeBlanc, P. M. H.</td>
<td>Ottawa, Ont.</td>
<td>Subdivision of tps. 57-29-Pr. Part subdivision of tps. 54 and 55-29-Pr.; tps. 56-21-Pr.; tps. 57-27-Pr.; tps. 57-28-Pr.; and tps. 58-29-Pr. Survey of the east outlines of tps. 53-20-Pr.; tps. 53-21-Pr.; and part of tps. 58-20-Pr. Retraction of part of I.R. No. 31r. and survey of I.R. No. 31r. in tps. 54-19-Pr. Traverse of road between Barrier and Sturgeon lakes.</td>
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<td>Lighthall, A.</td>
<td>Vancouver, B.C.</td>
<td>Subdivision of tps. 79-1-6; tps. 79-2-6; and tps. 80-7-6. Part subdivision of tps. 77 and 73-1-6; tps. 77 and 73-2-6; tps. 77-3-6; tps. 79 and 80-6-6; and tps. 79 and 79-7-6. Survey of the east outline of tps. 80-5-6.</td>
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<td>Martindale, E. S.</td>
<td>Aylmer, Ont.</td>
<td>Subdivision in tps. 10-3-2. Retraction survey in tps. 11-6-2; tps. 11-16-2; tps. 11-17-2; tps. 3-19-2; tps. 21-29-2; tps. 21-3-3; tps. 42-2-8; tps. 17-7-3; tps. 32-8-3; tps. 15, 16, and 17-9-3; tps. 37 and 13-1-4; and tps. 22-9-4. Correction survey in tps. 15 and 16-2-3; tps. 19-3-3; tps. 18-4-3; tps. 15-5-3; tps. 18-5-3; tps. 16-8-3; tps. 13-11-3; and tps. 16-1-4. Restoration survey in tps. 11-23-2; and tps. 32-1-4. Investigation of monuments in tps. 19-5-3; and tps. 10-9-3. Traverse in tps. 11-2-2; tps. 9-3-2; tps. 21-23-3; tps. 5 and 6-29-3; tps. 19-23-4; and tps. 19-29-4. Survey of reservoir site in tps. 8-21-3. Survey of cemetery at Banff; and correction in St. Julien addition to the townsite of Banff. Preliminary survey of Drumheller townsite in tps. 29-20-4.</td>
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<td>McEwen, D. F.</td>
<td>Edmonton, Alta.</td>
<td>Subdivision of tps. 69, 70, and 71-19-5; tps. 69 and 70-20-5; and tps. 69-21-5. Part subdivision of tps. 71 and 72-18-5. Traverse in tps. 72-19-5; and tps. 69-21-5.</td>
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<td>McGarry, P. J.</td>
<td>Merritt, Ont.</td>
<td>Subdivision in tps. 58-7-3; tps. 55, 58, 59, and 59-8-3; tps. 57, 59, and 60-9-3; and tps. 59 and 60-10-3.</td>
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<td>Description of Work</td>
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<td>M. Kay, R. B.</td>
<td>Vancouver, B.C.</td>
<td>Subdivision in tps. 1, 2, and 5-26-6; tps. 1, 2, 3, and 4-27-6; tp. 4-28-6; tps. 3 and 4-29-6; tp. 3-20-6; tp. 4-5-7; tps. 20, 21, 24, and 42 E.C.M.; and tp. 2 W.C.M. Traverse in tp. 1-26-6; tps. 1, 2, 3, and 4-27-6; tp. 4-28-6; tp. 5-26-6; tp. 4-5-7; and tps. 21, 24, and 42 E.C.M.</td>
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<td>McKnight, J. H.</td>
<td>Simcoe, Ont.</td>
<td>Stadial surveys in tp. 42-17-2; tps. 41, 42, 43, 44, and 45-15-2; tps. 33, 40, 41, 42, 43, 44, and 45-18-2; tps. 38, 39, 40, 41, 42, 43, 44, 45, 46, 20-2; tps. 38, 39, 40, 41, 45, 44, 45, and 46-21-1; tps. 44 and 45-21A-2; and tps. 40, 45, 45A, and 46-22-2.</td>
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<td>Norrish, W. H.</td>
<td>Ottawa, Ont.</td>
<td>Subdivision of tp. 53-15-2; tp. 53-14-2; and tp. 53-15-2; Part subdivision of tp. 53-12-2; tp. 54-14-2; and tp. 54-15-2. Traverse in tp. 52-12-2; tp. 52-13-2; tp. 52-14-2; tp. 52-15-2; and tp. 54-16-2.</td>
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<td>Palmer, P. E.</td>
<td>Ottawa, Ont.</td>
<td>Stadial surveys in tps. 25, 26, 27, 28, 29, 30, and 31-2-3; tps. 25, 26, 27, 28, 29, 30, and 31-2-3; tps. 25, 26, 27, 28, 29, 30, 31, and 32-3-3; tps. 23, 24, 25, 26, 27, 28, 29, 30, 31, and 32-3-3; tps. 23, 24, 25, 26, 27, 28, 29, 30, 31, and 32-3-3; tps. 23, 24, 25, 26, 27, 28, 29, and 30-6-3; tps. 23, 24, 25, 26, 27, 28, 29, and 30-7-3; tps. 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, and 31-8-3; tps. 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, and 31-8-3; tps. 20, 21, 22, 23, 24, and 25-9-3; tps. 20, 21, 22, 23, 24, and 25-9-3; tps. 19, 20, 21, 22, 23, 24, 25, and 26-11-3; tps. 19, 20, 21, 22, 23, 24, 25, and 26-11-3; and tps. 19, 20, 21, 22, 23, 24, and 25-12-3.</td>
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<td>Flunkett, T. H.</td>
<td>Meaford, Ont.</td>
<td>Retracement surveys in tps. 4 and 12-9-E.; tps. 1-10-E.; tps. 23-1-Pr.; tps. 22-6-Pr.; tp. 17-20-Pr.; tp. 6-20-Pr.; tps. 39-26-Pr.; tp. 23-27-Pr.; tps. 28-29-Pr.; tp. 25-26-Pr.; tps. 12 and 21-31-Pr.; and tps. 23-33-Pr.; Traverse in tp. 23-1-Pr.; tp. 30-9-Pr.; tp. 17-19-Pr.; tp. 17-20-Pr.; and tp. 28-29-Pr. Subdivision at Bedford Station in tp. 5-9-E.; at Menisco in tp. 1-10-E.; and at Birch River in tp. 39-26-Fr.</td>
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| Purser, R. C.   | Ottawa, Ont.     | Subdivision in tps. 36 and 37-4-4; and tps. 36-5-4. Resurvey in tp. 24-2-2; tps. 23 and 24-3-2; tps. 19-11-2; and tps. 10 and 49-5-3. Retracement in tp. 32-1-2; tps. 32-3-2; tp. 30-6-2; tps. 30-17-2; tps. 32-26-2; tps. 29-27-2; tps. 50-28-2; and tps. 39-12-3. Correction survey in tp. 29-32-Pr.; tps. 21-6-2; tps. 38-13-2; tps. 25-16-2; tps. 27 and 43-17-2; tps. 46-20-2; tps.
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SCHEDULE of Surveyors employed and work executed by them—Continued.

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<td>Purser, R. C.</td>
<td>Ottawa, Ont.—Con.</td>
<td>27-24-2; tp. 51-25-2; tp. 38-26-2; tps. 23 and 42-27-2; tp. 38-10-3; tp. 51-15-3; tp. 52-17-3; tp. 42-24-3; tp. 42-25-2; tp. 42-24-8; and tp. 35-19-4. Restoration survey in tps. 27 and 28-26-2. Investigation in tp. 46-3-3. Erection of monuments in tp. 32-1-3. Traverse in tp. 49-27-2; and tp. 29-21-4. Survey of Doukhobor cemeteries in tp. 30-5-2. Lot resurvey in tp. 45-1-3.</td>
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<td>Rinfret, C.</td>
<td>St. Stanislas, P.Q.</td>
<td>Stadia surveys in tps. 9, 10, and 17-24-2; tps. 9, 10, 11, 12, 13, 14, 15, and 16-25-2; tps. 10, 11, 12, 13, 14, 15, and 16-26-2; tps. 8, 9, 10, 11, 14, 15, and 16-28-2; tps. 8, 9, 10, 11, 12, 13, and 15-29-2; tps. 9, 10, and 11-30-2; tps. 7, 8, 9, 10, 11, 12, 13, and 14-3-3; tps. 7, 8, 9, 10, 11, 12, 13, and 14-5-3; tps. 7, 8, 9, 10, 11, 12, 13, and 14-7-3; and tps. 7, 8, 9, 10, 11, 12, 13, and 14-7-3.</td>
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<td>Purser, R. C.</td>
<td>Ottawa, Ont.—Con.</td>
<td>Stadia surveys in tps. 13-15-5; tps. 17, 18, 19, and 13-14-2; tps. 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, and 28-16-2; tps. 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, and 28-17-2; tps. 17, 18, 19, 21, 22, 23, 24, 25, 26, 27, and 28-18-2; tps. 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, and 28-19-2; tps. 17, 18, 19, 21, 22, 23, 24, 25, 26, 27, and 28-20-2; tps. 17, 18, 19, 20, 22, 23, 24, 26, 27, and 28-21-2; tps. 17, 18, 19, 20, 22, 23, 24, 26, 27, and 28-22-2; tps. 17, 18, 19, 20, 22, 23, 24, 26, 27, and 28-23-2; tps. 17, 18, 19, 20, 22, 23, 24, 26, 27, and 28-24-2; and tps. 17, 18, 19, 20, 22, 23, 24, 26, 27, and 28-25-2.</td>
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<td>Scott, W. A.</td>
<td>Calgary, Alta.</td>
<td>Stadia surveys in tps. 15-23-5; tps. 28 and 29-29-5; tps. 23, 24, and 28-1-6; and tps. 23 and 24-2-6. Traverse in tp. 29-23-5; tp. 24-1-6; and tps. 24, 25, 26, and 27-2-6. Townsite correction survey at Golden.</td>
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<td>Selbert, F. V.</td>
<td>Edmonton, Alta.</td>
<td>Subdivision of tp. 65-6-1; tps. 65-7-4; tps. 65 and 66-8-4; and tps. 65 and 66-9-4. Part subdivision of tp. 66-6-4; and tp. 66-7-4. Survey of the east outlines of tps. 67 and 68-3-4. Traverse in tp. 64-9-4.</td>
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<td>Soars, H. M. R.</td>
<td>Edmonton, Alta.</td>
<td>Stadia surveys in tps. 46, 47, 48, and 49-15-4; tps. 46, 47, 48, and 49-16-4; tps. 44, 45, 46, 47, 48, and 49-17-4; tps. 44, 45, 46, 47, 48, and 49-18-4; tps. 45, 46, 47, 48, and 49-19-4; and tps. 45, 46, 47, 48, and 49-20-4; tps. 45, 46, 47, and 49-21-4; tps. 44, 45, 46, 47, and 48-22-4; tps. 44, 45, 46, and 47-23-4; and tps. 45-24-4.</td>
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<td>Stewart, N. C.</td>
<td>Vancouver, B.C.</td>
<td>Subdivision in tp. 29-23-5; tps. 28 and 29-29-5; tps. 23, 24, and 28-1-6; and tps. 23 and 24-2-6. Traverse in tp. 29-23-5; tp. 24-1-6; and tps. 24, 25, 26, and 27-2-6. Townsite correction survey at Golden.</td>
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<tr>
<td>Stuart, A. G.</td>
<td>Winnipeg, Man.</td>
<td>Tréactnaire survey of the Third meridian from the international boundary to township 43; and the 14th base line from the east boundary of range 22 west of the Third meridian, to the Fifth meridian. Miscellaneous retracement in tp. 12-25-2; tp. 11-30-2; and tp. 12-1-3.</td>
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<td>Taggart, C. H.</td>
<td>Kamloops, B.C.</td>
<td>Subdivision in tp. 21-11-6; tps. 21 and 22-12-6; tps. 23 and 24-14-6; tps. 21, 22, 23, and 24-15-6; tps. 20 and 21-16-6; and tp. 17-17-6. Traverse in tp. 22-12-6; tp. 20-16-6; and tp. 17-17-6.</td>
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<td>Walker, C. M.</td>
<td>Ottawa, Ont.</td>
<td>Stadia surveys in tps. 36 and 37-22-2; tps. 34, 35, 36, and 37-23-2; tps. 33, 34, 35, 36, and 38-24-2; tps. 33, 34, 35, 36, 37, 38, and 39-25-2; tps. 33, 34, 35, 36, 37, 38, and 40-26-2; tps. 34, 35, 36, 37, 38, 39, 40, 41, 42, and 43-27-2; tps. 34, 35, 36, 37, 38, 39, and 40-28-2; tps. 34, 35, 36, 37, 38, and 39-29-2; and tps. 35, 37, 40, and 47-1-3.</td>
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SCHEDULE of Surveyors employed and work executed by them—Concluded.

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<td>Wallace, J. N</td>
<td>Calgary, Alta</td>
<td>Lines of levels along Hudson Bay railway from Mile 100 to Mile 241; along Canadian Northern railway from Rosebud to Calgary; along Edmonton Dunvegan and British Columbia railway from Edmonton to Sawridge; along Alberta and Great Waterways railway from Carbondale junction to 18th base line; a line from Dunvegan to Grande Prairie and north-westerly through Pouce Coupé to 21st base line; a line from Big River northerly to Île A la Crosse, and a line along 19th base across ranges 5 to 9 west of the Sixth meridian.</td>
</tr>
</tbody>
</table>
### APPENDIX No. 2.

Schedule showing for each surveyor employed the number of miles surveyed of section lines, township outlines, traverses of lakes and rivers, and resurvey; also the cost of the same. Surveyors whose work cannot be reckoned in miles are omitted from the statement.

<table>
<thead>
<tr>
<th>Surveyor</th>
<th>Miles of section</th>
<th>Miles of outline</th>
<th>Miles of traverse</th>
<th>Miles of resurvey</th>
<th>Total mileage</th>
<th>Total cost</th>
<th>Cost per mile</th>
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<tbody>
<tr>
<td><strong>Akman, J. R.</strong></td>
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<td>321</td>
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<td><strong>Aylsworth, C. F.</strong></td>
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<td>86</td>
<td>138</td>
<td>148</td>
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<tr>
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<td>345</td>
<td>90</td>
<td>105</td>
<td>115</td>
<td>467</td>
<td>3,875</td>
<td>8.34</td>
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<tr>
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<tr>
<td>Fletcher, J. A.</td>
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<tr>
<td>LeBlanc, P. H.</td>
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<td>Lighthall, A.</td>
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<td>9.78</td>
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</tbody>
</table>

**Total cost includes depreciation of outfit.**  
**Ceased work in July owing to illness.**  
**Took charge of Mr. Aylsworth's party.**
### APPENDIX No. 3.

**DETAILS OF OFFICE WORK.**

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<th>Type of Work</th>
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<tr>
<td>Sketches, maps, and tracings</td>
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<td>Returns of survey examined:</td>
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<td>Township outline</td>
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<tr>
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<td>Yukon lots and miscellaneous surveys</td>
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<tr>
<td>Mineral claims</td>
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<td>Timber berths</td>
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<tr>
<td>Preliminary township plans</td>
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<td>Revised maps</td>
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APPENDIX No. 4.

INSPECTION OF SURVEYS AND SURVEY PARTIES.

Inspection by G. J. Lonergan, D.I.S.

The work which Mr. Lonergan had charge of consisted of the general business of the Government relating to surveys, and the inspection of survey parties. This inspection included reports on the instruments in use, the efficiency and organization of the party, the methods of performing the surveys, and the suitability and proper care of the transport. The general business included, among other things, the work of disposing of articles of transport that were of no further use. These were sold at public auction wherever possible, but in some cases where the articles were old and of little value, and had been stored at isolated places, private sales were arranged.

Contracts were also drawn up for the wintering of government horses and the storing of the outfits. Three places were accordingly arranged, one at Peace River, one at Prince Albert, and one at Portage la Prairie.

There were numerous other small jobs, such as shipping horses and various articles of outfit from one place to another for surveyors who required them, keeping in constant communication with surveyors in the field in order to attend to as much of their outside business as possible, such as engaging men to replace men who had left, looking after the shipping of supplies, etc.

During the inspection of a party in the field, all the instruments were carefully examined and the chains tested; notes were taken on the methods of running the lines and taking the astronomical and magnetic observations, and some of the block closings and observations were checked; some time was spent discussing the surveyor's methods and comparing them with those of other surveyors.

Seven stadia parties were inspected during the season. These were scattered throughout different parts of southern Alberta and Saskatchewan investigating dried-up or flooded water areas. Their work is important, and is caused by the changed climatic conditions resulting from agricultural development, drainage, and irrigation work. The shore lines of lakes are changed, some lakes drying up in whole or in part.

One party retracing old base lines and meridians was inspected, and also three parties in the Peace River district who were doing subdivision work in the bush country.

An accurate system of levelling is carried over each township, which will in the future be a great advantage in drainage work, the laying-out and locating of settlement roads, and the location of railways.

Four of the parties inspected were surveying in the railway belt, British Columbia. As most of the low land in the valley is now subdivided, the work is high up in the hills and, consequently, more expensive.

The conditions under which the different surveyors were working, as compared one with another, differed so greatly that the cost per mile was absolutely no guide in comparing the efficiency of the different men.

One party was subdividing in the valley of Chilliwack river where the fir trees are four feet in diameter, in a regular jungle of underbrush, while another surveyor was northeast of Revelstoke running part of the belt limit over snow-capped mountains. Blocks where one corner would be up on a mountain side fifteen hundred feet higher than the other corners closed as accurately as those of surveyors working in flat country.

25b—3
Weather conditions varied in the different parts. In southern Alberta and Saskatchewan the spring was wet and, therefore, much time was lost, while in northern Alberta there was an extremely dry spring and summer. The first rain fell on July 3, and very little fell during the remainder of the season. The amount of rainfall made itself felt on the crops, as in the south an abundant crop was harvested, while in the north only the farmers who had their grain sown early, and who made some attempt to conserve the moisture, reaped any harvest. Hay was also scarce in the Peace River district, but this is the first time since the country was opened up that crops were a failure. Many intending settlers fear going into the Peace River valley on account of it being so far north, but the spring season is at least ten days ahead of Edmonton and the Edmonton district has proven itself beyond all doubt a successful farming country.

Inspection by A. M. Narraway, D.L.S.

The work on which Mr. Narraway was employed was of the same nature as that performed by Mr. Lonergan. Mr. Narraway visited eighteen parties, including those engaged on base line surveys and most of the regular subdivision parties.

To investigate all details, such as the suitability of the men for the particular class of work they were engaged in, the board and accommodation supplied to them, the suitability of the transport outfit and the care taken of the same, the manner in which the field work was performed, and a close examination of all field-notes, it was necessary for Mr. Narraway to remain in a camp two or three days, the first portion of the time being spent in actual examination, and the remaining portion in discussing the work with the surveyor in charge in order to come into close contact with every phase of it. Methods used by other surveyors in attacking problems of a similar nature were discussed, and an opportunity given to the surveyor to try these out in actual practice.

During recent years many changes have been made in the character of the surveying being done, necessitating new styles of equipment which must be supplied by the department or by the surveyor. In some cases the equipment must be devised and constructed by the department, with little practical information to build upon; in other cases the surveyor purchases the equipment at short notice in his immediate locality, where his choice is very limited, and the results are not always entirely satisfactory. Among the former might be mentioned the tools necessary for boring and digging the holes for planting the new style of iron post. Owing to the varying soils encountered it is extremely difficult to devise standard tools, and in districts where rock is found, special posts must be devised and equipment must be furnished for drilling the holes. This equipment must be light and compact and easily transported. Among the latter cases might be mentioned motor engines, democrats, wagon springs, etc., which are not stocked, and which take considerable time to obtain.

Eight of the parties visited were employed in township subdivision. Three of these were working in Manitoba, two in Saskatchewan, and three in northern Alberta. One of the parties in Manitoba was working along the east shore of lake Winnipeg, and the other two in Pas district. The country immediately east of lake Winnipeg is very low and wet, with scattered outcropping of granite rock. Passing from the large rock areas in northern Ontario westerly into Manitoba it is noticed that the rock outcroppings decrease in elevation, and that there is more level country until lake Winnipeg is reached, where the level country is the prevailing characteristic and the outcroppings more scattered. The east shore of the lake, therefore, is low, with numerous sand beaches, and broken here and there by the projecting rock which forms numerous bays with rocky points extending far out into the lake, forming dangerous reefs. In some cases, however, the muskeg reaches the water, and then usually moss in layers six and seven feet thick are exposed.

The country around Pas is low and flat, and is flooded frequently by Saskatchewan river. It is a country of lakes. About four miles above Pas, Carrot river enters the
Saskatchewan. Along this river there is some very good land, and with drainage systems properly installed, or with the prevention of the floods, this land will become valuable.

The two subdivision parties visited in Saskatchewan were working in the Prince Albert district, one near Candle lake and the other near the town of Big River.

The country around Candle lake is gently rolling and covered with bush. Settlement is gradually approaching the lake, with good roads to Prince Albert. Near the outskirts of the settlement very good progress is being made in farming. The soil is good and the clearing fairly easy.

The town of Big River is essentially a lumbering town, and is connected with Prince Albert by a branch line of the Canadian Northern railway. The mill located there, which is the life of the town, was running night and day, employing many hands and paying high wages. To the north of the town there is some good land available for farming, and there are some large hay lands on which considerable quantities of hay are being put up yearly by this lumber company.

In northern Alberta three subdivision and two base line parties were inspected. The first party visited was working about forty miles northeast of the town of Peace River, near Cadotte lake. The country there is gently rolling, and in many places thickly timbered. The other two subdivision parties were working farther north along Peace river.

The first base line party visited was working west of Fort Vermilion near the Sixth meridian along the 29th base line. The country around Fort Vermilion is gently rolling and lightly timbered, with considerable prairie lands, and is an excellent hay country. The banks of Peace river are not high, and goods from steamers are easily landed. Some very good farms are in operation at this northern town on both sides of the river, and good fields of wheat, oats, corn, and vegetables were seen. It is also worthy of mention that the crops were not frozen this season in the Fort Vermilion district, while they were in the upper Peace river country and the prairie districts so much farther south.

About fifty miles below Fort Vermilion the river widens to over a mile and the water rushes over a series of limestone ledges forming rapids and falls known as the "Chutes." Scows coming down the river are unloaded at the commencement of these rapids and run light past the "Chutes" and are then reloaded at the foot with the goods which have been portaged four and a half miles around along the bank of the river.

About 100 miles below the "Chutes" small rapids are passed, extending along two miles of the river, but these are easily run by canoes or scows, and by larger craft in high water. These rapids and the "Chutes" above were the only rapids met with in the whole trip from Peace River to lake Athabaska.

Commencing at these rapids and continuing for about twenty miles below considerable outcroppings of gypsum are to be seen on both banks of the river. In places the whole bank is composed of this mineral and in one case an island of over five acres was seen with vertical banks of gypsum.

About twenty miles below these rapids at a long bend in the river a point is encountered, known as Peace point, so named by the Indians to commemorate the signing of a peace treaty between the Chipewyan Indians from lake Athabaska and the Beaver Indians from the Fort Vermilion district. Scattered across this point there are numerous holes from ten to twenty feet in diameter and about twenty-five feet deep, which were dug as fighting trenches in the fight just previous to the signing of the treaty. From this point and continuing northwards the country is rolling prairie with scattered poplar bluffs. The second base line party inspected was working along the 30th base line on the north side of Peace river. The banks of the river there were about 125 feet high.
From there the inspection party proceeded down Peace river to the south of
the Quatre Fourches channel and up this stream to lake Athabaska and Fort Chipewy-an. The Quatre Fourches channel, so named on account of the forks close to lake Athabaska serves as a drainage of the lake during low water in Peace river and during the high water of the Peace the water flows into the lake. During the fall of the year the current is very strong from the lake into the river.

Fort Chipewy-an is built on a high rocky ledge on a point on the north side of lake Athabaska. It is a typical trading post. At present in addition to the Hudson’s Bay Company’s post there are several free traders.

The entrance from lake Athabaska into Athabaska river is exceedingly difficult to find, as there are several channels forming a huge delta, but in the fall of the year only two of these channels are serviceable. Extending out into the lake there is a mud ledge composed of silt carried down by the waters of the river; this ledge is about fifteen inches from the surface and the channel through it is hard to locate; even experienced travellers in this region are compelled to do considerable poling to follow it successfully. From Peace river to about twenty miles up the Athabaska only willow is to be found along the west and south sides of the lake, the banks of which are only a few feet above the water level. Behind the fringe of willow along the Quatre Fourches channel there are immense areas of hay lands ready to be utilized. The country just west of the lake is an ideal place for geese, waveys, and ducks, and immense numbers of them were seen. Whitefish and pink-eye were being put up by the Indians and the trappers for dog feed during the winter.

For about three miles below McMurray there is a very strong current which is caused by the widening of the river and the resulting shallowness of the water. In the fall only light boats are able to proceed to the town.

The next work was the reinspection of a survey contract of 1914 just below House River which required several days. At House River there is a telegraph station and a store. It has come into prominence because it is at the head of a long stretch of rapids on the Athabaska and is the starting point for a portage to McMurray. A pack train travels over this portage accommodating passengers and mail.

**APPENDIX No. 5.**

**BASE LINE SURVEYS.**


The route followed to reach the work from the town of Peace River was north along the sleigh trail to where it crosses Notikewin river. This point is about twelve miles from the northeast corner of township 92, range 22 on the 24th base line where the season’s operations were begun.

Work was started on April 8 and by May 2 the 24th base line was completed to the Sixth meridian. The line was then continued twelve miles west of the meridian and on the 11th, the party started for the 25th base (north boundary of township 96). A few days previously two men had been sent ahead to find the end of the 25th base and blaze a trail which would be cut out by the party as the pack train moved up.

The route taken in travelling from the end of the work on the 24th base to the beginning of the work on the 25th base was: first back the trail along the 24th base to where it crosses the trail from Peace River to North Vermilion; along this trail north
to Hotchkiss river; and from there across country to the end of the 25th base. There was some difficulty experienced on this latter portion of the trail as it was necessary to cross about nine miles of heavy windfall.

The survey of the 25th base was begun on May 19 at the northeast corner of range 22; it was completed to the Sixth meridian on June 2 and was then produced eighteen miles west of the Sixth meridian.

On the 13th the trip of about one hundred miles was started to the 29th base (north boundary of township 112). This trip was by far the most trying part of the season’s work. The days were long, there being only about two hours of darkness. The horses failed very rapidly, as the “bulldogs” or horse flies were especially bad last season, and the Indians say that they killed all the young moose.

The trail followed in going from the 25th to the 29th base was up the Sixth meridian trail to section 25, township 99; from there along the Peace River-North Vermilion trail to Keg River post; from Keg River post along a wagon trail to Chinchaga river; and from there along the Sixth meridian trail to the 29th base. Much of this latter portion of the trail was obliterated or filled with slash. The party reached the 29th base on June 25, and the survey was commenced at the Sixth meridian, running westward. For a while the work did not proceed very rapidly, as the weather was hot (the thermometer standing as high as 114 degrees Fahrenheit), the flies exasperating, and the water bad. The country was also thickly wooded, the line passing through some fine timber along Chinchaga river, but on July 18 the open country of Hay lake was reached. The breeze from the open country kept the flies in the woods, the water was good, and about three hundred fish were caught in a small stream on which the camp was pitched.

On July 22 the 29th base had been produced as far as Hay lake, in range 7. Work on this base was discontinued at this point and the party started for the 28th base (north boundary of township 108). This base had already been run westward as far as range 19, west of the Fifth meridian and work was begun in this range on August 3.

The trip from the end of the work on the 29th base to the beginning of the work on the 28th was about one hundred miles by trail and the route followed was as follows: back along the base line trail to the wagon road from Hay River post; thence along the wagon road in a southeasterly direction to range 18; and then on a trail which the party cut to the 28th base line.

This line was completed to the Sixth meridian on September 2 and was then produced twelve miles west of the meridian. When this was done the party moved south to the 27th base line (north of township 104) which had been previously run to the Sixth meridian. It was now produced eighteen miles west and the party then moved southeast to tp. 100-20-5, to the end of the 26th base. This line was then produced westward twelve miles west of the Sixth meridian where work was stopped for the season. On October 31 the party started for home. The horses were packed as far as the prairie on Notikewin river, where sleighs were hired with which to complete the journey to Peace river. This place was reached on November 10.

Along the 26th base through ranges 22 and 23 on both sides of the line the country is fairly open or lightly wooded with small poplar and willow. In range 23 the country is nearly all open and is well suited for immediate settlement; several settlers located there during the summer of 1916. Range 24 between Notikewin and Hotchkiss rivers is heavily wooded with spruce and poplar up to twenty-four inches in diameter. This timber extends four or five miles north of the line and ten or twelve miles south of the base line.

Hotchkiss river enters the Notikewin about twenty-five chains north of where the latter stream is crossed by the base line. The Notikewin thence flows in a northeasterly direction for some distance where it is joined by Meikle river which enters it from the
west. Along these rivers the soil is good and there are many fine flats. About twelve miles north of Meikle river is the southern end of the Hawk hills. These are a continuation of the Naylor hills, as there is only a slight depression of the elevation between them. The eastern edge of these hills extends north in range 22 to within four miles of the 26th base, where they swing westward running a little north of west. They cross the 26th base line in range 24 and the Sixth meridian in township 101. The southern edge follows Meikle river in a northwesterly direction and about six or eight miles from it crossing the Sixth meridian in township 98. There is a strip of fairly good timber on the southern and eastern slope. The top of the hills is lightly wooded with small spruce, poplar, willow, and alder. There is little feed but the soil is fairly good.

The country west of the Sixth meridian as far north as Chinchaga river is hilly and lightly wooded. The soil is fair and along the rivers there are some fine flats with good feed.

North of the 26th base line to about the 26th correction line there is a good strip of fairly open country that extends from near the Sixth meridian to Peace river. The good country also extends a few miles south of the 26th base line. Part of this strip is what is known as Keg River prairie, which though not very large, as it comprises only about two townships, is as fine a piece of country as could be desired.

A strip of open country joins Keg River prairie with what is locally known as Paddle River prairie. This is a strip of open country about a mile wide lying along the south branch of Paddle river or as it is called on the explorer's map, Oliver river. A wagon road runs from Keg River post following this open country to Fort Vermilion. One thousand pounds can be taken over this road by a team of cayuses in a wagon.

North of the 26th correction line to the 28th correction line and from Peace river to the Sixth meridian is a fine stretch of level country with good soil. The only drawback to this section of country is that the water is very disagreeable having alkaline and iron salts in solution, though it appears to be all right for stock. This is probably due to the presence of sodium chloride which is a necessary ingredient of their food. The portion of this country lying south of the 27th base is covered with considerable windfall, but north of that there is very little, the surface being lightly wooded with poplar, willow, and some spruce. There are also many open patches.

West of the Sixth meridian to within a mile of Chinchaga river and north about three townships from the 27th correction line lies a section of poor country, being made up of bogs and muskeds. This area would be of no use in its present condition, but might be valuable when drained.

Between the 28th correction line and the 29th base line lies the Watt mountain. Its direction is about west-southwest, its northeast end being about three miles south of the 29th base line at the east side of range 21, and its southwest end about the correction line in range 23. It is lightly wooded and the soil is inclined to be stony.

From Watt mountain north to Hay river and westward to Hay lake is a country very similar to that previously described lying south of the 28th correction line. The land is very level and the water unpleasant. The soil is good and generally lightly wooded or open. There are, however, some fine patches of timber on points along Chinchaga river that have escaped the fires. In these patches are some very fine spruce, tall, straight, and with a diameter up to thirty inches.

Around Hay lake the country is very level. At one time there was a large body of shallow water probably twenty miles in length by eight or ten miles in width. The greater part of this is now dried up, and on the old smooth, level lake bottom is an abundant growth of fine hay, and many thousand tons of hay could be cut without any improvement, and with some draining this amount could be doubled. There is, however, a possibility of it flooding, due to a heavy fall of snow during the winter and a quick thaw in the spring. The Indians say that there has been no flood for the past fifteen years, but they are always afraid to leave their horses all winter in the vicinity of the lake in case they get caught in a spring flood.
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South of the lake is a ridge of high hills about thirty miles long in a direction nearly east and west, on which ranchers or settlers should erect their buildings. South-east of this ridge a fine growth of spruce timber is reported. A railroad built from there to Peace River or to a railroad joining the town of Peace River with North Vermilion (the preliminary survey of which was to be made last winter) could be used to ship out the timber or hay to other parts of the Peace River district wherever needed. Such a road could be cheaply built, as the country through which it would pass is very level, with no hills, valleys, or muskegs. No rock in place was seen during the season, nor any mineral.

Moose are fairly plentiful, especially in the vicinity of Notikewin river and its tributaries. Feathered game is scarce, except geese in the spring and ducks in the fall, but of these there are many. Animals such as lynx, black, silver, and cross foxes, mink, fisher, bears, martens, and ermine are plentiful, and many settlers and others find very profitable occupation during the winter months trapping these animals.

Fish, especially jackfish, are very plentiful in the Hay Lake district. There are also some fish in Chinchaga river, but as the water of this river is not very favourable to them, they are not very numerous. Chinchaga river has its source in the muskegs on the Clear hills and on the divide between it and Liard river. The water is therefore a brown colour like all muskeg water. Neither this river nor Hay river is navigable, except for canoes or gasolene launches, and Chinchaga river is also well suited for similar craft, except for a series of small rapids at its farthest west point directly west of the west end of Watt mountain.


An early start was made by Mr. Blanchet for the survey of portions of the 19th and 20th base lines west of the Third meridian. The party left Prince Albert on March 15 and Big River, the end of steel, the following day.

A good winter road runs from Big River to Ile a la Crosse, by which fish are brought out from the northern lakes and trade goods and supplies brought in for distribution by water during the summer. This route is good for travel till about the end of March, though by that time the portages between the lakes are beginning to get bare. Usually baled hay is obtainable only at La Plonge, and there are no oats to be had after leaving Big River.

Ile a la Crosse, which is about 175 miles from Big River, was reached on March 22, but the freighters who were bringing in the supplies did not arrive till the 25th and consequently the party were delayed as the freighters had most of the horse feed. From Ile a la Crose there was no trail broken, and as the snow still lay deep and heavy in the bush, it was necessary to send a party of men ahead on snowshoes followed by a four-horse team hauling an empty sleigh to make a trail passable for loads.

Camp was pitched near the end of the line, in range 17, on March 28 and the starting point was checked the same day. On the following day the work of producing the line began. Sleighs were used for transport as long as the snow and baled hay lasted. The cache there included hay for a month and oats and supplies for two months. This was the maximum that such a transport outfit could handle, and later it was necessary to assist the horses by doing a certain amount of man-packing. On April 21 the last of the hay was used, and as the ground was bare in open places the sleighs and harness were cached and horses used for packing. On move days the men assisted by packing their beds and dunnage to the end of the line. The spring was a very disagreeable one with falls of snow at intervals till the first of June. This made the spring growth very backward and as a result of the poor feed combined with the heavy work several of the winter horses were completely played out.

The 19th base line was completed to the Fourth meridian on May 20, and the next day a start was made north for the 20th base line, which was reached after three days'
travel. The grass had now grown sufficiently in the more open places to supply fair nourishment to the horses and during the remainder of the season feed was plentiful.

Fortunately the amount of chopping on the line was not great, and, in spite of the shortage of men, some of whom had quit, the work progressed well, while the light loads gave the horses a chance to recuperate. Men and supplies reached camp on June 19, and during the next month under favourable conditions of weather and country the line was produced without difficulty through the hilly district of upper Dillon river. From range 19 to range 12 good waterways exist and all the heavier transport was handled by scow towed by a canoe equipped with a gasolene engine. The country eastward from range 19 is comparatively level and on account of the poor drainage there is much lake and swamp land.

Eight crossings of Ile a la Crosse lake and its bays were made, and for transporting the men and supplies the gasolene boat was invaluable. The horses were found to be almost useless there, so were sent back to Edmonton.

After leaving Ile a la Crosse lake all supplies had to be handled by man-packing. No horse feed was seen in the country passed through east of the lake and trail work for horses would be very heavy. The work there after several moves proved too much for the local Indians who were hired to replace some men that had quit, and most of them left. It was, therefore, decided to close work for the season after running to the easterly side of range 10. The outfit and party, now reduced to thirteen, were taken out by means of the gasolene boat and scow, up Beaver river to Green lake, and thence overland by Meadow lake to the railway at Meota and by train to Battleford, where the party was disbanded.

The precipitation during the season was heavier than normal and consequently the lakes and rivers were unusually high. The spring was decidedly cold and the summer mostly cool with much high wind. Mosquitoes were exceptionally numerous which was one of the factors making it difficult to keep men in the bush.

Description of the Country.

From range 18 westward the country rises fairly steadily on both base lines to the height of land near the Fourth meridian, the rise amounting to about seven hundred feet. The direction of drainage is roughly northeast, and the surface of the slope varies from gently rolling to hilly. The distant sky line, where seen, usually appears as a long ridge. Eastward from range 18 the surface is, in general, fairly level.

The district traversed during the season forms part of the drainage area of Churchill river. Three principal streams drain this district, flowing towards Churchill river, namely, Beaver, McCusker, and Dillon rivers. Beaver river, of which Calder river is a branch, after flowing in a great circle to the south, swings back to the north and enters Ile a la Crosse lake at its southeasterly corner. McCusker river rises in the hills to the west of Canoc lake and flows northerly into Niska lake and thence by Little Buffalo lake and McBeth channel to Ile a la Crosse lake. Dillon river and its tributary streams form the most important topographical feature of the district considered. It absorbs nearly all the water draining from the hills to the west and southwest of Buffalo lake. Along the course of these streams and the numerous lakes they drain is to be found the best land of the district. Dillon river drains through Buffalo lake and McBeth channel to Ile a la Crosse lake. Churchill river flows out of the northeasterly corner of this lake.

Water-power could be developed on all these rivers as rapids are numerous and the fall in them sometimes considerable, but only in Beaver and Churchill rivers is the discharge sufficient for any large development of power.

The soil of this district varies from an almost pure sand to heavy clay and nearly everywhere contains some gravel or boulders. The accumulation of mould is nowhere deep owing to forest fires. In general the soil is better on the lower slopes of the elevated region and especially along Dillon river and its branches.
In the level country to the eastward the soil seems to be chiefly glacial débris, in which boulders are thickly strewn. The shores of the lakes and beds of streams are usually formed entirely of boulders. There are no outcrops of rock in this district though it was reported that tar sands had been observed on Buffalo lake.

In common with most of the northern country the original timber has been burnt off almost everywhere though a former splendid forest growth is evidenced by scattered clumps, isolated trees, and burnt stumps and logs. Brule six months to thirty years old was observed, showing that many different fires had swept the district. In the hilly country along the 19th base line in ranges 18 to 23 there is a sturdy second growth of poplar, spruce and birch which should make good material for a forest reserve.

Most game and fur-bearing animals common to the North are to be found there, and hunting and trapping are the chief occupations. Good fish are found in most of the lakes, and in the larger lakes during winter, whitefish are caught and exported in great numbers.

With the opening up of the country ranchers may be attracted by the good growth of hay in several localities. The Alberta and Great Waterways railway which passes about forty miles west of the Fourth meridian brings this district within reasonable touch of civilization.

Survey of Base Lines by J. A. Fletcher, D.I.S., west of Lake Athabaska in Northern Alberta.

To reach the scene of Mr. Fletcher’s survey operations, the party travelled down Peace river to Chipewyan, at the head of lake Athabaska. Three seows were required to carry the party, camp outfit, supplies, iron posts, oats for the season, twenty-five horses, and the necessary feed for the trip down the river. At Fort Vermilion three more horses were loaded on the seows as well as two wagons and two sets of harness to be used on the portage at the “Chutes,” which were reached on May 8.

A wagon portage has been cut on the south side of the river around the Chutes, by the Hudson’s Bay company. The road commences about a mile above the rapids where there is a good steamboat landing and after four and a half miles reaches the river again about a mile, below the Chutes where there is another good steamboat landing. The seows were unloaded at Big island in tp. 112-23-4, after which camp was moved to the vicinity of the 29th base in range 24.

On May 16 the survey of the 29th base line was commenced and the work was continued without interruption until the survey was closed in range 17 on the 30th base line on October 7, about two hundred miles having been surveyed during this period.

On June 1 as the line was nearing Peace river in range 21, three men were sent to bring to camp the seows and supplies from the vicinity of Big island. These seows were used to cross the horses over Peace river and also for moving camp from range 21 to range 19. In range 20 the surplus supplies and oats were sorted into one seow and sent to Chipewyan where they were stored. Three canoes were used on Peace river. One of these was sent to Chipewyan with the seow, while the other two, together with about two weeks’ supplies, were cached in range 19. The other two seows were sold to the Hudson’s Bay company.

On reaching lake Claire, section lines were run around the north end of the lake in ranges 14 and 13.

On the arrival of the party at lake Athabaska, it seemed that the pack train would not be needed for fifteen or eighteen days, so it was left in charge of the third packer, while the first and second packers took six horses and, with some assistance, put up sufficient hay to winter the packhorses, seventy-five or eighty tons being stacked on the west side of the Quatre Fourches channel in township 111.
Work for the season was stopped in township 117, range 16, and the trip out began on October 8.

From range 24 to range 15, the land along the base line is of the same general nature. The surface is rolling as far as the end of range 19, at which point it rises abruptly, gradually sloping again to lake Claire in range 14. The soil is alluvial westerly from range 20, and swampy areas are found throughout except in range 19. Timber grows to merchantable size except in the swampy parts and on the ridges, the principal species being spruce, birch, tamarack, poplar, and willow, with jack pine in patches. In ranges 17 to 15 the soil is lighter and the timber consequently smaller.

The country from ranges 14 to 8 inclusive is almost level, all this land being only a few feet above the level of Athabaska and lake Claire, the soil being mostly formed by alluvial deposits from Peace and Athabaska rivers. Most of the country from the north end of lake Claire for a distance of two miles and to the east of lake Claire to lake Athabaska is alternate hay meadow and willow fringes, with patches of timber and brulé and some good milling spruce along the three channels from Peace river, the most important of which is the Quatre Fourches channel. This district would make an excellent stock country as hay grows in abundance; it is, however, subject to flood in abnormally high water. There are numerous sloughs and lakes in this area and vast numbers of ducks and geese stop here before their flight south in the fall. These form the staple meat diet of the people of Chipewyan most of the year. The western end of lake Athabaska is very shallow and the channel of Rocher river can be easily traced out past Chipewyan into the main body of the lake.

In the spring lake Claire and Mamawi lakes are drained by the Quatre Fourches channel into Peace river. In June and July the water in Peace river is high and Quatre Fourches channel reverses and flows into lake Athabaska. The middle channel flows through Baril lake into Mamawi lake and thence into both lake Claire and lake Athabaska. Claire river also flows into lake Claire. Should the Peace be more than usually high the water also flows by Rocher river into lake Athabaska. In July the waters of Peace river subside and about the first of August the Quatre Fourches channel begins again to flow toward the Peace, while Claire river and Baril river become backwaters blocking near Peace river. As the Peace continues to fall in September and October, Quatre Fourches channel attains a current of three to four miles an hour but navigation remains unobstructed. Rocher river, however, develops considerable rapids on either side of the island crossed by the east outline of range 8 in township 114. Only boats with surplus power can ascend these rapids in low water; other boats avoid them by going up the Quatre Fourches channel.

Mamawi lake is shallow with weeds growing to the surface in most parts. Its shores are generally marshy for some distance before solid ground is reached. Baril lake is also shallow but the weeds are not so prevalent as in Mamawi lake. No place was found in either of these lakes, except near the intakes or exits, where the water exceeded five feet in depth. Lake Claire is a large body of water with numerous bays and peninsulas. The channels joining it to some of the small lakes near it, or to some of its bays, are quite deep, the action of the wind sometimes causing strong currents in them. The shores of lake Claire are generally solid and of a peaty composition, and hay grows abundantly all around it. Numerous old backwaters, sometimes four or five miles long, wind about the country and sloughs with marshy edges are quite frequent. Sedimentary action is constantly going on in lake Claire, Baril lake, Mamawi lake, and the western end of lake Athabaska.

East of Rocher river the county is mostly of the Laurentian formation, the surface being rolling and broken with rocky ridges and valleys between, with the soil light and swampy. The timber on the hills is mostly jack pine, while in the valleys the timber is spruce, poplar, birch, tamarack, alder, and willow. There are numerous small lakes and ponds in this country, the nature of which remains much the same
up to the 30th base, and continuing rocky and broken, some of the hills being 160 feet high.

On approaching Slave river on the 30th base line from the east, alluvial soil is reached in the second mile from the river. This alluvial soil extends through range 9 and the eastern half of range 10. This country is almost level, has a rich black loam, and is covered with spruce, poplar, and some tamarack, with willow and hay meadows. Ranges 9 and 10 are drained directly by Slave river and Murdock creek, which is about forty feet wide and has a sluggish current and banks about fifteen feet high. Peace river in high water floods into this creek, when there is a good current, but usually the Peace does not flow into this stream, and the water stands almost at a level with its mouth where it joins Slave river, near the 31st base line.

The western half of range 10 changes to lighter soil, and range 11 consists of sandy ridges and rolling country, with flat intervals of marshy meadows and tamarack swamps. There is considerable old brule in this area, with scattered patches of green spruce, poplar, tamarack, and jack pine.

On entering range 12 the country is still rolling and the soil fairly good, though somewhat light. Jack pine to twelve inches, some spruce, and poplar form the timber. Some stretches of good milling spruce up to eighteen inches in diameter border Peace river. North of Peace river about five miles a swampy area, with some lakes and sloughs is entered, and the drainage is in somewhat sluggish streams toward the northeast. In range 13 some moss-covered ground with spruce timber and some spruce muskeg was passed over, entering better country to the west. Ranges 14 and 15 contain some good agricultural land, the soil being a clay loam, timbered with small poplar, with a good growth of grass and peavine. Underlying this ground at varying depths are areas of gypsum.

Ranges 16 and 17 are alternate loam and sandy loam areas with some light rolling ridges south of Peace river.

The only place where farming operations have been attempted in this district is at Chipewyan. The settlement there is located on a rocky point extending southward into lake Athabaska. There are some small patches of good clay loam soil between the granite hills, and in these vegetables such as potatoes, turnips, lettuce, beets, etc., are grown successfully.

Power could not be developed economically anywhere in this neighbourhood. No coal seams were noticed and no stones or minerals other than gypsum and granite were in evidence. The climate was very fine, the month of June being rather dry, but rain fell frequently and not excessively in July, August, and September, so that vegetables grow very well at Chipewyan, while wheat, oats, potatoes, etc., were a fine crop at Fort Vermilion. This is noteworthy when it is known that the frost spoiled the crops at Peace River and many sections of the West during 1916.

Jackfish, ling, pickerel, gold-eye, and whitefish seem plentiful in the rivers, lakes, and back-waters in this country. Partridges and chickens are quite often seen, especially near Peace river. Fur-bearing animals are plentiful, foxes, mink, beaver, lynx, muskrats, skunks, etc., being seen. At present the fur trade is the chief source of income to the people in this country. Their living is helped by the ducks, geese, fish, vegetables, and game found or grown there. Very few moose were seen during the summer, but bears are fairly numerous along Peace river, while some buffalo tracks were seen north of Peace river from Point Providence.

There is enough timber in the country to meet the building requirements of settlers for some time. The Roman Catholic mission have built a saw-mill near Chipewyan to supply local needs. Minerals have not been found of economic value, but some prospectors are making some tests by drill on the east end of lake Athabaska, nickel, copper, and silver being supposed to be present in paying quantities.
APPENDIX No. 6.

SUBDIVISION SURVEYS.


The townships in which Mr. Baker was employed lie along the Sixth meridian, north of Whitemud river.

The work was reached from Peace River by the Bear lake and Battle river wagon trails, the latter crossing the 24th base line in tp. 92-22-5. The trail as far as Bear lake was good, but from there to the 24th base line it was very bad in places.

The streams in this work were not traversed at the time of survey on account of the heavy growth of willow and the high water. The work was done later in the season when the traverse could be made on the ice.

The surface of township 89-25-5 is nearly half muskeg and is not therefore suitable for settlement. The westerly half of tp. 93-24-5 is heavily timbered, and was consequently not subdivided. The whole of tps. 92 and 93-23-5 was subdivided as well as tp. 92-22-5. When the subdivision was completed the assistants and most of the party were paid off, only enough men being retained to do the traversing.

All the land subdivided is at present covered with small poplar and willow, which can be easily cleared, and the area is well watered making it suitable for either ranching or mixed farming.


The area covered by Mr. Brenot's surveys consists of land on both the north and south sides of Peace river, between ranges 15 and 18 west of the Sixth meridian. This country is easy of access and the clearing and cultivating of the land would not be difficult. The plateaux lying on top of the Peace and Pine river hills is undulating, sometimes timbered, but more often covered with a growth of small poplar. The slopes of the Pine and also those of streams flowing into the Peace, are generally grassy and afford good grazing, with the additional advantage of being cleared of snow in the spring long before the bottom land or plateaux. The soil is fertile with a luxuriant growth of grasses. Clearing in many places would not be difficult and much of this land will probably be homesteaded in the near future. The country as it stands, with its numerous hay sloughs and creeks, several of which have a permanent supply of fresh water, forms a most desirable range for stock.

From Spirit River the party travelled north to Dunvegan and thence on the ice of Peace river to tp. 82-17-6 where work was begun. After completing the subdivision of this township and tp. 81-17-6 and also the survey of the east outlines of tps. 81 and 82-16-6, the outfit was moved to the north side of the river. Considerable difficulty was experienced in crossing the river as it was in flood, and though the party crossed safely, one of the horses was drowned.

The subdivision of tp. 81-16-6 was begun on May 26, after which the survey of tp. 81-16-6, tp. 81-15-6, and the north third of tp. 82-16-6 was proceeded with. On September 29 this work being completed, survey operations were closed for the season.

The homesteading and farming prospects throughout the various parts surveyed are for the most part, very encouraging. In the southern portion of township 82 and the northern third of township 81 range 17, the soil is fertile, being sandy clay with clay subsoil, the rich growth of grasses and peavine showing great possibilities for
mixed farming. The necessary clearing in townships 82, 83 and 84 range 16, is comparatively little, the land is rich and fertile as proved by the luxuriant growth of grasses and peavine, and the soil is for the most part four inches of black loam with a subsoil of clay loam. North Pine river runs through township 83, providing a permanent supply of fresh water. Township 84, range 15, with the exception of the southeast quarter, is well timbered with poplar and scattered spruce and jack pine. The southeast portion is one of the richest and most fertile parts encountered in this district, loam to a depth of twelve inches, overlying a clay and sandy clay subsoil being a fair description of the soil. Moose creek running near the east boundary of the township provides a permanent supply of fresh water.

The climate can be compared favourably with that of southern Alberta, and is free from the extremes so often attributed to it. The summers are moderately hot, and generally have an adequate rainfall. Summer frosts were frequent during the season, and most crops were injured, but during previous seasons crops suffered little or no damage from summer frosts.

The condition of travel into this district has greatly improved during the last few years. Since the completion of the Edmonton Dunvegan and British Columbia railway from Edmonton to Peace River, Spirit River and Grand Prairie, only a short distance has to be travelled by teams overland and the trip can be made in six or seven days. In the summer prospective settlers can reach this country by travelling by rail to Peace River, thence up the river, by one of the several steam or gasoline boats which ply between Hudson Hope and Fort Vermilion during the summer months. The trip can also be made by railway as far as Spirit River or Grand Prairie and from there to Fort St. John, by a good wagon road, cut at the time of the construction of the Government telegraph line to Fort St. John and Hudson Hope. No ferries are as yet in operation on Kiskatinaw, Pine, and Peace rivers which this trail crosses. In winter this trail is the most practical route, and mail is carried over it into the Fort St. John district twice a month.


The townships subdivided by Mr. Buchanan last season lie in the Peace River valley about fifty miles north of the town of Peace River.

The general plan carried out during the season was to camp on the river where it was possible to move often, in order to shorten the time of walking to and from work as much as possible. Of course a great many camps had to be made inland but as the river was used as a base of supplies throughout the whole season, the transportation was not a difficult proposition, as the horses were not obliged to move supplies any great distance and for the most part were required only to move each lot of supplies once instead of handling and reloading them, as is required under different transportation conditions. All the work was completed to the correction line moving north, then by sending out three fly camps, the east outlines of townships 96 and 95, range 20, township 96, range 19, and townships 95 and 96, range 21, were run south from the base line. In this way the main camp was kept near the base of supplies and moving down stream in short moves was easier than tracking up as the party would have been obliged to do, had they carried on subdivision work from the base line south to the correction line instead of from the correction line north to the base line.

The conditions under which the party worked were by no means ideal. The country was rough and in most parts densely wooded if not heavily timbered. The mosquitoes were particularly aggressive and unusually active through practically the whole season, which is an exception as generally there is a considerable time at both the beginning and the end of a season's work when the flies and mosquitoes are not troublesome.
On the morning of October 15 the party went aboard the “Northland Call” en-route for Peace River. The traverse party was let off in township 93, range 20, and started work on Peace river, drifting down stream as the main party had done, while the remainder of the party was paid off. After completing the traverse the party reached Edmonton on November 22.

**SURVEYS BY W. CHRISTIE, D.L.S., NORTHEAST OF PRINCE ALBERT.**

The area surveyed by Mr. Christie lies in the immediate vicinity of Candle lake, about fifty miles northeast of Prince Albert and consists of tps. 55 and 57-22-2, tps. 55, 56 and 57-23-2 and the north third of townships 54 in ranges 22 and 23.

Two wagon roads from Prince Albert lead to this district. The more westerly one passes through settled country by way of Henribourg in tp. 51-23-2 and Paddockwood in tp. 52-25-2. From Paddockwood a road locally known as the “Mosher Trail” runs northerly across township 53, and thence northeasterly across townships 54, in ranges 24 and 23 to the bank of a creek about half a mile from where it empties into Torch lake. This road is graded and in fairly good condition as far as the north boundary of township 51. Through township 52 it is also fairly good, some improvements having been made on it by the Provincial Government during the past summer, but north of township 52 the road was very bad.

The more easterly of the two roads referred to is the old trail from Prince Albert to Candle lake. This road passes through townships 54 ranges 23 and 22 and township 55 range 23 between Torch and Candle lakes to the fishing station on the southwest shore of Candle lake in sec. 26 tp. 55-23-2. Parts of this road are impassable for wagons in its present condition.

The route followed was via Henribourg, Paddockwood, and the Mosher trail, to tp. 56-23-2 where the work was begun on June 7.

Candle lake is a beautiful body of water covering an area of a little more than fifty square miles, its greatest length from northwest to southeast being approximately twelve miles. Though it extends into five townships, namely, townships 55 and 56, ranges 22 and 23, and township 57, range 23, more than half its area is in township 56, range 23. With the exception of a small bay at the southeast end and a small strip in township 57, range 23, the shores are clean with either a sandy or stony beach. Whitefish are plentiful and a few years ago fishing in this lake was rather an important industry.

The Hudson’s Bay company formerly operated a trading post at Candle lake, but it was abandoned a number of years ago. With the exception of a small garden there is now no indication of any land ever having been cultivated.

Torch lake lies to the south of Candle lake in township 54, range 23, and townships 55, ranges 22 and 23. It has an area of approximately four and a half square miles, its greatest length being about five miles. It is a very shallow, reedy lake, and is from three to six and a half feet deep. The east shore is mostly sandy and stony while the west shore is marshy.

In this whole area the surface is generally gently rolling and around Candle lake is heavily wooded. Except in the muskegs the soil is mostly clay loam with patches of sandy soil.

All the muskegs and swamps are shallow, and there is ample slope to the ground to render draining comparatively easy. If these muskegs were drained and the moss burned off, they would no doubt produce abundance of hay if they did not prove suitable for other crops.

Wood for fuel is plentiful throughout the area covered by the survey.

Practically the only hay land found is that to the north and west of Torch lake in township 55, range 23. Fairly good grass for grazing grows in the woods, however, especially where it has been overrun by fire.
Big game is plentiful, consisting of moose, elk, caribou, jumping deer, and bears. Coyotes are also very numerous, and foxes, lynx, beaver, muskrats, and ermine were also noted. A few partridges were seen.

No coal, lignite, stone-quarries nor minerals of economic value were noted.

The climate is similar to that at Prince Albert. Summer frosts occur, but severe frosts at the time when crops would be seriously damaged are the exception rather than the rule.

The prevailing weather conditions in this district throughout the greater part of the season were very unfavourable for survey work. The unusual amount of wet weather not only caused the actual loss of a good deal of time, but also rendered the condition of most of the roads and trails such that transportation was difficult and costly.


The first work on which Mr. Deans was engaged was the survey of lands at Norway House, which had been squatted on by Indians and other settlers. It was at first thought advisable to subdivide the lands into sections and give the settlers legal subdivisions embracing their improvements, but the settlers were so close together that it was necessary to lay out lots to deal with their claims satisfactorily. Lots were therefore laid out on each side of Nelson river in tp. 57-3-Pr. and 57-4-Pr.

The settlers are engaged in fishing, hunting, and working for the Hudson's Bay company. A few have good gardens and raise potatoes and vegetables which could not be excelled, but the demand is much greater than the supply.

By request of some of the settlers, a site for a public school was laid out, and in this township is also situated the Mounted Police barracks.

The next work was the subdivision of tp. 58-3-Pr. Little Playgreen lake occupies a large part of this township, and some difficulty was experienced carrying the meridians over it, long triangulations being necessary. A great many islands lie in this lake, many of which were traversed. The Methodist mission and Indian school are located in this township on the shores of the lake. A large number of Indian children attend the school, which has a very enthusiastic superintendent and an efficient staff of teachers. This school is accomplishing much good in educating the Indian children and teaching them to do useful work. It is well heated, lighted with electricity, and has all the modern conveniences to be found in any similar institution.

Norway House, a post of the Hudson's Bay company, is situated on the southwest quarter of section 3, in township 58. There was in former years a great deal of business transacted at this post, but of late many private traders have entered into competition with the company and taken away considerable of their trade. The building of the Hudson's Bay railway has cut the business off from the north entirely, so that now all that keeps the post going is the local trade and the supplying of a few outposts to the east. Many tourists visit the place during the season of navigation, the boats leaving Selkirk every Monday.

The next work was at Cross lake, which was reached by the usual route from Norway House, being over Little Playgreen lake and down Nelson river, a distance of about sixty miles. There are five portages on this route, and a number of rapids which, however, can be run without danger by experienced canoe men. The country along the Nelson between Norway House and Cross lake is high and dry along the shores with rock and small patches of good soil, all covered with a thick growth of small white poplar, tamarack, birch, and jack pine. A short distance in from the river are tamarack and spruce swamps. The appearance of the country from the river is very deceptive; the traveller might think he was passing through a fairly good agricultural district, but the dry land extends only a short distance back from the river. About ten miles south of Pipestone lake the rock formation changes from the Lauren-
tian to the Huronian. There is an extensive area occupied by these mineralized Huronian rocks, which offer great inducement to the prospector. This part is easily accessible in summer, as streams and lakes cut it up, and a prospector could get in with his supplies comparatively easy.

The party arrived at Cross lake on September 1 and the next day started to run the east boundary of tp. 65-3-Pr. The boundaries of the land applied for by the Roman Catholic mission were traversed, three lots claimed by squatters were surveyed, and a portion of tp. 65-2-Pr. was subdivided. The land is rocky along the shores of Cross lake, and swampy a short distance inland. There are some small patches of good soil which yield remarkable crops of potatoes and vegetables. One of the squatters had thirty-eight potatoes which weighed sixty-three pounds, and on one-tenth of an acre had eighty bushels. Cabbage, cauliflower, turnips, carrots, and vegetable marrow were raised at the Methodist mission and were of excellent size and quality. Summer frosts occasionally destroy the gardens, but not more frequently than farther south. There is considerable hay in the marshes along the lake but owing to high water last season the settlers were unable to cut it. Fish, of which there is an unlimited supply, is the principal food of the Indians. The township is covered with a thick growth of white poplar, jack pine, spruce, and hemlock, varying in size from three to twelve inches.

On completion of the work at Cross lake the party returned to Norway House on September 29 and completed the stadia traverse at that place on November 17.

The route out was north to the Hudson Bay railway by dog teams and then by rail to Winnipeg.

The next work was the subdivision of Elk island. This island is close to Victoria beach, a summer resort on lake Winnipeg, north of the city about seventy-five miles. The island is mostly high and dry with banks in places forty-five feet high. The beaches are very fine, being sand and gravel, and the water is quite shallow. The soil on the island is mostly sand and of no value for agricultural purposes. The surface of the island is covered with a thick growth of willow, poplar, jack pine, and spruce, varying in size from three to twelve inches, but there is very little of the latter size. The island will make an ideal summer resort.

On January 5 the party commenced a subdivision survey at Birch River station on the Canadian Northern railway in tp. 39-26-Pr. About two years ago there was a big saw-mill at this point and a large number of men were working in the mill who lived in houses erected by the mill owners on land adjoining the railway right of way. The mill was destroyed by fire and these houses are now rented by people having homesteads in the vicinity. Some of these people now wish to purchase these lots and in order to deal with this matter it was necessary to make the subdivision. This work was completed on January 22.

**Surveys by S. D. Fawcett, D.I.S., in the Peace River Block.**

From Spirit River the end of steel on the Edmonton Dunvegan and British Columbia railway, Mr. Fawcett used wagons for the remaining distance of 125 miles to the work.

For the first portion of this road to Pouce Coupee there is a pack-trail which in spring and early summer is passable for wagons, and from the latter place a wagon road is cut as far as South Pine river in range 21. The steep banks of Kiskatinaw river and the other streams crossed, however, render this route difficult to travel and as the Kiskatinaw cannot be forded during flood, which occurs about the first two weeks in July, this portion of road is impassable during that period.

The work consisted of the subdivision of townships 79 in ranges 17, 18 and 19, townships 77 and 78 in range 18, and portions of townships 80 in ranges 17 and 18. Work was commenced in tp. 77-15-5 on April 4, but, as some of the steep slopes were still covered with three feet of snow over bad windfall, progress was slow.
In this whole area the valley bottoms are wide and covered with alluvial soil which is very good for farming. Along Kiskatinaw river the land for half a mile back from the banks is rough and broken with ravines and coulees, caused by drainage into the river. The hilly portions farther back afford good grazing in patches, but ranchers claim that extensive ranching is not possible as there is not enough hay for winter feeding. The land is good for farming when cleared of poplar and willow.

A good belt of timber crosses townships 80 in ranges 18, 19 and 20, but most of the original forest growth in the remaining area has been burned off leaving only some rampikes to show what was once a splendid timbered area. No recent fires have overrun this district as it is now well patrolled by fire rangers.

During July, floods filled the streams, rendering them difficult to cross with a pack-train, but in autumn most of them dry up or become very small.

The climate is not subject to sudden changes, and although frost did damage to crops last year, the grain crop and vegetable yield were excellent the previous season. Damage from frost will likely disappear when the land is cultivated.

Moose, bears, jumping deer, and foxes are plentiful but partridges and chickens are scarce.


Mr. Galletly began operations on April 1 on the east boundary of tp. 56-30-Pr. and on the north boundary of tp. 55-29-Pr.

After the completion of these lines the survey was continued of the settlement along Carrot river in ranges 28 and 29, which had been commenced during the season of 1915. This work kept the party engaged till May 29, when it became necessary to survey the east boundary of tps. 55 and 56-31-Pr. As this line crossed Birch, Elm, and Saskatchewan rivers and ran through much swampy land, it was necessary, in order to reach the starting point on the 15th base line, to go to Pas and around by Saskatchewan river. From this point the line was produced southward for nine miles. The party then attempted to complete the line from Carrot river by running north, but the flooded condition of the river rendered this a difficult task. The continued rainfall kept the water rising till not even a dry place could be found for a camp and the work was discontinued on June 19.

The party resumed work on November 15 and commenced the survey of a wagon road in tp. 55-27-Pr. and tp. 55-28-Pr. The road ran through dense willow and required so much heavy cutting that it was the end of the year before it was completed.

As the settlers in Carrot River settlement began to complain that their lots were too long and too narrow, it was decided to revert to the customary subdivision survey in range 30 and west of that. This change was for the better for not only did the survey cost less, but a larger number of settlers will be attracted by the square lots offering more river frontage and presenting a larger area suitable for immediate use. In the case of the narrow lots about one-third of the land on an average, is ready for immediate use, another third could be improved by the settler himself while the remainder would have to wait for a general district drainage scheme, to be of use. On the other hand giving the settler a square lot will in many cases give him an area, the most of which can be used without further improvement except ditching or draining which he can do himself.

The survey of timber berth No. 920 completed the season's work.

The floods which are mentioned above are from two sources. When the water in the Saskatchewan rises to a certain level it dams the water in Carrot and Opasquin rivers and then these flow for some distance towards their sources. This causes the flooding of Sakkaram and Opasquia lakes and the land which surrounds them, which is very level. The influence of this flood, so far as the Carrot is concerned practically
ceases at the east boundary of range 29, and the country west of this line along the river is quite safe. This flooding of the Saskatchewan occurs about every seven years, although it has flooded recently two years in succession, (1915 and 1916).

Very heavy rains in the spring coupled with a good snow fall in the Opasquia hills, will cause the Carrot to overflow its banks as happened in 1916, and as the banks are the highest part of the land, the country behind is gradually filled up, so that what ordinarily are fine hay meadows become small lakes. Many of these could be emptied as soon as the waters assuage, by means of small local ditches to the river. Settlers are inclined to the opinion that the boom of the Finger Lumber Co. in the river aggravates this flood and that last season they would have been safe if the water had not been dammed back by log jams. This flood caused almost a complete cessation of settlement last summer, but the floods of the Saskatchewan affecting only ranges 27 and 28 are making the settlers go west of these points. It is said that the flood of Carrot river occurs about every fifteen years.

The only farming done last season was the cutting of about 200 tons of hay by one settler and the keeping of about 100 head of cattle by another, this however in spite of the flood which drove about a dozen settlers from their homes. The soil is first-class clay loam absolutely free from stones. The class of buildings being erected is much better than is usually found amongst the first settlers, and many of the men are married and have families. There is a church on lot 60 and if the occasion demands it a school will be conducted there also. Roads are easy to make in winter, but at present the settlers use the river as the only means of communication in summer, many of them being supplied with motor boats.

Every settler there intends to ranch on a small scale, growing enough grain for his own use, and raising garden produce for sale. Cattle will form the chief source of income and this is due to the immense amount of hay which grows in the sloughs adjoining the river. This is of fine quality, often shoulder high and of thick growth.

Lumbering is one of the chief industries at Pas, and the Finger Lumber company own and operate large timber limits along Carrot river, using the stream to drive the logs to the mill. The timber is mainly spruce though there is also some poplar and balm of Gilead. The cut during the winter of 1915-16 amounted to about twenty-eight million feet. Lack of labour is handicapping this industry at present and the cut this season will be considerably less. In normal times about five hundred men are employed at the camps on Carrot river. A large part of the finished product is shipped to the United States.

The past year has seen considerable development in the mining industry north and northwest of Pas, and one company has already begun to ship ore from its properties at Schist lake. There are about one hundred teams at work hauling this from Schist lake to Sturgeon lake where it will be loaded on barges and brought to Pas by steamer in summer. It is intended to ship this to Trail, B.C., for treatment until such time as a smelter can be erected in the vicinity of the mines. It is expected that 150 tons of ore will be shipped daily while navigation is open. The ore is so rich that at the present high price of copper, it is estimated that a profit of $75 per ton or more will be realized, even after paying all expenses connected with transportation and recovery. Sixteen million dollars worth of ore have been blocked out to date on this property.

At Herb lake the gold mining has made considerable headway, and a shaft has been sunk fifty-one feet with very encouraging results. Similar progress has been made on properties on either side of this company's holdings and the results in both cases have been very gratifying.

Many prospectors have come into the country and other finds will likely be reported after the snow disappears.
SESSIONAL PAPER No. 25b

SURVEYS BY A. E. GLOVER, D.L.S., IN SMOKY RIVER VALLEY.

It had been decided to freight the supplies for the season's work up Smoky river from the point where it is crossed by the Edmonton Dunvegan and British Columbia railway, but owing to an earlier break-up than usual this plan had to be abandoned. A trail had to be cut out and the supplies packed from this point to the cache at Little Egg on Selkirk.

On May 4 work was commenced on the east boundary of tp. 76-25-5 and the part of tp. 75-24-5 outside the timber berth. During May all the supplies were packed from the railroad to the cache, and that was used as a central feeding ground for the horses for the summer, grass being abundant there.

On August 28 after completing the subdivision of tp. 74-24-5, tp. 75-25-5 and part of tp. 74-26-5 and the survey of the east boundaries of tp. 76-26-5 and part of tp. 75-26-5, the outfit was moved northwesterly across Smoky river and on the 30th the subdivision of tp. 76-3-6 was commenced. That township, tp. 75-3-6 and survey of the east boundary of tp. 74-3-6 were completed before the close of operations on November 5.

The area surveyed east of Smoky river has suffered much from fires, and nearly all of the country is covered by great quantities of partly burned fallen timber. In places where there have been no recent fires the windfall is very dense, being almost impassable in places. In this part of the country great difficulty was experienced in getting good pack-trails, for it meant a vast amount of work to get a pack-train through. Although a few patches of green timber still remain there is not enough outside of the timber limits to be of any merchantable value. As a result of the many fires the best of the soil has been burned, so that it is not first class from an agricultural view-point. A heavy frost was experienced on the night of August 9.

SURVEYS BY J. E. JACKSON, D.L.S., ALONG THE EASTERN SHORE OF LAKE WINNIPEG.

The subdivision work performed by Mr. Jackson extended along the eastern shore of lake Winnipeg from township 28 to township 32 inclusive.

Work was begun in tp. 28-S.E., the party and outfit reaching there by boat from Selkirk. As all the work lay along the shore of the lake, transportation was effected by boat, except the N. by. tp. 30-S.E., which was reached by a flying camp.

The transport outfit consisted of one twenty-foot cedar boat, four large nineteen-foot Peterborough canoes and two smaller Peterborough canoes; with these it was possible to move the whole camp at one trip. The lake was often very rough, but by planning to move camp a day or two before it was really necessary, very little time was lost on that account.

The shore of lake Winnipeg in townships 28 and 29, range 7, consists of a series of low rocky points with sandy bays between. The shore of the lake in the remainder of the district consists of high granite rock with only occasional sandy bays. The water near the shore is usually deep, though in places there are large boulders for a considerable distance from the shore, making it dangerous for large tugs. Tugs can land, however, at Loon straits and at the stone quarry in the northwest quarter of section 30, township 30.

There are very few inland lakes in this district, the only important one being a marshy lake, three to five feet deep surrounded by hay meadow, and occupying about half of section 28, township 29.

Bloodvein river flows through the northeast corner of townships 31 and 32, range 6, into lake Winnipeg. It is from twenty to twenty-five chains wide near the mouth and narrows to from five to eight chains in width in this township. It is from twenty to forty feet deep in the centre for several miles up from the mouth and is navigable for fairly large sail boats for six or seven miles, and for canoes and row boats for many
miles beyond this. The first rapids where it is necessary to tow a canoe is near the northeast corner of township 31, range 6. In crossing range 7, there are a number of rapids from which considerable water-power could be developed, but the river is navigable for canoes for many miles, and except at the rapids has very little current at low water.

A number of small creeks, about one mile in length flow into lake Winnipeg. These creeks are usually crooked with very little current, and are from three to six feet deep. Loon river crosses Indian reserve No. 11. At its mouth it is from three to five chains in width and narrows to about one-half chain at the east boundary of the reserve.

The land in this district is generally rocky, consisting of a series of rocky ridges covered with jack pine and clay loam covered with spruce and poplar or swamp between. In some townships these rocky ridges occupy about one-half of the area, while generally from one-fifth to one-third of the area is taken up with them. There is some splendid spruce and poplar, suitable for lumbering.

In general this district is not adapted for farming on a large scale, but on account of its location near the lake and rivers, it is suitable for settlement by fishermen who would make their homes on it and develop it gradually while for a considerable time they could make the principal part of their living out of fishing. The land where not rocky could be easily drained and when cleared will make good farm land. There are some good farming areas in township 29, range 7, and township 32, range 6. On the island at Loon straits some excellent oats and barley grew which ripened very early and turned out well. Some first-class vegetables grew there and also at the mouth of Bloodvein river. These vegetables were not frozen in October.

Of the industries likely to succeed, fishing is the chief one at present, and will continue to be an important industry for many years. Sturgeon, whitefish, pickerel, jackfish and tullibee are very plentiful in this part of the lake and the fishing is done on a large scale. Stone-quarrying has already been carried on to some extent in township 30, range 7, and could be carried on to almost unlimited extent. Lumbering in a number of parts will be an important industry as well as pulp manufacturing. Farming in some of the less rocky parts of this district will be an important industry when the country becomes cleared up, as the land where not rocky is all good and the district is exceptionally free from summer frosts. Very few hay meadows were noticed, so that stock raising would be somewhat difficult for a time.

No traces of minerals were found in the district, but a number of veins of quartz were seen, though no gold was discovered.


The work of Mr. Johnston consisted of the survey of township 88, range 19; part of township 87, range 19; townships 86, ranges 16, 17, and 18; townships 82 and 85, range 18; the east outlines of townships 85, 87, and 88, ranges 16, 17, and 18; and the east outlines of townships 83 and 84, range 18; all west of the Fifth meridian.

Arrangements were made for the building of a cache in the northern part of township 86, range 19, as that was the most convenient point from which a road could be cut to Peace river. Two loads of supplies and oats were freighted in on a road, which had been cut out the previous season and which branches from the Grouard road about four miles east of the town of Peace River. This is a good road and during the season was used by settlers as a main road into this district. It passes through townships 82 and 83, range 20, and townships 84, 85, 86, and 87, range 19. The remainder of the supplies were sent down the river in a scow to township 86, and a wagon road cut from this point to the cache in range 19.

The survey was commenced on May 19 and on June 14 the subdivision of township 88 and the remaining third of township 87, range 19, was completed. Township
86, range 18, and townships 86, ranges 16, 17, and 18 were subsequently surveyed. This
was done by running the east outlines of townships 85, ranges 16, 17, and 18, and sub-
dividing the south halves of townships, 86, ranges 18, 17, and 16, always moving the
camp eastward, returning westward through the northern portions of the townships
and thus completing the subdivision and running the east outlines of townships 87 and
88, ranges 16, 17, and 18.

All these townships are very suitable for mixed farming. The soil varies from
three inches to eight inches of black loam on a clay subsoil, and the surface is gently
rolling with a general slope to Cadotte river except township 82, range 18, which has a
general slope southeasterly to North Heart river and is covered mostly with scrub
poplar. Some heavy timber was found in the southerly third of township 86, range 16,
the southeasterly portion of township 85, range 18, and the northerly portion of town-
ship 82, range 18. This timber is mostly spruce and is suitable for lumbering purposes.

In township 86, range 17, there are several large hay meadows, and each season
large quantities of hay are cut by settlers for their stock during the winter.

Cadotte river runs through townships 86, ranges 16 and 18, and townships 87 and
88, range 19. The river is from seventy to one hundred feet wide and from two to four
feet deep. Its source is in Cadotte lake, which is three miles long by two miles
wide, and is located in the southeast portion of township 86, range 16. Its valley
averages approximately one hundred and twenty feet deep and one-half mile wide.
The slopes of the valley are more or less rough and are covered with light brush, while
an abundance of luxuriant grasses grow over these slopes and on the flats along the
river, thus affording fine grazing lands for stock.

The climate was ideal for the raising of grain. A few light frosts were experi-
enced but these will disappear with the cultivation of the land.

During the subdivision of these townships the traversing of Cadotte river was left
until the ice had formed. In many places along the banks of the river very thick
willow has grown and on account of the river being so crooked, it was impossible to
make the traverse during the summer in reasonable time. This work was begun on
December 3 with a party of four men, and was completed on the 15th.

Surveys by R. H. Knight, D.L.S., along the Alberta and Great Waterways
Railway.

Subdivision was begun in the easterly third of tp. 80-7-4 on May 4, and Mr.
Knight's party worked southwards, surveying portions of townships 79 and 78, range
7 and the westerly one-third of township 79, range 6. The party then moved north to
the 21st base line and commenced subdividing northward in the following order,—
the easterly third of township 81, range 7; the easterly two-thirds of township 81,
range 6; the whole of township 82, range 6; the westerly two-thirds of township 83,
range 6; and a portion of the southwest part of township 84, range 6. This work was
completed on August 31, after which the party subdivided the west half of township
85, range 7, that portion of township 86, range 7, lying south of Gregoire lake,
the northeasterly part of township 84, range 6, and the west half of township 84, range
5. Water areas were traversed in townships 76, 77, and 78, range 7; townships 75, 76,
and 77, range 8; townships 73, 74, and 75, range 9; and township 73, range 10, all west
of Fourth meridian. This traverse work was commenced in township 78, range 7 and
was proceeded with towards the south, ending in township 73, range 10, on Novem-
ber 24.

During the season about 400 miles of section line was surveyed and about 130
miles of lake and river traverse was made. The work was along and adjacent to the
Alberta and Great Waterways railway, and at no point did the surveys extend farther
than six miles from the railway. The land generally was gently rolling or nearly
level and was covered throughout with timber. The average size of the timber was
from six to ten inches in diameter and consisted of poplar about sixty-five per cent; spruce twenty per cent; jack pine ten per cent; and tamarack and birch about five per cent. About seventy per cent of the country has a soil consisting of approximately six inches of humus and black loam with a subsoil of clay or clay loam. About twenty per cent of the land surveyed was swamp lands or muskeg, the soil of which is largely black muck and peaty materials. On the remainder the soil is light, being sand or light sandy clay, and found generally in the jack pine areas.

There was no hay of any consequence seen, but horse feed was always plentiful within a short distance of any camping places, and upon any small openings in the woods there was always signs of abundant growth.

Only a few lakes were encountered in the subdivision area, and all were small excepting Gregoire lake, which is about nine miles long and four miles wide. This lake contains large quantities of whitefish as well as jackfish. Numerous small streams crossed the land surveyed, and the country as a whole is fairly well drained. Nearly all of the swamp lands and muskegs could be drained into the nearby creeks, and if these lands were drained and cleared a rich fertile soil would result. Seven streams ranging from twenty-five to forty feet wide, about two feet deep, and with a current of about three miles per hour, flowed through the district. These streams together with their numerous smaller streams drain a large tract of country. They were locally known as Waddell and Pony creeks, Kettle river, Cottonwood creek, Meadow creek, Georges river, and Gregoire river. These streams all empty into Christina river, and have their origin in a high plateau known as Little Rocky mountains, which extend in a north and south direction and are situated just to the west of the lands surveyed. Christina river touched only one quarter-section surveyed, namely the southeast quarter of section 5, township 79, range 6. At the time of survey (early in June) the river was about two hundred and twenty feet wide, three feet deep, and had a current of three miles per hour. It is not navigable except by canoes, as it is shallow and full of rapids. The country is best suited for mixed farming, but settlement will be slow, since the land will all have to be cleared before it can be cultivated.

The climate seems to be about the same as that of the Edmonton district. During the months of July and August the weather was very hot and depressing at times. Light frosts occurred near the end of August, but these were partly due to the timbered nature of the country, together with the effect of the undrained muskegs.

**Surveys by P. M. H. LeBlanc, D.L.S., in Northern Manitoba.**

The subdivision of the western third of tp. 57-29-Pr. was Mr. LeBlanc’s first work of the season. The party then moved to tp. 57-29-Pr., where the east and west thirds were subdivided. After completing these parts, work in the township was discontinued, as the central portion was too wet. The next surveys were near Moose lake, where work was done in tps. 53, 54, 55, and 56-29-Pr., and tps. 53, 54, 55, and 56-21-Pr. Indian Reserve No. 31F, situated on the east side of Moose river and at the south end of Moose lake, was also surveyed. As the country was still flooded and water covered the lands adjoining Traders and Lenore lakes, the traverse was postponed until winter.

On October 6 the party returned to Barrier lake via Pas and completed the subdivision of township 57, range 29, the survey of the north outline of township 57, range 28, and the traverse in township 57, range 27. The survey of a location line for a winter road between Barrier and Namew lakes occupied the party from December 4 to the 13th. This completed the season’s work except the traverse at Traders lake, which was finished on December 21.

The country passed over during the season may be described as level in the low land, mostly covered with willow and balm of Gilead, while the ridges of limestone formation are generally rolling and covered with jack pine, spruce, and poplar. In
the vicinity of Moose lake the timber has been mostly fire-killed. In township 57, range 29, jack pine and spruce are found in good quantities on the ridges north of Barrier lake, and could be used for ties and lumbering purposes.

The soil of the low land is practically all alluvial, consisting of sediment carried down by the rivers, and will be found very suitable for farming when the country is drained. The soil on the ridges consists of clay of variable depths suitable for mixed farming. In some places erosions of limestone are seen.

Saskatchewan river flows through townships 57, ranges 27, 28, and 29, in a meandering course; its width varies from sixteen to thirty chains and its depth is from ten to thirty feet with a current averaging three miles an hour; it rises so high in the months of June, July, and August that the water overflows the surrounding country, rendering it useless for agriculture. In seasons of moderate floods the banks of this river are above high water, but there are occasional openings in them which allow the water to pass into the interior where the ground is much lower. In very high water, as in 1915 and 1916 the banks were covered for miles to a depth of two feet.

The banks are of clay and although they are what may be called "cut banks," and subject to a certain amount of caving during high floods, they are timbered with large willow and bluffs of balm of Gilead and elm, with willow in the background. If the Saskatchewan and Summerberry rivers were lowered and the floods thus prevented, some very good farm lands could be reclaimed. An extended study of this part of the country would be required before a decision could be given as to the possibility of its being drained.

Moose lake is a large body of water with very large and deep bays, though the water along the west and south shores is quite shallow. Except where the ridges end at the lake, the shores for the most part are low and lead out into muskegs. The south shore is affected to a considerable extent by sediment deposited by Moose river which forms a bar of mud and is a menace to navigation. The lake is navigable by small boats but it is not safe to attempt to cross the main body in canoes as high winds are very prevalent in this district.

At the period of low water Moose lake empties into Summerberry river through Moose river, which never freezes in winter; at high water the procedure is reversed and the Summerberry empties a portion of its waters into Moose lake.

Saskeram, Barrier, Reader, and Traders lakes are expansions of the Saskatchewan and Summerberry rivers. In the summer months they have a depth of from two to twelve feet, while in winter they are nearly dry. There are also numerous lakes, ponds, sloughs and open grass lands, the latter being subject to flooding. All the lakes, rivers and marshes contain fresh water.

The rivers are all navigable and steamboats ply up stream from Pas on Saskatchewan river, Cumberland lake and Namew lake as far as the mouth of Sturgeon-Weir river and down stream on Saskatchewan, Summerberry, and Moose rivers to the entrance of Moose lake in township 54, range 20.

Hay is abundant in the eastern part of township 54, range 20, and large hay marshes can also be found in township 57, range 27, but these are flooded every summer at the time of haymaking.

In winter, fishing is carried on extensively in Moose lake and in all the lakes in the vicinity of Pas and along with trapping is still the main occupation of the inhabitants.

Moose and deer are still abundant, and ducks are plentiful, while fur-bearing animals consisting of foxes, fishers, lynx, minks, weasels, and muskrats are trapped in large numbers every winter. No summer frosts were noticed before September 10.
The survey party was organized by Mr. Lighthall at Edmonton, and on May 1 left for Spirit River, arriving there the following day. This town is built at the railway station which unfortunately is about three miles from the original settlement on the river. It is in the centre of a fine farming country and in time should become an important place; although quite new it already has a population of about five hundred.

On May 3 work was begun in tp. 79-1-6 and was continued without interruption through townships 78 and 79, ranges 1 and 2, and parts of townships 77, ranges 1, 2, and 3 the whole block being completed on August 19.

When this land is thrown open it is likely to be taken up very rapidly by settlers. The railroad runs nearly east and west through townships 78, ranges 1 and 2, and the old wagon road between Grouard and Spirit River runs almost parallel to the railroad and about two miles south of it, so that the place is easily accessible. On the south side of the railroad there is considerable open prairie land and nearly all of this is already occupied by squatters. North of the railroad the bush is heavier, consisting mainly of poplar up to ten inches in diameter, and farther north towards Peace river the ravines along the streams get deeper and deeper, so that this portion is not quite so attractive as that farther south. The soil everywhere is excellent, consisting of a heavy clay with here and there a trace of sand. There are no muskegs and the sloughs are just about numerous enough to furnish a supply of water. As grass is abundant and as there is enough summer feed even in the timbered areas to support a large number of cattle, the district will probably develop into a dairy country. Stock raising on a large scale however, cannot be carried on until sufficient land is cultivated to produce the necessary amount of winter feed, as putting up wild grass for hay cannot be depended on, and stock cannot find their own feed in winter.

After finishing this subdivision the party moved back by the wagon road to Spirit River, and thence north about four miles to township 79, range 6. The road lay through country that is almost all occupied by settlers who have considerable grain crops and judging by the amount of breaking being done it will be a fine grain-growing district in a year or two.

Subdivision was started in township 79, range 6, and continued through townships 79 and 80, ranges 6 and 7 until the end of October. This block of land is at present somewhat cut off from Spirit River by Ksituan creek, which runs in an easterly direction through townships 79, ranges 7 and 6. The creek, like all the other streams in this locality, has hollowed out a deep ravine with steep banks, and until a wagon road has been constructed across it, settlement to the north of the creek will not proceed very fast. It is crossed at present by the old Pouce Coupe pack-trail, which runs northwesterly through township 79, range 7. Once across this creek it is easy to travel in almost any direction, as the timber is not heavy. The heaviest timber is found on the east side of range 6, and it gets gradually lighter towards the west. In the western part of township 80, range 7, there is a considerable tract of open grass land, which also extends into range 8, although the subdivision was not carried that far. This area, like the one subdivided earlier, will likely develop into a dairying district. Grass is abundant for summer feed, but the settlers will have to develop the land enough to provide winter feed, as the supply of wild grass which can be put up for hay is not very great. The soil is everywhere very suitable for farming purposes, being a heavy clay loam. There are no muskegs, and not more than enough sloughs to provide a supply of water. This season was a little drier than usual, and water was none too plentiful, especially as the water in Ksituan creek is hardly fit for use, being strongly impregnated with iron and other minerals.

The climate is wonderfully mild for this latitude. The new grass was fairly well advanced on the first of May, and about the last of October there was still no difficulty
for stock to find enough feed. A heavy frost on August 9 spoiled the potatoes and other vegetables, and caused a serious shrinkage in the grain crops, but old timers say that this was very unusual. There was no further frost as heavy as this one until the last of September, and none of the streams were frozen up on November 1.


Mr. McEwen's work consisted of the subdivision of tps. 69, 70, and 71-19-5; tps. 69 and 70-20-5; tp. 69-21-5; the south third of tp. 72-18-5; and the north third of tp. 71-18-5.

The season's supplies were unloaded at Aggie, a station on the Edmonton Dunvegan, and British Columbia railway, about five miles west of High Prairie, and were transferred over the summer road between High Prairie and Sturgeon lake by wagon and pack train as far as Little Smoky river, where a cache was made. From there a pack trail was cut to Snipe lake, and later the supplies were transferred to that point by pack train. The road between High Prairie and Sturgeon lake is in fair condition during continued dry weather, but is next to impassable after the frost comes out of the ground in the spring and during wet weather. An alternative route from High Prairie, which was used later in the summer, is over the winter road between Grouard and Sturgeon lake. This road passes across Snipe lake, and is well travelled throughout the winter. During the summer it is only suitable for packhorses, as in some places it crosses swampy ground. In summer the northwestern shore of the lake is followed, but the trail is not very good.

Snipe lake occupies about seven sections in the southeast corner of township 71, range 19, and less than two sections in the northeast corner of township 70. The outlet is from the northern end through Snipe creek into Little Smoky river. The height of land between Snipe lake and Carrot river, which flows northwesterly through township 69, range 19, lies in sections 27, 21, 16, 9, 4, 3, and 2 in township 70, range 19, and along the north boundary of section 36 in township 69. Both these townships are high, with a gently rolling surface, cut by the narrow ravines of numerous small creeks, which give good drainage, so that there is no swampy land.

Carrot river after leaving township 69 flows west across the north part of township 69, range 20, and the south half of section 6 in township 70. It is only a small stream from thirty to thirty-five feet wide, with an average depth of about a foot. The surface of townships 69 and 70 in range 20 is nearly level, and in the former township a muskeg of about three sections in extent is located on the height of land between Carrot and Goose rivers. As there is a good fall in both directions, it will be easily drained. In the southwestern part of the latter township there is also a large muskeg.

Little Smoky river enters township 69, range 21, in section 6, and leaves from section 18. It is four chains wide, and was from two to five feet deep when surveyed in October. It has a sandy bottom and steep banks from ten to fifteen feet high. The valley is half a mile wide and forty feet below the surrounding country. Goose river, which also flows through the southwest quarter of the township, enters the Little Smoky in section 7. It is two chains wide, with a gravelly bottom, and steep banks ten to twenty feet high. Its valley is a little wider than that of the Smoky, and increases in depth up stream to over one hundred feet.

The surface of this township outside of the valleys of these rivers is nearly level. The northwestern portion of the township is muskeg, but a good outlet for drainage is afforded by Little Smoky river.

All the area surveyed is timbered with spruce, white poplar, and balm of Gilead up to two feet and over in diameter, and some birch, with willow, alder, birch, and small spruce on the swampy land. There is a fair percentage of good spruce for lumbering throughout, but the most of this is covered by timber berths. Outside the berths,
however, there is plenty of timber suitable for lumber to supply all local demands. Spruce and poplar suitable for pulpwood is also plentiful.

The soil over the whole area, outside of the few muskegs, is a rich black loam from five to eight inches deep, with a clay subsoil being well suited for all the agricultural productions for which the northern part of the province is noted.

**Surveys by P. J. McGarry, D.L.S., Northwest of Big River, Saskatchewan.**

The work on which Mr. McGarry was employed consisted of the subdivision of the townships between Cowan lake and lake De Laronde from the 15th to the 16th base line.

On May 1 work was commenced in tp. 57-8-3 and all the lands in this township lying outside the timber berths were surveyed. The southern two-thirds of tp. 58-8-3 was then subdivided, and on July 3 camp was moved across De Laronde lake and surveys carried on in tp. 58-7-3. The remaining subdivision was then done in the following order; tp. 60-8-3; tp. 60-9-3; tp. 59-9-3; and tp. 59-8-3, work being completed on November 1.

The whole area surveyed, with the exception of tp. 58-7-3, is nearly level or very gently rolling. The land is low and covered with a great number of small lakes. Surrounding these lakes and along the small streams and creeks flowing between them there are many large bay meadows, but the rest of the land is wooded, chiefly with poplar and spruce. Outside the timber berths the trees are usually small although in some areas large spruce were found up to twenty-four inches in diameter. There is also a considerable quantity of scattered birch, tamarack, jack pine and willow.

In its general character the country is best suited for cattle raising and mixed farming. With the exception of the large muskeg area near the 16th base line in the vicinity of Taggart lake and lac Voisin, practically all the land surveyed is suitable for settlement. Large herds of cattle could be grazed on the numerous bay meadows and sloughs and the settler should have very little difficulty in harvesting sufficient wild hay to feed his stock during the winter. During the season a settler located in a meadow near the south end of Taggart lake. He brought in about fifty head of cattle, and seven or eight horses, which were in excellent condition in November. The good land is however covered with a growth of small spruce and poplar which will have to be cleared and this may prevent an early settlement in the district.

The climate is practically the same as that prevailing in the districts around Prince Albert and Saskatoon. No frosts were experienced at an earlier date than they were reported from the prairies to the south. The rainfall was exceedingly great, and last season was unusually wet.

The facilities for travel to and from the district are exceptionally good. No quarter-section surveyed is more than about thirty miles distant from Big River, a thriving little lumbering town of about five hundred population. This town is on a branch line of the Canadian Northern railway, distant eighty-three miles from the city of Prince Albert. A mixed freight and passenger train makes three trips weekly to and from the city. During the past season, on account of the exceptionally wet weather, the roads out of Big River became almost impassable for teams hauling more than a few hundred pounds. It is reported that in an ordinary dry season, places which were absolutely impassable during the past year could be crossed with little difficulty. If this is the case, no difficulty should be experienced in taking a good load over the road leading from Big River to the north end of Taggart lake. For land adjacent to them, boats could be conveniently used on both Taggart lake and lake De Laronde.

In practically all the area surveyed the soil is good, consisting of a few inches of humus with clay subsoil. There are very few jack pine ridges with the accompanying light worthless soil.
SESSIONAL PAPER No. 25b

An abundance of good drinking water can be had almost anywhere. Nearly all the lakes contain good clear fresh water, and, in places not sufficiently close to use the lake supply, water may be had at a depth of a few feet.

Large game in the district is exceedingly plentiful. Rarely a day passed that moose or deer were not seen by some member of the party, and in tp. 60-10-3 large herds of cariboo were often seen. The larger lakes are teeming with fish, whitefish, pike, and pickerel being the chief varieties. In the fall large flocks of ducks were commonly seen on these lakes and more particularly around the very small lakes and ponds. Fur-bearing animals are none too plentiful, but a few red foxes were seen.

There are no minerals of economic value in the district, and no stone for building or any other purpose is available.

Good building timber, sufficient for the use of any settler, can be had almost anywhere, and good wood for fuel is plentiful, but no deposits of coal are reported in this or the adjacent districts.


Mr. Norrish's surveys consisted of the subdivision of tp. 53-13-2; tp. 53-14-2; tp. 53-15-2; and parts of tp. 53-12-2; tp. 54-14-2; and tp. 54-15-2.

Although not very far north of settlement the district presented some difficulties in transportation. There were three possible routes to the location of the surveys. The first was to float down Saskatchewan river on scows to the vicinity of Birch island in tp. 53-12-2. The second was to go north by trail from Star City or Tisdale on the Canadian Northern railway and cross Saskatchewan river near Ravine Bank post office. The third route was to go northeast from Prince Albert along the Candle lake trail and then branch to the east along a trail used by the surveyors on the Hudson Bay railway survey.

The third route was first rejected as the trail was reported to be in very bad shape, being very wet and only fit for winter traffic, with bad crossing places on Whitefox river and Bisset creek. The Saskatchewan river route is feasible if scows are run down the river on the high water which occurs in the latter part of June or the early part of July. At other times it would be very risky, though it might be possible to go down the river immediately after the ice went out. The water is known to drop rapidly very soon after the ice goes out and is usually quite low during the month of May. This scheme was impossible as the ice went out before the party was organized.

The main obstacle in the navigation of this part of Saskatchewan river is Cole falls, which are situated about thirty miles below Prince Albert. Below the falls there are rapids for about eighteen miles. According to reports the river at the falls and in these rapids is full of boulders which are hard to miss when the water is low. Cadotte and Nipawin rapids farther down the river are not so hard to navigate, but there are a large number of sandbars in the river which are constantly shifting.

A few years ago the Saskatchewan was used considerably for transportation purposes, but now there is scarcely any use made of the river except for canoes and small boats. The main difficulty in coming up the river from Pas is experienced in Tobin rapids, which are very shallow, being not over a foot deep at times.

The route followed was north from Tisdale as the road from there to Ravine Bank post office was graded most of the way. From Ravine Bank a scow was used on Saskatchewan river to transport the supplies and the packhorses were taken down the north side of the river.

The country between Tisdale and the Saskatchewan is fairly thickly settled. It has been for the most part lightly wooded, though in some places there is a good growth of poplar. The best land is situated around Lost River, Nipawin, and Ravine.
Bank post offices, within a few miles of the Saskatchewan. In fact this is a very fine tract of agricultural land, extending for about twenty-five miles along the river and from three to six miles in breadth. It is mostly gently rolling country and was lightly wooded with small poplar and scrub, with jack pine on the lower flats adjacent to the river. Fires in recent years have burned over most of the country and have given great assistance in clearing the land, while they do not seem to have damaged the soil to any noticeable extent. Reports of this good land have spread throughout the province of Saskatchewan and settlement is spreading to the north side of the Saskatchewan where more than eighty quarter-sections have already been taken up. Considerable quantities of wheat and oats have already been grown in this settlement. During the winter the farmers are kept busy hauling their grain to Tisdale and Star City, a haul of from thirty to forty-five miles. This long haul is at present the greatest drawback to the development of this stretch of country. The district is also well suited to stock-raising, and I have noticed large areas of abundant grass which remained unused. The main reason why more stock is not raised seems to be due to the amount of money required to buy good stock and on account of the length of time which elapses before there is any return.

Torch river in tp. 53-12-2 is from two to four chains in width, three to ten feet in depth and has a current of three to five miles per hour. There are several sections of good land along the river in this township, and also a large willow swamp which would make good agricultural land if drained. As the water is backed up by beaver dams and as the area is close to Torch river this could be easily accomplished.

Between Torch and Saskatchewan rivers the country consists of rolling jack pine areas and spruce and tamarack swamps. Along Saskatchewan river considerable areas of fine white spruce grow up to thirty-six inches in diameter. These areas have, however, all been included in several timber berths which lie along the river. The valley of Saskatchewan river is from 150 to 175 feet in depth.

The valley of Torch river is from 60 to 100 feet deep, and the land along the river is rolling and wooded with poplar, jack pine and spruce, with some birch, alder and willow. Some distance back from the river are to be found a number of sloughs and swamps wooded with black spruce and tamarack. Some of the poplar areas in tp. 53-13-2 and tp. 53-14-2 have very fair agricultural land, but the largest and best areas of agricultural lands were found farther north. Most of tp. 53-15-2 and the portions of tp. 54-15-2 and tp. 54-14-2 which were subdivided were first-class land, though they are rather heavily wooded with poplar and spruce.

Small patches of large white spruce were noticed along the banks of Torch river in tp. 53-13-2 and tp. 53-14-2, but they were not large enough to be important. Along the westerly boundary of tp. 53-15-2 considerable areas of fine large white spruce up to thirty-six inches in diameter were encountered which extended westerly into tp. 53-16-2. These areas seemed to be mostly included in timber berths. In tp. 54-15-2 there were also large areas of fine white spruce and these again were mostly included in timber berths.

Attention has been directed above to the excellent farming district around Ravine Bank on the south side of the Saskatchewan. The settlement is extending northwards and there seems to be little doubt that the land now being homesteaded on the north side of the river will be just as good. The main obstacle to settling the land on the north side of the river now is the lack of a ferry, though it is practically certain that one will soon be put in near Ravine Bank. Throughout the townships subdivided the levels have indicated that the swamps and sloughs could be easily drained. In a good many cases the water is held back by beaver dams, and by simply breaking these dams the land would be drained. The season was unusually wet and the sloughs were kept full of water, so that large quantities of hay were lost.

These townships will likely be developed as a grain-growing country, though they are perhaps better suited to mixed farming and stock raising. At Ravine Bank
the first frost generally occurs within the last three or four days of August, and is not usually severe enough to damage the crops.

Game is fairly plentiful, deer, moose, elk, and bears being seen, and large colonies of beaver are found in places.


From the town of Peace River Mr. Pierce's party was transported down stream in a scow, arriving at the first work in tp. 97-19-5 on May 17.

The river was open for navigation on May 1, but no steamboats passed down to Fort Vermilion until two days after the party had started work.

At the town of Peace River the valley is about 700 feet deep, but north of this point the depth gradually decreases. At the commencement of the work it is about 500 feet deep, in township 101 about 300 feet, while farther north it becomes still shallower.

As the survey operations were confined to the district immediately adjacent to the river, it was possible to perform probably two-thirds of our work from camps situated on its banks; the usual packhorse outfit was dispensed with and man-packing was used for the small amount of work which was done at a distance from the river. For the operation of the work along the river an outfit of Peterborough canoes with two small portable motors were used to advantage, while the cookery and dining tables were placed under canvas on the scow, which simplified greatly the moving and setting up of camps.

The survey work was completed on October 13, and on the following morning the party left for Peace River on the steamer Northland Call, arriving there on the 17th. From there they took train to Edmonton, where the party was disbanded and paid off.

Levelling operations were carried on throughout the work, and the new style of survey monuments were used for the first time. These were found at first a little troublesome to set in place, but it was not long before the party got accustomed to them, and it was found that this monument presented a great deal better appearance than did the old type, besides being of a more permanent nature.

As before noted, Peace river flows through this work in a valley from 300 to 500 feet in depth and from a mile and a quarter to two miles in width. The river itself has a width of from thirty to fifty chains between banks and a rate of possibly three miles per hour. It is filled with numerous islands, all of the same general shape, viz., long and narrow and usually terminating at their lower end in a long narrow point. The larger of these islands are well timbered with cottonwood, poplar, and spruce, while the smaller ones are covered only with willow. About the beginning of July the river is subject to a rise or flood of from ten to sixteen feet, due to the melting of the snow in the mountains. Usually the banks are high enough to protect the adjoining flats from being flooded, but the older inhabitants stated that about twenty years ago the ice became jammed in the spring and that the meadows at Careajon were all flooded and houses were destroyed. This is of course an exceptional case, but marks were noticed on the trees and driftwood in the bush which verified the fact. During high water the river, which is normally clear and fresh, assumes a dark muddy appearance and is barely fit for use. After about a month of high water, the stream gradually subsides and the water clears up, so that fine broad sand and gravel benches and bars are exposed on either side of the river, making ideal conditions for stadia traversing.

The most important streams tributary to Peace river in the vicinity of the work were Buffalo and Wolverine rivers. These streams are about one and one-half chains in width, have a depth of fifteen inches at low water, and flow at the rate of six to
seven miles per hour; they are filled with rapids and boulders, and are, of course, not navigable, except possibly for a very short time during high water. These rivers flow through valleys which were nearly as deep as the main river valley itself. Numerous small creeks flow into the river, which run nearly dry in the fall, although the valleys through which they flow are very deep, particularly as they approach the river.

Several steamboat companies operate shallow-draft stern paddle-wheel steamboats on the river between Hudson Hope and Vermilion chutes during the season of navigation between May 15 and October 15. These boats which do not sail on any well-defined time schedule, are well equipped to handle a general freight and passenger trade. Apparently, the greater portion of their trade consists in handling goods for the far North.

On account of the many windings of Peace River and the many deep valleys just referred to, the surface over a great portion of the work was rough and broken and unfit for agricultural purposes, although if the timber were removed, it might be suitable for grazing. Generally, on the east side of the river, away from the river banks, the surface is made up of hills, usually under twenty feet in height, for two or three miles back; the surface then usually changes to large muskegs and sand ridges. An exception to this, however, is worthy of note through the eastern part of township 98, range 19, where there is a flat of about six square miles, its centre being near the northeast corner of section 14. This flat is nearly open and is adapted to grazing, feed being particularly plentiful. On the west side of the river, the work in many places did not extend sufficiently far from the valley to enable the party to form a fair estimate of the country. Along the correction line between townships 98 and 99, the surface is level, and this appears to be the case through the country farther west. Through the parts of townships 100 and 101 on the west side of the river, the surface is rolling, similar to that across the river. The most valuable land was found in the river valley in township 101, range 19. There the top of the valley, instead of following the course of the river, partially cuts across from bend to bend with the result that some large hay meadows are found near the water in sections 5, 6, 15, 16, 30, 31, and 32. Abundant crops of hay grow of which only a small portion is at present being used.

The only permanent inhabitants met are settled in this township mostly in section 30, at what is called Carcajou point. These people are all non-treaty Indians and half-breeds. They have built small houses close together and do a little gardening in addition to hunting and trapping. In the winter months, one or two private fur traders usually put in a stock for fur trading, and it is at this point that supplies for Keg River prairie are delivered by boat in the summer and stored till winter, when they are forwarded across country. There is a Roman Catholic church there, but it has no regular services, and there is no post office nor school. Across the river from this settlement, an English speaking family who came to the country a year ago, are living and these are the only permanent white people in the district.

In the meadows just referred to, the soil consists of a first-class loam and this was the only desirable soil seen by the party. Generally, on the west side of the river, the soil is sandy clay which would be adapted to agricultural purposes when the timber is cleared away. On the east side of the river, particularly in townships 98, 99, and 100, about fifty per cent of the land is worthless for agriculture, having a subsoil composed of sand, with a very light surface soil of loam and decayed vegetation. About twenty-five per cent is muskeg where the soil is first-class loam, but in order to utilize it, extensive drainage operations would have to be undergone. The remaining twenty-five per cent is sandy clay.

On account of the proximity of this district to the river which is the only route for travelling, fires, presumably originating from camps, are so often started that very little of the original timber is now standing. What is left is to be found on the islands and in narrow fringes in the bottom of the valleys of Peace river and tributary streams.
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This consists of a good quality of spruce and poplar from twelve to twenty inches in diameter and it is now being used as steamboat fuel by the navigation companies. On the north side of the river in townships 98 and 99, range 19, a considerable stand of this timber has escaped destruction. In township 98, south of the river and in township 100, east of the river, there are a few stands of jack pine of a size and quality suitable for tie timber. Otherwise, except for muskegs where the timber is very small, the rest is principally brûlé and windfall, and is now growing up in scrub poplar.

Cool nights and hot days with occasional frosts appear to be characteristic of this country during the summer months. On account of the length of daylight, vegetation is very rapid, and at Careajou point the usual garden produce had fully matured without injury from frost, although it had received very slight attention.

Bears are particularly common and they with moose form a substantial part of the sustenance of the inhabitants, there being no fish in the river. All the common fur-bearing animals are found there, especially the various kinds of foxes, beavers, otter, marten, and mink.

SURVEYS BY F. V. SEIBERT, D.L.S., SOUTHEAST OF LAC LA BICHE.

The block of land comprising townships 65, ranges 6 to 9, townships 66, ranges 8 and 9, and the southerly two-thirds of townships 66, ranges 6 and 7, all west of the Fourth meridian, were subdivided by Mr. Seibert last season.

The party reached the east shore of Pinehurst lake, in township 65, range 9, the evening of May 2, using wagons accompanied by packhorses and travelling by way of Normandeau. A shorter trail, not so good, however, for summer travel, follows the south shore of Beaver lake and meets the trail used about the centre of township 65, range 11. The easterly half of these trails is very hilly and the valleys are too wet for good wagon travel after the frost leaves the ground.

Another wagon trail from Vegreville to this place passes through St. Paul de Metis. This trail is better than the one followed but has the disadvantage of being longer, it would have made a difference of from two to three days in the time of getting to the work. The better trail is the one by St. Paul de Metis, as it is used more and kept in better condition. Automobiles travel as far as Bordenave, twenty miles north of St. Paul de Metis.

On May 3 work was begun in township 65, range 9, and on September 25, with the exception of the traverse and some lines around Wolf lake, in townships 66, ranges 6 and 7, which could be better done on the ice, the work planned for was completed.

On November 27 when the ice had sufficiently formed on the lakes a small party and two teams returned to the work and completed both the traverse and the work at Wolf lake, returning to Edmonton on December 30.

The country surveyed was mostly good agricultural land; the surface was rolling, and covered with poplar and willow, very little open or hay land being seen. Sand river valley, in range 8, varies from 250 feet to 500 feet in depth, and the river following a winding course down the valley is one of the finest streams in the north. With a clean sand bottom it could be forded almost any place except at extremely high water. Two large lakes. Worm lake in township 66, range 9, and Wolf lake in townships 66, ranges 6 and 7, contain many fish. Worm lake appeared to have only jackfish, and no outlet was noted, although a dry creek bed north to Mosquito lake may have been an outlet at one time. Wolf lake has an abundance of whitefish, pickerel, and jackfish.

Very little good timber was seen, but no minerals were noted.

Moose and deer are plentiful, but fur-bearing animals are not abundant, probably due as much as anything to the scarcity of rabbits.
APPENDIX No. 7.

RAILWAY BELT SURVEYS.

Surveys by J. A. Calder, D.L.S., in the Vicinity of Ashcroft, British Columbia

Mr. Calder's first work was in tp. 23-22-6, where the westerly boundary of Tranquille and the easterly boundary of Arrowstone Forest reserves were run and the subdivision of the remaining lands completed. A certain amount of retracement surveys were also required as several of the original monuments had become obliterated.

The lands surveyed lie along Deadman river. The bottom of the valley varies from a few chains to over half a mile in width and is mostly excellent agricultural land. The hills to the west rise abruptly to a height of about two thousand feet above the river with lofty rock escarpments. Towards the east the ascent is, as a rule, much more moderate and although almost all worthless for farming, there are large areas of fair grazing lands. Practically all the agricultural land along the river has been taken up and some good grazing lands were noticed. Hay is the chief crop produced but all grains and vegetables do well. Fruit is also grown in a small way with moderate success; irrigation, however, is required and at present this district is best adapted for stock raising.

A good wagon road follows down Deadman river from this township and joins the main road from Kamloops to Ashcroft about five miles south of Savona. A continuation of the former road leads to settlements farther up Deadman river and to upper Criss creek, but it is in bad shape with some long heavy grades. A much more direct road is now under construction from the mouth of Criss creek to the settlements on that creek.

The land in townships 23, ranges 20 and 21 inside the Tranquille Forest reserve, which have been squatted on for a number of years, was next subdivided. This land lies for the most part on a high plateau between Red lake and Criss creek. The inducement to settlement is a number of wild hay meadows ranging from two to twenty-five acres in area, but outside of these meadows the bulk of the land is jack pine country and generally worthless. This district is best adapted for stock as some areas of good pasturage were observed and hay for wintering can be obtained from the meadows. Summer frosts are common, potatoes can hardly be grown, and such small patches of grain as were seen were not promising.

A number of miscellaneous surveys were then commenced in townships 23, ranges 25 and 26, including the resurvey of four miles of the north limit of the railway belt, incorrectly placed by a previous survey, the survey of the westerly boundary of Arrowstone Forest reserve, the easterly boundary of Hat Creek Forest reserve, and the completion of the subdivision of these townships. These were finished about July 20, and the remainder of the season was spent in running the belt limit from the SW. cor. sec. 24, tp. 23-26-6 to the NW. cor. sec. 35, tp. 18-26-6.

On July 31 camp was moved to a point on Maiden creek about seven miles from the Cariboo road. From there fully ten miles of trail over difficult country had to be opened out to the next camp situated a couple of miles northeasterly from Marble canyon. The survey of the belt limit was carried to the edge of the canyon on August 29 where there was a sheer drop of three thousand feet to Pavilion lake. A signal was made on the edge at the nearest point to the line visible from below and the line bonded as far as run. On September 1 the party moved by a circuitous route to the bottom of the canyon. A base line was now laid out and the position of the line in the bottom determined by triangulation.
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The country traversed from the Cariboo road to Marble canyon is very mountainous and broken. Save for a flat on Maiden creek, mostly included in Lot 148, G.1, no valuable agricultural land was seen. For about five miles up this creek there is good grazing but the rest of the way it is nearly all timber grass. The land is generally well wooded with heavy fir along the valleys and small to medium size jack pine on the elevated slopes. Towards the canyon large areas have been fire killed, and usually a dense second growth of small jack pine has sprung up making it a very hard country to travel with packhorses.

Marble canyon, a comparatively low pass between Pavilion and Clear mountains, acquires its name from the vertical cliff of limestone, about three thousand feet high, forming its northerly side. On the south, the wall of the canyon is granite, and although steep and in many places precipitous, it does not rise nearly so abruptly. There are two lakes of fresh water in the bottom; Pavilion lake, the largest, although nowhere more than half a mile across is about five miles long, and Crown lake, almost a mile long, was crossed by the line near its westerly end. A small creek, flowing from the south, drops over a cliff about a hundred feet high into this lake.

A good wagon road from Ashcroft to Lillooet passes through the canyon and it is a favourite haunt for motorists in the summer months. The canyon and the lakes and mountains flanking it afford a unique combination of scenic, climatic and other attractions.

Between Marble canyon and Fraser river the belt limit passes over a high range of mountains, the last twelve miles being extremely broken up by deep narrow gorges. The country is mostly wooded with jack pine, considerable fir being found on the lower slopes and in the valleys. Southerly from Mount Martley to Chipuin mountain large areas of timber are fire killed, but south of the latter mountain some of the country is open and covered with good grass. Although high, these lands should be valuable for summer range. Several coves of blue grouse and a few deer were noticed, but game is not plentiful, a condition to be accounted for by a number of timber wolves seen by members of the party. On Rusty creek, a tributary of Fountain creek, several copper claims have been staked and some assessment work done.

On October 12 the line was connected with the portion already run across Fraser valley and work was closed for the season.


The first work done by Mr. Johnston was a small subdivision survey in tps. 21 and 22-7-6, which was completed on April 21.

His regular season's work consisted of subdividing into legal subdivisions the land lying between Revelstoke and the south limit of the railway belt. As the greater part of this land had already been subdivided into quarter-sections and subsequently homesteaded in forty-acre parcels, the work entailed a considerable amount of retrace- ment. The subdivision was very much needed, as many homesteaders could not locate their boundaries. A large portion of the valley is still held under timber license, but portions suitable for agriculture are gradually being withdrawn and thrown open for entry.

On July 5, the party commenced the survey of seven miles of the railway belt limit, running east from the SE. cor. sec. 33, tp. 20-29-5. This line runs over Mt. Sproat, whose altitude is 8,050 feet. On this work packhorses were hired and a trail had to be cut over the mountain for their use. The work in some places was very slow, owing to the broken and precipitous nature of the country, and the rain and fog on top of the mountain caused a delay of nearly a week. After the completion of this limit, subdivision was continued in the Columbia valley.

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The water was very high last season, and as a result the mosquitoes were very bad. On this account the party was forced to disband for twelve days in August, as it was impossible to work to any advantage.

For transportation boats and canoes were used on Columbia river, and as the work lay on both sides of the stream the boats were very useful. The Arrowhead branch of the Canadian Pacific railway runs along the left bank of the river and also affords a good means of transportation.

The land generally speaking is a sandy loam and is adapted for practically any kind of farming, though mixed farming is probably the most suitable. The district is suitable for fruit growing and is especially good for apples. Small fruits and vegetables also grow in abundance. Dairy farming is being taken up by a large number of the older settlers as corn can be grown quite easily.

The land for ten miles south of Revelstoke is settled chiefly by Austrians and Italians. These settlers are gradually improving their holdings, though progress is slow, as the land has been heavily timbered. The bottom lands have been largely burned over, but the side-hills contain some fair timber, chiefly fir, hemlock, and cedar. Roads are gradually being built all over the valley. A trunk road between Arrowhead and Revelstoke is under construction but may not be completed for several years.

With the exception of a fence-post and shingle-bolt camp, there are no lumbering operations being carried on, most of the mills in the adjoining districts having closed down.

The spring season was late and cold with a lot of rain, but there was some very warm weather in June, July and August.

On November 10 the party was disbanded at Revelstoke.

Surveys by R. B. McKay, D.L.S., in the vicinity of Chilliwack, British Columbia.

The season's work was begun by Mr. McKay on April 11 by making small surveys in tp. 42 E.C.M. and tp. 4-5-7, in the reclaimed area of Pitt meadows adjoining the south end of Pitt lake. This was completed in a few days after which surveys were commenced in tp. 3-29-6. This township is well settled and mixed farming, dairying, and fruit growing, which are the chief industries have all proven very successful. A saw-mill was in operation in the southeasterly part of the township, where there is still considerable merchantable timber consisting of large fir and cedar. Fraser river runs westerly through this township, and a government ferry makes from three to five daily return trips across the river thus facilitating travel between the northerly and southerly parts of the township.

Small surveys also were made in tp. 24 E.C.M. and tp. 3-20-6, and the traverse of the banks and islands of Fraser river in this vicinity completed. Mixed farming, dairying, and lumbering are engaged in by the settlers in this district. Saw-mills are situated at Harrison Mills and at Deroche, the latter milling cottonwood only, which on account of being odorless is valuable for fruit boxes, etc; dense stands of it are found in the vicinity of the Fraser in these townships.

The party next made subdivision surveys in secs. 5 and 6, tp. 21 E.C.M. This township is very mountainous and the only agricultural land it contains is situated at the southerly limit of the township.

After completing some small surveys in tps. 4-27-6 and 4-28-6, work was begun in tp. 5-29-6. The town of Hope in this township is now served by three railroads, the Canadian Pacific, the Canadian Northern, and the Kettle Valley, and it is a centre for the outlying prospective mining districts. The greater part of this township is mountainous, timbered chiefly with fir, cedar, and hemlock, and there is very little agricultural land available for the prospective settler.
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Exploratory and subdivision surveys were made in tp. 2-27-6 extending from the east boundary of section 5, easterly along Chilliwack river and Chilliwack lake, connecting with the limit of the railway belt in tp. 1-26-6. The Chilliwack valley flat through tp. 2-27-6 and 1-26-6 is about one-half mile wide and is a rule is heavily timbered with fir, cedar, and hemlock. The fir is generally of good quality from one and a half to four feet in diameter and is found as large as six feet in diameter. The cedar is of fair quality, and some of it is as large as eight feet in diameter. The hemlock is generally hollow and of little value. There are several areas in the river flat which have been burned over and where reforestation has taken place, but as these places have poor soil and contain numerous large boulders, they are unattractive for agricultural purposes. Some of the heavily timbered areas, however, contain very good soil with sandy loam in patches. Steep rocky mountains rise abruptly from the flat on both sides of Chilliwack river and are timbered with second growth or small scrubby fir, cedar, hemlock, and balsam with small scattered patches of good timber, which latter are generally in inaccessible places. A few large scattered pine were noticed in the river flat. The easterly and westerly sides of Chilliwack lake are bounded by steep rocky mountains which slope abruptly to the lake, and contain no agricultural land. There is a small area of land adjoining the northerly end of the lake which is suitable for settlement.

The next work was in tp. 4-27-6 which is very mountainous and has but little agricultural land. A pack trail runs from the Yale wagon road near Laidlaw up the valley of Wahleach creek to Wahleach lake. From the lake a prospector's trail runs southerly to the foot of the rugged mountains in sec. 4, tp. 3-27-6. The steep mountains on both sides of Wahleach creek and the area surrounding Wahleach lake in tp. 3-27-6 are well timbered with large fir, cedar, and hemlock; the area also contains some large balsam. This timber is included in timber berths which are held to conserve the water supply of Wahleach lake, and plans have been made to develop power from this lake. There are a few patches of land in tp. 3-27-6 which are suitable for raising garden produce.

Surveys in tp. 4-29-6, tp. 2.W.C.M. and tp. 39.W.C.M. completed the operations for the season. At Ioco, in the vicinity of the latter work an oil refining industry has sprung up which employs a considerable number of men.

SURVEYS BY N. C. STEWART, D.L.S., IN THE VICINITY OF DONALD, BRITISH COLUMBIA.

Survey work was begun in tp. 29-23-5, where Mr. Stewart traversed Columbia river and its tributaries, Waitabit and Bluewater rivers, and surveyed most of the land between the Waitabit and Bluewater. The bench land which extends from Golden along the right bank of Columbia river ends at the Bluewater. On this bench between the Bluewater and the Waitabit there is some good agricultural land.

Game is scarce in the immediate vicinity of Donald, but by going into the mountains a few miles, goat and caribou can be found. Some small lakes in the Blackwater a tributary of the Bluewater are famous for trout fishing.

In tp. 24-1-6 the section lines were retraced, the quarter-section lines run and legal subdivision posts established on all lines in sections 3, 4, 11, and 12; the south boundary of Revelstoke park was also surveyed in sections 11 and 13, and Clachnacudainn creek, which forms the boundary of the park in sections 13 and 24, was traversed.

On June 7, legal subdivision surveys were made in the north halves of secs. 31, 32, and 33, tp. 23-1-6 and sec. 5, tp. 24-1-6, and the south boundary of Revelstoke park was established in section 6. Illecillewaet valley is very narrow and the adjoining mountain sides are very steep and rugged. This made the work very hard, especially on the park boundary where often a climb of 2,000 feet was necessary before starting work. The best land in the vicinity of Greely has been taken up and the settlers seem to be progressing although the land is extremely hard to clear. A good wagon road joins this settlement to Revelstoke.
Our next work consisted of the survey of the south boundary of Revelstoke park across secs. 1 and 2, tp. 24-2-6, the survey of the east boundaries of secs. 1 and 3, and the subdivision of sec. 3, tp. 24-1-6 after which the survey of the north limit of the railway belt across Downie creek was begun. The north fork of Downie creek was reached by trail up the north fork of Illecillewaet river from Albert Canyon. This trail was at one time a sleigh road over which the supplies were freighted into the Waverley and Tangier mines which are approximately twenty-eight miles from the railroad.

This part of the belt limit was extremely difficult to survey, for the mountain sides are very steep and broken by ravines and cliffs, and the valleys are heavily timbered and brushy. To add to the topographical difficulties the weather was unfavourable, about fourteen days being lost out of thirty-eight.

The Waverley and Tangier mines have not been worked for about fifteen years and the buildings are in ruins. They are at present too far from transportation to be worked economically. The valley of the north fork of Illecillewaet river is crossed by numerous slides and is therefore not suitable for the site of a road or railroad. As the mines are situated on Downie creek slope, a road will likely be built out to Columbia river. If constructed, such a road would give access not only to the mines but to several million feet of valuable timber.

On September 2 we camped again near Revelstoke in tp. 24-2-6 and from this point sections 3, 4, and parts of sections 9, 10 and 15, were subdivided and the survey made of part of the west boundary of Revelstoke park.

The next work was the stadia traverse of the right bank of Columbia river from Revelstoke to the north limit of the railway belt. This was completed on October 19. The subdivision of the east half of section 5, in tp. 24-2-6 and the traverse of Jordan river in that section completed the season’s work.

The Big Bend wagon road up Columbia river from Revelstoke is now completed as far as Twelvemile island. From the end of this road a pack trail is the only means of travel up the Columbia, the steamer having been burned.

With the exception of bears, game is not very plentiful in the vicinity of Revelstoke. At one time Columbia river valley above Revelstoke was famous for caribou and goats, but these animals are scarce at present, the old timers stating that cougars have driven them out of the country. Bears are very numerous especially at Greely and trout fishing is fairly good in Jordan and Illecillewaet rivers.

Surveys by C. H. Taggart, D.I.S., in the Kamloops District.

Mr. Taggart began the season’s work in tp. 17-17-6. The lands surveyed in this township lie on the benches above the valley of Trapp and Napier lakes, and are reached by a newly-constructed wagon road, which branches off from the Kamloops—Nicola highway at the northerly end of Trapp lake.

During the season of 1912 a considerable area of land on these benches was surveyed but at that time only one settler was located there. At the present time, however, nearly all of the quarter-sections which show any indications of workable soil have been taken up. Water for irrigating these lands is not available, and it is yet to be proven whether the settler can make a living from them under the dry-farming method. The lands made available by this season’s surveys are all in the eastern portion of the township, and are almost entirely wooded with fir and pine, with scattered willow and poplar.

The next surveys undertaken were in tps. 20 and 21-16-6. This work consisted chiefly of the marking of the boundaries of the Niskonlith Forest reserve, and the retracement and marking of the corners of the Kamloops Indian reserve, No. 1. The subdivision of the lands lying outside of these reserves was completed. Very
little of the land surveyed in these townships is of agricultural value, but it furnishes
good feed for stock, and large herds of cattle and bands of horses are ranged over
these and the adjoining lands. This stock is owned by the Western Canada Ranching
company, who have extensive holdings in the southern portion of township 20, range 16.

The delimitation of the boundaries of the Niskonulth Forest reserve and the sub-
division of the unsurveyed lands outside, in the valley of Louis and Fadear creeks, in
townships 22, 23, and 24, range 15, and along the valley of Fadear and Cicero creeks
in townships 23 and 24, range 14 was the next work. Very little land of agricultural
value was made available by these surveys. The agricultural lands of the Louis creek
valley consist of two classes, viz., bottom lands and bench lands. In the bottom the
soil is mostly rich black loam with gravel subsoil, while on the benches sandy loam or
clay with gravel is found. These lands are very productive of hay, grain and root
crops while small fruits also do well. Usually abundant moisture is received by rain
and dew to bring heavy crops to maturity. In any event the numerous small streams
flowing into the bottom from the mountain sides will more than supply the needs
should irrigation be required.

Extensive range lands are not to be found in the Louis creek valley, therefore,
at present stock raising possibilities are limited. The slopes of the mountains forming
this valley are steep; the soil is rich and moist and capable of producing an abundant
growth of grass suitable for feed. The wood growth on these slopes is mostly mountain
willow with alder, poplar, birch, and a few scattered pine and fir, and is in most
places very dense preventing the growth of grass. Cattle, as a rule will not climb
to the upper reaches of these slopes for feed, while horses, sheep, and goats will. The
cattle will range only on the lower benches, which in this valley are of very small area.
The lands lying in the valleys of Fadear and Cicero creeks in the above-mentioned
townships, are also of the two classes, bottom and bench. The former is good rich
land mostly of clay loam, while the benches are of sandy loam with gravel subsoil.
The lands along the bottom will require much labour to clear and make ready for
crop, while the benches will need much less. No irrigation is thought necessary, but
it is just possible that in dry seasons it would benefit the land on the benches.

The development of these valleys has been much delayed for the lack of easy
access. At present settlers’ efforts and supplies have to be packed on horses for some
miles. A good wagon road is possible and has been started, and the settlers in the
vicinity are hoping that this road will be extended to serve their lands this fall.

After completing a small survey in tp. 21-11-6, the party moved to the centre of
sec. 26, tp. 21-12-6, and on September 30 started surveys from the northeast corner of
section 34. The northeast, northwest, and southeast quarters of section 35 are in
timber berths, where logging operations have been carried on to some extent. There
has been considerable merchantable timber on these lands and as logging has been
done in strips and patches where the best of the timber stood, only a detailed cruise
would determine the quantity remaining.

A saw-mill, located on Chum creek, near the southwest corner of the northwest
quarter of section 35, is operated by steam power, is quite modern, and is capable of
producing from ten to twenty thousand feet board measure per day. There is plenty
of timber available to keep it in operation for several years.

The next work was in tp. 22-12-6, where a traverse of Adams river through sec-
tions 26 and 27 was made. This stream is used by the Adams River Lumber company
as a means of bringing down their logs from Adams lake, and for this purpose a dam
has been erected at the outlet of the lake; when the logs are being driven, the sluice
gates are opened and a large quantity of water freed, carrying with it the logs that are
to be driven. This volume of water in its course to Shuswap lake does considerable
cutting to the banks of the river on which the traverse was made, and a very marked
change is shown in the course of the river from that on the present township plan.
This survey completed the season’s work on November 3.
The weather conditions during the season were on the whole very favourable for carrying on survey work, the principal part of which was the delimitation of the boundaries of the forest reserves and in most cases these lines are to be found on the slopes of mountains.

APPENDIX No. 8.

STADIA SURVEYS.

Surveys by G. A. Bennett, D.I.S., in the Saskatoon District.

The investigation of all water areas in the block of townships in the vicinity of Saskatoon was carried on by Mr. Bennett. All lakes over five acres in area and rivers over one chain in width were surveyed so as to obtain accurately the area of the lands, which should be patented. Whenever the complete or partial drying up of a lake permitted the erection of a monument at a section or quarter-section corner, this work was done, provided it did not unduly delay the progress of the survey. A careful examination was also made of the condition of the monuments left by the original survey. Every month a report was forwarded to the department giving this information in detail for each township and stating the progress of settlement found, the amount of land cultivated, the number of road allowances graded, and all other information which would be useful in preparing a new plan of the township.

Survey operations were begun on May 19 in tp. 34-8-3, and the various townships in the vicinity were investigated. A number of small alkaline lakes were surveyed, but numerous lakes and sloughs which existed at the time of the original survey were found to have dried up. These townships are in the Goose Lake district. Most of the land is cropped and the road allowances graded.

As the surveys were continued north and west towards South Saskatchewan river, the country became more hilly and considerable bluffs of poplar and willow were found. Grain farming gave place to mixed farming on smaller holdings. Dairying has become an important industry, large quantities of cream being shipped into Saskatoon daily via the Canadian Pacific and Grand Trunk Pacific railways. In tp. 37-9-3 a large flock of sheep were noticed, but sheep raising is made difficult by the numerous coyotes or prairie wolves. In the rougher hilly country several large herds of young cattle were found in the care of homesteaders. These cattle were owned by grain farmers dwelling on the plains who paid the settlers in the hills to take care of and graze their stock during the summer months. This arrangement has proven so satisfactory, that there has been a very considerable increase in the number of cattle raised in this part of the province during the last few years.

Lakes were found to be numerous in this district, fifty-five being discovered and surveyed in tp. 38-13-3. The lakes investigated in the hills contained fresh water from five to forty feet deep and appeared to have very permanent well-defined banks. At the foot of the hills large alkaline lakes were found. A lake in townships 36 and 37, range 12 has its source in several small creeks flowing out of the hills which compose part of the Keppell Forest reserve. It has no visible outlet and the water is a saturated solution of the various alkaline salts never more than twelve inches in depth. These salts crystallize out in a white efflorescence upon the lake shore during the dry summer months, and the peculiar odor then given forth has caused the lake to be known by the settlers throughout the district as Stinking lake. Considerable difficulty was experienced in surveying the twelve islands found in this lake. The water was not
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deep enough to float a boat and the deep treacherous alkaline mud made it impossible to wade. However by using long poles and the canvas boat the islands were visited very probably for the first time by man during the summer months. Quantities of Saskatoon berries were found on the islands although very few were found elsewhere in the district, showing that the soil was fertile but causeways will have to be built out to the islands from the mainland before their agricultural value can be utilized.

On August 17 the traverse of South Saskatchewan river was begun in township 31, range 7. This survey was continued northeasterly to township 37, range 4. Very considerable changes were found to have taken place in the river channel during the thirty or more years since most of it was last surveyed. Large islands which formerly existed have entirely disappeared and in many places the river has shifted its channel, destroying the monuments placed near its bank by the original survey. The valley of South Saskatchewan river varies in width from one-half mile to four miles, with the river channel winding from valley bank to valley bank. Much of the river flat is now under cultivation so that the ever changing of the channel of the river is very destructive. As the river is most active in tearing away its banks during extremely high water it is probable that the reforestation of the upper watershed along the Rocky mountains and the taking out of water for the irrigation projects will tend to lessen the present rapid movements of the river. A few fish are found in the river, goldeye being the chief edible variety. Numerous signs of bank beaver were noticed as well as the tracks of a few jumping deer.

On October 5 the party crossed the South Saskatchewan on the traffic bridge at Dundurn and proceeded to investigate townships east of the river. As the operations were continued southward many lakes were found in the vicinity of the town of Dundurn. The crops in this district were fair but more rust was noticed than on the other side of the river. This district has long been settled and the farmers possess fine houses and barns.

The weather throughout the season was not favourable for survey work. It was unusually rainy during the spring and summer and on October 3 three inches of snow fell. This remained only one day but on October 17 a twenty-four hour blizzard occurred which left from ten to twelve inches of snow. A week later this had melted but the roads were almost impassable. On November 7 the weather turned cold and the lakes and roads froze up. This weather made the threshing of the grain crops very difficult so that considerable grain was still in the stooks when the party was paid off in November 19.


The work on which Mr. Bowman was engaged consisted of stadia traverses of lakes over five acres in area, and rivers over one chain in width, the investigation of marshes, sloughs and dried-up lakes, and the extension of the subdivision where possible across the dried-up water areas.

In the area comprised of townships 46 to 50 in ranges 15 to 18 west of the Third meridian the principal lakes are Jackfish lake in townships 47 and 48, range 17, and Murray lake in townships 46 and 47, range 16. Both these lakes are quite deep and have well-defined banks along the greater part of their shores. Very little change has taken place in their outline since the original survey. Generally speaking, the other lakes originally traversed in this block of townships have not changed much, except in townships 46 and 47, range 19, where a number of the old lakes have dried up. The water in many of the lakes in ranges 16 and 15 is fresh, while that in the lakes in ranges 17 and 18 is mostly alkaline.

There are no navigable streams in these townships. Turtlelake river is from twenty-five to fifty feet wide and from two to five feet in depth, with a rather slow current. Of the other streams the more important are LOSTHORSE CREEK. JACKFISH CREEK
and the creek through townships 46, ranges 15 and 16, emptying into Murray lake. Each of these is from ten to fifteen feet wide and from six inches to three feet deep. Losthorse creek flows through a deep valley, has a current of two to three miles per hour, and might be utilized for small power purposes.

The surface of the country is rolling, varying from gently rolling in some parts to hilly in others, and is partly covered with numerous clumps of poplar and willow. A number of the townships, particularly the more northerly ones, are mostly covered with poplar, willow and scrub, while in many parts fairly large areas of thickly timbered country are found.

These townships are fairly well settled with the exception of railway and other company land which comprises over half the area. Practically all available homestead lands of any value have been taken up, and some of the company lands closer to the railway. In many places, homesteaders, who have secured their patents, have left their lands, particularly in those districts more remote from the railroads. Townships 47 and 48, range 15, townships 47 and 48, range 16, and township 49, range 17 are not well settled as the country is hilly and stony in places and not suited for agriculture.

Mixed farming is the main industry of the settlers in this block of townships and yields fair success but ranching on a small scale is carried on by some. Grain growing is carried on more extensively close to the railroads and in a lesser degree, in the more remote townships. The distance of the northerly and easterly townships in this group from the railroads makes the marketing of grain on a large scale unprofitable and retards the bringing of all the available lands under cultivation. The soil is well adapted for the growth of all grains and vegetables, but wheat and oats are the principal crops grown and the yield is usually good.

Winter fishing is carried on in Jackfish and Murray lakes, the principal kind caught being jackfish.

The traverse of the lakes in this group of townships being completed on August 17, the party then crossed North Saskatchewan river at Bresaylor ferry and continued work in the area south of the river including townships 46, ranges 18 to 22, townships 47, ranges 20 to 23 and townships 48, ranges 21 and 22.

Several well-defined lakes were found in these townships which have not changed since the original survey. In general, however, the original surveys were made from thirty to thirty-five years ago and many of the lakes traversed at that time have partially or completely dried up. Several large permanent lakes, overlooked in the first surveys were found and traversed. A few of the more permanent smaller bodies of water, not previously surveyed, were also traversed.

Battle river flows through the southerly part of township 46, range 22. This stream is from one and one-half to three chains in width and has a current of two to three miles per hour. The valley banks rise 150 to 250 feet within forty chains of the river, and the slopes of the valley are mostly covered with clumps of poplar and willow. North Saskatchewan river flowing along the northerly limit of this block of townships, is the only stream of consequence.

The surface of this district is gently rolling or undulating and partly covered with numerous clumps of poplar and willow. The soil is for the most part a sandy loam or a clay loam with a clay subsoil and is well adapted for grain growing; in a few places it is very sandy and is unfit for agriculture.

Settlement is fairly good except on the company lands, and several road allowances are graded. Mixed farming, ranching and grain growing are the principal industries.

The Canadian Northern railway from Edmonton to Winnipeg runs in an easterly and westerly direction, across this group of townships. The main towns along this line are Delmas, Bresaylor, Paynton and Maidstone, all of which are small, and fairly prosperous, although much of their old trade has been cut off by the Turtleford
branch of the Canadian Northern railway to the north and by other railway lines to the south.

The next area examined comprises the following townships or parts of townships north of Saskatchewan river; townships 47, 48, 50, and 51, range 20, townships 48, 49, and 50, range 21, and townships 50, ranges 22 and 23. The lakes in these townships have, in most cases, dried up somewhat since the time of the original survey, although some of them remain unchanged. A number of small lakes which had not previously been surveyed were traversed. Turtlelake river and Englishman river are the main streams in this group, the former being from twenty-five feet to fifty feet wide and the latter from fifteen to twenty-five feet.

The branch of the Canadian Northern railway from North Battleford to Turtleford runs through the northeast corner of this group and affords fairly good transportation facilities. The principal business towns for the settlers in this group are Vawn, Edam, Mervin and Turtleford, all being small, thriving towns along the railroad. Turtleford, especially, is doing a thriving business at present, due to its being at the end of steel and drawing trade from a large territory to the north.

The surface is rolling with many clumps of poplar and willow, and in some parts there is a fairly heavy growth of poplar and bush with very little open country. The soil is mostly a sandy or clay loam with clay subsoil and is well suited for grain growing. Mixed farming is the main industry of the settlers. Grain growing for market is carried on by many, though few carry on this branch of farming exclusively. The percentage of land under cultivation in these townships varies from one-twentieth in some townships to two-thirds in others, the average percentage probably being about one-fifth. The climate is suitable for grain growing though in some seasons frosts are experienced before the crops are cut.

The last area examined comprises the following townships and parts of townships south of North Saskatchewan river; townships 50, ranges 24, 23, and 22; townships 49, ranges 22 and 23; and township 48, range 23.

Most of the lakes originally surveyed in this group have receded to some extent, some of them having dried up entirely. A number of new lakes were also surveyed. Big Gully creek is the main stream in these townships and is from ten to thirty feet wide. It flows through a fairly wide valley, the slopes being gradual.

The surface of the country is rolling to hilly with numerous clumps of poplar and willow. The soil is a sandy or clay loam with clay subsoil. Water can usually be obtained by digging to a depth of from twenty to fifty feet. Fuel is plentiful and easily accessible in the numerous bluffs, and building timber may also be obtained without much difficulty.

This work was completed on November 18 and the party began the traverse of North Saskatchewan river through a number of townships beginning at the north outline of township 50, range 23, and working southeasterly to the south outline of township 46, range 18. This work which completed the season's surveys was done on the ice, as it was found impossible to make reasonable progress during the summer.

The North Saskatchewan is from one-quarter to three-quarters of a mile in width becoming wider towards the east. There are numerous islands and many sandbars along the course of the river, thirty-nine islands being traversed in one township. These islands are mostly covered with balm of Gilead up to two feet in diameter and with a dense growth of brush. Much timber for building and other purposes is obtained on these islands by the settlers during the winter months. Some of the islands, however, are covered with only low willow brush. The banks of the valley rise fairly rapidly in places and more gradually in others and reach a height of from 150 feet to 300 feet within twenty to forty chains of the edge of the river bed. In places the slopes of the valley banks are covered with a dense growth of brush and timber, while in other places the slopes are mostly open with clumps of poplar and willow. The timber along the river valley is mostly poplar, balm of Gilead, birch, ash and spruce. Much of the larger timber has been utilized by the settlers for building
purposes. Many springs and small streams enter the river along its course, the main streams being Englishman river, Turtlelake river, and Big Gully creek.

Ferries for crossing the river are located in township 51, range 24; near the northeast corner of township 47, range 21; in township 46, range 19; and near Delmas in township 46, range 18. Very little teeming of grain across the river is done now as railroads are located on both sides. The trails or grades up the steep banks from the ferries are always very difficult for heavy loads, and in wet weather they are almost impassable.

Surveys by W. J. Boulton, D.L.S., southeast of Calgary.

The investigation of water areas carried on by Mr. Boulton extended over the district comprising townships 15 to 19, from range 13 to range 30 inclusive, west of the Fourth meridian.

The work in the early part of the season was considerably impeded by a prolonged spell of bad weather, rain falling almost every day until June 6. From June 8 till August 4, the party investigated and surveyed a large number of small water areas in that part of the district lying west of Bow river, exclusive of the township through which Little Bow river and Mosquito creek flow. Generally speaking, that part of the district west of range 22 is practically all settled and seventy-five per cent is cultivated and fenced. The old trails have completely disappeared and their places are taken in many instances by graded roads along the regular road allowances. During the past two years these townships have produced phenomenal crops, due principally to the great amount of rainfall. This particular district is decidedly prosperous looking as evidenced by fine barns, granaries and substantial dwellings.

The district to the east of range 22 bounded by Bow river is sparsely settled in its northerly half, a great portion of it being used for grazing. The southerly half, however, is partly settled and wheat is being grown to a considerable extent. This district now enjoys the facilities of fairly good railway transportation, the Canadian Pacific railway operating three accommodation trains weekly, and in the fall extra freight trains to take care of the grain.

Lake McGregor shown on the plans as being in townships 15, 16, 17, and 18, range 20, is not a reality as yet. This is a proposed reservoir for the Southern Alberta Land company’s irrigation project. The retaining dams and a number of canals have already been constructed, but further work has been temporarily suspended.

The investigation of the district to the east of Bow river was commenced on August 4. This district is practically unsettled and is owned by the Canadian Pacific Railway company which has spent a large amount of money in the construction of aqueducts, siphons, canals, and laterals for irrigation purposes. A large reservoir called Newell lake, has been created in the valley along the range line between ranges 14 and 15, and which occupies parts of townships 16, 17, and 18. Not more than seven per cent of this irrigation district is under cultivation. The soil is of a light sandy variety, but if properly irrigated should be very productive. Scattered throughout this district are many small sloughs, which in dry seasons would probably contain no water; a few alkaline mud flats were traversed.

Bow river was next traversed through tps. 17, 18, and 19-18-4; tp. 17-17-4; and tps. 15, 16, and 17-16-4. Ferries have been established and are operated by the Provincial Government at intervals of twelve or fifteen miles. A splendid coal mine is in operation at “Bow City,” but its activities and output are hampered by lack of railway transportation.

The traverse of Little Bow river was commenced on the S. by. tp. 15-21-4, and continued up stream through tps. 14 and 15-22-4, and tp. 15-25-4. Mosquito creek was also traversed from its mouth in tp. 15-25-4 to the point where it crosses the E. by. tp. 16-20-4.

The investigations of the townships in the southwest corner of the district completed the season’s work.
On May 20 Mr. Cowper began work in tp. 24-13-4. The season’s surveys consisted of traverse by stadia of all water areas over five acres and the establishing of monuments on the dried-up beds of lakes and marshes.

With the exception of a few boundary townships, the surveys were confined to that block of townships extending from township 22 to township 33, and from range 4 to range 13 inclusive, west of the Fourth meridian. These townships lie immediately north of Red Deer river and are all prairie. The only wood found grows along the river. The townships adjacent to the river are more or less highly rolling, and continue rolling as far north as township 29. North of this township the surface is either level or gently rolling.

The soil is mostly a sandy loam, although in some of the townships considerable gumbo and alkali was encountered. On the whole this district is excellent for farming as the soil with sufficient moisture is very productive, and all grains and roots do very well. Except in the townships along the Red Deer, water is readily obtained at a depth of fifteen to fifty feet and is mostly of good quality. This block of townships is very well settled, there being practically no homesteads available.

The Saskatoon-Calgary branch of the Canadian Northern railway enters this block in township 28, range 4, and leaves it in township 31, range 13.

During the summer of 1916 the Canadian Northern Railway company commenced construction on their branch line from Hanna to Steeville. This line leaves the Saskatoon-Calgary branch in township 31, range 13, and crosses Red Deer river at Steeville in township 22, range 12; eventually it will be extended to Medicine Hat. This branch will provide convenient railroad facilities to a large number of settlers, but the district will not be sufficiently served by railroads until a line is built parallel to the Canadian Northern and midway between it and Red Deer river. The settlers immediately north of the river haul their grain south to the Empress-Bassano branch of the Canadian Pacific railway, but on account of the steep grades to the river they have considerable trouble.

As coal is the only fuel used, the settlers are fortunate in being able to obtain it in townships 29, ranges 12 and 13, and also in township 32, range 13. This coal occurs in seams several feet thick and at a depth of five to fifteen feet. The largest of the mines operating is at Sherness in township 29, range 12. Before the Canadian Northern railway was constructed the settlers for a hundred miles east came there for coal; it is of fairly good quality, although it soon disintegrates on exposure to the air.

As the lakes and sloughs in this district fill almost entirely from the drainage of the surrounding country, and evaporation is their only outlet, their condition depends wholly upon the rainfall. In a dry year, such as 1914, all the lakes are dry, while in a wet season, such as last year, they are all full of water.

In all the townships investigated a large amount of surface water was encountered almost every section containing some water. By far the greater number of these water areas were only flooded hay marshes, and in a normal year hay would be cut on them. Last season they were covered by a foot or two of water which prevented hay from being cut.

Comparatively few lakes were encountered during the season. In ninety-two townships investigated only eighty-seven lakes were found which appeared to be of sufficient permanency to warrant the traversing of them. With the exception of one or two, all of these lakes were reported to be dry in 1914, but the majority are only dry in very dry years, and when they are dry their beds are of practically no value.

No important lakes were traversed, Kirkpatrick lake in township 33, range 9 and townships 33 and 34, range 10, being the largest one. Although this lake was completely dry in 1914, during the past season it was five miles long, two miles wide and
seven feet deep in the centre. At the west end it runs out into a large bay marsh. Antelope lake in township 31, range 9, although only two and a half miles long and a mile and a quarter wide was the next largest. Sounding creek enters at the north and drains out of it at the south. Dirty lake in township 25, range 9, might be mentioned as an example of a lake which dried up in 1910 and remained dry until the fall of 1914. Although it produced a good crop of hay in 1914, last June it was covered by six feet of water. The majority of the lakes traversed were alkaline, but only a few were too strongly alkaline to prevent stock from drinking the water.

On September 21 the traverse of Red Deer river was commenced in township 22, range 12. This river was traversed east as far as the north boundary of township 22, range 4, with the exception of township 21, range 10 and townships 23, ranges 7 and 8 which had been previously traversed. In this stretch the width varied from six chains to thirty chains, with an average width of about ten chains. The river is full of islands and sandbars. In ten townships, seventy-eight islands varying in size from a fraction of an acre to two miles long and twenty chains wide were traversed. The main channel of the river is only a few chains wide and at low water is about five feet deep with a current of about four miles an hour. On account of the many shifting sandbars it is unlikely that the river will ever be navigated to any extent. In many places the shore of the river is a steep cut bank ten feet high and then a level flat of a few chains covered with dense brush and thorn bushes. There is also a considerable amount of poplar, balm of Gilead, and black birch along the river valley and on the islands.

A large number of beaver were noticed on the river, and they seem to be increasing rapidly. The only other game noticed during the summer were numerous ducks and a few chickens. No antelope were seen although their tracks and also tracks of deer were noticed along the river. The past season was exceptionally wet and considerable time was lost on that account. A heavy frost occurred on August 11.

**Surveys by T. A. Davies, D.I.S., in the Wainwright District.**

The block of townships in which Mr. Davies was employed, extends from township 38 to township 47, range 1 to range 9, west of the Fourth meridian, together with tp. 37-4-4 and tp. 37-28-3.

Work was begun on May 16 and continued until October 7. The surveys required were then completed, except for the traverse of Battle river which was postponed until the ice should form, as the survey could then be carried out more expeditiously.

Weather conditions throughout the season were not favourable, the rainfall being heavy. The surface of the country generally is rolling. Through ranges 5 to 9 there are clumps of poplar and willow scrub but ranges 1 to 4 are practically all prairie. The lakes are comparatively small and generally alkaline. Killarney lake in townships 41 and 42, range 1 and Sounding lake in township 37, range 4 are the two largest bodies of water.

Transportation facilities are good, as the district is crossed by the Canadian Pacific railway in the southern part and the Grand Trunk Pacific in the northern part. Roads through the most of these townships are graded where most necessary, and bridges are built across the more important creeks.

The production of grain is the chief industry of the district, wheat being the principal cereal. Oats, barley, and an occasional field-of flax are of secondary importance. Potatoes and other vegetables are grown, mostly for private consumption. A few settlers through these townships give their attention entirely to cattle raising, but mixed farming is becoming more popular.

The most advanced settlement and best farming district is in the vicinity of Cairns, Cadogan and Prevost along the Canadian Pacific railway, especially in the
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country about Prevost, where almost all the land is under cultivation and is producing large crops of grain.

On October 7 the party was paid off and the outfit stored in the vicinity of Wainwright, Alberta.

Surreys by J. H. McKnight, D.L.S., southeast of Prince Albert.

The season's surveys were begun by Mr. McKnight in tps. 39 and 40-19-2. These townships contain numerous shallow lakes with abundant hay around the edges. The surface is covered with poplar and willow scrub, but the soil is good and is especially adapted for mixed farming.

In township 41 range 19 and township 42 range 20 the surface is high and rolling, with considerable bush. The lakes nearly all contain fresh water and a depth of ten feet was found in a lake in township 41 range 19. This lake is a mile and a half long, three-quarters of a mile wide and is fed by springs. In township 43 range 19, there are several large lakes, the water being slightly alkaline and averaging nine feet in depth.

The block comprising townships 44 and 45 ranges 18, 19 and 20 is open and well settled and the roads are good. Many large grain fields were noticed and there has not been a crop failure during the past fifteen years. Several herds of cattle were also seen. The farmers are very prosperous and nearly all have telephone connection with Melfort. This town is situated on the Canadian Northern railway and has a population of about 1,400. It is very prosperous and has electric lighting, water-works and sewerage systems. There is also a large government creamery in the town, with an average weekly output of 12,000 pounds of butter. There are a few shallow lakes and the district is well drained by Melfort and Goosehunting creeks, which empty into Carrot river.

In the district around Kinistino which was next investigated the surface is undulating, with poplar bluffs and is fairly well settled. The farmers have nearly all gone in for farming or stock raising, with success and several large herds of cattle were noticed. This district is drained by Carrot river, which is the outlet of Waterhen lake. This lake is six miles long, two miles wide, contains alkaline water, and is about five feet deep. In township 44 range 21, there is a large lake locally known as Waterhen marsh. It is about five miles long, one mile wide and is full of rushes. The water is alkaline and the outlet of this marsh is also Carrot river. The soil of Carrot river valley is noted for its fertility.

Ducks were very plentiful in the whole district, but no large game was seen. Deer are, however, reported to be plentiful in township 42 range 19.

Surreys by P. E. Palmer, D.L.S., in the Outlook District, Saskatchewan.

The area covered by Mr. Palmer's surveys extends, in a general way, from township 18 to township 30, across ranges 2 to 17 west of the Third meridian. The party was organized at Saskatoon on May 16 and from that date until July 5 the townships east of South Saskatchewan river were examined. This district is generally very dry, and very little traverse work was necessary. The party however was kept fairly busy with resurvey work such as erecting monuments at corners which were wet at the time of the original survey. About July 1 several very heavy rainfalls occurred which filled up most of the marshes and from that time on very little resurvey was possible. The area comprised in this block is for the most part excellent farming land and well settled. The roads are usually good and nearly every farmhouse is reached by the rural telephone lines. It appears to be a very prosperous section of the country.
On July 5 South Saskatchewan river was crossed at Elbow and from there work proceeded west through townships 23 to 27 as far as range 13. In townships 24 and 25 ranges 10 and 11 and in township 22, range 13 a good deal of traverse work was necessary, but elsewhere in this district there was very little of either traverse or resurvey to be done. On account of the Coteau hills which run through this section there are no large continuous areas of agricultural land, but on the flats between the hills and the river and especially in townships 22 and 23 ranges 8 and 9 there is some exceptionally fine land. All this district west and north of the South Saskatchewan has been greatly handicapped by the lack of railway facilities. In some cases settlers have had to haul their produce forty or fifty miles over a rough country, in addition to crossing the river, in order to reach a market. This condition is now being remedied as the Canadian Northern railway has a line under construction which will serve the needs of a large part of this area. Some large grazing leases are still found in this district, the Matador ranch which embraces nearly six townships being the most important. This ranch usually has between five and six thousand cattle. About one-third of this lease is very good farming land but the rest of it could be used for nothing but grazing.

On September 5, the South Saskatchewan was again crossed at Saskatchewan Landing and a traverse of Swift Current creek was made in townships 19 and 20, range 13 and of South Saskatchewan river in township 20, range 13. On September 13 the party started down the river by scow, traversing both sides of the river and the islands, on the way.

Difficulty was often experienced in finding old monuments near the river on which to tie the traverse. In some cases it was necessary to go back two miles or more from the river to make a tie. The scow proved to be a very convenient method of moving on this work as many long detours would have to be made around ravines in moving with horses and wagons.

On October 30, the traverse of South Saskatchewan river in tp. 30-8-3 was completed and survey operations were closed for the season.

**Surveys by C. Rinfret, D.L.S., in the vicinity of Moosejaw.**

Mr. Rinfret began work south of Moosejaw in tps. 13 to 17-25-2; tps. 14 to 16-26-2; tps. 15 and 16-27-2; and tp. 16-28-2. The surface of these townships is undulating to gently rolling and the soil consists of a good clay loam. There are very few permanent bodies of water except Moosejaw creek.

All of tps. 10 to 13-26-2, tp. 11-27-2; and tp. 15-28-2 are highly rolling to hilly open prairie. Although very good crops are raised in a few level spots the land is best suited to ranching purposes. There is abundant grass and hay, fresh water, and proximity of railroads.

Townships 7 to 11, ranges 1 to 7, townships 13, ranges 2 to 7 and townships 13 and 14 ranges 3 to 7 all west of the Third meridian were then investigated. These townships form what is generally called the Gravelbourg district through which the Canadian Pacific and the Canadian Northern railways run. The surface is rolling and the soil is of first-class clay loam. Although this district began to be settled only ten years ago a good percentage of the land is now under cultivation. The best fields of grain noticed during the whole season were found to be around Gravelbourg. Water is scarce in some places but Wood river, Notuken and Wiwa creeks furnish a good supply of excellent water.

The northern part of this district composed of townships 13 and 14, ranges 3 to 7, is more highly rolling and contains some alkaline ponds and flats. The fact that its distance from the railroads is some twenty to thirty miles renders it less desirable to settlers. There are however some prosperous farmers.
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The last work was in townships 8 to 11, ranges 28 to 30, west of the Second meridian, adjoining lake of the Rivers. The surface in these townships is rolling except in the immediate vicinity of the lake where it is broken by ravines. The soil is good and well adapted to grain growing. There is room in this district for many more farmers who would make a good living. A branch of the Canadian Pacific railway is being built about ten miles west of the lake.

In the district covered during the past season, the crop was fairly good. Some fields suffered much from the rust but where the soil had been summer fallowed and the seeds well selected splendid crops were noticed. Experienced farmers stated that they had not had a failure for the last ten years. Although there was more snow and rain last year than for many years past, many lakes were found to have dried up since the country was subdivided. Forty-three section corners then under water are now dry and were marked by proper monuments.

SURVEYS BY W. A. SCOTT, D.L.S., NORTH OF REGINA.

Mr. Scott's work consisted of the investigation and necessary traverses of water areas in the block of townships situated approximately between the main lines of the Grand Trunk Pacific railway and the Canadian Pacific railway between ranges 15 and 22, west of the Second meridian. Bodies of water recorded by previous surveys were examined and a careful exploration of the country made for any other lakes which might exist. In addition to this monuments were erected at section and quarter-section corners which were formerly covered by water. Many depressions which seldom contain water were flooded, due principally to the heavy snowfall of the past winter and also to an unusually wet summer, and the ordinary sloughs and lakes were at high-water mark. This condition made it difficult to determine what bodies of water were permanent.

Two-thirds of the country investigated was prairie and the remainder varied from poplar bluffs bordering on the prairie to bush country in the Touchwood hills. Practically all of the land is patented, but much of it over five miles from a railway is vacant, being held by large land companies or individual speculators. In general the prairie lands may be said to be occupied by Canadian, English, or American farmers, the bluff country by Germans, chiefly from the United States, and the bush country by Germans, Austrians, Hungarians, Russians, and Galicians who have recently immigrated.

In the prairie country the land is devoted almost entirely to the growing of grain. Good roads are constructed at a comparatively small expense, and most of the roads allowances are graded. Much work has been done in recent years and it would appear from the progress made that it will be only a short time until there are good roads everywhere. Telephone lines exist almost everywhere up to five and ten miles from the towns, and the lines are being rapidly extended to cover greater areas. Water on the prairie is scarce and the farmer is fortunate whose land contains a drainage channel which can be dammed to store water for the summer months.

In the country containing bluffs, one-half of the roads are graded and these only where necessary, but the main avenues of traffic are well graded and kept in very good condition. Water supply is not such a problem, for only in an exceptionally dry season do all of the sloughs dry up. The land in this area is devoted chiefly to mixed farming.

The greater part of the bush country has been settled by Europeans with no capital, and progress has necessarily been slow, but in spite of this, there are a few well-graded roads, and close to the towns there are telephone lines. The settlers have confined themselves chiefly to raising cattle, but as more land is cleared mixed farming will be carried on.

There is some game in the district investigated, chiefly ducks, prairie-chickens, rabbits, and muskrats. Partridges seem to have almost disappeared. There are still a few deer in the Touchwood hills.
The season's surveys on which Mr. Soars was employed were begun in tp. 46-23-4 near the village of Gwynne. This village is the centre of a busy dairying country, much milk and cream being shipped over the Canadian Pacific railway to Edmonton and Camrose. The settlement contains a mixed population, the majority being Scandinavians.

Until 1914 a brick-kiln was operated at Gwynne and turned out a very fair sample of brick but it had to close down owing to the cessation of building in Wetaskiwin and Camrose. The area between these two towns, comprising townships 45, 46 and 47, ranges 20 to 23, is well adapted to mixed farming; it is drained by Battle river and tributary creeks, the largest of these being Pipestone creek.

There are three fairly large bodies of water in these townships. Driedmeat lake, Coal lake, and Bittern lake; the two former are of very similar character, lying in valleys from sixty to one hundred feet deep, the banks of which are well wooded. The former lake is drained by Battle river the latter by its main tributary Pipestone creek. Bittern lake in townships 46 and 47 ranges 21 and 22 is a surface-fed alkaline lake. It has no outlet but could easily be drained into Battle river, which lies about 175 feet lower than the lake and distant about one and a half miles. Lakes and sloughs are very numerous in tp. 45-22-4, some of them containing fairly good water, but the majority of water areas in this locality are distinctly alkaline.

Battle river which was traversed through townships 45, ranges 22 and 23 and townships 46, ranges 20, 21 and 22 has an exceedingly tortuous course; six steel traffic bridges cross it in this district. It flows in a valley which averages three-quarters of a mile in width and from sixty to one hundred feet in depth. It is about five feet deep and the water is excellent, the current being fairly swift and running over a gravelly bed. The valley bottom is generally covered with dense willow but where these have been cleared good hay land has resulted; this year the river flooded these flats in September and considerable hay was spoiled in the stacks.

A small outcrop of soft coal was noticed in sec. 6, tp. 46-22-4.

From these townships the party worked north and east the land being more open and level. The water areas are surface fed and decidedly alkaline, and the bush somewhat lighter; some of the wells were found to contain water strongly impregnated with salt; this was particularly noticeable in sec. 3, tp. 47-19-4.

Soft coal mines are in operation in sec. 17 tp. 48-19-1; sec. 30 tp. 49-19-4 and sec. 7 tp. 46-18-4.

The country around Bawlf and Daysland in townships 45 ranges 15 to 18 was found to be so badly flooded that many of the crops were lost and work had to be discontinued. If Driedmeat creek, which drains this section of land, were cleaned out and deepened in places it is probable that the surrounding country would benefit considerably. At present the roads after any heavy rain are in a deplorable condition and much of the land is under water.

These townships are very suitable for mixed farming as the markets are easy of access and there is sufficient bush to afford good cattle shelter. The majority of the settlers appeared prosperous and well supplied with horses, cattle, sheep, hogs and machinery.

Some severe hailstorms were experienced in the fall especially in townships 49 ranges 18 and 19, and owing to the late spring nearly all the wheat and barley was caught by early frosts.

Work was discontinued from October 25 to January 8 when the traverse of Battle river and such lakes as could not be surveyed in the summer was made. This work was completed on February 19.
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Before proceeding with the regular stadia surveys Mr. Walker was employed for about ten days, on the completion of the survey of Block 40 of the St. Julien addition to the townsite of Banff which had been left unfinished the previous season.

The regular stadia surveys were commenced in tp. 43-27-2, and included the work in townships south and west of Humboldt.

In the northerly portion from township 39 to township 44 the surface is very rough and covered with a dense growth of bush which made progress slow. Every section had to be investigated as the settlers were nearly all from central Europe and could not speak English well enough to tell where the water areas were. Graded roads were very scarce and it was difficult to get from place to place. The shores of some of the lakes were very boggy and horses could not be taken near without getting mired. In nearly every lake and slough the water was so alkaline as to be unfit for stock.

Farther south around Buffer lake the surface of the country is level, especially to the east, where many sections are so wet as to be useless for agriculture. The lake is very shallow and the water strongly alkaline.

The party proceeded south through ranges 28 and 29 as far as township 34 and thence worked easterly.

The country in the neighbourhood of Colonsay and Viscount is in a very prosperous condition, graded roads, telephone lines and rural mail deliveries being almost everywhere. Several farmers with large holdings have taken up properties, have erected splendid buildings, and made many improvements. In fact this would appear to be as fine an agricultural district as any in the West. One farm alone in the vicinity of Viscount is comprised of fifteen sections of land, and is worked by the most modern methods. It might be noted in passing that the total crop on this farm, with the exception of two hundred acres, was completely destroyed by a severe hailstorm, which passed over this district in August.

North of Viscount in townships 36, 37, and 38, ranges 25 and 26, the surface is very rolling and with numerous small sloughs and ponds; these sloughs are invariably alkaline, usually with a strong disagreeable odor. The soil is inclined to be gravelly. The settlers are mainly Austrians, Galicians, and Germans, and are of a very unprogressive nature, there being scarcely any local improvements in these townships.

The next work was the investigation of tp. 36-22-2, tp. 36-23-2, tp. 35-23-2 and tp. 47-1-3, in the order named. A large portion of tp. 47-1-3 is covered with thick bush and brush, and consequently the settlement, is in a somewhat backward state. The only graded road found adjoins the Third meridian. Quite a large portion of this township is suitable as hay land only. Large floating muskegs were found, in the western portion of the township, adjoining the Pines Forest reserve.
APPENDIX No. 9.

MISCELLANEOUS SURVEYS.

Resurveys by C. F. Aylsworth, D.L.S., in Manitoba.

The party of which Mr. Aylsworth had charge left Winnipeg on April 8 for tp. 18-19-Pr. to resurvey that portion of the township lying outside the forest reserve. The southwest corner of the township is heavily timbered but the eastern part is more open. Some of the homesteaders have been located there for about ten years and are in a very prosperous condition while the more recent arrivals are also doing well.

Completing this work on May 31, the party next moved to tp. 38-28-Pr. to subdivide the portion of the township not included in the forest reserve. The Canadian Northern railway runs through the township to the east. Bowsman in that township being the nearest railway station. The farmers in that vicinity appear well-to-do as the soil is rich and easy to cultivate. North of Bowsman where the district is hilly the rainfall is plentiful, a shower falling almost every day, but in the valley the precipitation is considerably less. West of Bowsman there is a heavily timbered area and the land will be difficult to clear, but the surface is undulating and easily drained and the soil is fertile. The forest growth consists of poplar and spruce with hazel underbrush, and the soil is good clay loam.

On completing this work on July 14 Mr. Aylsworth was forced to cease field operations on account of ill health. The work of the party however was continued under the management of Mr. J. A. S. King, D.L.S.


Mr. Cote's first work was a resurvey in tps. 41 and 42-23-2. These townships are badly broken up by lakes and sloughs, but the few settlers who have taken up land in the district are engaged exclusively in mixed farming and seem to do remarkably well. The northern portion of township 42 is thickly covered with bush, consisting mostly of poplar, some of which measures ten to twelve inches in diameter. Roads are unknown in that part of the township and the rough route followed would have been impassable with loads, had the frost been out of the ground.

The eastern portion of tp. 47-1-3 was next resurveyed. This township lies outside the boundaries of the Pines Forest reserve. The soil is light and as a general rule crops are not good. The surface is well covered with bush and is broken up by numerous lakes, sloughs and muskges.

After completing this work the party resurveyed tp. 34-5-3 and tp. 34-6-3. The land in this district has all been taken up and the greater part of it is under cultivation. Crops are usually good but this year they were greatly damaged by hail. The southwest corner of tp. 34-5-3 is within the Dundurn Forest reserve. The surface is gently rolling, with numerous bluffs of poplar and willow bush. Beaver creek crosses the township from the southeast to the northwest. Last year a fair crop was raised but as a general rule, on account of the light soil, crops were poor. The surface of tp. 34-6-3 is broken up by the valley of South Saskatchewan river, which is from two to four miles wide. The survey of this township was made when the river was high and the greater part of the valley was under water. This, coupled with the heavy growth of willow, greatly delayed the progress of the work.
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In order to move camp across the river it was necessary to go around by Saskatoon, a distance of over forty-five miles. Pike lake lies in the southwest of this township. This lake, which contains fresh water, presents many attractions and hundreds of people, principally from Saskatoon, visit this resort during the summer months. The Saskatoon Auto club has erected a club house on the shore of the lake and many are following its example by building summer cottages. The work in these two townships was completed on August 2.

Some small miscellaneous surveys were carried out in tps. 30, 31, and 32-28-2 and tp. 31-29-2.

In order to expedite the work the party was divided into two sub-parties to do several small scattered surveys. These two sub-parties united again in tp. 50-25-3, after having made surveys in nineteen different townships during the month.

The surface of tp. 50-25-3 is rolling to rough rolling. It is dotted with patches of poplar and willow bush and with numerous lakes and sloughs. The soil is a rich clay loam and crops are usually good.

When the resurvey of tp. 50-25-3 was completed the party was again divided into two sub-parties and small surveys were made in nineteen townships: tp. 31-12-2; tp. 41-13-2; tp. 37-14-2; tp. 45-2'-3; tp. 45-27-2; tp. 38-22-2; tp. 38-23-2; tp. 39-18-2; tp. 39-13-2; tp. 27-10-2; tp. 26-9-2; tp. 41-23-2; tp. 45-27-2; tp. 36-17-2; tp. 46-26-2; tp. 47-26-2; tp. 47-27-2 and tp. 46-12-2. Operations were then closed for the season on December 4.

Scattered Surveys by S. L. Evans, D.L.S., in Saskatchewan and Alberta.

The miscellaneous work performed by Mr. Evans consisted of the resurvey of townships in southern Saskatchewan, the examination of subdivision surveys northwest of Peace River, miscellaneous surveys northeast of Edmonton, the completion of the survey lines of timber berth No. 2338, and retracement surveys in connection with Lac La Biche settlement. Field work was started with the resurvey of tp. 32-5-3, commenced on April 24 and completed on May 1.

From this township the party moved across country travelling through the Outlook, Rosetown, and Elrose districts. The lands in the two former districts are well taken up and are being farmed extensively. Fair crops were harvested last season, and fully fifty per cent of the land was under crop. These districts are counted among the choicest grain-growing parts of Saskatchewan. Branch lines of the Canadian Pacific and Canadian Northern railways serve the people with fairly good shipping facilities. The Elrose district has only been settled in the last few years, but already good progress is being made by the settlers. A new branch of the Canadian Northern railway has recently been extended to the west of the town and will give the farmers better shipping facilities.

The south two-thirds of tp. 20-16-3, tp. 22-18-3, and tp. 20-14-3 were next resurveyed. This work was completed on July 20. South Saskatchewan river passes through these townships, and the lands in the valley are largely used for ranching purposes. Part of the bench lands in tp. 22-18-3 are only useful for grazing purposes, being composed of sand hills. The bench lands of tp. 20-16-3 are rolling prairie and are well settled; good progress is being made by the settlers. Township 20-18-3 is largely held for grazing lands, being part of the lease of the Matador ranch, one of the largest cattle ranches in the province. Settlers from this district are served either by the Canadian Northern railway (Elrose branch) or the Empress branch of the Canadian Pacific railway, located to the south of South Saskatchewan river. Success, Pennant, and Cabri, the adjacent towns on the latter railroad, are growing business centres. The town of Cabri for the year 1915 has the unique record of shipping the second largest amount of grain for any station in America.

25b—0
The next work, the resurvey of tp. 12-17-3, was completed on August 10. Webb, on the main line of the Canadian Pacific railway, is the trading town for this district. It has a population of 400 and is a first class farmers’ town. The lands in this district are very choice prairie, and are well settled and farmed. Most of the area is under tillage, and good crops have been harvested.

The lands in tps. 14 and 15-19-3 have only been taken up in the last five or six years but already considerable of the acreage is under crop. The surface is rolling prairie with good clay loam soil. Gull Lake is a prosperous business centre of 900 population. It might be noted that the first frost to occur in the Gull Lake district was on September 14, but no damage resulted to the crops as nearly all the grain had been cut. Throughout the season there was an abundance of rainfall; in fact, in many nearby localities there was too much moisture, and rust developed on the grain which lowered the crop yield considerably.

In connection with the resurvey of all of the above-mentioned townships, levels were run over a certain number of the surveyed lines, using the new style survey posts for bench-marks. These levels were connected by tie lines to known elevations on the Canadian Pacific railway and they can thus be reduced to elevations above sea-level.

On October 5 the examination was commenced of the subdivision surveys made by Mr. J. C. Baker, D.L.S., north of Peace River. The lands investigated are in the Battle River country and some excellent, fairly open farm land will be available when these townships are thrown open for homesteading. Some large areas of merchantable timber are found in the district. No railway lines operate on the north side of Peace river, but the Edmonton Dunvegan and British Columbia Railway company are building a steel bridge across the Peace at Peace River, and it is probable that in the course of a few years the north side of the river will be supplied with railway facilities which will give an impetus to the settlement of that vast country.

Several small miscellaneous surveys were made northeast of Edmonton, such as investigating dried-up water areas, the extension of subdivision lines across already reported dried-up water areas, and the building of mounds at corners where formerly in the original survey of the lands the monuments had not been built. These surveys were in tp. 60-18-4, tp. 59-11-4, tps. 59 and 61-12-4, tp. 57-10-4, tps. 57 and 58-9-4, tp. 60-6-4, and tp. 56-3-4.

Considerable of this territory is in the St. Paul de Metis district, and is fairly well settled but up to the present the settlers have had very poor railway facilities. St. Paul de Metis is a thriving town of 600 population and is located seventy-five miles from Vegreville, the nearest shipping point, on the Canadian Northern railway. The Oliver St. Paul branch is under construction and at the present time about fifty miles of road-bed is graded and just recently the laying of steel from the Oliver end of the road was begun. This road when completed will serve a very large territory. A great deal of the land is choice farming country covered with scrub and small poplar and should show rapid development once the settlers have the means of shipping out their grain.

When these surveys were completed on December 22, the boundaries of timber berth No. 2333, located in tp. 74-5-5 and tp. 74-6-5 were surveyed. A small retracement at Lac La Biche completed surveys for the season.


Field operations were begun on June 1, and until July 12, Mr. Fontaine was engaged on small surveys in the vicinity of Strathmore, Morley, the city limits of Calgary, Furman, Boundary Creek, and Turin.

Following this a preliminary survey was made for the projected subdivision of parts of sections 10 and 11 in township 29-20-4, adjoining the town of Drumheller; some small surveys were also made at Okotoks and Crossfield.
In the Edmonton district surveys in the vicinity of Carvel, Stonyplain, Hinton, Nordegg, Holborn, Glenister, Mossip, Maybridge, Bardo, New Sarepta, and Grammnia were performed. The season's operations were closed on December 22.

During the season the operations covered a wide range, and for the most part were in well-settled sections, and in many of these the neat and comfortable appearance of school and farm buildings are evident signs of prosperity. The towns of Drumheller and Nordegg are industrial centres and will yearly grow in importance as both of them are headquarters of several important coal-mining companies.

The surveys were varied in their nature ranging from investigations to subdivisions and as in most cases the length of time required to complete any one of them was but a few days, help and transportation were procured locally.


After the resignation on account of illness of Mr. C. F. Aylsworth, D.L.S., his party was taken charge of by Mr. King, his assistant. From that date, July 13, 1917, till the end of the season the work consisted of subdivision in tps. 40 and 41-25-Pr.; miscellaneous work in tp. 43-26-Pr, tp. 44-27-Pr, tp. 44-28-Pr, and tp. 44-29-Pr, these being in the Porcupine mountains or the immediate vicinity; retracement, subdivision, and investigation at Big-grass marsh, with three and one-half miles of base line; the retracement and re-establishment of the boundaries of Moose Mountain Forest reserve; the traverse of Swan lake and river in tps. 40 and 41-23-Pr; the investigation of monuments and traverse of Woody river in tp. 40-24-Pr, the determination by chainage of the difference of latitude between the ends of the 8th base line in the first and second systems of survey; the investigation, retracement, and subdivision of Lizard lake in tp. 4-7-Pr. and tp. 4-8-Pr. near Manitou, Manitoba; and the retracement and subdivision of lands around Whitewater lake in tps. 3 and 4-21-Pr. and tps. 3 and 4-22-Pr. This work was completed on January 24, 1917.

Swan lake is a fine large body of water, particularly free from islands. Its southern and western shores are mostly low and marshy. Swan river enters it exactly at the north boundary of township 40, range 23. The river during its course in this township is very deep and sluggish, somewhat crooked and having cut clay banks which everywhere are heavily overhung with underbrush and trees, undermined and fallen over. The lands all around this lake are very flat and marshy and it seems very probable that the lowering of Swan lake by one or two feet would do a great deal towards making this one large hay marsh, suitable for hay cutting. At present large areas of it, while producing a luxuriant growth of hay, are far too wet to allow of the saving of the crop. Settlers say that Shoal river, the northern outlet of Swan lake, is very shallow and that a deepening of its channel would materially affect the drainage of this area. Swan lake and river is the end of the old Hudson's Bay company's route of bringing supplies from Hudson bay to the interior country. Here at some point in Swan river, according to the season and height of water, the freight was transferred from the York boats to the Red River carts. The old Hudson Bay-Fort Pelly trail, following Swan river, is still the one used into this country from the railroad.

The district included in townships 40, ranges 23 and 24 and township 39, range 24, is remarkably well adapted for hay cutting and grazing even at present, with its poor drainage, and during the present season ranchers have begun operations on an extensive scale.

A small settlement of French half-breeds has been in township 40, range 23, since 1871, they being old Hudson's Bay Company employees and their numerous descendents. This township lies in what is known as the Swan river valley or locally as the "Swan" district. It has been settled for about twenty years and is very prosperous. Its climate is on the whole milder than most of Manitoba, and blizzards are almost
unknown there. At Bowsman, strawberry culture has been made a paying proposition, a plot of five acres one year having been successfully raised and marketed at a good profit.

The work along the Canadian Northern railway in tp. 43-26-Pr. and tp. 44-27-Pr. consisted of small jobs along the Porcupine Forest reserve boundary and in heavily timbered country. The northeast corner of township 44, range 27, was on the flat land at the foot of the mountains and subject to floods. These floods do not run off very quickly owing to the very slight fall to the lakes and rivers.

In townships 44, ranges 28 and 29, a strip of land about ten miles long and from one to two miles wide and bordering on the Porcupine Forest reserve was subdivided. This is very heavily wooded, though most of it has been logged over, and consequently the bush is very dirty in places. A great deal of very fine spruce still remains to be cut in this vicinity, where timber berths have not yet been worked. Spruce up to forty inches in diameter was cut on the line. Very fine large birch grows in this region but at present is not cut for lumber. None of this land is at present in a state suitable for farming or even grazing but when this land is cleared the soil will likely prove exceedingly rich, owing to its rich mulch of forest waste and to the alluvium washed off the mountain sides. The Canadian Northern railway parallels this strip about a mile and a quarter to the north.

The Big-grass marsh was an area approximately seventeen miles long and three to four miles wide. Within the last four or five years it has been drained by the Provincial Government and is now nearly all dry except for a lake about three miles square near its north end. The area drained consists of dried-up lakes, absolutely bare and often boulder strewn, and intervening patches of dry marsh land now growing rank with reeds, weeds, and thistles. The outer edges are splendid hay meadows and now support large herds of cattle. The old marsh bed consists of from six to twenty-four inches of tangled reed roots, rotting vegetation, and shell detritus and sand, this making a soft, porous, spongy covering over a hard clay bottom. In some places prairie fires have burned all the covering of the old marsh bed and left a deposit of burnt red clay from six inches to twelve inches deep. Stones seem to be very generally scattered over all this region, particularly noticeable in the dried up lake bottoms. The old marsh proper in its present state is entirely unsuitable to agriculture of any kind.

The main drainage ditch runs the length of the marsh along the road allowance one mile west of the east outline of range 11. Most of the corners fall in the ditch itself, on its banks, or very close to it. For this reason nearly all these corners had to be witnessed and they were witnessed far enough away so as not to be disturbed if ever a roadway were made along the embankment, as is likely to be the case in future roadmaking. The first operation at Big-grass marsh was the closing of the gap in the 5th base line, about three and a half miles. This was done by base line methods, check chaining, correction of slope and temperature, and deflection of the line to put it into theoretically correct azimuth after observation. The outlines of the township were then run, the outer boundaries of the area retraced, and the enclosed area subdivided according to the first system, as closely as the irregularity of the old surveys would allow.

The district surveyed in Moose Mountain Forest reserve was along the north and east slopes of the mountain. The whole of that country is very rolling and scrubby, the Moose mountains being the highest and roughest of it. They originally were covered with a thick growth of poplar, black poplar, and birch, very large stumps and old rotten logs still being seen. Years ago, according to settlers’ stories, two fires which were particularly devastating, burned the mountains practically clean, but owing to forest protection, the reserve itself and in some places bordering sections, have developed a thick growth of poplar, birch, hazel, cherry, and underbrush. Lakes, ponds, and sloughs are very numerous, so that this area of forest growth in the middle of a prairie country is a distinct boon to it. Two of the larger lakes are used as summer
resorts, and the smaller lakes, ponds, and hay sloughs make an excellent range for cattle, while the timber is a source of fuel for settlers. All the settlers living around the edge of the reserve keep large herds of cattle in connection with their farming. The reserve boundaries surveyed lay almost wholly in thick bush which had to be opened for retracement. The water in the lakes is mostly alkaline, which is a serious drawback to this vicinity, but attempts to get water by drilling were at last successful this season, an artesian well being struck in tp. 33-10-2. The forest reserve is also a game preserve, consequently bank beaver houses are very frequently seen, and prairie wolves are becoming a veritable pest. Strawberries are being successfully grown on the northern slopes of the Moose mountains.

The townships in which the boundaries lie were surveyed in the eighties, when timber was heavy, and bearing trees and wooden posts were the common type of monuments then used. Heavy fires and new forest growth have almost completely destroyed all old lines and nearly all monuments. The finding of such monuments can be readily seen to have been a most disheartening task. The remains of only one wooden post were found in the whole survey of this district, and bearing trees were found but seldom. In only two or three places have the farmers cultivated the land bordering on the reserve, although fences are run approximately along most of the boundary.

Whitewater lake, which is situated in tp. 3-22-Pr and the surrounding townships, was formerly a very shallow body of water about ten miles by four, with very flat marshy shores. It is really a huge depression in a very flat country, and according to an engineer's report has not sufficient elevation to allow of drainage. It is therefore but a huge catchment basin liable to be low or high according as the snow and rainfall is light or heavy. The winter of 1916 being one of heavy snowfall and the summer being fairly wet, the lake was higher than for several years; as a consequence only the edges were surveyed. The country all about this lake is very flat and unbroken and is excellent farming land, some of the largest and best wheat farms in Manitoba being located in this vicinity.

Lizard lake was a small area consisting of lake and marsh at the time of the original survey in the seventies. At that time the country was very heavily wooded. Since then fires and settlers have destroyed nearly all the bush, and fires in many cases have burnt deeply into the soil, so that old monuments have almost entirely disappeared. Retracement of considerable mileage was necessary to get a starting point. At present the lake has mostly dried up and consists of marsh and hay lands with a few ponds of water at the centre.

During the month of October the weather was very bad, and in late December and early January extremely cold. No snow of any account fell until about the last week in December. Owing to this and very hard early frosts the ground froze up quickly so that mounding became a very laborious operation early in November.

Scattered Surveys by E. S. Martindale, D.L.S., in Southern Saskatchewan and Alberta.

These surveys were varied in character, including correction surveys, resurveys, retracement surveys, townsite surveys, and investigation and traverse of water areas; they were scattered over southern Alberta and Saskatchewan, and, being small, did not warrant the expense incurred in detailing a regularly organized party to execute them. Accordingly Mr. Martindale's party consisted only of an assistant and surveyor, labourers being hired locally where necessary and where possible.

In addition to the regular survey work, observations for magnetic declination and total force and inclination, were taken, whenever it was possible to do so without unduly delaying the other surveys.
Field operations were commenced on May 13 by the retracement of the N. by. of tp. 20-29-2 and the E. by. sec. 30, tp. 20-1-3, both near the village of Brownlee in Saskatchewan. The land in this vicinity is gently rolling and is largely under cultivation being devoted mostly to grain growing. Investigations and the necessary resurveys for locating lost corners were made in various townships along the main line of the Canadian Pacific railway west of Moosejaw. In tps. 17 and 18-9-3 several quarter-section corners which had not been established in the original survey because of wet sloughs which have since dried up, were established. Herbert in the former township is a thriving town with a population of about one thousand and is located in the centre of an excellent grain growing district which is evidenced by the presence of seven elevators in the town. The settlers are largely of the Mennonite belief and are unusually thrifty. An experimental farm is located just west of Herbert where different varieties of grain are tested out in plots under various systems of cultivation.

After completing miscellaneous surveys in tp. 18-11-3; tp. 22-8-3; tp. 19-3-3; tp. 16-2-3; and tp. 15-9-3, the party moved westerly to Eastend, via Swift Current, Gull Lake, and Shaunavon. Eastend is a small growing village in the valley of Frenchman river on the Weyburn-Lethbridge branch of the Canadian Pacific railway. It is in the centre of a large district, extending north to the Cypress hills and south to the international boundary, which is being rapidly transformed from a ranching country into a thriving agricultural community. Pottery clay is found in quantity in the vicinity, and some irrigation projects have been developed in the district. Irrigation reservoir sites were surveyed and posted on secs. 17 and 20, tp. 6-21-3. As both reservoirs were dry, the dams in both cases having been carried out by freshets, it was first necessary to run contour lines of high-water level.

Some small jobs were completed in tp. 18-6-3; tp. 11-23-2; tp. 11-2-2; tp. 9-3-2; and tp. 10-3-2 on August 3, after which the party moved to Banff where a contour survey of a proposed new cemetery was made. Some minor alterations were also made in the layout of the St. Julien addition to the townsite.

Banff is the premier tourist resort of the West and has many attractions for the visitor. The headquarters of the Alpine Club are located there and numerous walking and mountain climbing excursions may be arranged for those so inclined, and for those fond of boating Bow river flows with barely a ripple through a narrow valley hemmed in by mountains on both sides for a stretch of nearly eight miles up the stream (westerly) from the town. The bathing facilities are unexcelled with sulphur baths of various temperatures, the most popular being at the lower hot springs where the park authorities have recently completed a magnificent bath house and swimming pool. A museum and a zoo of more than ordinary interest is maintained for the benefit of the visitor. A fine new golf course has also been recently constructed. Automobiles were allowed on most of the drives in the vicinity of Banff for the first time in 1916 and this coupled with the fact that a well-graded automobile road has been constructed from Calgary through the park has made the town a popular rendezvous for auto-touring parties from the prairies. Several well-equipped hotels provide excellent accommodation for the traveller. St. Julien addition is situated on the westerly slope of Tunnel mountain overlooking the town and looking up the Bow river valley; it is laid out to conform to the peculiar topographical features of the location. There is little doubt that in time, with its scenic advantages it will be the most beautiful residential district of the town.

After the work at Banff was completed, restoration, retracement, and other surveys were carried on in southern Saskatchewan and in the vicinity of Medicine Hat until November 29, when the party proceeded to Drumheller to subdivide certain school lands adjacent to that town.

Drumheller is a mining centre situated in the valley of Red Deer river on the Canadian Northern railway in tp. 29-20-4. Eight or ten coal mines are in operation
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with an estimated output of three thousand tons per day during the winter months. The coal is semi-bituminous and the mines are drifted in from the foot of the steep slopes of the river valley. The population during the winter months is about two thousand five hundred. Many miners have squatted on the school lands and the subdivision was made in order that the land might be disposed of and incorporated in the town. A traverse of High river in tp. 19-29-4 completed the season’s work on January 8, 1917.

Generally speaking the weather was unfavourable for survey operations on account of heavy rains and unsettled climatic conditions during practically the whole season. Although the spring was backward the grain got a good start and in southern Saskatchewan gave every promise of an abundant crop until the hot sultry weather of July and August favoured the spread of the black rust. Very considerable damage was done to the wheat crop in southern Saskatchewan and in Manitoba, but fortunately the blight did not extend far north or into Alberta, where bumper crops were the rule. Numerous severe hailstorms did much damage in some localities in July and August, and heavy rains and snowstorms caused much delay and inconvenience during the harvest. However most of the grain was threshed before winter finally set in. The early winter was unusually severe the temperature falling to 44° F. at Drumheller on December 27.

Because of the heavy snowfall during the preceding winter and the large rainfall throughout the summer the great majority of old dried-up lakes and sloughs are again filled with water. Very few prairie-chickens were seen while wild ducks were plentiful only in the lakes and sloughs at the western end of the Moose Mountain Forest reserve.

RESURVEYS BY T. H. PLUNKETT, D.L.S., IN MANITOBA AND SASKATCHEWAN.

The work on which Mr. Plunkett was engaged consisted of small scattered resurveys and retracements, necessitating much travelling.

The first survey, in tp. 32-11-Pr., was reached from Gypsumville over almost impassable roads. Mixed farming is engaged in almost exclusively in this district, and large quantities of hay are obtainable during average seasons on the many sloughs which alternate with poplar ridges.

After completing a small survey at Fairford settlement nine miles south of Gypsumville the party left for Bedford station in tp. 5-9-E., where they were engaged until July 28 on lot surveys.

They then went south to township 4 where surveys were required in section 22.

The district is entirely covered with bush, the growth consisting principally of jack pine, with spruce and tamarack in the low lands lying immediately west of Bedford and Sandilands stations. A small settlement was found at each of these places but little attempt is made to do any farming, the soil consisting almost entirely of sand. The settlers cut firewood in the winter and pick wild fruit in the summer, Winnipeg offering a ready market for both products.

Some small miscellaneous surveys were next done in tp. 6-25-Pr., tp. 12-21-Pr., tp. 23-32-Pr., tp. 30-23-Pr. and tp. 23-27-Pr. in the order named the work being completed on August 30.

The above-mentioned surveys were made in country where settlement has existed for some years. Farming consists principally of grain raising, and flourishing settlements are characteristic of the entire country.

The next work was at Menisino in tp. 1-10-E. and consisted of the subdivision into town lots of a portion of section 35.

Some farming is being done in this locality but the soil in most places is too sandy for successful agriculture.
Jackpine bush on the ridges and spruce and tamarack in the swamps south of the station afford winter work for the settlers cutting cordwood.

On September 16 the party left for Eriksdale, Manitoba, where surveys were required in tp. 22-9-Pr. Large water areas which characterized this district at one time are now nearly all dry. The work consisted of the survey of quarter-sections, which were formerly covered by water. The crops in this locality are principally oats, and buyers at Eriksdale pronounced last season's crop the finest sample of oats in western Canada.

A stadia survey in tp. 23-1-Pr. was the next work. This district is entirely a bush country and as a rule little improvement has been made on the homesteads. Potatoes and other vegetables form as yet the chief crop.

The traverse of lakes evidently omitted in the original survey of tp. 17-19-Pr. kept the party busy from October 12 to 23. The surrounding country is in a flourishing condition and crops were exceptionally good even last season.

The party next made a stadia survey of the water areas in sec. 11, tp. 23-29-Pr. near Togo, Saskatchewan, and from there went to Birch River, Manitoba, where a preliminary survey was made for a proposed subdivision into town lots of portions of legal subdivisions 3 and 4 of sec. 35, tp. 39-26-Pr.

At Birch River station lumbering operations occupy the few residents. The sandy nature of the soil in the immediate vicinity of the settlement prevents agriculture, but two or three miles east and west of the railway the soil is better and the country is fairly well settled. Farming is as yet in its infancy and its development will be slow as this is a bush country.

On November 7 the party left Birch River for Mulvihill, Manitoba, to survey the water areas in tp. 24-4-Pr.

When this work was completed it was decided to close work for the season, as the snow had become too deep for satisfactory surveys.

**Scattered Surveys by R. C. Purser, D.L.S., in Southern Saskatchewan.**

The surveys done by Mr. Purser were scattered throughout the province of Saskatchewan. They were of a small, miscellaneous nature and of many kinds, consisting of the investigation and correction of reported errors in previous surveys, the restoration of obliterated and lost monuments, the settling of disputes arising from imperfectly or incorrectly defined section lines, investigations regarding the necessity of resurveys and river and lake traverses.

The party consisted of the surveyor and one assistant, local help being procured where necessary.

Work was begun in the vicinity of Kamsack, Saskatchewan, during the second week of May. From that time until the middle of September the work lay almost wholly between the Second and Third meridians. After that time many of the surveys lay west of the Third meridian. The season's work was finished in tp. 10-5-3, not far from Gravelbourg, Saskatchewan.

In tp. 30-5-2, two small areas of land which had been set apart and used as public cemeteries by Doukhobour communities were reserved by the Government when the community system was done away with. These parcels of land were surveyed during the early part of the season. They will continue to serve their purpose as public cemeteries, the Government retaining ownership of them.

In tp. 24-2-2 considerable confusion had been caused among the settlers on account of two different witness monuments having been accepted as true section corners. These witness monuments had become obliterated and their true character hidden. It was necessary to retrace over fifteen miles of section lines in order to determine their true nature. Fences had been built and roads graded in accordance with the erroneous assumption that they were true section corner monuments.
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In twelve different cases serious errors were found in the positions of section corner monuments. These were corrected in every case except one, the written consent to the correction being obtained from the owners of patented lands affected. In tp. 43-17-2, however, an error of about seven chains remained uncorrected owing to difficulties involved with improvements and a road diversion survey. In tp. 43-1-3 in the St. Laurent settlement a R.N.W.M.P. reserve was resurveyed. This was the site of the old police barracks in the vicinity of Batoche, the scene of action in the Northwest rebellion.

A traverse of a part of Shell river was made in tp. 49-27-2 and of Kneehills creek in tp. 29-21-4. The latter survey was made on the ice in the month of December, the temperature at one time dropping as low as forty-four degrees below zero. Kneehills creek flows into Red Deer river. In this vicinity is the town of Drumheller, Alberta, where coal mining is extensively carried on. There were nine mines in operation at the time the survey was made and over one hundred cars of coal per day were being shipped.

In all about forty different surveys were made during the season. In addition to this work wherever possible observations for magnetic dip and total force were taken twenty-seven different stations being occupied. At twenty-four of these stations three complete sets of observations were taken and at the remainder two were taken.

BASE LINE RESURVEYS BY A. G. STUART, D.L.S., IN ALBERTA AND SASKATCHEWAN.

On May 5 survey operations were begun by Mr. Stuart on the Third meridian at the northeast corner of township 48, and from this point the meridian was retraced to the international boundary. The line runs through a well-settled country, supplied with good roads and railway facilities, and showing every sign of prosperity.

Having completed this work the retracement of the 14th base line was begun in range 22 west of the Third meridian on September 9. The line was retraced westward to the Fifth meridian, the closing being made on November 13. Most of the party were then discharged, the remainder returning to ranges 24 and 25, where a traverse was made south of the City of Edmonton as it was impracticable to retrace the base line within the city limits.

Upon completion of this traverse observations were taken over the base line eastward to range 12, west of the Fourth meridian, as it was impossible to do the work previously owing to cloudy weather.

The retracement of the Third meridian over the ice on Johnston lake in townships 12 and 13 completed the season’s work.

The country travelled over in retracing the 14th base line was much rougher and more undeveloped than along the Third meridian and much more bush and scrubby country were encountered.

During the field season, which lasted approximately seven months, over five hundred miles of meridian and base line were retraced for bearing and chainage, the same being transited, chained, check chained, levelled, and check levelled.

Five hundred astronomical observations were taken and computed as well as one hundred and fifty observations for magnetic declination.
APPENDIX No. 10.

YUKON TERRITORY SURVEYS.


One of the works carried on by Mr. Brownlee in the field was the inspection of Mr. H. G. Dickson's contract of 1915. This included the survey of Klune wagon road from the Dawson-Whitehorse road to Jarvis river and a traverse of certain meadow lands on Dezadeash river in the vicinity of Pine and Bear creeks.

Two surveys were made for the Department of Indian Affairs. The first was a reconnaissance survey of a proposed reserve at Champagne Landing, sixty miles west of Whitehorse. The other was the survey of Little Salmon Indian reserve at the confluence of Little Salmon and Lewes rivers.

Other works performed were, the survey of Thirteen Gulch a tributary of Eldorado creek, and the inspection of certain surveys made by Mr. C. S. W. Baywell, D.L.S., including fourteen miles of traverse from Mayo river to the Silver King mine at Galena creek and the survey of three mineral claims. An examination was also made of the valleys of Indian, Nordenskiold, and Dezadeash rivers, all of which contain unsurveyed lands suitable for settlement.

One draughtsman is employed to assist with the office work. Sketches and blue prints have been made for officials of other departments, but the cessation of mining law-suits during the year has caused a falling off in certified copies of plans and field notes of surveys to litigants and their solicitors. Nineteen plans of official surveys were filed in the office during the year, as compared with fourteen the previous year.

APPENDIX No. 11.

LEVELLING.

In charge of J. X. Wallace, D.L.S.

The mileage levelled during the year and the total mileage run at the end of the year, are as follows:

<table>
<thead>
<tr>
<th>Kind of Level</th>
<th>Season, 1916</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Precise levels</td>
<td>509</td>
<td>2,898</td>
</tr>
<tr>
<td>Secondary levels</td>
<td>237</td>
<td>676</td>
</tr>
<tr>
<td>Meridian and base line levels</td>
<td>1,058</td>
<td>11,339</td>
</tr>
<tr>
<td>Subdivision levels</td>
<td>3,504</td>
<td>4,358</td>
</tr>
<tr>
<td>Other lines of levels</td>
<td>91</td>
<td>321</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td><strong>5,399</strong></td>
<td><strong>19,552</strong></td>
</tr>
</tbody>
</table>

In addition to the above, one line 136 miles long, from Grouard to the Sixth meridian was re-levelled.

Compared with the work done the previous season there was an increase of 1,987 miles. All of this increase, however, is due to the much greater amount of subdivision levels, only 854 miles of subdivision having been levelled in 1915. In precise levels, and in meridian and base line levels, there was a decrease of about forty per cent.
Lines of Precise Levels.

Two parties under L. O. R. Dozois, D.L.S., and E. W. Berry, D.L.S., were employed in running precise levels along railway tracks, a total of 509 miles being thus levelled. Mr. Dozois levelled along the Canadian Northern railway from Rosebud to Calgary, sixty miles, and along the Hudson Bay railway 141 miles, between May 18 and September 28, 1916. The probable errors of the mean result per mile of double levelling is 0.0028 feet for the former line, and 0.0031 feet for the Hudson Bay railway. The latter is somewhat high, and is undoubtedly due to unstable ground, this track being only just laid.

On the former line Mr. Dozois again followed his practice of the previous season of working from 4.00 to 8.00 A.M. and from 4.00 to 8.00 P.M., in order to avoid wind and heat waves inseparable from the prairie during the mid-day hours.

The line from Rosebud to Calgary completed the last sixty miles of a circuit running over the Canadian Pacific railway, from Calgary to Edmonton, and over the Canadian Northern railway, from Edmonton to Warman and Saskatoon, and from Saskatoon to Calgary. This was the first circuit of precise levels entirely levelled by this branch.

The length is 950 miles, and when Calgary was again reached, at the end of the circuit, the levels closed with an error of 0.069 ft. The whole circuit was levelled by Mr. Dozois and Mr. Berry, the former running 611 miles, and the latter 339 miles.

Mr. Berry levelled along the Edmonton Dunvegan and British Columbia railway from Edmonton to Sawridge, 164 miles, and then along the Alberta and Great Waterways railway from Carboudale to the crossing of the 18th base line, which is 22 miles northeast of Lac La Biche station. He began work on May 16 and ended October 23. These two lines of precise levels form the initial stages of two important lines, one of which will ultimately radiate northwesterly towards Pine River pass and Fort George, and the other northeasterly to McMurray. The probable errors of the parts levelled by Mr. Berry have not yet been computed, but his discrepancy in a mile seldom exceeded 0.010 ft. and was never greater than 0.15 ft.

Later in the season Mr. Berry carried a line of levels from Big River to Ile a la Crosse, following the winter road.

The limit of discrepancy allowed in precise levels between the duplicate measures of each mile section is usually 0.017 ft., though the aim in the work referred to above was rather a limit of 0.010 ft. With modern instruments a frequent recurrence of 0.017 ft. in a season’s work is unnecessary, and rather indicates undue haste, or too great tendency to work under unfavourable conditions. The average skilful leveller is more prone to go too fast than too slow. A leveller must learn to regard his line as it will be regarded in future years, when the rate at which it was run will be of no interest to anyone. The sole basis on which it will be judged is its accuracy, and the permanence of its bench-marks. In a country so extensive as the Northwest where lines of levels must be run far inland it is a question if a precision indicated by a limit of 0.017 ft. \sqrt{V} miles is sufficiently good. In the limit it would mean a discrepancy between the two measures of over half a foot in a thousand miles. Such a discrepancy is too great a difference between the only two measures which are available to determine the final elevation. It may be further noted that the best criterion of the accuracy of a line of levels is not the total accumulation of the discrepancy at the end, which indeed is often absolutely negligible even in a badly levelled line, but the line should be judged by the probable error of the mean result per mile of double levelling. There is little doubt that in future years the precision of many lines of levels now being run will not be considered to have been good enough.

Lines of Secondary Levels.

While precise levels necessarily form the foundation of all other levelling, yet they must keep along railway tracks, and they do not lend themselves readily to the ascer-
taining of local elevations. Their use is, therefore, almost entirely restricted to acting as a control for other less accurate, but more practically useful, lines of levels. The difference, however, between levels intended almost wholly as a control and levels intended entirely for local purposes is too abrupt for an extensive country. An intermediate class of levels is a necessity more effectively to control the errors inseparable from local levels, and to afford satisfactory elevation in advance throughout the country so that individual districts can be levelled independently of one another with a reasonable assurance that no serious conflict will occur when the local levels of neighbouring districts meet. A degree of conflict, which may not be very important in actual practical use, may yet make serious trouble in records. It is for this reason we see all railway companies now striving to co-ordinate their levels over their whole systems where, during the earlier periods of construction, they were content to have each division on its own datum.

The relative mileage of each class of levels is not subject to any definite general rule, but a casual inspection will show that there is a serious want of secondary levels over the southerly half of Manitoba, Saskatchewan, and Alberta. The best general arrangement would be lines of levels running east and west along base lines, and north and south along every fourth range. These levels should be run with an accuracy of 0.030 ft. √/miles, this being sufficient in view of their being controlled at intervals of about one hundred miles by the lines of precise levels.

Two lines of secondary levels were run in the northern part of the territory during the past season. One was levelled from Dunvegan to Grande Prairie and from there northwesterly to Pouce Coupe, the line ending at the crossing of the 21st base, range 14, west of the Sixth meridian, a total distance of 166 miles. This line was levelled by J. B. Alexander, D.L.S., who also levelled twenty-nine miles along the 19th base through Grande Prairie. These lines run through a district where there was very little information about elevations, and nothing to serve as a basis for future subdivision levels. Substantial bench-marks, consisting of two-inch iron pipe, four feet long, with a heavy foot-plate and a brass cap, were planted every fourth mile. The pipe is filled with concrete, and the whole is sunk so that the top is eight inches above ground.

Previous to doing the above work, Mr. Alexander had re-levelled 136 miles from Grouard to the Sixth meridian, by way of the town of Peace River. This line had been levelled in 1915, but as it was a line of great importance and had indicated an error of some eighteen feet in the datum supplied to the surveyor of the Sixth meridian, it was considered advisable to re-level the Grouard line. In the result Mr. Alexander confirmed this line. The datum used for the Sixth meridian has, therefore, been revised accordingly.

The other line levelled was from Big River to Ile a la Crosse. This line followed the travelled sleigh road, the water elevation of several large lakes along the route being utilized to transfer elevations. Where the line followed the land the discrepancy per mile was kept within 0.015 ft. Mr. Berry carried out this work between December 9, 1916, and March 19, 1917.

Meridian and Base Line Levels.

During the year 1,058 miles of levels were run along meridians and base lines. Of this total 541 miles were levelled during the original survey of base lines, all of them in northern parts of the territory, and the remaining 517 miles were recorded during the retracement of lines formerly surveyed but not levelled. The most easterly line of levels was that along the Third meridian during its retracement from the international boundary to township 48. Two levellers were employed, but although they agreed with each other within less than 0.10 ft. in each mile, with a total disagreement at the end of less than two-tenths of a foot, the results, where
SESSIONAL PAPER No. 25b

The line intersects precise lines, are not nearly so satisfactory as such agreement would lead one to expect. A long line of levels run over the open prairie is much more liable to an insidious accumulation of error than the average leveller can be brought to realize.

This line along the Third meridian was the longest single line levelled during the season along meridians or base lines, the next longest being the 14th base also levelled during retracement, from range 22 west of the Third meridian to the Fifth meridian. Two of the other lines exceeded 100 miles each, namely the 20th base line, ranges 10 to 26 west of the Third meridian, and the 29th base line, ranges 8 to 24 west of the Fourth meridian.

In addition to the above long lines, fourteen other shorter lines, totalling 369 miles, were levelled along base lines, the most northerly one being ranges 8 to 17 of the 30th base line, in the district west of lake Athabaska.

Subdivision Levels.

During the subdivision of townships, levels are run along every alternate section line running east and west, and north and south. In regular subdivision this results in nine equal circuits of eight miles each. During the season 3,504 miles were levelled, involving 125 townships in which some, or all, of the interior alternate lines were levelled and in addition twenty townships in which certain outlines only were levelled. In making this count no notice is taken of townships which have levels along an outline which is common to a township already counted. This was only the second season in which levels were taken during subdivision. In the year 1915 only four of the subdividers recorded levels, while in 1916 levels were recorded by all of the fifteen parties employed on original subdivision and by two parties engaged on miscellaneous work. The localities extended from southern Manitoba to the Peace River block.

The average amount of levels per party was 214 miles, or 53 per cent of the surveyed mileage, the latter proportion varying from 61 per cent to 44 per cent, in different parties. These averages include only actual miles of country levelled over, and exclude all cheek levels. The roughness of the country varies greatly and only one leveller is available on each subdivision while there are two sub-parties surveying the line. During the season 504 circuits were closed, the great majority being eight miles long. These closed over ninety per cent of all lines levelled, and only twenty-one circuits showed an error of over one foot, the average of all being 0.29 ft.

The following tables show the details of all lines levelled during the year ending March 31, 1917.

Precise Levels.

<table>
<thead>
<tr>
<th>Line</th>
<th>From</th>
<th>To</th>
<th>Route</th>
<th>Surveyor</th>
<th>Miles</th>
</tr>
</thead>
<tbody>
<tr>
<td>J</td>
<td>17th Base W. Prin</td>
<td>Nelson river</td>
<td>Hudson Bay Ry.</td>
<td>L. O. R. Dozois</td>
<td>142</td>
</tr>
<tr>
<td>S</td>
<td>Rosebud</td>
<td>Calgary</td>
<td>Can. Nor. Ry.</td>
<td></td>
<td>68</td>
</tr>
<tr>
<td>U</td>
<td>Edmonton</td>
<td>S. B. Ridge</td>
<td>E. D. &amp; B. C. Ry</td>
<td>E. W. Berry</td>
<td>170</td>
</tr>
<tr>
<td>V</td>
<td>Carbondale</td>
<td>Lac La Biche</td>
<td>A. &amp; G. W. Ry.</td>
<td></td>
<td>185</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>509</td>
</tr>
</tbody>
</table>

Secondary Levels.

<table>
<thead>
<tr>
<th>Line</th>
<th>From</th>
<th>To</th>
<th>Route</th>
<th>Surveyor</th>
<th>Miles</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>Big River</td>
<td>Ile a la Crosse</td>
<td>Winter road</td>
<td>E. W. Berry</td>
<td>71</td>
</tr>
<tr>
<td>T</td>
<td>Dunvegan</td>
<td>Grande Prairie</td>
<td>Wagon road</td>
<td>J. B. Alexander</td>
<td>62</td>
</tr>
<tr>
<td>T</td>
<td>Grande Prairie</td>
<td>21st base R. 14 west of 6th Mer.</td>
<td>&quot;</td>
<td>&quot;</td>
<td>104</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>235</td>
</tr>
</tbody>
</table>
### Meridians and Base Lines.

<table>
<thead>
<tr>
<th>Line</th>
<th>Townships or Ranges</th>
<th>Surveyor</th>
<th>Miles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Third meridian</td>
<td>1-48</td>
<td>A. G. Stuart</td>
<td>288</td>
</tr>
<tr>
<td>14th base west of Third meridian</td>
<td>22-26</td>
<td>G. H. Blanchet</td>
<td>37</td>
</tr>
<tr>
<td>19th</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20th</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14th</td>
<td>Fourth</td>
<td>A. G. Stuart</td>
<td>103</td>
</tr>
<tr>
<td>29th</td>
<td></td>
<td>J. A. Fletcher</td>
<td>100</td>
</tr>
<tr>
<td>39th</td>
<td></td>
<td></td>
<td>56</td>
</tr>
<tr>
<td>East outline, range 8, W. of Fourth meridian</td>
<td>113-116</td>
<td></td>
<td>24</td>
</tr>
<tr>
<td>24th base west of Fifth meridian</td>
<td>22-25</td>
<td>J. R. Akins</td>
<td>24</td>
</tr>
<tr>
<td>23th</td>
<td></td>
<td></td>
<td>22</td>
</tr>
<tr>
<td>26th</td>
<td></td>
<td></td>
<td>26</td>
</tr>
<tr>
<td>27th</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>28th</td>
<td></td>
<td></td>
<td>35</td>
</tr>
<tr>
<td>19th</td>
<td>Sixth</td>
<td>J. B. Alexander</td>
<td>29</td>
</tr>
<tr>
<td>26th</td>
<td></td>
<td>J. R. Akins</td>
<td>18</td>
</tr>
<tr>
<td>27th</td>
<td></td>
<td></td>
<td>13</td>
</tr>
<tr>
<td>28th</td>
<td></td>
<td></td>
<td>18</td>
</tr>
<tr>
<td>29th</td>
<td></td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>30th</td>
<td></td>
<td></td>
<td>36</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td>1,058</td>
</tr>
</tbody>
</table>

### Subdivision Levels.

<table>
<thead>
<tr>
<th>Subdivision</th>
<th>Surveyor</th>
<th>Miles</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Original Subdivision</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tp. 32-5-E.; tps. 30, 31 and 32-6-E.; tps. 28, 29 and 30-7-E.</td>
<td>J. F. Jackson</td>
<td>111</td>
</tr>
<tr>
<td>Tp. 53-12-2; tps. 53-13-2; tps. 53-14-2; tps. 53 and 54-15-2.</td>
<td>W. H. Norrish</td>
<td>196</td>
</tr>
<tr>
<td>Tps. 54, 55 and 57-22-2; tps. 54, 55, 56 and 57-23-2</td>
<td>W. Christie</td>
<td>211</td>
</tr>
<tr>
<td>Tp. 58-7-3; tps. 57, 58, 59 and 60-8-3; tps. 59 and 60-9-3; tps. 59 and 60-10-3</td>
<td>P. J. McGarry</td>
<td>158</td>
</tr>
<tr>
<td>Tps. 63 and 66-6-4; tps. 65 and 66-7-4; tps. 65 and 66-9-4</td>
<td>F. V. Seibert</td>
<td>280</td>
</tr>
<tr>
<td>Tp. 84-5-4; tps. 79, 81, 82, 83 and 84-6-4; tps. 79, 80, 81 and 85-7-4</td>
<td>R. H. Knight</td>
<td>290</td>
</tr>
<tr>
<td>Tps. 71 and 72-18-5; tps. 69, 70 and 71-19-5; tps. 69 and 70-20-5; tps. 69 and 70-21-5</td>
<td>D. F. McEwen</td>
<td>272</td>
</tr>
<tr>
<td>Tp. 86-16-5; tps. 86-17-5; tps. 86-18-5; tps. 87 and 88-18-5</td>
<td>J. H. Johnston</td>
<td>296</td>
</tr>
<tr>
<td>Tp. 92-22-5; tps. 91, 92 and 93-23-5; tps. 93-24-5; tps. 93-25-5;</td>
<td>J. C. Baker</td>
<td>200</td>
</tr>
<tr>
<td>Tps. 95 and 97-19-5; tps. 93, 94, 95, 96 and 97-20-5; tps. 93 and 94-21-5</td>
<td>J. A. Buchanan</td>
<td>172</td>
</tr>
<tr>
<td>Tps. 98 and 99-18-5; tps. 97, 98, 99 and 100-19-5; tps. 97 and 101-20-5; tps. 74 and 75-24-5</td>
<td>J. W. Pierce</td>
<td>136</td>
</tr>
<tr>
<td>Tps. 74 and 75-24-5; tps. 74 and 75-25-5; tps. 74 and 75-26-5</td>
<td>A. E. Glover</td>
<td>245</td>
</tr>
<tr>
<td>Tps. 77, 78 and 79-1-6; tps. 77, 78 and 79-2-6; tps. 77-3-6; tps. 78, 79 and 80-6-6; tps. 79 and 80-7-6</td>
<td>A. Lighthall</td>
<td>248</td>
</tr>
<tr>
<td>Tp. 84-15-6; tps. 82, 83 and 84-16-6; tps. 81 and 82-17-6</td>
<td>L. Brenot</td>
<td>159</td>
</tr>
<tr>
<td>Tp. 79-17-6; tps. 77, 78, 79 and 80-18-6; tps. 79-19-6</td>
<td>S. D. Fawcett</td>
<td>227</td>
</tr>
<tr>
<td><strong>Miscellaneous</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tp. 47-1-3; tps. 34-5-3; tps. 34-6-3; tps. 50-25-3</td>
<td>J. M. Cote</td>
<td>171</td>
</tr>
<tr>
<td>Tp. 20-14-4; tps. 20-16-4; tps. 12-17-4; tps. 14 and 15-19-4</td>
<td>S. L. Evans</td>
<td>222</td>
</tr>
</tbody>
</table>

**Total**

- **Sundry lines to provide a datum for subdividers:** 91
- **Total of all lines levelled during the year:** 5,399
The work in the Calgary office has been carried out on the same general lines as indicated in previous reports. The whole system of the levels depends on the lists of the bench-marks of the precise, secondary, and meridian and base line levels, and the records of these bench-marks claim the first attention in each season. With very few exceptions these lists have been kept strictly up to date, and they receive constant and almost daily attention in the way of revisions. Concurrently with these lists the profiles of such of the lines as can afford useful profiles are compiled, and these are also kept well up to date. Many of the older profiles have been re-drawn during the year owing to a better datum now available, the aim being to have all records constantly revised in detail from end to end, and thus avoid any system of having out-of-date records, with notes that certain corrections must now be applied.

The records of the subdivision levels are, as indicated in last year's report, divided into two classes. No lists are made, but one outline plan of each township is prepared on which is entered all the technical information regarding elevations of bench-marks, closing errors, adjustments, etc., and a second outline plan is then used on which every topographical elevation recorded in the field is entered along each section line according to chainage. The former plans have been compiled very fairly up to date, but the latter plans are in arrears, though considerable progress has been made. The preparation of these topographical plans is, however, a much simpler matter than that of the bench-mark plans, the compilation of the latter involving the detail checking of all the field-books, and the adjustment of all the circuits.

A new work has been inaugurated in entering contours on the sectional maps. Each sheet of these maps covers an area of eight townships from north to south, and twelve to fifteen ranges from east to west. There are, therefore, three base lines and one initial meridian on each sheet. In the districts where meridians and base lines have been levelled, which now form a very considerable proportion of Manitoba, Saskatchewan, and Alberta, there are thus always at least four fundamental lines of levels available for each sectional map. In addition there are frequently levels along various outlines of ranges, and the number of townships in which levels have been taken is steadily increasing. The sectional maps are the present best source of information of the topography of the western provinces, and as time goes by they will more and more take the place of the Ordnance maps of European countries which are the standard in daily use for all public and private enterprises. There is always a difficulty in getting information published in intelligent form. Lists and profiles have their place and are valuable, but they do not present the relief of a country in an easily assimilated form. Contour lines are much more graphic, and even when the lines of levels are comparatively far apart, sufficient contours can be drawn, by careful study, to give an approximation of the general relief of a district.

Over a large proportion of the country nothing was previously known of comparative elevations. Even the barest approximation will supply new information. In contouring the sectional maps the interval adopted has been one hundred feet. Fifty and even twenty-five foot contours have been drawn in rarer cases where the sheet covers an exceptionally flat country.

It is not claimed that the course of each individual contour is anything but approximate where it is shown between lines along which levels have been run, but the total number of contours in any area is very approximately correct, and the areas within which this number must occur are comparatively restricted when we have, as a basis, a certain amount of lines of levels and a good general record of the main streams. The contour lines on the sectional maps should be interpreted as dividing the country into zones within each of which the general elevation lies approximately between that of the bounding contours. Five of the sheets, Waskwei, Koki, Berens, Firebag and Dufferin, have already been contoured, and others are in hand.
A summary of office work is shown below:

<table>
<thead>
<tr>
<th></th>
<th>Meridian and base line levels</th>
<th>Precise levels</th>
<th>Sub-division levels</th>
<th>Other levels</th>
<th>Totals</th>
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<tr>
<td><strong>Field-Books.</strong></td>
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<td>Received from the field April 1, 1916 to March 31, 1917</td>
<td>78</td>
<td>47</td>
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<td>Miles of levels recorded in these</td>
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<td>21</td>
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<tr>
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<tr>
<td><strong>Bench-Marks.</strong></td>
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<tr>
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<td>740</td>
<td>1,636</td>
<td>295</td>
<td>3,461</td>
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<tr>
<td>Number of miles in which they occur</td>
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<td>579</td>
<td>2,229</td>
<td>275</td>
<td>3,767</td>
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<tr>
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<tr>
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<tr>
<td>&quot; miles on same...</td>
<td>1,595</td>
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<td><strong>Township Sheets.</strong></td>
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<tr>
<td>B.M. sheets not completed</td>
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<tr>
<td>Miles on same</td>
<td></td>
<td></td>
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</tbody>
</table>

**WORK OF SUB-PARTY IN CHARGE OF J. B. ALEXANDER, D.L.S.**

Mr. Alexander’s first work was the running of a single line of levels to check the line run by L. E. S. Bolton, D.L.S., in 1915, from Grouard via Peace River to the southerly end of the levels along the Sixth meridian. Mr. Bolton’s line had indicated that the datum previously used for the Sixth meridian, which had been derived from the levels along the 23rd base west of the Fifth meridian, was in error to the extent of 18-13 ft. As all levels along the Sixth meridian, and westerly, were dependent on the datum used at its southerly end, it was considered advisable to determine this datum beyond possibility of doubt.

Work was begun at Peace River on this check line on June 6, and the line levelled southeasterly to Grouard, where connection was made to the gauge of the Irrigation surveys on Lesser Slave lake. The surface of the trail was very rough, though hard, and it was impossible to use a wagon to advantage in going to or coming from work each day. Now that the railway has reached Peace River there is no regular travel over the road between Grouard and Peace River, and it is only used occasionally by some half-breed on a hunting trip.

Mr. Alexander then began work westerly from Peace River on June 29 and reached B.M. 211 on the Sixth meridian, at the north of township 84, on July 11. Three days were lost on this section of the work on account of heavy rains.

The object of this check line from Grouard to the Sixth meridian was to find if any considerable local error had occurred in the original line. In the whole distance of 135 miles there were only two miles where a greater discrepancy than one-tenth of a foot in each mile was found, and at the end of the line the accumulated discrepancy between the single line and the mean of the original duplicate lines was only 0-26 ft.

After completing this work the party moved to Dunvegan, and a duplicate line of levels was carried southerly over the travelled road from Dunvegan to Grande Prairie, then westerly to Lake Saskatoon, and then northwesterly to Pouce Coupé.
June had been a rainless month but July was very wet, scarcely a day having passed without rain. The trails were deep with mud and progress not as satisfactory as hoped for. When the 19th base line was reached in Grande Prairie the main levels were discontinued for a time, and levels were run along the base line for thirty miles, from the east of range 4 to the west of range 8, this distance comprising all of the base line which passed through open country.

The main line of levels was then continued southerly, and lake Saskatoon was reached on August 29. From there the line of levels was run northwesterly, following the travelled road, to Pouce Coupé which was reached on September 23. A connection was then levelled to the Edmonton Dunvegan and British Columbia railway datum at the end of their grade on the east boundary of sec. 30, tp. 78-13-5, and to the 20th base line datum in range 14. The main line of levels was continued north, and ended at B.M. 13 of the 21st base line in sec. 33, tp. 80-13-5.

On October 6, Mr. Alexander moved back to Spirit river to run connections to the subdivision levels of A. Lighthall, D.L.S. The country was very dry; in the whole distance from Pouce Coupé to Spirit river, one hundred and thirty-five miles, only three running streams were crossed.

Shortly after reaching Spirit river there was a change in the weather, which up to this time had been warm and clear, and for three weeks there was snow or rain nearly every day.

Having completed the work at Spirit river the party moved easterly over the Egg lake trail to Smoky river to establish connection with subdivision levels by A. E. Glover, D.L.S. It was found impossible, with the outfit at Mr. Alexander's disposal, to make this connection, and he then went to High Prairie, by the first freight train running east, to connect with subdivision levels by D. F. McEwen, D.L.S. No particular difficulty was experienced in this work which was finished on November 13, thus completing the season's work.

The levels run during the season comprise 136 miles of single levelling from Grouard to the Sixth meridian, 166 miles of duplicate levelling from Dunvegan to Pouce Coupé, 29 miles of duplicate levelling along 19th base line, and 77 miles of duplicate levelling on miscellaneous connections. The whole would be equivalent to 340 double miles. The allowable limit of error between the duplicate levellings on new work was set at 0-03 ft./miles. In actual practice seventy-five per cent was within 0-017 ft. The accumulated discrepancy reached a negative maximum of -0-133 ft. when nineteen miles from Dunvegan, and a positive maximum of 0-091 ft. at ninety-seven miles. At the end of the line where the 21st base was intersected, the accumulated discrepancy between the duplicate lines was -0-005 ft.

Permanent bench-marks were established at intervals averaging four miles. These bench-marks are made of two-inch iron pipe, four feet long with brass cap, and a seven-inch cast-iron foot-plate screwed on. The pipe is filled with concrete. Wherever possible these bench-marks were planted on section lines as they are less likely to be disturbed and are more easily found. The subsoil throughout almost all the country worked over is an exceedingly tough gumbo, and the only satisfactory method of excavation for the bench-marks was to use a pick and shovel. This necessitated opening a much larger hole than if a bar and spoon had been used, but the work was done in about one-half the time the latter method would require. A post-hole auger was of no use. In all, fifty-three new permanent bench-marks were placed during the season.

Elevations of the ground were recorded at intervals of approximately one-third of a mile, also elevations of streams, lakes lying within short distances of the line and accessible, base of rail at railway crossings and stations, and particular care was taken to obtain elevations at the corners of sections and quarter-sections wherever the line of levels came near them.

The elevation of Peace river, July 14, 1916, was 1,116 feet and the ground in front of the Hudson's Bay company's store at Peace River is twenty-eight feet higher.
than this. The trail to Spirit River rises quickly to an elevation of 1,851 feet at the top of the south bank of the river. There is then a gradual rise until Spirit River post office is reached at an elevation of 2,012 feet. Immediately after leaving the post office, Spirit river is crossed, elevation of water 1,981 feet, and the country rises gradually to the top of the north bank of Burnt river, elevation 2,129 feet, where a sharp drop of 105 feet occurs to the river. The valley of Burnt river at this point is very narrow, and the hills correspondingly steep. At the crossing of the 20th base line, in range 5, one mile south of Burnt river, the elevation is 2,139 feet.

A steady gentle rise continues until, at twenty-nine miles from Dunvegan, a hill rises sharply 226 feet in less than one mile. For the next thirteen miles Saddle hills present alternate ridges and troughs, each successive ridge rising higher, until the summit is reached at an elevation of 3,096 ft., thirty-seven miles from Dunvegan. From this summit the country falls away abruptly to the south, the elevation dropping 735 feet in ten miles, and then, with a few small local hills, falling to an elevation of 2,151 feet at Grande Prairie post office which is sixty-two miles from Dunvegan. Between Grande Prairie and Lake Saskatoon four parallel ridges run almost north and south. The summit occurs seven miles west of Grande Prairie, at an elevation of 2,466 feet.

West of Lake Saskatoon there is a marked rise, over a shoulder of Saskatoon hill, to an elevation of 2,631 ft. at the centre of sec. 5, tp. 72-8-6, after which a succession of rolling hills extends to Beaverlodge which has an elevation of 2,435 feet. From this point the trail runs northwesterly and, about eight miles southerly from Hythe, strikes the valley of Beaverlodge river which it follows up for some twelve miles, and then enters the bush. The country between the headwaters of Beaverlodge river and Pouce Coupé is gently rolling, rising to an elevation of 2,733 feet, the highest point between Lake Saskatoon and Pouce Coupé, at a point a mile northwest of Sinclair lake which is thirty-seven miles northwesterly from Lake Saskatoon. At the boundary between Alberta and British Columbia the elevation has fallen to 2,425 feet. It rises again to 2,701 feet at the summit between Tate creek and a small creek in tp. 77-14-6, after which the fall is pronounced to Bissett creek, one-half mile south of Pouce Coupé post office, the water of which has an elevation of 1,990 feet. A local summit, elevation 2,323 feet occurs one mile northwesterly from Pouce Coupé post office from which point the ground drops rapidly to Dawson creek, elevation 2,015 ft. Going north another local summit, elevation 2,363 ft., occurs between Dawson creek and Saskatoon creek. Saskatoon creek, elevation 2,115 feet, Rolla creek, three miles farther north, elevation 2,141 feet, and Doe creek, one mile south of 21st base line, elevation 2,058 feet, all flow through deep-cut valleys whose banks grow higher very rapidly as they approach Pouce Coupé river. The elevation at the 21st base N.E. cor. tp. 80-14-6 is 2,094 feet.

A heavy fire has recently burned over a large area along the base line east of this point. It is quite likely that a number of the bench-marks placed on trees have been destroyed as there are very few trees standing, and of these none are living.

Work of Sub-Party in charge of E. W. Berry, D.L.S.

On May 29 Mr. Berry commenced work on a line of precise levels along the Edmonton Dunvegan and British Columbia railway from Edmonton to the easterly end of Lesser Slave lake at Sawridge. The initial bench-mark from this line was P.B. M.-H51 on the high level bridge over North Saskatchewan river at Edmonton, established in 1913 by L. O. R. Dozois, D.L.S. when levelling from Calgary to Edmonton. A spur line of levels was first run to Edmonton city B.M.-12, which had already been connected to three precise level lines, namely from Edmonton to Athabaska, Calgary to Edmonton, and Edmonton to Lloydminster. Mr. Berry’s lines followed city streets and the city spur line of the Grand Trunk Pacific railway to the terminus of the Edmonton Dunvegan and British Columbia railway. From there levels were run along that railway to Sawridge a distance from Edmonton of 164 miles, and in addition fifteen miles of spur lines were levelled.
Permanent bench-marks, consisting of brass plates on the standard concrete pillars, were erected every four miles as nearly as possible, and a few additional bench-marks were placed on masonry structures of the railway. In all forty-six permanent bench-marks were established on this line.

The elevations of the crossings of ninety-two road allowances of the system of survey, and of the water of twenty-seven lakes and streams were recorded as well as the rail elevations of twenty-five railway stations along the route.

The elevation of the Edmonton Dunvegan and British Columbia railway at its Edmonton station is 2,233 feet. There is a slight upward grade for four miles till the summit between Saskatchewan and Sturgeon rivers is reached at an elevation of 2,264 feet and then a down grade to the crossing of the latter river, where the water is 2,124 feet. The highest point on the line is reached at Busby station which is on the divide between Saskatchewan and Athabaska rivers, and is at an elevation of 2,370 ft.

From Busby the right of way goes northerly towards the valley of Pembina river, and at Debney the railway is about two miles distant from the river. From there the grade follows the general course of Pembina river to its junction with Athabaska river, and then follows the latter river to Smith, the railway keeping to the higher ground above the rim of the river valley.

The railway crosses the river at Smith, after which it runs westerly following the course of Lesser Slave river, at an average distance of two miles. The elevation of Sawridge station is 1,921 feet and of Lesser Slave lake 1,892 feet.

Between Chisholm and Sawridge there are only a few scattered homesteads near the railway stations, but at Sawridge there are two or three excellent quarter-sections forming an isolated patch of cultivated ground in the surrounding muskeg. From Westlock, north and west, a large percentage of the land is swampy, but the levels and topography show that almost everywhere drainage is feasible. It was noted that, where small areas of land had been drained incidentally by the railway ditches, there was a rank growth of oats and timothy grass, which had sprung from seed dropped by the railway contractors' transport wagons. This indicates that all conditions are suitable for growing these crops as soon as the land is drained.

Precise Level Line Along the Alberta and Great Waterways Railway.

This railway commences at Carbondale, a station on the Edmonton Dunvegan and British Columbia railway fourteen miles from Edmonton, and runs in a general northeasterly direction to Lac La Biche, thence north to McMurray. At that time (August 15) trains were running only as far as Lac La Biche. The initial bench-work was P.B.M.-U5, previously established on the Edmonton Dunvegan and British Columbia railway near Carbondale. The work then proceeded without interruption until October 23, when operations were closed for the season about one and a half miles north of the crossing of the 18th base line, and twenty-two miles northeast of Lac la Biche. The total distance levelled from Carbondale is one hundred and thirty-five miles, and in addition four miles of spur lines were levelled.

Thirty-seven permanent bench-marks on concrete pillars and masonry structures were placed at intervals of about four miles. The elevation of the rail at the crossings of one hundred and one road allowances and seventeen railway stations were recorded, and also the water levels of twenty lakes and streams.

The Alberta and Great Waterways railway follows the edge of Sturgeon valley to Bon Accord. The elevation at Carbondale is 2,252, and at Bon Accord 2,304 feet. From Bon Accord the line falls rapidly to the valley of a small tributary of Sturgeon river, and then ascends to 2,202 feet at Fedora which is the summit between Sturgeon and Redwater rivers. The line then drops to the valley of Redwater river which is at an elevation of 1,950 feet and then rises gradually to an elevation of 2,220 feet at Alpen, which is the highest elevation reached between Redwater river and Lac La Biche. The most extensive area of swamp on the line occurs around this summit, the swamp extending over about six square miles of land. The occurrence of swamp at a sum-
mit is common through the Northwest as the slope of the land becomes less as a summit is approached. From Alpen there is a gradual descent, the line passing near several lakes of considerable size which are tributary to Beaver river. The elevation of the water of lac La Biche is 1,784 feet and that of the railway station is 1,836 feet. There is a summit, 1,960 feet, about ten miles northeast of Spencer siding, beyond which the railway descends to the valley of Gull creek, which is at an elevation of 1,905 feet. The end of the season's work is one and a half miles past this creek.

The greater part of the country from Carbondale to Abee, a distance of forty-six miles, is settled along the railway. Beyond Abee there are considerable swamp areas as far as Lac La Biche, and settlement is scattered.

The permanent bench-marks on the Edmonton Dunvegan and British Columbia railway were made by two men who worked in advance of the level party, while on the Alberta and Great Waterways railway the whole party spent one day each week on this work. The latter arrangement makes the progress of the levelling somewhat slower, but does not materially increase the cost per mile, as the wages and board of two men are saved. It has the advantage that the surveyor can personally inspect the choice of location, as well as the materials and workmanship, and cement is not shipped from camp until immediately before it is required, thus avoiding damage from rain at sightings where there are no agents. The difficulty of providing board for two men in advance of the party, where there is no local accommodation, is also eliminated.

As there was at the time no train service beyond Lac La Biche the whole camp outfit and the materials for making bench-marks, had to be moved on a railway handcar.

Work was discontinued on this line on October 24, and the party returned to Edmonton.

Level Line P.

The next work done by Mr. Berry was part of a line of levels from Prince Albert to McMurray. This line had been run as far as Big River station at the end of a branch of the Canadian Northern railway, in 1914.

Levelling was commenced on December 22, at P.B.M.-P12 the last permanent bench-mark established in 1914. From Big River northerly the route followed winter trails, and road allowances to the intersection of Delaronde lake with the 15th base line. From there the line runs over winter trails, and across Delaronde lake, Sled lake, and lac La Plonge to La Plonge mission (Beauval, P.O.) From there levels were run across Beaver river and then along the northerly and westerly winter trail to its intersection with the 19th base line, in range 12 west of the Third meridian, and west along the base line to the water of Ile à la Crosse lake. By using the water of this lake, bench-marks were then established near the Hudson's Bay post situated on a tongue of land at the northeasterly part of the lake, and then connection was made by the same means to the bench-marks of the 29th base line where it crosses a northern arm of the lake.

The distance from Big River to the 20th base line by the route followed is approximately one hundred and sixty-one miles. Levels were run over seventy-eight miles. Bench-marks on growing trees were made at distances varying from one-half to three-quarters of a mile along the land and river portions of the line. The reference point is the head of a six-inch nail driven vertically into a small table cut in the base of the tree at the junction of the root and trunk. The tree is blazed immediately above the bench-mark, and the number is carved on the blaze preceded by the letters "T.B.M." In all one hundred and eight bench-marks were established on this line.

Before producing the line from Big River the levels already run in 1914 were retraced backwards for seven miles to P.B.M.-P11, near Bodmin. This was done to ascertain if there had been any disturbance of P.B.M.-P12. The agreement was found to be very close. Connection was made to four bench-marks of the 15th base line in range 2, three bench-marks of the 16th base line in range 9, four bench-marks of the 17th base line in range 10, two bench-marks of the 18th base line in range 9, three
bench-marks of the 19th base line in range 12, and three bench-marks of the 20th base line in range 14, all west of the Third meridian.

Big River is a few miles north of the watershed between Saskatchewan and Churchill rivers and the level line connects a series of lakes all tributary to Churchill river. The elevations of the largest lakes are as follows: Cowan lake, 1,559 ft., Ladder lake, 1,634 ft., Delaronde lake, 1,618 ft., Sled lake, 1,534 ft., Dore lake 1,506 ft., lac La Plonge, 1,476 ft., and Ile à la Crosse lake, 1,850 ft.

La Plonge river is capable of producing considerable water-power. There is a drop of ninety feet in the lower mile and a half of the river and lac La Plonge, which is only seven miles distant, provides a large natural storage basin.

With a small wooden dam, giving a head of about nine feet, this stream at present furnishes electric light for the mission buildings, pumps water by means of a hydraulic ram against a head of eighty feet for the use of the school and presbytery, and drives a small saw-mill. If a larger plant were erected to utilize the full available head of ninety feet it is probable that the efficiency factor would be doubled, and at least 1,000 horse-power would become available. This could doubtless be further increased by impounding the flood waters in lac La Plonge and improving the channel of the river. There is a fall of one hundred and twenty-one feet in Dore river between Dore lake and Beaver river and it is probable that a water-power of commercial value could be developed in Dore river.

The temperature ranged from 0° to -50° during working hours and the ice on the lakes was over four feet thick. The snowfall was very heavy, about three feet on the level, and in the open swamps and on the lakes the trails were drifted badly.

On March 24, 1917, Mr. Berry went to Saskatoon and made a connection to the levels run by Mr. J. M. Cote, D.L.S., when he was retracing the subdivision of tp. 34-5-3, thus furnishing a known datum for all Mr. Cote’s levels in the adjoining townships.

**WORK OF SUB-PARTY IN CHARGE OF L. O. R. DOZOIS, D.L.S.**

The first work done by Mr. Dozois was the completion of sixty miles of the line of levels along the Canadian Northern railway from Saskatoon to Calgary, the levels having been run as far west as Rosebud the previous season.

Operations were commenced on May 19, the initial bench-mark being No. S-140 established on the concrete foundation of the hotel at Rosebud. A connection was also made to bench-mark No. S-139, two miles farther back on the previous line, to ascertain if there had been any relative movement of the bench-marks. A very close agreement having been found, the line of levels was then carried westerly to Calgary, which was reached on June 22.

The connection with the precise level bench-marks at Calgary closed a circuit levelled by this branch through Edmonton, Warman, and Saskatoon, the total length of which is 951 miles. The closing error is +0.069 ft., that is, commencing at Calgary and following the levels northerly to Edmonton, easterly to Warman, southerly to Saskatoon, and then southwesterly back to Calgary, the final elevation is 0.069 ft. higher than the one commenced with.

There are thirty-six permanent bench-marks in the sixty miles, fifteen being established on specially made concrete pillars, and twenty-one on concrete bridges. These bench-marks had been made in the previous season, so that they were ready for connection as the line of levels was being carried forward this season.

There is a steady rise all the way from Rosebud to Calgary, the total amounting to 852 feet when Calgary is reached. The railway leaves the valley of Rosebud river at the confluence of Serviceberry creek and follows the valley of the latter until more open country is reached.

Level work on this line was carried out only in the early morning and late afternoon in order to avoid the heat waves and the wind which occur during other hours of the day. Actual levelling was begun between 4:00 and 4:30 a.m., and was discontinued about 8:00 a.m. No levelling was then done till about 4:00 p.m., when work was
resumed and continued till about 8.00 p.m. Much more precise results were obtained in this way than if the ordinary hours of work were utilized.

The total accumulated discrepancy between the backward and forward levellings amounted to —0.011 feet at the end of the sixty miles, the maximum being —0.079 feet at a distance of forty-nine miles. The rapid descent to Bow river valley at the end seems to have had a marked effect on the discrepancy, causing a positive accumulation of 0.008 ft. in the last eleven miles. The total distance of sixty miles is divided into seventy-two sections, each averaging nine-tenths of a mile. The discrepancy between duplicate levellings exceeded 0.010 ft. in only seventeen cases.

The probable error of the mean result per mile of double levelling is ±0.0028 ft., and for the whole length of sixty miles is ±0.0218 ft.

The next work was a line of precise levels along the new Hudson Bay railway being a continuation of the line run two years previously, the end of which was at Mile 100 from Pas.

It was decided that any concrete pillars required for bench-marks would be made by the main party, instead of following the usual practice of specially hiring two men who were sent ahead of the main party to erect the pillars at suitable points. Such an arrangement is the best on railways that have a daily train service, and which operate through a settled country but as the Hudson Bay railway is only in the construction stage, the making of the pillars by the level party itself appeared to be the best practical solution of the question. By arranging so that the first work undertaken when arriving at a new camp was the construction of the pillar, an interval of a week or ten days was allowed for the concrete to set and harden before its elevation was recorded on the last day at the same camp.

The line of levels was continued from Mile 102 to Mile 241, where work was ended for the season on September 28 on a bench-mark established on the Manitou bridge at the first crossing of Nelson river. In a few cases short branch lines were run to determine the elevations of neighbouring large lakes. Connections were made to the levels previously run along the 18th and 19th base lines west of the Principal meridian, along the meridian, and along the 20th base line east of the meridian. These connections entailed running thirteen miles of additional levels. The elevations of thirteen lakes, fourteen streams, and twenty-eight crossings of section lines were determined, involving ten miles of branch levels.

The track over which the levelling was done was, generally speaking, well ballasted all the way. The part as far as Armstrong lake, Mile 228, was finished in 1914, and steel was laid as far as the bridge site at Nelson river, Mile 241, in the year 1915. The bridge was completed during the past winter and steel laying resumed this spring (1916). All the right of way has already been cut out, and most of the grading completed as far as Port Nelson.

The elevation of the Hudson Bay railway station at Pas is 580 feet. The initial bench-mark where work has commenced at Mile 100 is 837 feet and that of the final bench-mark at Mile 241 is 680 feet. This gives a fall of forty-three feet over the first hundred miles and 157 feet in the next one hundred and forty-one miles, with a balance of 650 feet in the last 184 miles to the sea at Port Nelson. The elevation of the railway where it crosses the Principal meridian, at Mile 197, is 675 feet.

The permanent bench-marks established on this line should be exceptionally stable. Concrete pillars, the foundation of which rests on solid rock three and a half to six feet below the surface were specially built, and twenty-nine brass caps were established in holes drilled into rock ledges partially exposed above the surface of the ground, making a total of thirty-nine bench-marks in 141 miles levelled.

The accumulated discrepancy reached —0.132 feet at forty-five miles from the beginning. From there it decreased to —0.055 feet at sixty-two miles, after which it increased to its maximum, —0.140 feet at ninety-eight miles. During the remainder of the distance it gradually diminished to a total of —0.032 feet at the end of the season's work.
The probable error of the mean of a mile section is ± 0.0031 feet and that of the whole 141 miles is ± 0.0361 feet. Out of a total of 157 sections, each averaging ninetenths of a mile, the discrepancy exceeded 0.010 feet in only forty-four cases.

APPENDIX No. 12.

REPORT OF THE SURVEYS LABORATORY.

During the past year in addition to the regular tests of D. L. S. transits, tapes, etc., a large number of engineers' transits and levels for use overseas with the Railway Construction Corps have also been examined and tested for the War Purchasing Commission. In spite of the large amount of routine work several investigations in optical and other lines have been successfully carried out and many improvements made on the apparatus.

Comparator Section.—At the Comparator Building a much needed addition has been supplied by the installation of an automatic temperature regulator to control the electric heating system in the testing room. This regulator was supplied by the Johnson Service company and is of their standard type for regulating electric heating circuits. It is located at the centre of the testing room, the main controlling device being placed over the switchboard. The controlling apparatus consists of an alternating current magnet switch controlled by an alternating current relay which is in turn actuated by the thermostat. The low voltage current necessary for the operating is furnished by a small transformer mounted on the board.

The room, as mentioned in a previous report, is heated by two sets of electric radiators each set being wired for three degrees of heat. In order to have as even a temperature as possible it was decided, when installing the regulator, to arrange so that each circuit could be either fed through the regulator or directly from the mains. This was accomplished by installing a second switchboard beneath the existing one and providing a second set of switches connected to the heaters. The bus-bars of the new board are fed through the regulator, so that by suitably combining the circuits on the two boards the heating current may be divided, part being always in operation while the remainder is under control of the thermostat.

The thermostat is adjusted so as to maintain the temperature of the room within one degree either above or below the standard temperature, 62° F.

The weekly base determinations mentioned in the report for 1915-16 have been continued throughout the year and valuable information concerning the base is being obtained. Several minor additions and improvements have been made to the apparatus. Among other tests the screws of the three micrometer microscopes on the 4-metre rule carriage have been calibrated.

Thermometer Testing Section.—A thermometer comparator for the precise testing of laboratory thermometers has been installed. This apparatus was modelled after the comparator in use at the Bureau of Standards in Washington and is adapted for the comparison of thermometers with one or more primary standards from about 5° C. to 90° C. and may be used either in the vertical or horizontal position.

The thermometers used as standards have been calibrated at the International Bureau, Paris, and at the Bureau of Standards, Washington.

It is expected that as the facilities possessed by the Surveys Laboratory for the accurate comparison of thermometers become more widely known, manufacturers and others in Canada will make use of the opportunity for having their instruments compared with the standard scale of temperature.

Watch Testing Section.—Of the sixty-six watches completing the test, twenty-nine, or forty-four per cent passed. This represents the same percentage of passes as in 1916.

The results of the trials of the watches which passed are tabulated herewith:—
<table>
<thead>
<tr>
<th>Name of Watch</th>
<th>Number of Watch</th>
<th>Escapement, Balance Spring, etc.</th>
<th>Mean deviation of daily rate</th>
<th>Mean of daily rates for each pair of position tests</th>
<th>Maximum deviation of position</th>
<th>Maximum difference of position</th>
<th>Change of r. per 1° C.</th>
<th>Change of r. between A and B</th>
<th>Isotropism error</th>
<th>Relative performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waltham Watch Co.</td>
<td>18028342</td>
<td>D.r., g.b., l.e., s.o.</td>
<td>0.31 + 0.14</td>
<td>0.66 + 2.32</td>
<td>0.77</td>
<td>0.22 - 0.53</td>
<td>-2.43</td>
<td>-0.69</td>
<td>+0.03</td>
<td>0.12</td>
</tr>
<tr>
<td>&quot;</td>
<td>18001065</td>
<td>T.S. 892</td>
<td>0.39 + 0.09</td>
<td>1.04 + 3.79</td>
<td>0.55</td>
<td>1.76 - 0.10</td>
<td>+1.34</td>
<td>-0.03</td>
<td>+0.06</td>
<td>0.09</td>
</tr>
<tr>
<td>&quot;</td>
<td>19001077</td>
<td>&quot;</td>
<td>0.39 + 1.6</td>
<td>1.54 + 5.26</td>
<td>1.38</td>
<td>1.73 + 0.08</td>
<td>+2.46</td>
<td>-0.01</td>
<td>+0.02</td>
<td>0.05</td>
</tr>
<tr>
<td>&quot;</td>
<td>17162346</td>
<td>&quot;</td>
<td>0.37 + 1.57</td>
<td>1.66 + 9.5</td>
<td>0.82</td>
<td>0.42 - 0.07</td>
<td>+1.90</td>
<td>-0.01</td>
<td>+0.03</td>
<td>0.06</td>
</tr>
<tr>
<td>&quot;</td>
<td>18001065</td>
<td>&quot;</td>
<td>0.35 + 0.41</td>
<td>1.37 + 5.52</td>
<td>0.07</td>
<td>0.75 - 0.50</td>
<td>+1.50</td>
<td>+0.16</td>
<td>-0.11</td>
<td>0.06</td>
</tr>
<tr>
<td>&quot;</td>
<td>18001077</td>
<td>&quot;</td>
<td>0.39 + 1.53</td>
<td>1.98 + 7.98</td>
<td>3.32</td>
<td>0.48 + 0.31</td>
<td>+0.37</td>
<td>-0.10</td>
<td>+0.04</td>
<td>0.11</td>
</tr>
<tr>
<td>&quot;</td>
<td>683581</td>
<td>&quot;</td>
<td>0.30 + 1.34</td>
<td>2.02 + 7.02</td>
<td>2.63</td>
<td>0.49 + 0.07</td>
<td>+1.70</td>
<td>+0.07</td>
<td>-0.11</td>
<td>0.06</td>
</tr>
<tr>
<td>&quot;</td>
<td>683599</td>
<td>&quot;</td>
<td>0.29 + 6.36</td>
<td>1.33 + 5.18</td>
<td>0.95</td>
<td>1.49 + 0.75</td>
<td>+2.27</td>
<td>+0.07</td>
<td>-0.02</td>
<td>0.05</td>
</tr>
<tr>
<td>&quot;</td>
<td>683567</td>
<td>&quot;</td>
<td>0.26 + 2.44</td>
<td>2.74 + 8.12</td>
<td>4.58</td>
<td>2.16 + 0.10</td>
<td>+1.17</td>
<td>-0.08</td>
<td>+0.03</td>
<td>0.07</td>
</tr>
<tr>
<td>&quot;</td>
<td>683579</td>
<td>&quot;</td>
<td>0.28 + 9.04</td>
<td>1.02 + 7.63</td>
<td>3.11</td>
<td>1.06 + 0.24</td>
<td>+2.97</td>
<td>-0.23</td>
<td>-0.10</td>
<td>0.12</td>
</tr>
<tr>
<td>Waltham Watch Co.</td>
<td>16167502</td>
<td>&quot;</td>
<td>0.38 + 2.24</td>
<td>2.91 + 7.08</td>
<td>2.91</td>
<td>0.92 + 0.47</td>
<td>+0.64</td>
<td>-0.05</td>
<td>+0.07</td>
<td>0.12</td>
</tr>
<tr>
<td>&quot;</td>
<td>18028583</td>
<td>T.S. 491</td>
<td>0.26 + 5.36</td>
<td>1.73 + 5.67</td>
<td>1.31</td>
<td>1.96 + 0.39</td>
<td>+5.74</td>
<td>+0.06</td>
<td>+0.02</td>
<td>0.04</td>
</tr>
<tr>
<td>&quot;</td>
<td>17162352</td>
<td>&quot;</td>
<td>0.37 + 3.24</td>
<td>2.55 + 7.78</td>
<td>3.53</td>
<td>1.21 + 0.13</td>
<td>+5.70</td>
<td>+0.11</td>
<td>+0.12</td>
<td>0.10</td>
</tr>
<tr>
<td>&quot;</td>
<td>18001068</td>
<td>&quot;</td>
<td>0.24 + 1.83</td>
<td>1.35 + 7.48</td>
<td>1.41</td>
<td>0.23 + 0.13</td>
<td>-0.80</td>
<td>-0.34</td>
<td>+0.21</td>
<td>0.13</td>
</tr>
<tr>
<td>&quot;</td>
<td>19001073</td>
<td>&quot;</td>
<td>0.30 + 6.69</td>
<td>1.29 + 4.52</td>
<td>1.82</td>
<td>2.77 + 1.86</td>
<td>+3.95</td>
<td>+0.01</td>
<td>+0.20</td>
<td>0.19</td>
</tr>
<tr>
<td>&quot;</td>
<td>18028568</td>
<td>&quot;</td>
<td>0.30 + 1.14</td>
<td>2.36 + 8.83</td>
<td>3.16</td>
<td>0.67 + 0.31</td>
<td>+3.30</td>
<td>-0.14</td>
<td>+0.07</td>
<td>0.07</td>
</tr>
<tr>
<td>&quot;</td>
<td>18001027</td>
<td>&quot;</td>
<td>0.33 + 10.71</td>
<td>2.68 + 7.65</td>
<td>4.60</td>
<td>0.59 + 0.42</td>
<td>+2.07</td>
<td>-0.03</td>
<td>+0.03</td>
<td>0.10</td>
</tr>
<tr>
<td>&quot;</td>
<td>18028502</td>
<td>&quot;</td>
<td>0.33 + 7.15</td>
<td>1.63 + 4.89</td>
<td>3.20</td>
<td>3.67 + 0.26</td>
<td>+1.54</td>
<td>-0.34</td>
<td>-0.20</td>
<td>0.14</td>
</tr>
<tr>
<td>&quot;</td>
<td>19001065</td>
<td>&quot;</td>
<td>0.49 + 0.13</td>
<td>2.16 + 7.41</td>
<td>1.27</td>
<td>1.15 + 0.26</td>
<td>+3.90</td>
<td>+0.03</td>
<td>+0.09</td>
<td>0.06</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.40 - 7.75</td>
<td>2.84</td>
<td>3.57</td>
<td>1.33</td>
<td>1.87</td>
<td>-0.23 +3.57</td>
<td>-0.12</td>
<td>0.00</td>
<td>0.12 +2.14</td>
</tr>
<tr>
<td>------------------------</td>
<td>--------</td>
<td>-------------</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>-------------</td>
<td>--------</td>
<td>------</td>
<td>-------------</td>
</tr>
<tr>
<td>Waltham Watch Co</td>
<td>18901683</td>
<td>0.48 + 3.68</td>
<td>1.90</td>
<td>7.48</td>
<td>2.83</td>
<td>1.23</td>
<td>+0.32 +2.64</td>
<td>-0.28</td>
<td>-0.17</td>
<td>0.11 +1.10</td>
</tr>
<tr>
<td>&quot;</td>
<td>18901685</td>
<td>0.20 - 4.02</td>
<td>1.20</td>
<td>4.06</td>
<td>2.26</td>
<td>1.80</td>
<td>+1.33 +3.80</td>
<td>-0.29</td>
<td>+0.04</td>
<td>0.33 +1.00</td>
</tr>
<tr>
<td>Hamilton Watch Co</td>
<td>688366</td>
<td>0.39 + 2.85</td>
<td>1.94</td>
<td>7.51</td>
<td>4.06</td>
<td>1.69</td>
<td>-0.32 +5.53</td>
<td>-0.29</td>
<td>-0.08</td>
<td>0.21 +1.90</td>
</tr>
<tr>
<td>Waltham Watch Co</td>
<td>18901683</td>
<td>0.66 - 1.11</td>
<td>1.35</td>
<td>3.75</td>
<td>3.75</td>
<td>0.40</td>
<td>+0.61 +5.17</td>
<td>-0.15</td>
<td>+0.09</td>
<td>0.24 -0.50</td>
</tr>
<tr>
<td>Means.</td>
<td></td>
<td>0.36 - 3.48</td>
<td>1.79</td>
<td>6.27</td>
<td>2.21</td>
<td>1.37</td>
<td>0.45 +2.28</td>
<td>0.14</td>
<td>0.09</td>
<td>0.12 +0.90</td>
</tr>
</tbody>
</table>

D. r. = Double roller; g. b. = Going barrel; l. e. = Lever escapement; s. e. = Single overcoil.  P. U. = Pendant up; D. U. = Dial up; D. D. = Dial down.
For the twenty-nine watches which passed the test; the average variation of daily rate for the position and temperature tests were as follows:

<table>
<thead>
<tr>
<th>Position Tests</th>
<th>Temperature Tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>0s.30</td>
<td>0s.34</td>
</tr>
<tr>
<td>4s.35</td>
<td>8s.51</td>
</tr>
</tbody>
</table>

The smallest mean deviation of daily rate was as in 1916, 0s.23.

The average errors for position were:

<table>
<thead>
<tr>
<th>P.U.</th>
<th>P.R.</th>
<th>P.L.</th>
<th>D.U.</th>
<th>D.D.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1s.84</td>
<td>2s.36</td>
<td>2s.56</td>
<td>1s.27</td>
<td>0s.92</td>
</tr>
</tbody>
</table>

The smallest mean deviation for change of position was 0s.66 as compared with 0s.75 in 1916. Comparing the average errors with those for 1915 and 1916 we have the following:

<table>
<thead>
<tr>
<th>Average mean deviation of daily rate</th>
<th>1915</th>
<th>1916</th>
<th>1917</th>
</tr>
</thead>
<tbody>
<tr>
<td>for change of position</td>
<td>1.89</td>
<td>2.08</td>
<td>1.79</td>
</tr>
<tr>
<td>change of daily rate per degree centigrade</td>
<td>0.08</td>
<td>0.09</td>
<td>0.09</td>
</tr>
</tbody>
</table>

The average isochronism error for the twenty-nine watches passing test was 0s.9, and the average marks obtained 51.9; the highest 63.1.

Again this year, as in 1914, 1915 and 1916, the largest average error for the position tests for watches passing the test was in the P.L. position.

Of the watches which failed, seventeen, or forty-six per cent, failed in position only; two, or five per cent, failed in temperature correction only; and one, or three per cent, in isochronism only. The remaining seventeen, or forty-six per cent, failed to pass more than one tolerance. Of the latter, nine, or twenty-four per cent of the total failures, failed in both position and temperature correction.
APPENDIX No. 13.

LIST OF SURVEYING INSTRUMENTS ON HAND, MARCH 31, 1917.

<table>
<thead>
<tr>
<th>Instruments</th>
<th>In Store, April 16</th>
<th>Purchased</th>
<th>Sold</th>
<th>Balance</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abney levels</td>
<td>41</td>
<td></td>
<td>6</td>
<td>2</td>
<td>33</td>
</tr>
<tr>
<td>Alidades</td>
<td>1</td>
<td></td>
<td></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Altazimuths</td>
<td>1</td>
<td></td>
<td></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Aneroids</td>
<td>91</td>
<td></td>
<td>13</td>
<td>78</td>
<td></td>
</tr>
<tr>
<td>Artificial Horizons</td>
<td>4</td>
<td></td>
<td>1</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Base line apparatus</td>
<td>1</td>
<td></td>
<td></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Cameras and Kodaks</td>
<td>15</td>
<td>3</td>
<td>3</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Chronometers and Sidereal watches</td>
<td>55</td>
<td>2</td>
<td>3</td>
<td>5</td>
<td>49</td>
</tr>
<tr>
<td>Compasses</td>
<td>34</td>
<td></td>
<td></td>
<td>34</td>
<td></td>
</tr>
<tr>
<td>Current meters and logs</td>
<td>4</td>
<td></td>
<td>1</td>
<td>3</td>
<td>1 struck off.</td>
</tr>
<tr>
<td>Dip circles</td>
<td>2</td>
<td></td>
<td>1</td>
<td>2</td>
<td>4 struck off.</td>
</tr>
<tr>
<td>Field glasses and binoculars</td>
<td>6</td>
<td>4</td>
<td>4</td>
<td>2</td>
<td>3 put back in stock.</td>
</tr>
<tr>
<td>Levels</td>
<td>53</td>
<td></td>
<td>11</td>
<td>41</td>
<td></td>
</tr>
<tr>
<td>Levelling rods</td>
<td>80</td>
<td></td>
<td>19</td>
<td>60</td>
<td></td>
</tr>
<tr>
<td>Micrometer telescopes</td>
<td>8</td>
<td></td>
<td></td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Optical squares</td>
<td>1</td>
<td></td>
<td></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Pedometers</td>
<td>2</td>
<td></td>
<td>2</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Photo-theodolites</td>
<td>5</td>
<td></td>
<td>2</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Plane tables</td>
<td>1</td>
<td></td>
<td></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Protractors</td>
<td>78</td>
<td></td>
<td>19</td>
<td>58</td>
<td>1 lost.</td>
</tr>
<tr>
<td>Rod levels</td>
<td>19</td>
<td>1</td>
<td>2</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Sextants and reflecting circles</td>
<td>3</td>
<td></td>
<td>2</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Solar compasses</td>
<td>2</td>
<td></td>
<td>2</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Stadia rods</td>
<td>48</td>
<td>3</td>
<td>3</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Stadia Slide rules</td>
<td>61</td>
<td></td>
<td>10</td>
<td>51</td>
<td></td>
</tr>
<tr>
<td>Steel tapes</td>
<td>139</td>
<td>32</td>
<td>26</td>
<td>8</td>
<td>130</td>
</tr>
<tr>
<td>Subsidiary standard measures</td>
<td>90</td>
<td></td>
<td>11</td>
<td>79</td>
<td>7 struck off.</td>
</tr>
<tr>
<td>Survey pickets</td>
<td>4</td>
<td></td>
<td>2</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Surveying cameras</td>
<td>12</td>
<td></td>
<td></td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Tally registers</td>
<td>1</td>
<td></td>
<td></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Tape stretching apparatus</td>
<td>1</td>
<td></td>
<td></td>
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SUPPLEMENT TO THE ANNUAL REPORT OF THE DEPARTMENT OF THE INTERIOR

FIFTEENTH REPORT

OF THE

GEOGRAPHIC BOARD OF CANADA

CONTAINING ALL DECISIONS TO MARCH 31

1917

PRINTED BY ORDER OF PARLIAMENT

OTTAWA
J. DE LABROQUIERIE TACHÉ
PRINTER TO THE KING'S MOST EXCELLENT MAJESTY
1917

[ No. 25c—1918 ]
SUPPLEMENT TO THE ANNUAL REPORT OF THE DEPARTMENT OF THE INTERIOR

FIFTEENTH REPORT

TO THE

GEOGRAPHIC BOARD OF CANADA

TRANSFERRING UNRESOLVED TO MARCH 1

1917

[Signature]
Hon. W. J. Roche,
Minister of the Interior.

Sir,—I have the honour to submit the Fifteenth Report of the Geographic Board of Canada containing, in addition to the decisions included in the Fourteenth Report, all the decisions between April 1, 1915, and March 31, 1917. No report was issued for the year ending March 31, 1916, the present report being intended for the two years ending March 31, 1917.

I have the honour to be, sir,
Your obedient servant,

E. DEVILLE,
Chairman of the Board.
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ORDERS IN COUNCIL DEFINING THE AUTHORITY
AND POWERS OF THE BOARD.

December 18, 1897.

His Excellency, by and with the advice of the Queen's Privy Council of Canada, is pleased to create a 'Geographic Board' to consist of one member for each of the Departments of the Geological Survey, Railways and Canals, Post Office, and Marine and Fisheries, such member being appointed by the Minister of the department; of the Surveyor General of Dominion Lands; of such other members as may from time to time be appointed by Order in Council; and of an officer of the Department of the Interior, designated by the Minister of the Interior, who shall act as secretary of the Board; and to authorize the Board to elect its chairman and to make such rules and regulations for the transaction of its business as may be requisite.

His Excellency is further pleased to order and direct, that all questions concerning geographic names in the Dominion which arise in the departments of the public service shall be referred to the Board, and that all departments shall accept and use in their publications the names and orthography adopted by the Board.

Note.—Under the provisions of an Order in Council dated November 30, 1916, the secretary has ceased to be a member of the Board.

EXTRACT.

"That the Order in Council constituting the Board be amended by giving to the Government of the Northwest Territories and to each province the right to nominate one of their officials as a member of the Board, who shall advise the Board with reference to names in his province, provided that the several Governments undertake to be guided by the decisions of the Board."

December 14, 1899.

April 24, 1915.

The Committee of the Privy Council have had before them a report, dated 6th April, 1915, from the Minister of the Interior, stating that the Geographic Board created by Orders in Council of December 18, 1897, and 14th December, 1899, for adjudicating upon all questions concerning geographic names, consists of the experts on geographic matters in the service of the Dominion and Provincial governments and that advantage can be taken of their special knowledge by extending the scope of the action of the Board.

The Minister submits that their advice would be particularly valuable for the compilation of new maps, for avoiding duplications where good maps already exist, for the selection, unification and improvement of scales, the uniformity of symbols and conventional signs, the representation of relief, the use of colours, the methods of reproduction and other geographic subjects.

The Minister, therefore, recommends that authority be granted to the Board to investigate such geographic questions as may be submitted to it by Departments of the Public Service and to advise upon the same.

The Committee submit the same for approval.

Approved by His Royal Highness the Governor General.
MEMBERS OF THE GEOGRAPHIC BOARD OF CANADA

Chairman
E. Deville, LL.D., F.R.S.C., Surveyor General of Dominion Lands.

Executive Committee

Members
Lieut.-Col. Wm. P. Anderson, C.M.G., F.R.G.S., Chief Engineer, Department of Marine and Fisheries.
W. H. Boyd, Chief Topographer, Geological Survey, Department of Mines.
J. E. Chalifour, Chief Geographer, Department of the Interior.
Major J. B. Cochrane, M. Can. Soc. C.E., Assistant Director of Military Surveys, Militia Department.
A. G. Doughty, C.M.G., Litt.D., Dominion Archivist and Deputy Head.
E. V. Johnson, M. Can. Soc. C.E., Office Engineer, Department of Railways and Canals.
W. J. Stewart, M. Can. Soc. C.E., Chief Hydrographer, Department of the Naval Service.

Provincial Representative Members
(Order in Council, December 14, 1899.)

Ontario—
L. V. Rorke, Director of Surveys, Department of Lands and Forests, Toronto, Ont.
Quebec—
Eugène Rouillard, F.R.S.C., Quebec Geographic Board, Quebec, Que.
New Brunswick—
Wm. S. Carter, M.A., LL.D., Superintendent of Education, Fredericton, N.B.
Nova Scotia—
Prince Edward Island—
Hon. M. McKinnon, Provincial Secretary (ex-officio), Charlottetown, P.E.I.
British Columbia—
Wm. Flett Robertson, B.A.Sc., Mining Engineer, Provincial Mineralogist, Victoria, B.C.
Alberta—
L. C. Charlesworth, Deputy Minister of Public Works, Edmonton, Alta.
Saskatchewan—
John William McLeod, Clerk to the Executive Council, Regina.

Secretary
R. Douglas, Department of the Interior.
GEOGRAPHIC BOARD OF CANADA

BY-LAWS.

I—Officers of the Board.

The officers shall consist of a chairman (who shall be elected by ballot), of an executive committee of three to be nominated by the Chair and approved by the Board, all of whom shall serve for one year or until their successors shall be chosen.

II—Duties of Officers.

(a) The chairperson shall preside at the meetings and shall certify to the decisions of the Board. He shall appoint all committees not specially named by the Board. In his absence the Board shall have power to elect a temporary chairman.

(b) The secretary shall keep minutes of the proceedings of the Board and shall record the decisions rendered, or other action of the Board, upon cases submitted to it, with reference to the papers filed in each case. He shall maintain files of the original papers, or copies of them, that may be presented in each case, conveniently arranged for reference. He shall, under the instructions of the Board, conduct the general correspondence and shall receive communications presented for the consideration of the Board.

(c) The executive committee shall receive, through the secretary, all communications requiring decision by the Board, shall investigate the questions presented, and after securing information from all available sources, shall report to the Board with recommendations regarding them.

(d) Before dealing with any name within a province represented upon the Board, such name shall be submitted to the representative of said province for examination and report.

(e) Upon the receipt of a communication submitting place-names for the consideration of the Board, it shall be the duty of the secretary, after preliminary submission to the executive committee, to transmit at once a copy of such communication, together with any papers relating thereto, to the member of the Board for the province affected; and also, in the case of coast names appearing on admiralty charts, to the hydrographer of the admiralty.

(f) So soon as the report of the provincial representative, and in the case of chart names, the report of the hydrographer, are received, the secretary shall immediately submit the whole correspondence to the executive committee, who shall promptly prepare the names for submission to the Board.

(g) The secretary shall enter upon every record submitted for the consideration of the Board, the recommendation of the provincial representative, and, if any, the recommendation of the hydrographer.

III—Meetings.

The Board shall hold regular meetings on the first Tuesday in each month. Special meetings may be called by the chairperson or by the executive committee. Five members of the Board shall constitute a quorum, but on the written request of any member, filed with the secretary of the Board within a month from the
date of a meeting, any decision adopted at such meeting shall be reserved for approval by a majority of the full Board. The affirmative vote of a majority of all the members of the full Board shall be required for the final decision in any case. All motions presented for the consideration of the Board shall be submitted in writing.

IV—Reports.

The Board shall publish its decisions on geographic names, after each meeting, in The Canada Gazette and in bulletins, the same to be consolidated in a general report of the Board’s work, to be issued from time to time as required.

V—Amendment.

These by-laws may be amended at any regular or special meeting, by a majority vote of all the members of the Board, provided that copies of the proposed amendment have been sent by the secretary to the members of the Board at least twenty days previous to the time the vote is taken.
GEOGRAPHIC BOARD OF CANADA

SESSIONAL PAPER No. 25c

RULES OF NOMENCLATURE

1. When the priority of a name has been established by publication, particularly when such publication has occurred in any standard or authoritative work or works, that name should, if possible, be retained.

2. When names have been changed or corrected, if not too firmly established by local usage or otherwise, the original forms should be restored.

3. In cases where what was evidently originally the same word, appears with various spellings sanctioned by local usage or otherwise, these various spellings when applied to different features should be regarded as in effect different names, and as a rule it is inadvisable to attempt to produce uniformity.

4. As a rule the first published name should be retained, but where a choice is offered between two or more names for the same place or locality, all sanctioned by local usage, that which is most appropriate and euphonious should be adopted.

5. The possessive form should be avoided whenever it can be done without destroying the euphony of the name or changing its descriptive application. Where the possessive form is retained, the apostrophe should be dropped.

6. It is desirable to avoid the use of hyphens to connect parts of Indian names.

7. Names consisting of more than one word may be connected by hyphens or combined in one word as may be advisable.

8. It is desirable to avoid the use of the words city and town as parts of names.

9. The form "canyon" may be used instead of "cañon," but the latter is preferable.

10. The term "brook" is considered preferable to "creek" for designating small streams, and will be adopted in cases where the latter has not become too firmly fixed.

11. The Board suggests that the initial letters of generic or descriptive parts of geographical names, when used in reports or other documents, should not be capitals.

12. The use of alternative names should be discontinued where possible or not inconvenient.

13. Geographical names in a foreign country should be rendered in the form adopted by that country, except where there are English equivalents already fixed by usage.

14. French names in Canada are to be spelled, accented, hyphenated, etc., according to the rules of the French language.

15. In cases where names already exist, and have been published in both English and French form and have been sanctioned by long usage, no attempt shall be made to abolish either form, but both may be recognized and published in the Board's lists of decisions, and it shall be deemed correct to use either form in official documents in either language. In all other cases, any duplication of form shall be discouraged and preference shall be given to the form which has priority of origin, whether this be English or French.

16. In English text and map printing, the use of hyphens for composite French names, though it is recommended, shall not be considered obligatory.

17. The spelling of native geographical names should represent, approximately, the true sounds of the words as pronounced in the native tongue. In the orthography of names of Indian origin in the province of Quebec, the rules of the Board, based on those of the Royal Geographical Society, are preferable.
to French practice as being simpler and in accordance with international usage, and shall be followed in the case of new names.

18. Where a generic descriptive term, such as Cape, Bay, River, etc., is added to a name, it is permissible to translate such term into French for use in French publications, or into English for use in English publications, if it can be done without producing a mixture of English and French.

19. The Board adopts the rules of the Royal Geographical Society for the orthography of geographical names, of which the broad features are as follows:

(a) The vowels are to be pronounced as in Italian, and the consonants as in English.

(b) Every letter is pronounced, and no redundant letters are introduced. When two vowels come together each one is sounded, though the result, when spoken quickly, is sometimes scarcely to be distinguished from a single sound, as in ai, au, ei.

(c) One accent only is used, the acute, to denote the syllable on which stress is laid. This is very important, as the sounds of many names are entirely altered by the misplacement of this "stress."

The following amplification of the foregoing rules explains their application:
<table>
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<tr>
<th>Letters</th>
<th>Pronunciation and Remarks</th>
<th>Examples</th>
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<tr>
<td>a</td>
<td>ch, a as in father</td>
<td>Java, Banana, Somali, Bari, Tel el Kebir, Oleleh, Yezo, Medina, Levuka, Peru, Fij, Hindi, Tokyo.</td>
</tr>
<tr>
<td>e</td>
<td>ch, a as in fate</td>
<td>Zulu, Sumatra, Yarra, Tanna, Mecca, Jidda, Nuulu, Oosima, Shanghai, Puchau, Macao, Cawpore, Beirut, Beilul.</td>
</tr>
<tr>
<td>i</td>
<td>o as in mote</td>
<td>Celebes, Chingchin.</td>
</tr>
<tr>
<td>o</td>
<td>o as in motec</td>
<td>Haifong, Nafa, Galapagos.</td>
</tr>
<tr>
<td>u</td>
<td>long a as in flute</td>
<td>Hwang ho, Nganhwei, Japan, Jinchuen.</td>
</tr>
<tr>
<td>au</td>
<td>ow as in how</td>
<td>Korea, Khan, Dawgh, Ghazi.</td>
</tr>
<tr>
<td>aw</td>
<td>when followed by a consonant or at the end of a word, as in law.</td>
<td>Chemulpho, Mokpho, Bethlehem, Kwangtung.</td>
</tr>
<tr>
<td>ei</td>
<td>is the sound of the two Italian vowels, but is frequently slurred over, when it is scarcely to be distinguished from e in the English eight, or ey in the English they.</td>
<td>Sawakin.</td>
</tr>
<tr>
<td>epropriated</td>
<td>as in aise, or English a as in ice.</td>
<td>Kikuyu.</td>
</tr>
<tr>
<td>opropriated</td>
<td>is slightly different from above.</td>
<td>Mikindani.</td>
</tr>
<tr>
<td>apropriated</td>
<td>is always soft, but is so nearly the sound of s that it should be seldom used.</td>
<td>Zulu.</td>
</tr>
<tr>
<td>bpropriated</td>
<td>or if these were not already recognized it would be written Selebes.</td>
<td>Muzhkana.</td>
</tr>
<tr>
<td>cpropriated</td>
<td>ch is always soft as in church.</td>
<td>Zulu.</td>
</tr>
<tr>
<td>dpropriated</td>
<td>English d.</td>
<td>Macao.</td>
</tr>
<tr>
<td>fpropriated</td>
<td>English j. ph should not be used for the sound of f.</td>
<td>Cawpore.</td>
</tr>
<tr>
<td>gpropriated</td>
<td>g is always hard. (Soft g is given by j).</td>
<td>Beirut, Beilul.</td>
</tr>
<tr>
<td>hpropriated</td>
<td>is always pronounced when inserted.</td>
<td>Celebes.</td>
</tr>
<tr>
<td>ipropriated</td>
<td>hw as in what, better rendered by kw than by wh, or h followed by a vowel, thus Hwang ho, not Whang ho, or Huang ho.</td>
<td>Chingchin.</td>
</tr>
<tr>
<td>jpropriated</td>
<td>English j. Dj should never be put for this sound.</td>
<td>Haifong, Nafa.</td>
</tr>
<tr>
<td>kpropriated</td>
<td>English k. It should always be put for the hard c.</td>
<td>Galapagos.</td>
</tr>
<tr>
<td>lpropriated</td>
<td>The Oriental guttural.</td>
<td>Hwang ho, Nganhwei.</td>
</tr>
<tr>
<td>mpropriated</td>
<td>is another guttural, as in the Turkish.</td>
<td>Japan, Jinchuen.</td>
</tr>
<tr>
<td>npropriated</td>
<td>As in English.</td>
<td>Korea, Khan, Dawgh, Ghazi.</td>
</tr>
<tr>
<td>ngpropriated</td>
<td>has two separate sounds, the one hard as in the English word singer, the other as in singer. As these two sounds are rarely employed in the same locality, no attempt is made to distinguish between them.</td>
<td>Chemulpho, Mokpho, Bethlehem, Kwangtung.</td>
</tr>
<tr>
<td>ppropriated</td>
<td>As in English.</td>
<td>Sawakin.</td>
</tr>
<tr>
<td>phpropriated</td>
<td>As in loofole, ph stands both for its sound in thing, and as in this. The former is most common.</td>
<td>Kikuyu.</td>
</tr>
<tr>
<td>thpropriated</td>
<td>Should never be employed; qu (in quire) is given as kw. When qu has the sound of k as in quot, it should be given by k.</td>
<td>Mikindani.</td>
</tr>
<tr>
<td>qpropriated</td>
<td>As in English.</td>
<td>Kwalie.</td>
</tr>
<tr>
<td>rpropriated</td>
<td>is always a consonant, as in yard, and therefore should never be used as a terminal, i or e being substituted as the sound may require. Thus, not Mikindany, but not Kwaly, but</td>
<td>Zulu.</td>
</tr>
<tr>
<td>sprpropriated</td>
<td>English z. Accents should not generally be used, but where there is a very decided emphatic syllable or stress, which affects the sound of the word, it should be marked by an acute accent.</td>
<td>Muzhdaha.</td>
</tr>
<tr>
<td>tpropriated</td>
<td>The French j, or as s in treasure.</td>
<td>Tongatat, Paia, Saw, awak.</td>
</tr>
<tr>
<td>wpropriated</td>
<td></td>
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REGULATIONS

The following regulations have been adopted for the guidance of those submitting names to the Geographic Board.

20. Names submitted to the Geographic Board must be accompanied by a map showing the position of the features for which the names are proposed.

21. If the features already bear names which appear on any published map, a reference to this map suffices.

22. Names received by the Board for consideration are referred to the member of the Board representing the province concerned, after which they go to the Executive Committee of the Board. It is desirable, therefore, that lists and maps should be submitted in duplicate, where this can be done conveniently.

23. The memorandum submitted should state whether the suggested names are new, or have been published, and whether the features they apply to are unnamed, or possess names. If a suggested name is new, full particulars respecting the origin must be given. If a suggested name has already been published, the date of publication as well as the circumstances of the origin, if known, should be given.

24. If a proposed name is intended to replace a published or existing one, this name should be given, with the place and date of publication, if known, as well as the arguments for the proposed change.

25. Duplication of names, especially within one province, is objectionable. This excludes the use of all such common descriptive names as Bear, Beaver, Duck, Eagle, Fish, Maple, Moose, Pigeon, Pine, Sturgeon, Trout, Turtle, Wolf, Wood, Black, Clear, Green, Red, White, Long, Mud, etc.

26. Duplication also renders undesirable a number of descriptive names, which are less common. Many of these have been applied to mountain peaks. An examination of the annual report of the Geographic Board will show if a proposed name is in this class.

27. The system of naming branches of rivers South branch, North branch, East fork, etc., is undesirable; individual names are preferable. The names of main streams should be carried to the headwaters.

28. Blank forms for lists of names are furnished by the secretary on application.
DECISIONS

The names printed in heavy-faced type have been approved by the Board. The names in italic are discarded forms.

A

Abatagush; bay, Mistassini lake, Mistassini territory, Que.

Montagnais Indian name meaning "narrow wooded passage."

Abbika. See Apika.

Abbot; mount, west of Duncan river, Kootenay district, B.C.

Abbot; pass, near mount Lefroy, Alberta and Kootenay districts, B.C.

After Phillip Stanley Abbot, Appalachian Mountain Club, Boston; killed on mount Lefroy, 1896.

Abbott; mount, south of Glacier railway station, Kootenay district, B.C.

After H. Abbott, superintendent, Canadian Pacific Ry.

Abbott Corners; village, Missisquoi county, Que. (Not Abbotts Corners.)

After Dr. Jonas Abbott, settler about 1797.

Abenakis; river, tributary to Etchemin river, Bellechasse and Dorchester counties, Que. (Not Abenaquis.)

After Indian tribe.

Aberdeen; mount, northeast of mount Lefroy, Rocky mountains, Albertá. (Not Hazel.)

Named in 1897 after Lord Aberdeen, then Governor General of Canada.

Abitibi; territory, Que., also lake, Ontario and Quebec, hills, near lake, Quebec, and river flowing from the lake into Moose river, Ont. (Not Abitibi, Abitiibi, nor Abittibbi.)

Name applied to a little known band of Algonquin Indians living at the lake and description of their situation "half-way" between the trading posts on Hudson bay and the Ottawa; Jaillot's map, 1685, shows the river as "rivière des Tabitibis, the upper portion of the lake as "lac des Tabitibis" and the lower portion as "lac Piscoutagany."

Abloviaq; bay, east shore of Ungava bay, New Quebec territory, Que. (Not Ablorialik.)

Eskimo name meaning "pace or step."

Abord-à-Plouffe; village, Laval county, Que. (Not Bord à Plouffe.)

After François Plouffe, ferryman about 1800-10.

Aboushagan; river, Westmorland county, N.B. (Not Abouchagan, Aboushogan, Aboushagin, nor Abougoggin.)

Indian name probably meaning in part "portage route."

Abraham. See Abram.

Abram; lake, English river, immediately below Minmitaki lake, Kenora district, Ont. (Not Abraham nor Abran's.)

After Abram, Dr. R. Bell's Indian canoeeman, Geological Survey party, 1872.

Acheninni; lake, Grassberry river, long. 103°, Sask. (Not Blackfeet.)

Cree Indian name for the Blackfeet, literally "the other people."

Achigan; lake and river, tributary to L'Assomption river, Terrebonne and L'Assomption counties, Que.

Indian name meaning "bas.

Achigo. See Sachigo.

Active; pass, between Galiano and Mayne islands, southern portion of strait of Georgia, B.C.

(Not Plumper's.)

Traversed by U.S. surveying vessel "Active," 1855 and named by her commander.
Acton Corners; hamlet, Oxford township, Grenville county, Ont. (Not Acton’s Corners.)
After the brothers, John (1807-1891), and Abram Acton, natives of Connaught, Ireland, who settled about 1835; Abram died about 1870.

Actonvale; town, Bagot county, Que. (Not Acton Vale).

Adam; lake, northeast of entrance of Canon river into Wabigoon river, Kenora district, Ont.

Adamant; glacier, mountain and range, south of Columbia river, between Gold river and Windy river, Selkirk mountains, Kootenay district, B.C.
Descriptive.

Adams; lake and river, emptying into west end of Shuswap lake, Kamloops district, B.C.

Adelaide; island, northeast of Grenadier island, St. Lawrence river, Yonge township, Leeds county, Ont.

Admiral. See Saltspring.

Admiralty; islands, St. Lawrence river, south of Gananoque, Leeds township, Leeds county, Ont.
After governing body of British navy.

Adstock; township and village, Frontenac county, Que.
After Adstock, parish, Buckingham, England.

Advance; reef, opposite Michael point, 9 miles southeast of Providence point, Manitoulin island, Manitoulin district, Ont.
After tug “Advance” wrecked on the reef, 1899.

Affleck; lake, Waupoohope township, Kenora district, Ont.

Afton; mount, south of mount Abbott, Selkirk mountains, Kootenay district, B.C.
Portions of the names of Messrs. Abbott, Fay and Thompson who ascended it 1895.

Agawa; bay, islands, point and river, lake Superior, Algoma district, Ont. (Not Agawa.)

Agnes; lake, west of lake Louise, Alberta. (Not the Goat’s Looking Glass.)
After Susan Agnes, Baroness Macdonald of Earnscliffe, who visited the lake, 1886 or 1887.

Agotawe kami. See Duparquet.

Agotawe kami. See Magusi.

Agawa. See Agawa.

Awillagate. See Awilligate.

Aiabewatik; lake, near height-of-land, south of Dinorwic lake, Kenora district, Ont.
Indian name meaning “brick.”

Aigle (île à l’); island, St. Lawrence river, southeast of île Ste. Thérèse, Verchères county, Que. (Not Grande.)

Aigle. See Aiglon.

Aigles (lac et rivière des); lake and river, tributary to Mattawin river, Champlain and St. Maurice counties, Que. (Not Eagle.)

Aiglon (île à l’); island, St. Lawrence river, north of île Ste. Thérèse, L’Assomption county, Que. (Not Aigle.)

Aiktow; creek, flowing into South Saskatchewan river at “The Elbow,” Sask.
Indian name meaning “the river that turns.”

Ainslie; shoal, south of Girouard point, Manitoulin island, 4 miles east of Greene island, Manitoulin district, Ont.
After tug “Ainslie.”

Ainsworth; village, west side of Kootenay lake, Kootenay district, B.C.
After Captain J. C. Ainsworth who obtained a grant of land from the Dominion Government, 1883.

Airy; mount, south of Little Slocan river, Kootenay district, B.C.

Aishihik; lake, and river tributary to Dezadeash river, southwestern Yukon.
SESSIONAL PAPER No. 25c

**Aiskew:** island, Frank point, Observatory inlet, Cassiar district, B.C.  
After Sir Thomas Aiskew Larcom Bart.

**Akamina:** brook, near international boundary, Kootenay district, B.C., also pass, Alberta and B.C. (Not Akimina.)  
Indian name meaning "high bench land."

**Akeimnew:** See Akkew-i-new.

**Akolkolex:** river, tributary to Columbia river from east, below Revelstoke, Kootenay district B.C. (Not Akotkolex.)

**Akoncy:** See Akonse.

**Akonse:** See Akos.

**Akos:** lake, near head of Kamachigama river, Montcalm county, Que. (Not Akonse nor Akoney.)  
Indian name meaning "sick."

**Akpatok:** island, Ungava bay, N.W.T.  
Eskimo name meaning "place of birds."

**Akuinu:** river, southern tributary to Saulteaux river in Tp. 67, R. 3, W. 5 M., Alberta. (Not A-ku-i-new.)  
After Indian band.

**Akuling:** inlet, Hudson strait, N.W.T. (Not A-ku-ling.)  
Eskimo name meaning "boundary," "terminus."

**Akwatuk:** bay and river, south of Fort George river, James bay, New Quebec territory, Que. (Not Aquatuk.)  
Eskimo name meaning "place of birds."

**Albanel:** lake, east of Mistassini lake, Mistassini territory, Que. (Not Little Mistassini nor Mistassini.)  
After Father Charles Albanel (1616-1680), Jesuit missionary who journeyed in 1674 from lake St. John to Hudson bay by lake Mistassini and Rupert river.

**Albee:** lake, Montbeillard township, Timiskaming county, Que.

**Albert:** cañon, creek, glacier, peak, and snowfield, east of Illecillewaet river, Kootenay district, B.C.  
After Albert L. Rogers, nephew of Major A. B. Rogers, exploring engineer of the Canadian Pacific Ry.

**Albert:** See Anderson.

**Albert:** town, Albert county, N.B. (Not Hopewell Corner.)  
After Albert, Prince Consort (1819-61.)

**Alberta:** province, also mount, Tp. 38, R. 25, W. 5 M., headwaters of the Athabaska river, Rocky mountains, Alberta.  
After H. R. H. Princess Louise Caroline Alberta, wife of the Marquis of Lorne (later Duke of Argyll), Governor General of Canada, 1878-83.

**Albert Edward:** mount, east of Buttle lake, Vancouver island, B.C.  
After late King Edward VII.

**Albury:** village, Ameliasburg township, Prince Edward county, Ont.

**Alcott:** creek, Tp. 57, R. 14, W. 3 M., Sask. (Not Rat.)  
After John Alcott, Indian, member of survey party.

**Aldborough:** township and hamlet, Elgin county, Ont. (Not Aldboro.)  
After Aldborough, Suffolk, England.

**Alderson:** mount, lat. 49° 01’, long. 113° 58’, Alberta.  

**Aldridge:** lake, near height-of-land at head of Lookout river, Thunder Bay district, Ont.  
After Hudson’s Bay Co. official.
Aldridge; mount, headwaters of Lake creek, tributary to Lardeau river, Kootenay district, B.C. After W. H. Aldridge, general manager, Consolidated M. & S. Co., Trail.

Alemek. See Lamek.

Alex; river, flowing into lake St. John, Lake St. John county, Que. After settler.


Alexander; slough and village, west of Brandon, Manitoba. (Not Big slough.) After Alexander Speers, early homesteader.

Alexandra; lake, Smellie township, Kenora district, Ont. After Queen Alexandra.

Alexandra; mount, Tp. 23, R. 35, W. 5 M., Alberta and Kootenay district, B.C. After Queen Alexandra.

Alexis; lake and creek, tributary to Chileotin river, Fraser river, Cariboo district, B.C. After Alexis Belanger, Hudson's Bay Co. interpreter.

Alexis Creek; post office, Cariboo district, B.C. See Alex.

Alford; railway station, Brantford township, Brant county, Ont. (Not Alford Junction.)

Algernon; rock, below Goose island, St. Lawrence river, L'Islet county, Que. (Not South nor Veilons.)

Alice; lake, head of Dolomite stream, northeast of Bow lake, Alberta. Named by Rev. H. P. Nichols after his wife.

Allan; lake, between Wallace river and East Prairie river, south of Lesser Slave lake, Alberta. Named by W. T. Green, D.L.S. after his brother Allan.

Allan; point, about 1½ miles west of Dorval, Jacques-Cartier county, Que. (Not Marion.)

Allan; river, tributary to Saulteaux river, south of Lesser Slave lake, Alberta. See Allan lake.

Allan Corners; hamlet, Chateauguay county, Que. (Not Allan's Corners.) After William Allan (1814-1904), merchant.

Allan Mills; settlement, Burgess North township, Lanark county, Ont. (Not Allan's Mills.) After first postmaster and owner of mills.

Allan water; a river, discharging through Wabakimi lake into Ogoki river, Thunder Bay district, Ont. After Allan, river, Scotland.

Allard; river, emptying into Mattagami lake, Abitibi territory, Que. (Not Mattagami.) After Hon. Jules Allard, Minister of Lands and Forests of Quebec.

Allen; island, Cornwall Grinnell bay, east coast of Baffin island, N.W.T.

Alliford; bay and point, north coast of Moresby island, Coast district, B.C.

Alligator; lake, head of North fork of Watson river and mountain, east of lake, southern Yukon

Allison; peak, lat. 40° 44', long. 114° 38', Alberta and Kootenay district, B.C.; also creek, tributary to Crowenest river, Alberta. After Douglas Allison, settler on creek.

Allison; creek, flowing into Similkameen river below Princeton, Similkameen district, B.C. (Not Graveyard, nor One Mile.) After first settler, 1858.

Allumette; lake, expansion of Ottawa river opposite Petawawa township, Renfrew county, Ont. (Not Pembroke.)

French word meaning "match"; named from the great quantity of reeds growing in the vicinity, which, in early days, were used for matches.
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**Alouette;** lake and river, tributary to Pitt river, New Westminster district, B.C. (Not Lillooet.)

**Alouettes (pointe aux);** point, southern entrance to Saguenay river, Saguenay county, Que. (Not Lark nor Alouette.)

**Alouette.** See Chalk.

**Alsek;** river, formed by the junction of the Dezadeash and Kaskawulsh, Yukon and Cassiar district, B.C. (Not Alseek nor Altsek.)

**Altrude;** lakes, near Vermilion pass and creek flowing northeast into Bow river, west of Castle railway station, Alberta. (Not Little Vermilion.)

**Alukpaluk;** bay, southeast shore of Ungava bay, New Quebec territory, Quebec. Eskimo name meaning “sound of lapping.”

**Alwin;** rock, entrance to Key harbour, Georgian bay, Parry Sound district, Ont.

After seaman on surveying steamer “Bayfield”.

**Amazon.** See Milton.

**Ambella.** See Arabella.

**Ameliasburg;** township, Prince Edward County, Ont. (Not Ameliasburgh.)

After Princess Amelia (1783–1810), youngest child of King George III.

**Amethyst;** harbour, opposite Keshikabuon island, McGregor township, Thunder Bay district, Ont.

**Amherst;** island lake Ontario, Lennox and Addington county, Ont.

After Field Marshal Jeffrey Amherst (1717–97), Baron Amherst.

**Amik;** lake, draining into English river, above Minnitaki lake, Kenora district, Ont.

Indian name meaning “beaver.”

**Amiktitik.** See La Sarre.

**Amiskwi;** peak and river, tributary to Kicking Horse river, Kootenay district, B.C. (Not Beavertail nor North branch of Kicking Horse river.)

Cree Indian name meaning “beaver tail.”

**Ammerman;** mountain, Davidson mountains, international boundary, Yukon.

**Amory;** cove, 3/4 mile east of Matamek river, Moisie bay, Saguenay county, Que. (Not Salmon nor Petit.)


**Amos;** village, Figuery township, Timiskaming county, Que.

After Lady Gouin, wife of Sir Lomer Gouin, Premier of Quebec.

**Amy;** point, north end of Gribbell island, Coast district, B.C.

Named by officers of H.M.S. “Devastation” and “Boxer.”

**Anahim;** creek, tributary to Chilcotin river from north above Haneeville, Cariboo district, B.C. (Not Anaham.)

After chief of Chilcotin Indians.

**Anahim;** lake, Dease river, Coast district, B.C.

**Anamebini;** river, tributary to the Kishikas river, Severn river system, Patricia district, Ont. (Not Anamabine.)

**Anderson;** channel, Baffin island, south of Cumberland sound, N.W.T.

Named by Hall, 1862, after captain of steamship “China.”

**Anderson;** glacier, flowing west across international boundary about 60 miles north of mount St. Elias and joining Chitina glacier, Yukon and Alaska.

After F. Chandler Anderson, New York, arbiter, Pecuniary Claims Commission, 1910

**Anderson;** lake, Lillooet district, B.C.

After Alexander C. Anderson, Hudson’s Bay Co. officer in charge of Fort Alexandria whose supplies came in by this route.

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Anderson; mount, south of Wheaton river, southern Yukon.  
   After John Anderson, prospector.
Anderson; peak, lat. 49° 07', long. 114° 01', Alberta.  
   After Major S. Anderson, R.E., chief astronomer of the second British Boundary 
   Commission (49th parallel) and also a member of the first British Boundary Commission.
Anderson; point, south entrance point to Washow bay, lake Winnipeg, Man. (Not Albert.)  
   After surveyor's boatman.
Anderson; point, south of Landon bay, Lansdowne township, Leeds county, Ont. (Not Horse 
   Block.)
Anderson. See Henderson.
Anderson Corners; settlement, Huntingdon county, Que. (Not Anderson's Corners.)
Andrew Moor. See Moar.
Anerley; lake, Tp. 28, Rs. 9 and 10, W. 3 M., Sask. (Not Red Deer.)  
Anstey. See Anstey.
Ange Gardien de Rouville. See Canrobert.
Angle; mountain, in angle formed by Seymour arm of Shuswap lake, Kamloops district, B.C. 
   Descriptive.
Angle. See The Vice-President.
Ann; point, east side of Upper Arrow lake, Kootenay, district, B.C. (Not Lone Tree.)
Anne; point, Thurlow township, opposite Massasagua point, Hastings county, Ont.
Annette; lake, Paradise valley, west of mount Lefroy, Alberta.  
   After Mrs. Astley, wife of manager of Lake Louise chalet.
Annie; lake, north of the big bend of Wheaton river, southern Yukon.
Annimwash; bay, northeast end of lake St. Joseph and lake, Patricia district, Ont. (Not 
   Doghole).  
   Indian name meaning "dog-hole."
Anse-à-Beaufils; settlement, Percé township, Gaspe county, Que. (Not L'Anse aux Beaufils.)
Anse-au-Vallon; village, Gaspe county, Que. (Not L'Anse-à-Valleau.)
Anstey; mountain, west of north fork of Illecillewaet river, Selkirk mountains, Kootenay district, 
   B.C.  
   After Col. Anstey, Waverley and Tangier mines.
Anstey; northeast arm of Shuswap lake, Kamloops district, B.C. (Not Anstey.)  
   After F. S. Anstey, settler, 1889.
Anstruther; lake and township, Peterborough county, Ont. (Not Eagle.)  
   After Anstruther, town, Fifeshire, Scotland.
Ant. See Deacon.
Anticline; mountain, west of lake Laberge, Yukon.
Antler; river, tributary to Souri's river, Sask. and Man. (Not South Antler.) 
   Descriptive.
Antonio; point, south point of Maurelle island, Coast district, B.C.  
   After Francisco Antonio Maurelle; see Maurelle.
Anuk; river, tributary to Stikine river from east, Cassiar district, B.C.  
Anvil; mountain, west of Deese river above Cottonwood river, Cassiar district, B.C. 
   Descriptive.
Anwatan; lake, east of Grand lake Victoria, Pontiac county, Que.
Anzhekumming; lake, south of Wabigoon lake, Kenora district, Ont. (Not Upper Manitou.)  
   Indian name, meaning "lying off the straight route."
Apeganau; river, flowing from north into Burntwood river above Threepoint lake, Man. (Not Muddy Water.)

Indian name meaning “hip bones.”

Apika; brook, flowing into head of lake Timiskaming, Que. (Not Abbika.)

Indian name meaning “portage strap.”

Apussigamasi; lake, Burntwood river, Tp. 79, R. 2, W.P.M., Man. (Not Appussigamahsin.)

Aquatuk. See Akwatuk.

Arabella; island, south of Francis island, between Grindstone and Wolfe islands, St. Lawrence river, Frontenac county, Ont. (Not Ambella.)

Arbutus; rock, 1½ miles south of cape Hurd, Bruce county, Ont.

After fishing tug “Arbutus.”

Arbutus. See Saddle.

Arcand; bay, Ottawa river, west of Montebello, Labelle county, Que. (Not Arcans, Cardinal’s, nor Charlebois.)

After settler Arcans. See Arcand.

Archibald; bay, Hudson strait, N.W.T.

After Sir Archibald Geikie, geologist.

Arcola; lake, Tp. 10, R. 3, W.2 M., Sask. (Not Fish.)

After the town of Arcola, which after a village in the province of Verona, Italy.

Arcs; (lac des); lake, expansion of Bow river, Rocky Mountains park, Alberta.

Named by E. Bourgeau, botanist, Palliser expedition, 1859.

Ardoise. See L’Ardoise.

Argenteuil. See Carillon.

Argentine; mountain and glaciers, between North and South branches of Gold river, Selkirk mountains, Kootenay district, B.C.

Descriptive of the silvery effect of the snowfalls and glaciers on its northern flank.

Argonaut; mountain, lat. 51° 47’, long. 118° 19’, Selkirk mountains, Kootenay district. B.C.

Commemorates the gold excitement in the vicinity about 1865.

Argyle; creek, tributary to St. Mary river, Kootenay district, B.C.

Argyle; islands, ½ mile northwest of Burke islands, Bruce county, Ont.

After tug “Argyle.”

Arignole. See Original.

Ark-e-leenik. See Thelon.

Arkell. See Kusawa.

Arlington; lakes and mountain, west of Westkettle river, Similkameen district, B.C.

After mining claim on the mountain.

Arm; islands, Southgate group, Queen Charlotte sound, Coast district, B.C.

Descriptive.

Arm; river, flowing into southern portion of Last Mountain lake, Sask.

Translation of Indian name.

Armit; river, flowing into Red Deer lake, west of lake Winnipegosis, Sask. and Man. (Not Armitt.)

After David Armit, Hudson’s Bay Co. officer.

Armstrong; lake, Redditt township, Kenora district, Ont.

Armstrong. See Downey.

Arnet; island, southwest of Stone island, Clayoquot sound, Vancouver island, B.C.

After Jacob Arnet, lifeboat coxswain, Tofino.
Aroma; lake, Tp. 38, R. 18 W. 3 M., Sask.

    The lake is an alkaline one.

Aroostook; river, tributary to St. John river, New Brunswick and Maine, U.S. (Not Aroostook.)

Arosen; island, Ottawa river, 2 miles above Montebello, Labelle county, Que. (Not Arousan, Rousseau nor Roussin.)

Arostook. See Aroostook.

Arouson. See Arosen.

Arrow; lake and river, tributary to Pigeon river, Thunder Bay district, Ont.

Arrowhead. See Rosebud.

Arrowpark; eereek, tributary to Columbia river from west, below Upper Arrow lake, Kootenay district, B.C. (Not Mosquito.)

    See Upper Arrow.

Arrowsmith; mount, southeast of Alberni, Vancouver island, B.C.

    After Aaron Arrowsmith and his nephew John Arrowsmith, English map makers.

Arthur; village, Victoria county, N.B. (Not Arthurville.)

    Named by Sir Arthur Hamilton Gordon, after the little village in England, eight miles north of Carlisle.

Arthur Seat; a mountain, north of Nahlin river, Cassiar district, B.C. (Not Arthur's.)

    After Arthur Seat, Edinburgh, Scotland.

Arva. See Medway.

Asapikona. See Faucher.

Ascot; village, Ascot township, Sherbrooke county, Que. (Not Ascot Corner.)

    After township erected in 1803; which after Ascot, Berkshire, England.

Ash; lake, Redditt township, Kenora district, Ont.

Ash. See Lynedoch.

Asham; point, west shore of lake Manitou, opposite Peonan point, Man.

    After surveyor's canoe man.

Ashberham; river, flowing through Caribou lake and Little lake St. Francis, into lake St. Francis, Coleraine township, Megantic county, Que. (Not Hallee, Caribou nor Black.)

    On M.S. map, Geological Survey of Canada, 1868; possibly a corruption of Ashburnham.

Ashby; township and lake, Lennox and Addington county, Ont. (Not Island lake.)

    After Ashby de la Zouche, Leicestershire, England.

Ashe; inlet, south shore of Big island, Hudson strait, N.W.T.

    After W. A. Ashe, Hudson Bay expedition, 1884.

Ashe; lake, Tp. 45, Rs. 6 and 7, W. 3 M., Sask.

    After W. A. Ashe, D.I.S.

Asheigamo; lake, east of Kakagi lake, Kenora district, Ont. (Not Bass nor Tasheigama.)

    Indian name, meaning “bass.”

Asheweg; river, flowing northeast from Misamikwah lake into Winisk river, Patricia district, Ont. (Not West Winisk.)

    Indian name meaning “where the pointer shows the way.”

Ashlar; ridge, east of Fiddle river and parallel to Fiddle range, Jasper park, Alberta.

    Descriptive.

Ashnola; river, tributary to Similkameen river, Similkameen district, B.C. (Not Ashnoulou.)

Ashton; point, Douglas channel, Coast district, B.C.

    Named by Joseph Whidbey, R.N., master of Vancouver's ship “Discovery,” who was in this neighbourhood, 1 July, 1793.

Ashuapmuchuan; lake and river, Lake St. John county, Que.

    Indian name meaning “where we watch the deer.”
Asinitchibastat; lake, Chibougamau river, Scott township, Abitibi territory, Que. (Not Asin-itebastat.)

Asipimocasi. See Magusi.

Asippitti; river, flowing from north into Burntwood river below Burntwood lake, Man.

Asiwawanan. See Assiwanan.

Askikwaj. See LaMotte.

Askow. See Bow.

Assiniboine; mount, lat. 50° 56', long. 115° 42', Alberta and Kootenay district, B.C.

Assinika; lake, draining into Broadback river, near height-of-land, Abitibi territory, Que.

Assinkepatakiso; lake, east of Atikwa lake, Kenora district, Ont.

Assiwawan; lake, headwaters of St. Maurice river, Champlain county, Que. (Not Asiwawan.)

Astoria; river, tributary to Athabaska river from southwest, about 7 miles above Jasper park, Alberta.

Atem. See Atim.

Athabaska; lake, Alberta and Saskatchewan. (Not Athabasea.)

Athabaska; mount and glacier, Tp. 37, R. 23, W. 5 M., headwaters of Sunwapta river, Rocky Mountains, Alberta. (Not Athabasca.)

Athabaska; pass, headwaters of Whirlpool river, Alberta, and Cariboo district, B.C. (Not Athabasca.)

Asulkan; brook, falls, glacier, pass and ridge, Selkirk mountains, Kootenay district, B.C.

Atem. See Atim.

Athabaska; lake, Alberta and Saskatchewan. (Not Athabascan.)

Athabaska; river. See Athabaska river.

Athabaska; mount and glacier, Tp. 37, R. 23, W. 5 M., headwaters of Sunwapta river, Rocky Mountains, Alberta. (Not Athabasca.)

Athabaska; pass, headwaters of Whirlpool river, Alberta, and Cariboo district, B.C. (Not Athabasca.)

Asinitchibastat; lake, Chibougamau river, Scott township, Abitibi territory, Que. (Not Asin-itebastat.)

Asipimocasi. See Magusi.

Asippitti; river, flowing from north into Burntwood river below Burntwood lake, Man.

Asiwawanan. See Assiwanan.

Askikwaj. See LaMotte.

Askow. See Bow.

Assiniboine; mount, lat. 50° 56', long. 115° 42', Alberta and Kootenay district, B.C.

Assinika; lake, draining into Broadback river, near height-of-land, Abitibi territory, Que.

Assinkepatakiso; lake, east of Atikwa lake, Kenora district, Ont.

Assiwawan; lake, headwaters of St. Maurice river, Champlain county, Que. (Not Asiwawan.)

Astoria; river, tributary to Athabaska river from southwest, about 7 miles above Jasper park, Alberta.

Atem. See Atim.

Athabaska; lake, Alberta and Saskatchewan. (Not Athabascan.)

Athabaska; river. See Athabaska river.

Athabaska; mount and glacier, Tp. 37, R. 23, W. 5 M., headwaters of Sunwapta river, Rocky Mountains, Alberta. (Not Athabasca.)

Athabaska; pass, headwaters of Whirlpool river, Alberta, and Cariboo district, B.C. (Not Athabasca.)

Asinitchibastat; lake, Chibougamau river, Scott township, Abitibi territory, Que. (Not Asin-itebastat.)

Asipimocasi. See Magusi.

Asippitti; river, flowing from north into Burntwood river below Burntwood lake, Man.

Asiwawanan. See Assiwanan.

Askikwaj. See LaMotte.

Askow. See Bow.

Assiniboine; mount, lat. 50° 56', long. 115° 42', Alberta and Kootenay district, B.C.

Assinika; lake, draining into Broadback river, near height-of-land, Abitibi territory, Que.

Assinkepatakiso; lake, east of Atikwa lake, Kenora district, Ont.

Assiwawan; lake, headwaters of St. Maurice river, Champlain county, Que. (Not Asiwawan.)

Astoria; river, tributary to Athabaska river from southwest, about 7 miles above Jasper park, Alberta.

Atem. See Atim.

Athabaska; lake, Alberta and Saskatchewan. (Not Athabascan.)

Athabaska; river. See Athabaska river.

Athabaska; mount and glacier, Tp. 37, R. 23, W. 5 M., headwaters of Sunwapta river, Rocky Mountains, Alberta. (Not Athabasca.)

Athabaska; pass, headwaters of Whirlpool river, Alberta, and Cariboo district, B.C. (Not Athabasca.)

Asinitchibastat; lake, Chibougamau river, Scott township, Abitibi territory, Que. (Not Asin-itebastat.)

Asipimocasi. See Magusi.

Asippitti; river, flowing from north into Burntwood river below Burntwood lake, Man.

Asiwawanan. See Assiwanan.

Askikwaj. See LaMotte.

Askow. See Bow.

Assiniboine; mount, lat. 50° 56', long. 115° 42', Alberta and Kootenay district, B.C.

Assinika; lake, draining into Broadback river, near height-of-land, Abitibi territory, Que.

Assinkepatakiso; lake, east of Atikwa lake, Kenora district, Ont.

Assiwawan; lake, headwaters of St. Maurice river, Champlain county, Que. (Not Asiwawan.)

Astoria; river, tributary to Athabaska river from southwest, about 7 miles above Jasper park, Alberta.

Atem. See Atim.

Athabaska; lake, Alberta and Saskatchewan. (Not Athabascan.)

Athabaska; river. See Athabaska river.

Athabaska; mount and glacier, Tp. 37, R. 23, W. 5 M., headwaters of Sunwapta river, Rocky Mountains, Alberta. (Not Athabasca.)

Athabaska; pass, headwaters of Whirlpool river, Alberta, and Cariboo district, B.C. (Not Athabasca.)

Asinitchibastat; lake, Chibougamau river, Scott township, Abitibi territory, Que. (Not Asin-itebastat.)

Asipimocasi. See Magusi.

Asippitti; river, flowing from north into Burntwood river below Burntwood lake, Man.

Asiwawanan. See Assiwanan.

Askikwaj. See LaMotte.

Askow. See Bow.

Assiniboine; mount, lat. 50° 56', long. 115° 42', Alberta and Kootenay district, B.C.

Assinika; lake, draining into Broadback river, near height-of-land, Abitibi territory, Que.

Assinkepatakiso; lake, east of Atikwa lake, Kenora district, Ont.

Assiwawan; lake, headwaters of St. Maurice river, Champlain county, Que. (Not Asiwawan.)

Astoria; river, tributary to Athabaska river from southwest, about 7 miles above Jasper park, Alberta.

Atem. See Atim.

Athabaska; lake, Alberta and Saskatchewan. (Not Athabascan.)

Athabaska; river. See Athabaska river.

Athabaska; mount and glacier, Tp. 37, R. 23, W. 5 M., headwaters of Sunwapta river, Rocky Mountains, Alberta. (Not Athabasca.)

Athabaska; pass, headwaters of Whirlpool river, Alberta, and Cariboo district, B.C. (Not Athabasca.)

Asinitchibastat; lake, Chibougamau river, Scott township, Abitibi territory, Que. (Not Asin-itebastat.)

Asipimocasi. See Magusi.

Asippitti; river, flowing from north into Burntwood river below Burntwood lake, Man.

Asiwawanan. See Assiwanan.

Askikwaj. See LaMotte.

Askow. See Bow.

Assiniboine; mount, lat. 50° 56', long. 115° 42', Alberta and Kootenay district, B.C.

Assinika; lake, draining into Broadback river, near height-of-land, Abitibi territory, Que.

Assinkepatakiso; lake, east of Atikwa lake, Kenora district, Ont.

Assiwawan; lake, headwaters of St. Maurice river, Champlain county, Que. (Not Asiwawan.)

Astoria; river, tributary to Athabaska river from southwest, about 7 miles above Jasper park, Alberta.

Atem. See Atim.

Athabaska; lake, Alberta and Saskatchewan. (Not Athabascan.)

Athabaska; river. See Athabaska river.

Athabaska; mount and glacier, Tp. 37, R. 23, W. 5 M., headwaters of Sunwapta river, Rocky Mountains, Alberta. (Not Athabasca.)

Athabaska; pass, headwaters of Whirlpool river, Alberta, and Cariboo district, B.C. (Not Athabasca.)

Asinitchibastat; lake, Chibougamau river, Scott township, Abitibi territory, Que. (Not Asin-itebastat.)

Asipimocasi. See Magusi.

Asippitti; river, flowing from north into Burntwood river below Burntwood lake, Man.

Asiwawanan. See Assiwanan.
Athabaska; town, Athabaska river, Alberta. (Not Athabaska Landing.)
See Athabaska river.

Athalmer; village, Columbia river, below Windermere lake, Kootenay district, B.C. (Not Athelmer.)
Named after Hon. F. W. Aylmer, whose surname is derived from Athalmer.

Athapapuskow; lake, draining through Namew lake into Saskatchewan river, Man. (Not Athapusoow.)
Indian name meaning "rock on both sides."

Athol; bay, Athol township, Prince Edward county, Ont. (Not Little Sandy.)
The township was named after John Murray, 4th Duke of Athol.

Atic-a-make. See Atikameg.

Atik; river, flowing into Migiskan river in Jurier township, Pontiac county, Que. (Not Atikosipi.)
Indian name meaning "deer."

Atikameg; lake, northeast of Pas, Man. (Not Atic-a-make.)
Indian name meaning "whitefish."

Atikamek. See Lamy.

Atikmahik. See Beaudry.

Atikona; lake and river, tributary to Hamilton river, Ashuanipi territory, Que. (Not Atti- konak.)
Montagnais Indian name meaning "caribou lake."

Atikosipi. See Atik.

Atikwa; lake, east of Lobstick bay, Whitefish bay, lake of the Woods, Kenora district, Ont. (Not Deer.)
Indian name meaning "caribou."

Atim; river, flowing into Manuan lake, in Laliberté township, Champlain county, Que. (Not Atem).

Atlin; lake, Cassiar district, B.C. and Yukon.
Indian name meaning "lake of storms."

Atlin; town and mountains, Cassiar district, B.C.
See Atlin lake.

Atocas. See Azatika.

Attawapiskat; lake and river, emptying into James bay, Patricia district, Ont. (Not At-tah- wha-pis-kat, Attawapiscat nor Lansdowne.)

Attikonak. See Atikona; Atikamek.

Attim Segoun. See Iosegun.

Attiti; lake, east of Mirond lakes, eastern Sask.

Aubrey; island, Admiralty group, St. Lawrence river, Leeds county, Ont. (Not Burnt, Dark nor Smoke.)

Augustine; peak, Bishops range, Selkirk mountains, Kootenay district, B.C.
After Augustine, Bishop of Hippo.

Aukpatuk; fishing station, west shore of Ungava bay, New Quebec.
Eekimo name meaning "place of birds."

Aulac; river, emptying into Cumberland basin, Westmorland county, N.B. (Not Au Lac nor Oulac.)
Descriptive French name first applied to a village "at the lake."

Aulnies. See Auneuse.

Auneuse (rivière); river, tributary to St. Lawrence river, Levis County, Que. (Not Aulnes, Gaspé, Girillage, Neux, Nœuds, Viccontent, nor Vitcontent.)
So named on 1842 copy of seigniory plan of 1815.
Ausable; river, emptying into lake Huron between Huron and Lambton counties, Ont. (Not aux Sables nor Sable.) Corruption of French name meaning "sand river."

Austerity; glacier and mountain, Adamant range, Selkirk mountains, Kootenay district, B.C. The mountain is unusually rugged and precipitous.

Austin; lake, Melick township, Kenora district, Ont. Aulaca. See Azatika.

Authier; river, flowing into Chikobi lake in Guyenne township, Timiskaming district, Que. After mayor of Amos.

Ava; inlet, Hudson strait, N.W.T. After Lord Ava, son of Lord Dufferin, killed in South African war.

Avalanche; creek, glacier and mountain, south of railway at summit of Rogers pass, Selkirk mountains, Kootenay district, B.C. Descriptive.


Awillgate; peak and Indian village, east of Hazelton, Cassiar district, B.C. (Not Ahwillgate.)

Awun; lake and river, emptying into Awun bay, Masset inlet from the south, Coast district, B.C. (Not Long nor Owun.)

Axel Heiberg; island, west of Ellesmere island, N.W.T. After Consul Axel Heiberg, one of the patrons of the Sverdrup expedition, 1898–1902.

Axeman; island, Lake Fleet group, St. Lawrence river, Leeds county, Ont. After the Axeman, gunboat on the Great lakes, 1812–14.

Aye; mount, south of mount Assiniboine, Rocky mountains, Alberta, and Kootenay district, B.C.

Ayesha; peak, between mounts Collie and Bäker, Tp. 31, R. 19 W. 5 M., Rocky mountains, Kootenay district, B.C. The crest resembles a beautiful female face.

Aylen; lake, Dickens township, Nipissing district, Ont. (Not Little Opeongo.) After Ottawa family.

Aylmer; lake, Wolfe county, Que. After Matthew, 5th Lord Aylmer (1775–1850), Governor General of Canada, 1831–35.


Aylmer; town, Ottawa county, Que. (Not Aylmer East). See Aylmer lake.

Aylmer; town, Malahide township, Elgin county, Ont. See Aylmer lake.

Aylmer; township, Frontenac county, Que. See Aylmer lake.

Azatika; bay and brook Alfred and Longueuil townships, Prescott county, Ont. (Not Atocas, Autaca, Dez Ameacne, nor Deseticaux.) Indian name meaning"There are poplar trees."

Azimuth; mountain and peak, north of mount Sir Sandford, Selkirk mountains, Kootenay district, B. C. From being used as a survey station.

B

Babb. See Bobb.

Babine; mountain range, lake, and river, tributary to Skeena river, Cassiar and Coast districts, B.C.
Babine was the name applied by North West Co. voyageurs to a sub-tribe of the Carrier Indians on account of the habit of wearing “lip” ornaments.

Bach; mount, Hutshi lakes, southern Yukon.
After Frank Bach, Douglas island; accompanied J. Dalton, 1807.

Bachewanaung. See Batchawana.

Back. See des Prairies.

Backs; river, flowing into Arctic ocean, N.W.T. (Not Thlewewechodezeth nor Great Fish.) After Admiral Sir George Back (1790–1878).

Back’s Western. See Western.

Bacon; cove and point, north shore of Prince Rupert harbour, Coast district, B.C.
After J. H. Bacon, Grand Trunk Pacific Ry. harbour engineer, in charge of the construction of the wharves at Prince Rupert.

Bacon; rock, west of Ridley island, entrance to Prince Rupert harbour, B.C.
See Bacon cove.

Bad. See Bull.

Badesdawa; lake, discharging into Kanuchuan river, tributary to the Attawapiskat, Patricia district, Ont.

Bad Neighbour; rock, entrance to Georgian bay from lake Huron, Bruce county, Ont.
The worst danger in the main channel.

Bad Rice. See Kaiashkomin.

Badshot; mountain, west of Duncan river, Kootenay district, B.C.

Bad Throat. See Manigotagan.

Baffin; island, N.W.T. (Not Baffin Land.)
After Wm. Baffin; died 1622.

Bagheera; mountain, western of two high peaks on north side of Cougar creek, near head, Hermit range, Selkirk mountains, Kootenay district, B.C.

Bagot; island, northeast of Grenadier island, St. Lawrence river, Yonge township, Leeds county, Ont. (Not Narrow nor Rattlesnake.)
After Sir Charles Bagot (1781–1843), Governor General of Canada, 1841–43.

Baguchuan. See Pagwachuan.

Baguah. See Lonely.

Baie-St. Paul; town, Charlevoix county, Que. (Not St. Paul’s Bay.)

Baie Verte; village, Westmorland county, N.B. (Not Bay Verte.)
Descriptive name meaning “green bay,” given by early French settlers, perhaps from the salt-water grasses, which in summer make the bay look like an immense meadow.

Bailey; lake, east of Rowell township, Kenora district, Ont. (Not Edith.)

Bayley; lake, Blake township, Labelle county, Que. (Not Cochon.)

Baillargeon; post office, Lévis county, Que. (Not St. Etienne.)
After Charles Francis Baillargeon, third Roman Catholic bishop of Quebec, 1850-67.

Bain; brook, tributary to Incomappleux river from west, Kootenay district, B.C.

Bain; rock, between Great and Outer Duck islands, Manitoulin district, Ont.
After John Bain, fishing company agent, Duck islands.

Bakado; lake, near height-of-land, south of Separation lake, Kenora district, Ont.

Baker; island, bay of Quinte, east of Trenton, Hastings county, Ont.

Baker; lake and creek, tributary to Bow river from north, above Eldon railway station, Rocky mountains, Alberta.
After prospector on creek.

Baker; mount, Tp. 31. R. 19 W. 5 M., Rocky mountains, Alberta and Kootenay district, B.C.
SESSIONAL PAPER No. 25c

Balache; point, strait of Canso, Inverness county, N.S. (Not Belache, Belhache, McMillan nor Plaster cove.)

After Jersey family, early settlers.

Bald; head, Bald Head island, entrance to Weller bay, Prince Edward county, Ont.

Bald; island, Weller bay, Ameliasburg township, Prince Edward county, Ont.

Bald; mountain, east side of Beaver river, opposite Sir Donald range, Selkirk mountains, Kootenay district, B.C.

Descriptive; known to prospectors and miners as "Old Baldy."

Bald Eagle; lake, Grass river, Tp. 78, Rs. 3 and 4, E.P.M., Man.

Baldur; mount, west of Upper Arrow lake, Kootenay district, B.C.

After Baldur, in Norse mythology, a son of Odin.

Baldwin's. See Lyster.

Balfour; mount, glacier, and pass, west of Hector lake, Rocky Mountains, Alberta and Kootenay district, B.C.

Named by Hector, 1859, probably after John Hutton Balfour (1808-84), botanist.

Ball; lake, expansion of English river at entrance of Wabigoon river, northern boundary of Kenora district, Ont.

After Alfred S. Ball, assistant in 1873 to Dr. Robert Bell, Geological Survey of Canada.

Ballantyne; river and bay, Deschambault lake, Sask.

After Indian family.

Ballenas; channel and islands, strait of Georgia, B.C. (Not Ballinae.)

Named, in 1791, islas de las Ballenas (islands of the whales) by the Spaniards.

Ballinae. See Ballenas.

Balne; lake, east of Pettypiece township, south of Silver lake, Kenora district, Ont.

Baltimore. See Irving.

Bamaji; lake, Cat river, tributary to lake St. Joseph, Patricia district, Ont. (Not Bamajigma nor Cross.)

Banfield; creek, emptying into Barkley sound, Vancouver island, B.C. (Not Bamfield.)

After W. E. Banfield, trader, who came to the coast in H.M.S. Constance, 1846.

Bangail; bay, eastern portion of Pemichangan lake; also lake, Hineks township, Ottawa county Que. (Not Bangall nor Bangatt.)

Name on township plan, 1884-87.

Banks; island, Arctic ocean, N.W.T. (Not Bank's land nor Baring land.)

Named by Parry, 1820 after Sir Joseph Banks (1741-1820).

Banner; hamlet, Oxford North township, Oxford county, Ont.

The settlers thought the locality was the "banner" place in the county which is called the "banner" county.

Bannock burn; a creek, draining into Little Slocan river Kootenay, B.C.

Bannock; point, north end of Upper Arrow lake, Kootenay district, B.C.

Baptist; island, 1 ½ miles southeast of Cape Hurd, harbour, ¾ mile north of island and rock, ¾ mile south of island, Bruce county, Ont.

Baptiste; lake, Herschel township, Hastings county, Ont. (Not Kaijick Manitou.)

After Baptiste Dafoe, Indian chief.

Baptiste; lake and creek, tributary to Athabaska river, above Athabaska, Alberta.

Baptiste; river, tributary to the North Saskatchewan, above Brazau river, Alberta.

Baptiste. See Berland.

Barbara; lake, 12 miles east of head of Piitawabik bay, lake Nipigon, Thunder Bay district Ont. (Not Gull.)

Barber; lake, McGarry township, Timiskaming district, Ont.
Barbour; creek, flowing from mount Brewer into Toby creek, Kootenay district, B.C. (Not Kinbasket.)

   After an "old-timer."

Barbue de St. Césaire. See Barbue.

Barbue; post office, Rouville county, Que. (Not Barbue de St. Césaire.)

Barclay; railway station, Kenora district, Ont.

Bare; point, north of Port Arthur, Thunder Bay district, Ont.

Barge; island, Lake Fleet group, St. Lawrence river, Leeds township, Leeds county, Ont.

   In proximity to "Dinghy," "Gig," "Jolly," and "The Punts" islands, all named after types of boats.

Barham; mount, west of Surprise lake, Cassiar district, B.C.

Baring. See Banks.

Bark; lake, Jones township, Renfrew county, Ont.

Barkley; sound, Vancouver island, B.C. (Not Barlay.)

   Named after himself in 1787 by Captain Charles William Barkley, of the British trading
   ship "Imperial Eagle."

Barnaby; river, and village, Northumberland county, N.B. (Not Barnaby River P.O.)

   The river was named after an Indian who lived on its banks.

Barnard; lake, west of head of Sturgeon lake, Thunder Bay district, Ont.

   After resident.

Barnes; bay, Okisollo channel, Sonora island, Coast district, B.C.

   After 2nd mate of D.G.S. "Quadra," 1902.

Barnes; creek, draining through Whatshan river into Lower Arrow lake, Kootenay district, B.C.

Barney; river, Pictou county, N.S. (Not Barney's.)

   After Barney McGee, pioneer settler.

Barney River; hamlet, Pictou county, N.S. (Not Barney's River.)

   See Barney.

Barnston; lake, English river, below lac Seul, Kenora district, Ont. (Not Sandbar.)

   After Alexander Barnston, B.A., one of the assistants, 1872, to Dr. R. Bell, Geological
   Survey of Canada.

Barnston. See Lyster.

Barrel. See Keg.

Barren; brook, flowing into Osbourne bay, Eagle lake, Kenora district, Ont.

Barrès; lake, Quebec county, Que. (Not Little Metasecoua.)

   After Maurice Barrès, member of the French Academy.

Barrett; bay, Wolfe island, Frontenac county, Ont. (Not Ferguson.)

   After George F. Barrett, landowner.

Barrett; ledges, east side of Brandypot channel, St. Lawrence river, Kamouraska county, Que.

Barrett; reef, 5½ miles south southeast of Lyal Island light, Stokes bay, Bruce county, Ont.

   After member of crew of steamer "Bayfield,"

Barrett; rock, entrance to Prince Rupert harbour, Coast district, B.C.

   After coxsaw, hydrographic survey, 1906.

Barrette; lake, Methuen township, Peterborough county, Ont.

Barrie; beach, east entrance to Halifax harbour, Halifax county, N.S. (Not Stony.)

Barrie; lake, Redditt township, Kenora district, Ont.

Barrière (lac); lake, expansion of upper Ottawa river, Pontiac county, Que.

Barrington; lake, northwest of Kawawoeogama lake, Thunder Bay district, Ont.

Barrington; town, east side of Barrington bay, near its head, Shelburne county, N.S.

   After 2nd Viscount Barrington (1717-1793), Secretary of War, 1755-61, and 1765-78.)
SESSIONAL PAPER No. 25c

Barrington Passage; village, west side of Barrington bay, at the narrows, Shelburne county, N.S. (Not West Passage.)
See Barrington.

Barron; river, tributary to Petawawa river, Renfrew county, Ont. (Not South branch of Petawawa nor South Petawawa.)
After Barron township, Nipissing where it heads; the township is named after Hon. John Augustus Barron, judge of the County Court, Perth, Ont.

Bartibog; post office and river, Northumberland county, N.B. (Not Bartibogue.)

Barwell; mount, Tp. 21, R. 5, W. 5 M., Alberta.
After C. S. W. Barwell, D.L.S., assistant on survey.


Basketong; lake, river, tributary to Gatineau river, township and village, Ottawa county, Que Indian name meaning "where the water is contracted by sand."

Basket; lake, south of Minnitake lake, discharging into English river through Kukukus lake, Kenora district, Ont.

Bason. See Bouleau.

Basqua. See Pasquia.

Bass; islands (5), Admiralty group, St. Lawrence river, Leeds county, Ont. (Not Seven Pines.)

Bass. See Asheigamo.

Bass. See Cassidy.

Bass. See Jacob.

Basswood; lake, international boundary, Rainy River district, Ont. (Not Whitewood.)
Descriptive of timber on its shores.

Bastion; island, southern portion of Atlin lake, Cassiar district, B.C.

Bastion; mountains, north of Salmon arm, Shuswap lake, Kamloops district, B.C.
Descriptive.

Batchawana; bay, island, river and village, lake Superior, Algoma district, Ont. (Not Batchewanauneg nor Batchewana.)

Bat; glacier and creek, tributary to Bow river, above Lake Louise railway station, Alberta.
(Not Noores.)
The name originated on 20 July, 1881, when Major Rogers of the Canadian Pacific Ry. engineering staff, took an accidental "bat" by being thrown from his horse into the stream.

Batting. See Royal.

Bathurst; island, Arctic Ocean, N.W.T.
Named by Parry, 1819, after Henry, 3rd Earl of Bathurst (1762-1834).

Battersby; island, Broek group, St. Lawrence river, Leeds county, Ont. (Not Burntstone.)
Probably after Lt.-Col. F. Battersby, who, on 6 Feb., 1812, was in command of the Glengarry Light Infantry.

Battle; brook, tributary to Incomappleux river, Kootenay district, B.C.
From a fight between a grizzly and George Ritchie, a prospector.

Battle; mountain, west of Alexis creek, at its confluence with Chilcotin river, Cariboo district, B.C.
After legendary Indian battle.

Battle; lake, Alberta, and river, flowing into the North Saskatchewan at Battleford, Alberta and Sask.
From the number of battles on its banks between the Cree and Blackfoot Indians.

Battle. See Notikewin.

Battleford; town, Sask.
After the "ford" of Battle river, which see.
Baudet; river, Glengarry county, Ont., and Soulanges county, Quebec, also post village, Soulanges county, Que. (Not Beaudet, Bodet, nor Beaudette.)

So spelled in 1692 in a missionary report where references made to “pointe à Baudet.”

Bauerman; mount, lat. 40° 07', long. 114° 07', Alberta.

After H. Banerman, geologist, British Boundary Commission, Pacific to the Rockies.

Baumgardt; island, St. Lawrence river, Landon bay, Lansdowne township, Leeds county, Ont. Capt. W. A. Baumgardt, R.N., commanded the Lake Champlain fleet on 1 May, 1816.

Baxter; river, emptying into southeast corner of Waswanipi lake, Abitibi territory.

Baxter Harbour; hamlet, Kings county, N.S. (Not Baxter’s Harbour.) After a Dr. Wm. Baxter, who lived here about 100 years ago.

Bayfield; bay, Wolfe island, Frontenac county, Ont. (Not Big.)

After Lieutenant (later Admiral) Henry Wolsey Bayfield, engaged on naval survey work upon the Great lakes between 1815 and 1823.

Bayfield; island, entrance to Bayfield bay, Wolfe island, Frontenac county, Ont. (Not Mud.)

Bayfield; river and town, 12 miles south of Goderich, Huron county, Ont. See Bayfield; bay.

Bayfield; shoal, west of Abraham head, Wolfe island, Frontenac county, Ont. (Not Bolivia.)

Bayley; bay, east end of Basswood lake, international boundary, Rainy River district, Ont.

Baynes. See Maxwell.

Bays; lake of, Muskoka district, Ont.

Descriptive.

Bayside; hamlet, Sidney township, Hastings county, Ont.

Descriptive.

Bay Verte. See Baie-Verte.

Beaman; bay, south of Sidney, southeast coast of Vancouver island, B.C.

Beach; point, Fitzwilliam island, two miles east of Hungerford point, Manitoulin island, Manitoulin district, Ont.

The northeast termination of long stony beach.

Beacon. See Inukshuktuj'uk.

Beament; island, 21 miles northwest of Burke island, Lake Huron, Bruce county, Ont.

Bear; river, Annapolis and Digby counties, N.S. (Not Hébert.) Louis Hébert, the apothecary, accompanied Champlain in 1604; rivière Hébert in Lescarbot’s “Histoire de la Nouvelle France, 1612.”

Bear; river, flowing into upper end of Portland canal, Cassiar district, B.C.

Bear. See Darlens.

Bear. See Deschambault.

Bear. See Great Bear.

Bear. See Kelsall.

Bear. See Lorrain.

Bear. See McCulloch.

Bear. See Mansfield.

Bear. See Maskwa.

Bear. See Mistaya.

Bear. See Morin.

Bear. See Suskwa.

Bear. See Wapaweekka.

Bearbrook; hamlet, Cumberland township, Russell county, Ont. (Not Bear Brook.)

Bear-grease; river, tributary to upper Ottawa river, Montcalm county, Que.
Bear River; post office, Digby county, N.S.
   See Bear river.

Beaton; mount, great bend of Tatshenshini river, Cassiar district, B.C. and Yukon.

Beatrice; cape, east side of Lower Arrow lake, Kootenay district, B.C. (Not Horn.)
   After daughter of Captain Gaudin, agent of Marine Department.

Beatrice; lake, east of head of Lower Arrow lake, Kootenay district, B.C.

Beatty; point, upper portion of Prince Rupert harbour, Coast district, B.C.

Beaubien; lake, east of Silver lake, east of Pettypiece township, Kenora district, Ont.

Beauchamp; lake, Figuery, Trécesson, and Villemontel townships, Timiskaming county, Que.
   (Not Spirit.)
   After the curé of St. Bruno, Guignes township.

Beaudet. See Baudet.

Beaudry; lake, Beaumesnil township, Timiskaming county, Que. (Not Atikmahik.)
   After Rev. Father Beaudry, missionary.

Beaufils (anse à); bay, Percé township, Gaspe county, Que. (Not Bonfils.)

Beaumont; harbour, Baffin island, north of Big island, Hudson strait, N.W.T.

Beaupré; creek, tributary to Bow river from north, about 2½ miles west of Mitford railway station, Alberta.
   After settler.

Beaurivage; island, Admiralty group, St. Lawrence, river, Leeds county, Ont. (Not Buck's)

Beaver; creek, flowing across the international boundary into White river, Yukon.

Beaver; lake, south of Atlin lake, Cassiar district, B.C.

Beaver; mountain, glacier, and river, tributary to Columbia river, Kootenay district, B.C.
   Descriptive.

Beaver; river, tributary to Churchill river, Alberta and Sask.
   On David Thompson's map, 1813–14.

Beaver. See Beaverdell.

Beaver. See Beaverhill.

Beaver. See McFarlane.

Beaverdam. See Castor.

Beaver-dam. See Wuskwatim.

Beaverdell; village and creek tributary to Westkettle river, Similkameen district, B.C. (Not Beaver.)
   The village was known at one time as Rendell; Beaverton was the descriptive name of an abandoned townsite; Beaverdell is a combination of the two names.

Beaverfoot; river, tributary to Kicking Horse river from south, near Leanchoil railway station and mountains, west of river, Kootenay district, B.C.

Beaverhill; lake and creek, east of Edmonton, Alberta. (Not Beaver.)
   Translation of Indian name.

Beaverhouse; lake, McVittie township, Timiskaming district, Ont.

Beaverhouse; lake, southwest of Eagle lake, Kenora district, Ont.

Beaverlodge; river, tributary to Wapiti river, west of Grande Prairie, Alberta. (Not Beaver Lodge.)

Beavertail. See Amiskwi.

Becaguimec; river, tributary to St. John river, York and Carleton counties, N.B. (Not Beceaguimec nor Peckagomique.)
   Maliseet Indian name meaning “salmon-bed.”
Bécancoeur; lake, Thetford township, Megantic county, Que.

Becher; bay, south coast of Vancouver island, B.C. (Not Beecher.)
   After Commander A. B. Becher (1796–1876), well-known surveying officer.

Beck; island, west of Stone island, Clayoquot sound, Vancouver island, B.C.
   After James Beck, owner.

Becker; creek, tributary to Wheaton river, southern Yukon.
   After prospector.

Beckington; lake, northeast of head of Sturgeon lake, Thunder Bay district, Ont.

Becroft; point, extremity of southeast boundary of Weller bay, Prince Edward county, Ont.
   After resident of Consecon, Ont.

Beddingfield. See Malahat.

Bedford; harbour, Hudson strait, N.W.T.

Bedlington; railway station, international boundary, Kootenay district, B.C. (Not Rykerts.)

Bee; peak, south of Graham inlet, Taku arm, Tagish lake, Cassiar district, B.C.

Beecher. See Becher.

Beechey; head, south coast of Vancouver island, B.C.
   After Captain F. W. Beechey, R.N. (1796–1856), Arctic navigator and geographer.

Beech Hill; post office, Albert county, N.B.
   Descriptive.

Beechridge; village, Argenteuil county, Que. (Not Beech Ridge.)
   Descriptive.

Beechwood; village, Carleton county, N.B. (Not Bumfrau.)
   Descriptive.

Beeghados. See Pachena.

Beehive; mountain, southwest corner of Tp. 13, R. 5, W. 5 M., Alberta.
   Descriptive of outline.

Beekman; peninsula, south of entrance to Cumberland sound, Baffin island, N.W.T.
   Named by Hall, 1862, after James W. Beekman, New York.

Begbie; mount, west of Columbia river, south of Revelstoke, Kootenay district, B.C.
   After Sir Mathew Begbie, first Chief Justice of British Columbia.

Behrman; creek; tributary to Howser creek, Duncan river, Kootenay district, B.C. (Not Clear.)
   After Charles Behrman, Kaslo, B.C.

Belabourer; island, Lake Fleet group, St. Lawrence river, Leeds county, Ont.
   After a gunboat on the St. Lawrence, 1812-14.

Belache. See Balache.

Bela Kula. See Bellakula.

Belanger; bay and point, west of bay, Manitoulin island, 3 miles east of Greene island, Manitoulin district, Ont. (Not West Belanger.)

Bélanger; hamlet, Laval county, Que. (Not Village Bélanger.)

Bélanger; river, flowing from east into lake Winnipeg, Man. (Not Black nor Little Black.)
   After Horace Bélanger, chief factor, Hudson's Bay Co.

Belas. See Lepreau.

Belcher; mount, Saltspring island, southeast coast of Vancouver island, B.C.
   After Captain (later Admiral) Sir Edward Belcher (1799-1877), surveying officer and Arctic explorer.

Belcher; reef, outermost of three reefs west of Port Elgin, Bruce county, Ont.
   After resident, Southampton.

Belhache. See Balache.
Beliveau. See Belliveau.

Bell; mount, south of Wheaton river, southern Yukon.
   After W. A. Bell, assistant on survey.

Bell; river, flowing from the height-of-land north of Grand lake Victoria into Mattagami lake, Timiskaming county and Abitibi territory, Que.
   Named after himself by Dr. Robert Bell, Geological Survey of Canada who explored the river in 1896.

Bellabella; settlement, Campbell island, Coast district, B.C. (Not Bella Bella.)
   An Indian corruption of Millbank.

Bellakula; river and settlement, Coast district, B.C. (Not Bela Kula nor Bella Coola.)
   After an Indian tribe; the name given them by the Kwakiutl.

Bellamy; village, Elizabethtown township, Leeds county, Ont. (Not Bellamy's.)
   Probably after Samuel J. Bellamy, early settler.

Belleville; river, flowing from Robertson lakes to Makamik lake, Privat, Languedoc and Royal-Roussillon townships, Timiskaming county, Que. (Not Kakamegonan.)
   After Sulpician missionary to Lake Abitibi Mission in 1837.

Belle-Vallée; village, St. Johns county, Que. (Not Belle Vallée nor Bellevalle.)
   French name meaning "beautiful valley."

Bellevue. See Belliveau.

Bell-Irving; river, tributary to Nass river, about lat 56° 15', long. 129°, Cassiar district, B.C. (Not North fork of Nass.)
   After Lieut. D. P. Bell-Irving, Vancouver, who explored the upper Nass river; killed in action in Belgium.

Belliveau; cove and village, Digby county, N.S. (Not Belliveau Cove nor Belliveau Cove.)
   After Belliveau family.

Belliveau; creek, tributary to Petitecodiac river, Westmorland county, N.B. (Not Belle Vue nor Boyd.)
   See Belliveau village.

Belliveau; village, Westmorland county, N.B. (Not Belliveau.)
   After Joseph Belliveau, early settler who lived to the age of 110 years.

Bel's Corners; village, Nepean township, Carleton county, Ont. (Not Bell's Corners.)

Belly; river, flowing from Montana into Oldman river, near old fort Kipp, above Lethbridge, Alberta.
   After the Atsina, a branch of the Arapaho; their tribal sign was incorrectly rendered "belly people" or "big bellies"; the "Gros Ventres of the French Canadians."

Belly. See Mokowan.

Belmina; village, Wolfestown township, Wolfe county, Que.
   After the "Bell" asbestos "mine."

Belœil. See St. Hilaire.

Benabel; creek, tributary to Dutch creek, 20 miles from its mouth, Kootenay district, B.C. (Not North fork of Dutch.)
   After Ben Abel, prospector.

Bending; lake, near head of Turtle river, tributary to Rainy lake, Kenora district, Ont.
   Translation of Indian name.

Bendor; mountains, between Cadwallader and McGillivray creeks and Bridge river, Lillooet district, B.C. (Not Bend'or nor Lorne.)
   After adjacent mine.

Benlar. See Stukely.

Bennett; lake, B.C. and Yukon.
   Named by Schwatka, 1883, after James Gordon Bennett, New York.
DEPARTMENT OF THE INTERIOR

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Bennett; mount, northwest of Stupart bay, Hudson strait, New Quebec territory, Que.

Benson; lake, Skead township, Timiskaming district, Ont.

Benson; mount, west of Nanaimo, Vancouver island, B.C.
   After Dr. A. R. Benson, M.D., Hudson's Bay Co., 1857-02.

Benson; point, west entrance to Roberts bay, Manitoulin island, Manitoulin district, Ont.
   After schooner Benson.

Bent; lake, southeast of Schist lake, Kenora district, Ont.

(Bent; lake, southeast of Schist lake, Kenora district, Ont. (Not Rent.)
   Descriptive.

Bentinck; island, south end of Vancouver island, B.C.

Bergheim; settlement, Tp. 37, R. 3, W. 3 M., Sask.
   Descriptive; meaning "hill home."

Berland; river, tributary to Athabaska river in Tp. 58, R. 21, W. 5 M. Alberta. (Not Baptiste.)
   After Baptiste Berland (De Smet, 1846); name given by Geographic Board to replace duplicate name.

Bern; creek, tributary to Black river, international boundary, Yukon.

Bernard; lake, south of Bennett lake, Cassiar district, B.C.

Berney; creek, tributary to Wheaton river, southern Yukon.
   After Adam Berney, prospector.

Berry; lake, north of Lobstick bay, Kenora district, Ont.

Berrys Mills; village, Westmorland county, N.B. (Not Berry’s Mills, nor Berry Mill Station.)
   After Tingley Berry, first miller; died about 1909.

Bersimis; point, river, and village, about 72 miles below Tadoussac, Saguenay county, Que.
   (Not Betsiamits.)
   Indian name meaning "place of lampreys."

Bertha; lake, east of mount Alderson, southern Alberta.

Best. See Hatton.

Betsiamits. See Bersimis.

Biart; lake, near head of Briand river, Biart township, Quebec county, Que. (Not Kamilikamat.)

Biddle; mount, southeast of McArthur lake, Tp. 27, R. 17, W. 5 M., Rocky mountains, Kootenay district, B.C.
   After M. Biddle, who climbed mount Sir Donald, 1902.

Biddle; pass, between mount Biddle and Park mountain, Yoho park, Rocky mountains, B.C.
   See Biddle mount.

Bident; mountain, south portion of Tp. 27, R. 16, W. 5 M., Alberta and Kootenay district, B.C.
   From its two peaks.

Big; bay and island, bay of Quinte, Prince Edward county, Ont.
   Descriptive.

Big. See Alexander.

Big. See Bayfield.

Big. See Black.

Big. See Dumoine.

Big. See Edgett.

Big. See Fort George.

Big. See Hecla.
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Big. See Koksoak.
Big. See Merigomish.
Big. See Miminegash.
Big. See Skelton.
Big. See Wilton.
Big Bear. See Makobe.
Big Black. See Hecla.
Big Cutarm. See Cutarm.
Big Egg. See Missawawi.
Bigelow; island, Weller bay, Prince Edward county, Ont.
Bighill; creek, tributary to Bow river from north, west of Cochrane railway station, Alberta.
Bighorn; mountain range, extending from Brazeau river to the North Saskatchewan, also river tributary to the North Saskatchewan, Alberta. (Not Big Horn nor Big-horn.) Indian hunting ground.
Big Knife; portage, between Seed and Melon lakes, international boundary, Rainy River district, Ont.
Big Loran. See Lorenbee.
Big Lorraine. See Lorenbee.
Big Obashing. See Obashing.
Big Otter; creek, flowing into lake Erie, at Port Burwell, Elgin county, Ont. (Not Otter.)
Big Otter Creek. See Port Burwell.
Big Port l'Hebert. See Port Hebert.
Big Quill. See Quill.
Big Reed. See Kiskittogisu.
Big Rock. See Inukshigaluk.
Big Rouge. See Rouge.
Big Saanich. See Wark.
Big Salmon; river, tributary to Lewes river, Yukon.
Big Sandy. See Wellington.
Biggsby; island, south of Dokis island, entrance to Key harbour, Georgian bay, Parry Sound district, Ont.
Big Stave. See Stave.
Big Sturgeon. See Torch.
Big Thrumcap; island, entrance to Halifax harbour, Halifax county, N.S.
    See Thrumcap.
Billings; mount, lat. 61° 15', long. 128° 50', Logan range, Yukon.
    After Elkanah Billings (1820-76), paleontologist, Geological and Natural History Survey of Canada.
Billtown; settlement, Kings county, N.S. (Not Bill Town.)
    After William C. Bill, early settler.
Binbrook; township and village, Wentworth county, Ontario. (Not Binbrooke.)
    After Binbrook, village, Lincolnshire, England.
Bingay; creek, tributary to Elk river from west, Kootenay district, B.C.
    After Canadian Pacific Ry. employee.
Bingham; island, St. Lawrence river, Lansdowne township, Leeds county, Ont. (Not Bingham.)
    Name on Captain W. F. Owen's chart, 1818.
**Birch**; brook and lake, two miles above entrance of Manasan river, Burntwood river, Man.

**Birch**; lake, between Basswood and Carp lakes, international boundary, Rainy River district, Ont.

**Birch**; point, 2 miles west of South Baymouth, Manitoulin island, Manitoulin district, Ont.

**Birch**. See Dozois.

**Birch**. See Evelyn.

**Birch**. See Wigwasikak.

**Birchbark**; lake, between Basswood and Carp lakes, international boundary, Rainy River district, Ont.

**Bird**. See Dozois.

**Bird**. See Evelyn.

**Bird**. See Wigwasikak.

**Birds Hill**; village, northeast of Winnipeg, Man. (Not Bird's Hill).

After Dr. J. Curtis Bird, M.D., member of the first Provincial Legislature of Manitoba; died in England, 1876.

**Birdtail**; creek, tributary to Assiniboine river, Man.

**Birkby**; point, northwest point of Greaves island, Smith sound, Coast district, B.C. (Not Birkly.)

After Birkby Nab, farm house, Yorkshire, England.

**Birkenhead**; river, flowing from north into Lillooet river, above Lillooet lake, B.C.

Named by Hudson's Bay Co. officials after the "Birkenhead", which went down in 1852; 400 lives were lost.

**Birkly**. See Birkby.

**Birtle**; town, Birdtail creek, tributary to Assiniboine river, Man.

Shortened form of Birdtail.

**Bisby**; lake and river, Megantic and Wolfe counties, Que.

**Bisel**; mount, west of Nordenskiöld river, Yukon.

After member of Dalton party, 1897.

**Bishop**; cove, opposite Gribbell island, Coast district, B.C.

**Bishop**; hamlet, Oxford township, Grenville county, Ont. (Not Bishop's Mills.)

After Ira and Chauncey Bishop, who built and operated mills about 1842.

**Bishop**; island, head of Frobisher bay, Baffin island, N.W.T.

Named by Hall, 1861, after R. M. Bishop, Cincinnati.

**Bishop**; island, entrance to Prince Rupert harbour, opposite south end of Kaien island, Coast district, B.C.


**Bishop Roggan**. See Roggan.

**Bishop's Mills**. See Bishop.

**Biskotasi**; lake, headwaters of Spanish river, Sudbury district, Ont. (Not Biscotasing.)

**Bismarck**; hamlet, Lincoln county, Ont. (Not Bismark.)

After Prince Bismarck (1815-98), Prussian statesman.

**Bismarck**; settlement, Tp. 43, R. 27 W. 4 M. Alberta. (Not Bismark.)

Named by German settlers.

**Bitter Root**. See Pend-d'Oreille.

**Bizard**; island, St. Lawrence river, Jacques-Cartier county, Que.

Granted 1678 to Jacques Bizard, major of Montreal.

**Bjärre**; rock, Okisollo channel, north of Chonat point Quadra island, Coast district, B.C.

After master of tug-boat frequenting Okisollo channel.

**Björk**; lake, Tp. 43, R. 11 W. 2 M., Sask.

Swedish name meaning "birch."
Black; creek, tributary to Sloko river, Cassiar district, B.C.
   After Jack Black, pioneer gold-miner.

Black; island, opposite mouth of Wanipigow river, lake Winnipeg, Man. (Not Big nor Grand.)

Black; lake, Megantic county, Que.
   Descriptive.

Black. See Ashberham.

Black. See Belanger.

Black. See Blackwater.

Black. See Garry.

Black. See Raisin.

Black Bird. See Seggemak.

Black Charlie. See Sheaffe.

Black Duck Run. See Harbour.

Blackfeet. See Acheninni.

Blackfish; bay, Radcliffe township, Renfrew County, Ont.

Blackfoot; coulee and hills, north of Battle river, eastern Alberta.
   The Indian name is "Five Blackfoot hills," five Blackfoot Indians having been killed on the top of the hill by Crees.

Blackfox; bend, Pelly river, above Ketza river, Yukon.

Blackfriars; peaks (2) southwest of Adamant mountain, Selkirk mountains, Kootenay district, B.C.
   Descriptive.

Blackheath; hamlet, Binbrook township, Wentworth county, Ont. (Not Black Heath.)

Black Iron. See Blackstone.

Black Lake; village, Ireland township, Megantic county, Que.
   See Black lake.

Blackney; passage, between Hanson, Cracroft, and Harbledown islands, Broughton strait, Coast district, B.C. (Not Blakeney.)
   After William Blackney, who afterwards changed his name to Blakeney, paymaster, R.N.; on Pacific station, 1863-65.

Blacks; point, 3 miles south of Goderich, Huron county, Ont.
   After Peter Black, who bought the land from the Canada Company in 1831.

Blackstone; lake, Cat river, near its outfall into lake St. Joseph, Patricia district, Ont. (Not Black Iron.)

Blackstone; river, tributary to Brazeau river, Alberta. (Not South branch of Brazeau.)
   Descriptive.

Black Sturgeon; bay, lake, and river, lake Nipigon, Thunder Bay district, Ont.

Blackwater; mountain, range, lake, and creek, tributary to Columbia river from north, below Donald railway station, Rocky mountains, Kootenay district, B.C.
   Descriptive of water in lake.

Blackwater; river, tributary to Fraser river from west, above Quesnel, Coast and Cariboo districts, B.C. (Not Black nor West Road.)
   Descriptive.

Blackwell; railway station, Sarnia township, Lambton county, Ont. (Not Blackwall.)

Blueberry; river, tributary to Columbia river, from east, between Donald and Moberly stations, Kootenay district, B.C. (Not Blueberry.)
   After blueberries on its banks.
Blaine; lake, Tp. 44, R. 7 W 3 M. Sask.
Blake; point, southeast point of Western Duck island, Manitoulin district, Ont. (Not Stony.)
   After schooner Edward Blake, wrecked on Duck islands, 1898.
Blakeney. See Blackney.
Blakiston; brook, flowing into Waterton lakes, southern Alberta. (Not Kootanee nor Pass.)
   After Lieut. Thomas Blakiston, R.A., astronomer, Capt. Palliser's Expedition, 1857; examined
   the North Kootenay and South Kootenay passes; quarrelled with Palliser and made
   an independent report.
   See Blakiston brook.
Blanchard; river, tributary to Tatshenshini river, Cassiar district, B.C. and Yukon.
   After G. Blanchard Dodge, on British Columbia-Yukon Boundary survey, 1908.
Blanchard. See Blanshard.
Blanche; river, emptying into the head of lake Timiskaming, Timiskaming district, Ont.
Blanche. See Bull.
Blandford; bay, Hudson strait, N.W.T.
   After Hon. Capt. Blandford, St. Johns, Newfoundland; spent several seasons about
   cape Chidley.
Blanshard; mount, southeast of Pitt lake, New Westminster district, B.C. (Not Blanchard
   nor The Golden Ears.)
   After Richard Blanshard, governor of Vancouver island, 1850-51.
Blues (pointe); point, west shore of lake St. John, Lake St. John county, Que.
Blind. See Chematogan.
Blind. See Coldwater.
Blinkhorn; mount, west of Parry bay, Vancouver island, B.C.
   After settler.
Bloodletter; island, Lake Fleet group, St. Lawrence river, Leeds county, Ont.
   After a gunboat on the St. Lawrence, 1812-14.
Bloodvein; river, flowing from east into lake Winnipeg, Man. (Not Blood Vein.)
   From the red veins in the granite of its bed.
Bloomfield; island, south of Grenadier island, St. Lawrence river, Escott township, Leeds
   county, Ont. (Not Snake.)
Blouin; lake, Bourlamaque and Senneville townships, Timiskaming county, Que. (Not Paki-
   tanika.)
   After Alphonse Blouin, who surveyed the vicinity in 1906.
Blue; ridge, between Kaslo river and Kootenay lake, Kootenay district, B.C.
Blue; river, tributary to Dease river above confluence with Liard river, Cassiar district, B.C.
   Descriptive.
Blue. See Brandon.
Blue. See Harris.
Blueberry. See Blueberry.
Blueberry. See Mennin.
Blue Grouse; creek, tributary to Caribou creek, Kootenay district, B.C.
Blue Jay; creek, flowing into Michael bay, Tehkummah township, Manitoulin island, Mani-
   toulin district, Ont.
Bluff. See De Rottenburg.
Bluff. See O'Neil.
Bluff. See Yeo.
Bluff; island, Admiralty group, St. Lawrence river, Leeds county, Ont.
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Bluff; mountain, north of Frank railway station, southwestern Alberta.

Bluff; mountain, west of Sooke river, south coast of Vancouver island, B.C.

Bluffy; lake Wenasaga river, tributary to lac Seul, Patricia district, Ont. (Not Kah-mini-ti-gwa-quiak.)

Translation of Indian name.

Blunter. See Upper Rock.


Bobb; creek, flowing from southwest into Bridge river, Lillooet district, B.C. (Not Babb.) After rancher.

Bobbie Burns; creek, tributary to Spillimacheen river, Kootenay district, B.C. (Not Middle fork of Spillimacheen.) After the Bobbie Burns mine.

Bobbie Burns; mount, west of south end of Mabel lake, Osoyoos district, B.C.

Bobtail. See Naltesby.

Bodega; point, west coast of Quadra island, Coast district, B.C. After Captain Juan Francisco de la Bodega y Quadra; see Quadra.

Bodet. See Baudet.

Bolger; lake, Burleigh township, Peterborough county, Ont. (Not Bolger’s.) After F. Bolger, Ontario land surveyor.

Bolivia. See Bayfield.

Bonald; lake, Churchill river, below Sisipuk lake, Man. (Not Moose.) After Father Bonald, O.M.I.

Bonanza; creek, tributary to Klondike river at Dawson, Yukon.

Bonanza; creek, flowing into north end of Slocan lake, Kootenay district, B.C.

Bond-Head; village, Gwillimbury West township, Simcoe county, Ont. (Not Bondhead.) Named in 1837 after Sir Francis Bond Head (1793-1875), Lt.-Governor of Upper Canada, 1835-37.

Bonfils. See Beaufils.

Bongard; settlement, Marysburgh North township, Prince Edward county, Ont. (Not Bongard’s Corners.) After John D. Bongard, sometime postmaster.

Bonnet; island, northwest of Flatland island, Thunder Bay district, Ont. (Not Reef.)

Bonney; island, north shore of Hudson strait, N.W.T.

After Prof. T. G. Bonney, geologist.

Bonney; mount, glacier and nèvé, head of Loop brook, Selkirk mountains, Kootenay district, B.C. Named by W. S. Green, 1888, after Prof. T. G. Bonney, geologist, then president of the Alpine Club, London, England.

Boofus; mount, north of Gladys lake, Cassiar district, B.C.

Boom; lake and mountain, near interprovincial boundary, west of Castle railway station, Alberta. Driftwood in the lake resembled a lumberman’s boom.

Boom; point, south point of Cockburn island, Manitoulin district, Ont.

Booth; bay, Stuart channel, Saltspring island, southeast coast of Vancouver island, B.C.

Booth; creek, tributary to St. Mary river, Kootenay district, B.C.

Bor; peak, Valhalla mountains, west of Slocan lake, Kootenay district, B.C.

Bord à Plouffe. See Abord-à-Plouffe.
Borden; glacier, foot of mount Sir Robert, Coast district, B.C.

Borden; point, Northumberland strait, P.E.I. (Not Carleton.)
See Borden glacier.

Bosanquet; harbour, Big island, Hudson strait, N.W.T.

Boshkung; lake, Stanhope township, Haliburton county, Ont.

Boss Dick. See Yorke.

Boswell; mount and river, Teslin river, Yukon.
After two miners, brothers; in 1887 T. Boswell prospected the Teslin river.

Boswell; mount, lat. 49° 0' 50", long, 113° 52', Alberta.
After Mr. Boswell, veterinary surgeon, British Boundary Commission, Lake of the Woods to the Rockies.

Bosworth; mount, northwest of Stephen station, Kootenay district, B.C.
After G. M. Bosworth, 4th vice president, Canadian Pacific Ry.

Botsford; lake, northeast of Minnitaki lake, Kenora district, Ont.

Bottle; portage, between Iron and La Croix lakes, international boundary, Rainy River district, Ont.

Bouché (havre); harbour, near northwest entrance to strait of Canso, Antigonish county, N.S.
(Not Bouche nor Boucher.)
French name meaning "closed harbour," the expanse of the harbour cannot be seen until the curved entrance is passed through.

Bouchette; lake, at meeting of Kamachigama and Ottawa rivers, Montcalm county, Que.

Bouchier; island, Navy group, St. Lawrence river, Leeds county, Ont. (Not Bouchie.)
Capt. Wm. Bouchier, R.N., commanded the lake Erie fleet, on 1 May, 1816.

Bouckhill; hamlet, Williamsburgh township, Dundas county, Ont. (Not Bouck's Hill.)
After David E. Bouck, early settler.

Boughton; bay, island, point and river, Kings county, P.E.I. (Not Grand).
Probably after George (Brudenell afterwards Montague) 4th Earl of Cardigan and first Baron Montague of Boughton.

Boularderie; island, Victoria and Cape Breton counties, N.S. (Not Boulardine nor Boulardarie.)
After de la Boularderie, first owner of island; taken prisoner at Louisburg in 1745.

Boulder; creek, tributary to Kicking Horse river from east, above Ottertail river, Kootenay district, B.C.
Descriptive.

Boulder. See Nares.

Boulder. See Opabin.

Boulder. See Osipasinni.

Boulder. See Sharpe.

Boulder. See Slade.

Boule (roche); a mountain, west of Brulé lake, Jasper park, Rocky mountains, Alberta. (Not Bulrush nor Bullrush.)

Boule. See Bull.

Bouleau; river, flowing into the St. Lawrence, about 25 miles below Moisie river, Saguenay county, Que. (Not Bason.)

Bouleau. See Cedars.

Boulter; lake, McClure township, Hastings county, Ont.
After Dr. George Henry Boulter, M.P.P. for North Hastings, 1867-75.
Boundary; bay, international boundary, New Westminster district, B.C. Is intersected by the international boundary.

Boundary; cove, between Du Vernet and Dundas points, northeast of Digby island, Coast district, B.C.

Boundary; creek, flowing into Kettle river, Similkameen district, B.C. Descriptive.

Boundary; mountains, international boundary, Kootenay district, B.C. Near the boundary.

Boundary. See CanaUaska.

Bourgeau; mount, Tp. 25, R. 13, W. 5 M., north of Healy creek, also range of mountains, east of creek, Alberta.

After E. Bourgeau, botanist, Palliser expedition, 1857-60.

Boutilier; cove, lake and point, Halifax county, N.S. (Not Boutillier.)

After George Boutilier (1756-1831), early settler.

Boutilier Point; post office, Halifax county, N.S.

See Boutilier cove.

Bow; glacier, lake, pass, north of lake, peak, southeast of lake and river, Alberta. (Not Coldwater, Upper Bow, Coal nor Askow.)

Translation of Indian name meaning "bow-wood" river.

Bow; island, junction of Oldman and Bow rivers, Alberta.

See Bow glacier.

Bow; range of mountains, south of Bow river, Rocky mountains, Alberta and Kootenay district, B.C.

See Bow glacier.

Bow. See Bowtree.

Bow. See Hector.

Bowden; lake, Redvers township, east of Cañon lake, Kenora district, Ont.

Bowlohn. See McLean.

Bowes. See Constance.

Bow Island; village, southeastern Alberta.

Bowker; lake, southwest of Brompton lake, Sherbrooke county, Que. (Not Long.)

Bowman; creek, flowing into west side of Lower Arrow lake, Kootenay district, B.C.

Bowmanville; town, Durhamton township, Durham county, Ont.

After Charles Bowman, merchant, who bought the land where the town is located, about 1800, but was never a resident; died in Italy about 1848.

Bowron; lake and river, tributary to Fraser river, from south, about 40 miles above Fort George, Cariboo district, B.C. (Not Bear.)

After John Bowron who went from Huntington, Que., in 1861 across the plains through Yellowhead pass to the goldfields at Barkerville; latterly gold commissioner, retiring in 1905; died, Victoria, 1906.

Bowsman; river and post office, Tp. 38, R. 27, W.P.M., Man. (Not Bowsman River post office.)

After Bowsman Moore, Indian trapper.

Bowtree; lake, and river emptying into south side of lac La Ronge, Sask. (Not Bow.)

Translation of Indian name.

Boxer; reach, northeast of Gribbell island, Coast district, B.C.

After H.M.S. "Boxer", on Pacific Station, 1867-75.

Boyd. See Belliveau.

Boyer; lake, south of Dinorwie lake, Kenora district, Ont. (Not Saganaga.)

After Aurélien Boyer who made a survey of the lake in 1897.
Boyer; reef, central of three reefs west of Port Elgin, Bruce county, Ont. After resident, Southampton.

Boyer; settlement and river, tributary to Peace river, above Vermilion, Alberta. (Not Paddle.)

Boyne. See Morris.

Brabant; island, Clayoquot sound, Vancouver island, B.C. (Not Pender.)

After Rev. A. J. Brabant, apostolic administrator of the diocese of Victoria; Roman Catholic missionary on the coast since 1869.

Brachiopod; mountain, south of Ptarmigan lake, Tp. 29, R. 15, W. 5 M., Rocky mountains, Alberta.

The west slopes are covered with fossil brachiopods.

Brackendale; settlement, Squamish river, New Westminster district, B.C.

After T. H. Bracken, sometime postmaster.

Braden; mount, west of Esquimalt, Vancouver island, B.C.

Bradshaw; creek, flowing into Similkameen river between Hedley and Keremeos, Similkameen district, B.C. (Not Fifteen Mile.)

After Thomas Bradshaw, settler.

Bratnober; mount and lake, Klusha creek, tributary to Nordenskiöld river, Yukon.

Bramham; island, Queen Charlotte sound, Coast district, B.C. (Not Branham.)

After Bramham Park, Yorkshire, England.

Brandon; hills, south of Brandon, Man. (Not Blue.)

After Brandon, England.

Brandon; island, Departure bay, east coast of Vancouver island, B.C. (Not Double.)

After Lieutenant V. R. Brandon, Admiralty survey, 1903-4.

Brandypot; bank, channel and island, east of Hare island, St. Lawrence river, Kamouraska county, Que. (Not Brandy Pot nor Pot-à-l’eau-de-vie.)

Descriptive of island’s appearance.

Bramham. See Bramham.

Bras (rivière le); river, tributary to Etchemin river, Dorchester and Lévis counties, Que. (Not Coulombe.)

So named on 1842 copy of seigniory plan of 1815.

Bras d’Or; lake, the expanse between St. Peter inlet and Barra strait, with its bays, Cape Breton island, N.S. (Not Great Bras d’Or.)

Bratnober; mount, in bend of Dezadeash river, Yukon.

After Henry Bratnober, San Francisco; accompanied J. Dalton, 1897.

Bratt; island, north of Hill island, St. Lawrence river, Lanndowne township, Leeds county, Ont.

Bray; reef, entrance to Key harbour, Georgian bay, Parry Sound district, Ont.

After seaman on surveying steamer “Bayfield”.

Bray; settlement, Osgoode township, Carleton county, Ont. (Not Bray’s nor Bray’s Crossing.)

Bray’s Crossing. See Bray.

Brazeau; lake and river, tributary to the North Saskatchewan, also mountain range, central Alberta. (Not Brazeau’s.)

After Hudson’s Bay Co. officer in charge of Rocky Mountain house, 1858-59.

Brébeuf; island, west of Beausoleil island, Georgian bay, Muskoka district, Ont. (Not Brébeuf.)

After Jean de Brébeuf (1593-1649), Jesuit missionary, put to death by the Iroquois on the mainland to the southeast.

Brébeuf; parish, Labelle county, Que.

See Brébeuf island.

Breeches; lake, Garthby township, Wolfe county, Que.

Descriptive of outline.
Bremner; creek, branch of Fitzstubbs creek, tributary to Wilson creek, northeast of Slocan lake, Kootenay district, B.C. (Not First North fork.)

Brenton; mount, north of Chemainus river, Vancouver island, B.C.

Brenton; railway station, Vancouver island, B.C. (Not Brenton's.)

After settler.

Brereton; lake, Tp. 11, Rs. 14 and 15 E.P.M., Man.

Said locally to have been named after a Captain Brereton who camped beside the lake about 30 years ago.

Brett; mount, Tp. 25, Rs. 13 and 14, W. 5 M., Alberta.

After R. G. Brett, M.D., Lieutenant Governor of Alberta, pioneer resident, Banff.

Brevoort; island, south of entrance to Cumberland sound, near Baffia island, N.W.T. Named by Hall, 1861, after J. Carson Brevoort, Brooklyn, New York.

Brew; mount, south of Lillooet, Lillooet district, B.C.

After Chartres Brew, first inspector of police in British Columbia as a crown colony.

Brewer; creek, tributary to Stewart river, above Scroggie creek, Yukon.

Brewer; mount, southeast of Toby creek; also creek flowing from the mountain into Dutch creek, Kootenay district, B.C. (Not Little North fork of Dutch creek.)

After Samuel Brewer, Winndermere.

Brewery; creek, tributary from west to Wild Horse river, Kootenay river, near Steele, Kootenay district, B.C.

Brewher; glacier and creek, southwest of Banff, Alberta.

After Banff resident, first recorded visitor to the glacier.

Brian. See Brine.

Briand; river, Biart township, Quebec county, Que. (Not Wamikaszibie.)

After Monseigneur Briand, Bishop of Quebec under the French régime.

Bridge; island, St. Lawrence river, Yonge township, Leeds county, Ont. (Not Chimney.)

Bridge; lake, near eastern boundary of Lillooet district, B.C. (Not Great Fish nor Tranquille.)

Bridge; river, tributary to Fraser river, above Lillooet, Lillooet district, B.C.

After an Indian bridge at its mouth found by white men about 1859.

Bridgland; river, tributary to Thessalon river, emptying into North channel, lake Huron, Algoma district, Ont. (Not East branch of Thessalon.)

After J. W. Bridgland, sometime superintendent of roads, Crown Lands Department, Ont.

Brier; island, at entrance to St. Mary bay, Digby county, N.S. (Not Bryer.)

Bright; lake, McLintock township, Haliburton county, Ont.

Brighton; township, Northumberland county, Ont.


Rightsand; lake, Tp. 53 and 54, R. 20, W. 3 M., Sask. (Not Bright Sand.)

Descriptive.

Brine; lake, east of St. Margaret bay, Halifax county, N.S. (Not Brian.)

After family named Brine.

Brinston; village, Matilda township, Dundas county, Ont. (Not Brinston's Corners.)

After Thomas Brinston, merchant. 

Brinston's Corners. See Brinston.

Brion; island, Magdalen group, Gaspe county, Que. (Not Bryon, Byron nor Cross.)

Named by Cartier in 1534 after his patron, Philippe de Chabot, sieur de Brion, Admiral of France.

Brisco; range of mountains, between Columbia and Kootenay rivers, B.C.

After Captain Brisco, 11th Hussars; accompanied Captain Palliser, 1859.

Brise-culotte. See Fourchette.
Bristol. See Shemogue.

Britannia Bay; village, Nepean township, Carleton county, Ont. (Not Britannia-on-the-Bay.)
The site of the village was subdivided in 1873 on behalf of J. Le Breton Ross and was named Britanniaville.

British; range of mountains, near the Arctic coast, international boundary, Alaska and Yukon.

Britton; mount, north of Tulameen river, above Eagle creek, Yale district, B.C.
After prospector.

Broadback; river flowing from the height-of-land west of Mistassini lake, through lake Evans into Rupert bay, Abitibi territory, Que. (Not Little Nottaway, Rapid nor Victoria.)

Broadwood; mount, east of Elko, Kootenay district, B.C.

Brock; group of islands, St. Lawrence river, west of Brockville, Elizabethtown township, Leeds county, Ont. (Not Brock's.)
After Major General Sir Isaac Brock (1769-1812).

Brock; island, Lake Fleet group, St. Lawrence river, Leeds county, Ont. (Not Squaw.)

Brock. See Brock group.

Brockway; settlement, York county, N.B. (Not Brookway.)
After Artemas Brockway, grantee at this place.

Brodeur; island, lake Superior, south of Shesheeb bay, Thunder Bay district, Ont.
After Hon. L. P. Brodeur, Minister of Marine and Fisheries, Canada 1906-11.

Brokenhead; village and river, flowing into head of lake Winnipeg, Man. (Not Broken Head.)

Bronson; lake, Tp. 56. R. 25, W. 3 M., Sask. (Not Grassy.)
After Hilliard Bronson, member of survey party.

Bronte; village and creek, flowing into lake Ontario, Halton county, Ont. (Not Twelve Mile.)
After the Duke of Bronte, a title of Lord Nelson.

Brookway. See Brockway.

Broom; hill, west of Sooke harbour, south coast of Vancouver island, B.C.

Brotchie; ledge, entrance to Victoria harbour, B.C. (Not Brotchy.)
After Captain William Brotchie (1799-1859), master of several Hudson's Bay Co. vessels on the coast; named in 1849 after his ship "Albion" had struck on it.

Broughton; island and shoals, northeast of Grenadier island, St. Lawrence river, Yonge township, Leeds county, Ont. (Not Corn.)

Brown Dome. See Marble Dome.

Brownie; lake, Smellie township, Kenora district, Ont.

Browns; creek, tributary to Fortymile river, Yukon. (Not Brown nor Brown's.)

Brown's. See Knapp.

Brownwater. See Coffee.

Bruce; harbour, north shore of Hudson strait, N.W.T.

Bruce; mount, 7 miles west of Wilmer, Kootenay district, B.C. (Not Wilmer.)
After R. R. Bruce, Windermere.

Bruce; mount, south of Burgoyne bay, Saltspring island, southeast coast of Vancouver island, B.C.

Brucy's. See Brussy.

Bruins; pass, between Ursus Major and Ursus Minor, Hermit range, Selkirk mountains, Kootenay district, B.C. (Not Bruin's.)

Brulé (cap); cape, below cap Tourmente, Montmorency county, Que.

Brulé; point, Athabaska river, below Little Buffalo river, Alberta. (Not Pointe Brulée.)

Brulé. See Grand.
Brujiella. See Stukely.

Brush. See Sheaffe.

Brushy; creek, flowing north from height-of-land into Christopherson lake, Timiskaming and Pontiac counties, Que.

Brussy; point, north side of île Perrot, Vaudreuil county, Que. (Not Brucy's.)

Bryce; mount, Tp. 35, R. 24, W. 5, M., Alberta and Kootenay district, B.C.

Bryer. See Brier.

Bryon. See Brion.

Buck; creek, tributary to Bulkley river from south above Morice river, Coast district, B.C.

Buck; hill, northeast of Sooke basin, south coast of Vancouver island, B.C.

Buckeye; shoal, 4½ miles southeast of Providence point, Manitoulin island, Manitoulin district, Ont.
   After steamer "Buckeye" wrecked on it.

Buckham; bay and point, Ottawa river, Torbolton township, Carleton county, Ont. (Not Buckham's nor Buckom.)
   After John Buckham, settler, who received patent for land in 1836.

Buckley. See Bulkley.

Buck's. See Beaurivage.

Buffalo; lake, south of Battle river, Alberta. (Not Bull.)
   Descriptive of the outline.

Buffalo. See Mami.

Buffalo Pound; lake, Qu'Appelle river, north of Moosejaw, Sask. (Not Highpound.)

Buffer; lake, northeast of Saskatoon, Sask.

Bugaboo; creek, tributary to Columbia river, from west, above Spillimacheen river, Kootenay district, B.C.

Buisson; point, west of Melocheville, Beauharnois county, Que. (Not Buisson's.)

Bukemiga; lake, west of Wabinosh lake, Thunder Bay district, Ont.

Bulkley; river, tributary to Skeena river at Hazelton, Cassiar and Coast districts, B.C. (Not Buckley.)
   After Col. Bulkley, in command of overland telegraph line to Europe via Siberia; his party wintered horses here in 1863.

Bull; river, tributary to L'Assomption river, Cathcart township, Joliette county, Que. (Not Blanche, Boule nor Bull's.)
   Bull's on township plan, 1846.

Bull; river, tributary to Kootenay river from east, below Steele, Kootenay district, B.C. (Not Bad.)

Bull. See Buffalo.

Buller; reef, entrance to Hensley bay, 3½ miles east of Walkhouse point, Manitoulin island, Manitoulin district, Ont.
   After General Sir Redvers H. Buller (1839-1908).

Bulpound. See Hanalta.

Bullrush. See Boule Roche.

Bulls Forehead; hill, junction of Red Deer and South Saskatchewan rivers, Sask.
   Descriptive; or reminiscent of a stampede of buffalo over the hill into the river, buffalo bones being numerous at the foot of the hill.

Bumfrau. See Beechwood.

Bunker; hill, lat. 61° 20', long. 135° 39', Yukon.
DEPARTMENT OF THE INTERIOR

Buntzen; lake, east of North arm, Burrard inlet, New Westminster district, B.C. (Not Trout.)

Burgess; mount, Porcupine river, Yukon.
After the late A. M. Burgess, Deputy Minister of the Interior, Canada.

Burgess; mount, southwest of mount Field, and pass between the two mountains, Kootenay district, B.C.
After the late A. M. Burgess.

Burgoyne; bay, Hudson strait, New Quebec territory, Que.

Burgoyne; bay, Sansum narrows, Saltspring island, southeast coast of Vancouver island, B.C.

Burial; point, opposite Burgoyne bay, Sansum narrows, Stuart channel, southeast coast of Vancouver island, B.C.

Burke; island, lake Huron, 4 1/2 miles north of Chiefs point, Chiefs Point Indian reserve, Amabel township, Bruce county, Ont.

Burleith; arm, Ladysmith harbour, Vancouver island, B.C.
After residence of James Dunsmuir, Victoria.

Burns; lake, Endako river, south of Babine lake, Coast district, B.C.

Burnt; island, north of Inner Duck island, Lake Huron, and separated from Manitoulin island by a very narrow channel, Manitoulin district, Ont.

Burnt; river, Haliburton and Victoria counties, Ont.
From the dark colour.

Burnt. See Aubrey.

Burnt Bay; lake, south of Grand lake Victoria, Pontiac county, Que.

Burnt Island; harbour, south shore of Manitoulin island, Robinson township, Manitoulin district, Ont.

Burntstone. See Battersby.

Burntwood; bay, lac Seul, Kenora district, Ont.

Burntwood; lake and river, tributary to Nelson river, Man. (Not Wepiskow.)
Translation of Indian name.

Burrell; creek, tributary to Granby river, Similkameen district, B.C. (Not East branch of North fork of Kettle.)
After Hon. Martin Burrell, Minister of Agriculture of Canada, who lives at Grand Forks.

Burrill; point, Galiano island, Active pass, strait of Georgia, B.C.
After Frederick and Joseph Burrill, ranchers.

Burritt Rapids; village, Grenville County, Ont. (Not Burritt’s Rapids.)
After Stephen Burritt, early settler.

Burrowes; island, east of Hill island, entrance to Russell arm, north shore of Prince Rupert harbour, Coast district, B.C.
After Gilbert Burrowes, leveller, Grand Trunk Pacific Ry. survey party.

Burton; island, west of Berens island, lake Winnipeg, Man. (Not Little Black.)
After the tug “Frank Burton.”

Burton; village, Columbia river, near head of Lower Arrow lake, Kootenay district, B.C. (Not Burton City.)
After R. S. Burton, sometime postmaster.

Burwash; lake, Cotton township, also creek flowing from the lake into Wanapitei river in Howey township, Sudbury district, Ont.

Burwell; port, east shore of Ungava bay, New Quebec territory, Que.
After H. M. Burwell, C.E., Vancouver, B.C., observer stationed here, 1885–6.
SESSIONAL PAPER No. 25c

Bush; mountain, between Watson and Wheaton rivers, southern Yukon.

After Charles Bush, prospector.

Bush; river, flowing into Columbia river from east, lake, near mouth of river, and peak, north of South fork of river, Rocky mountains, Kootenay district, B.C.

Descriptive name originally applied to the river.

Bush. See Renny.

Butler; bay, south entrance to Cornell Grinnell bay, east coast of Baffin island, N.W.T.

Butler; lake, south of Wabigoon lake, Kenora district, Ont. (Not Kabistugwiak.)

After Capt. W. F. Butler, author of "The Great Lone Land."

Button; islands, south side of entrance to Hudson strait, N.W.T.

After Captain (afterwards Admiral Sir Thomas) Button, who commanded an expedition in search of the North West passage, 1612-13; died 1634.

Butwell; peak, west of Garnet mountain, southeast of Leanchoil railway station, Rocky mountains, Kootenay district, B.C.

After Frank Butwell, fire warden at Leanchoil.

Butze; point and rapids, east coast of Kaien island, Coast district, B.C.

After A. Butze, Grand Trunk Pacific Ry. purchasing agent, 1906.

Buzzard; lake, Burleigh township, Peterborough county, Ont.

Byron; hill and creek, tributary to Crowsnest river from south below Hillcrest railway station, Alberta.

Byron. See Brion.

C

Cabane. See Coban.

Caban; river, township, and village, Temiscouata county, Que.

Cabin; creek, tributary to Flathead river, Kootenay district, B.C.

Cabistachuan. See Kabistachuan.

Cabri; lake, northeast of junction of Red Deer and South Saskatchewan rivers, Sask.

Descriptive; the prong-horned antelope (antelope furcifer.)

Cache; bay, west end of Saganaga lake, international boundary, Rainy River district, Ont.

Cache; lake, Canisbay township, Algonquin National park, Nipissing district, Ont.

Cacouna; island and village Temiscouata county, Que.

Indian name meaning "place where there are porcupines."

Cactus; lake, Tps. 36 and 37, Rs. 27 and 28, W. 3 M., Sask.

Caetuses grow around it.

Cadman; point, west of Consecon, Weller bay, Prince Edward county, Ont.

Cadwallader; mountains and creek, tributary to Hurley river, Bridge river, Lilooet district, B.C.

After miner.

Cahill; creek, flowing into Similkameen river, 2 miles below Hedley, Similkameen district, B.C.

(Not Eighteen Mile nor Squakum.)

After George Cahill, settler.

Cahill; lake, west of Slocan lake, Kootenay district, B.C.

Cahnish. See Kanish.

Cain; point, Active pass, strait of Georgia, B.C.

After resident at the point.

Cain; river, tributary to Miramichi river, Northumberland county, N.B. (Not Cain's nor Kain's.)

Said to be named after an Indian.
Cain River; village, Northumberland county, N.B. (Not Cain’s river.)

See Cain river.

Caín; island and mountain, Richmond gulf, Hudson bay, New Quebec territory, Que.

Calder; lake, close west of Manitou lake, southern portion of Kenora district, Ont.

Calder; river, flowing into Primrose lake, in Tp. 70, R. 25, W. 3 M., Sask.

After member of survey party.

Calder. See Couldrey.

Caledon East; village, Caledon township, Peel county, Ont. (Not East Caledon.)

Caledonia; village, Guysborough county, N.S. (Not Middle Caledonia.)

Calete. See Kaiete.

Calf Pasture; point and shoal, Presqu’ile bay, Brighton township, Northumberland county, Ont.

Call Mill; settlement, Brome county, Que. (Not Calls Mills.)

After L. M. Call, millowner and first postmaster.

Calvin Grove. See Kelvingrove.

Camamableacossa. See Goulet.

Camden. See Campden.

Camelot; island, Lake Fleet group, St. Lawrence river, Leeds county, Ont. (Not Hog.)

After gunboat on the Great lakes, 1812-14.

Cameron; brook, flowing from Cameron lake to Waterton lake, southern Alberta. (Not Oil.)

After Major-General D. H. Cameron, British Commissioner on international boundary, Lake of the Woods to the Rockies, 1872-76.

Cameron; lake, international boundary, southwestern Alberta (Not Oil.)

See Cameron brook.

Cameron; lake, northwest of Kakagi lake, Kenora district, Ont.

Cameron; mountains, east of Edgar lake, south of Taku arm, Tagish lake, Cassiar district, B.C.

Cam; lake, Finlayson township, Nipissing district, Ont.

Campbell; creek, flowing into Semianmu bay, New Westminster district, B.C. (Not Tahtaloo.)

Campbell; creek, tributary to Pelly river, Yukon. At the mouth of this stream is the site of Pelly Banks post, abandoned in 1850.

After Robert Campbell (1808-1894), chief factor, Hudson’s Bay Co., discoverer of the Pelly, Lewes, and Upper Yukon rivers.

Campbell; island, Admiralty group, St. Lawrence river, Leeds county, Ont. (Not Round.)

Campbell; island, outer of a chain from the east point of Flatland island, Thunder Bay district, Ont. (Not Little Flatland.)

After ship captain.

Campbell; mount, Ogilvie range, northwest of Dawson, Yukon.

Campbell; mountains, upper waters of Liard river, Yukon.

See Campbell creek, Yukon.

Campbell; reef, 7½ miles southeast of cape Hurd, Bruce county, Ont.

After schooner “Fanny Campbell,” wrecked near it.

Campbell; river, flowing from Trousers lake into Tobique river, Victoria county, N.B. (Not Right Hand branch of Tobique.)

Named in 1831; see Campbellton.

Campbell; valley. west of Ice river, Kootenay district, B.C.
Campbell Cross; village, Chinguacousy township, Peel county, Ont. (Not Campbell’s Cross) After early settlers.

Campbellton; town, Restigouche county, N.B. (Not Campbell-town.) After Major-General Sir Archibald Campbell (1769-1843), Lieutenant Governor of New Brunswick, 1831-7.

Campden; post office, Clinton township, Lincoln county, Ont. (Not Camden.)

Campobello; island, bay of Fundy, Charlotte county, N.B. (Not Campo Bello.) Named by Capt. William Owen, its principal grantee, “partly as complimentary and pining on the name of the Governor, Lord William Campbell, and partly as applicable to the nature of the soil and fine appearance of the island.”

Campbellton; town, Restigouche county, N.B. (Not Camp-town.)

Canadale; mountain, south of Porcupine river, international boundary, Yukon. (Not Boundary.) Combination of the first syllable of “Canada” and “Alaska.”

Canboro; post office, Canborough township, Haldimand county, Ont. (Not Canborough.) After Benjamin Canby, who received 19,000 acres of land in the township from an Indian named Dockstader, on a promise to pay £5,000 to maintain the Indian’s children.

Candle; lake, central Sask.

Canning; lake, Minden township, Haliburton county, Ont. (Not Canning’s.)

Canoe; lake, Peck township, Algonquin National park, Nipissing district, Ont. After “Big Canoe,” an Indian chief.

Canoe. See Kamongus.

Cañon; lake and river tributary to Wabigoon river, Kenora district, Ont. Descriptive.

Canouse. See Kanus.

Canrobert; village, Rouville county, Que. (Not Ange Gardien de Rouville nor L’Ange Gardien.) After Marshal Canrobert, famous French general.

Canterbury. See Invermere.

Canin; shoal, 3 miles southwest of St. Joseph, Huron county, Ont. After resident of St. Joseph.

Canyon. See Mobbs.

Canyon. See Ormonde.

Caousacouta. See Kausakuta.

Caouasagouta. See Kausakuta.

Cap-Aigle; village, Charlevoix county, Que. See Eagle cape.

Cap-Brulé; lightstation, below cap Tourmente, Montmorency county, Que. (Not Montée du Lac.) Probably descriptive.

Cap-Chat; township, river, lightstation and post office, Gaspe county, Que. (Not Cap-de-Chat nor Cape Chatte.) See Chat.

Cap-Châte. See Cap-Chat.

Cap-de-Châte. See Cap-Chat.

Cape Horn. See Pilot.

Cape Hurd; channel, west of cape Hurd, Bruce county, Ont., See Hurd cape.

Capellan. See Caplan.
Cape Negro; island, entrance to Negro harbour, Shelburne county, N.S. (Not Negro.)
   See Negro.

Cape Negro Island; post office, Cape Negro island, Shelburne county, N.S.
   See Negro.

Capilano; creek, flowing into Burrard inlet, New Westminster district, B.C.
   See Negro.

Caplan; river, Bonaventure county, Que. (Not Capean.)
   Variouslly explained as a corruption of "cape land" descriptive of the mouth of the river, the name of the first Indian resident at the mouth and the small fish.

Caplan River; post office, Bonaventure county, Que.
   See Caplan river.

Caps (rivière des); river, flowing into the St. Lawrence below Fouquette river, Kamouraska county, Que.

Captain; creek, flowing into McGregor river about 22 miles from its mouth, Cariboo district, B.C. (Not Otter.)
   See McGregor river.

Captain John's. See Foresters.

Caraquet; bay, parish, river and village, Gloucester county, N.B. (Not Caraquette.)
   So spelled by Denys, 1672.

Caraquet. See Maisonnette.

Carbon; hill, south of Wheaton river, southern Yukon.
   From black, "carbon" like areas on it containing antimony deposits.

Carbondale; river, flowing from North Kootenay pass to Castle river; southern Alberta. (Not West branch of Castle.)
   After coal mine on river.

Carcajou; river, flowing into Kinojevis river in Villemontel township, Timiskaming county, Que.

Carcross; village, between Bennett and Nares lakes, southern Yukon. (Not Caribou nor Caribou Crossing.)
   Shortened form of "caribou crossing"; name suggested by Bishop Bompas, 1905.

Cardero. See Corders.

Cardinal's. See Arcand.

Caribou; creek, tributary to Columbia river from east, between the Arrow lakes, Kootenay district, B.C.

Cariboo; district, lake, northwest of Quesnel lake and mining division, British Columbia. (Not Caribou.)
   Descriptive.

Caribou; lake, northwest of lake Nipigon, Thunder Bay district, Ont.

Caribou. See Stevens.

Caribou. See Asbherham.

Caribou. See Carcross.

Caribou. See Keshkabuon.

Caribou. See Lawrence.

Caribou. See M'ijatik.

Caribou Crossing. See Carcross.

Caribou Mines; village, Halifax county, N.S. (Not Caribou Gold Mines.)
   "Caribou" because deer were common and "mines" because it is a gold-mining district.

Carillon; bay, Ottawa river, Argenteuil county, Que. (Not Argenteuil.)

Carleton; lake, south of Anzhekumming lake, Kenora district, Ont.

Carleton. See Borden.
SESSIONAL PAPER No. 25c

Carlsbad Springs; village, Gloucester township, Carleton county, Ont. (Not Eastman's Springs.)

After Carlsbad, Germany.

Carmack; creek, fork of Bonanza creek, Yukon.

Carmi; creek, tributary to Westkettle river, also village at junction of the streams, Similkameen district, B.C.


Carnarvon; mount, head of Emerald river, tributary to Kicking Horse river from north, Rocky mountains, Kootenay district, B.C. (Not McMullen.)

After Lord Carnarvon (1831-90), who, when Secretary of State for the Colonies, 1874, effected the settlement of difficulties between the Dominion and British Columbia, known as the "Carnarvon Terms."

Carnegie; island, north of Hill island, St. Lawrence river, Leeds county, Ont.

Carney; creek, tributary to Fry creek, east of Kootenay lake, Kootenay district, B.C. (Not North fork of Fry.)

After resident of Kaslo.

Caron; lake, Bellecombe, Caire and Vaudray townships, Timiskaming county, Que. (Not Crooked nor Oblique.)

After Ivanhoe Caron, missionary, director of colonisation scheme of Quebec Government.

Caron; lake, Pettypiece township, Kenora district, Ont.

Caron; point, east of Ste. Anne-de-Bellevue, Jacques-Cartier county, Que.

Caron. See Carron.

Carp; lake, east of Birch lake, east of Basswood lake and portage, between Birch and Carp lakes, international boundary, Rainy River district, Ont.

Carp. See Lomond.

Carpenter; creek, flowing into east side of Slocan lake, at New Denver, Kootenay district, B.C.

Carpenter; point, south entrance point to Bayfield bay, Wolfe island, Frontenac county, Ont.

(Not Woods.)

Carr; railway station, Huntingdon county, Que. (Not Carr's Crossing.)

Carroll Wood; bay, east of Walkhouse point, Manitoulin island, Manitoulin district, Ont.

(Not Woods.)

After Lt. C. C. Wood killed in South African war, 1899.

Carron; point, south entrance to Bathurst bay, Gloucester county, N.B. (Not Caron.)

Spelling in a report on roads by Minette, 1827.

Carrot; river, tributary to Saskatchewan river, Sask. and Man. (Not Root.)

Carrs. See Kerr.

Carr's Crossing. See Carr.

Carrying Place; village, Northumberland and Prince Edward counties, Ont.

Near the old portage from Bay of Quinte to lake Ontario.

Carson; lake, Jones township, Renfrew county, Ont.

After lumber camp foreman.

Carson; settlement, international boundary, Similkameen district, B.C.

After Isabella Carson McLaren, mother of John McLaren, sometime postmaster.

Carter; bay, 7 miles southeast of Providence point, Manitoulin island, Manitoulin district, Ont.

After member of the Rathbun Co., owners of timber limits.

Carter; mount, east of Atlin lake, Cassiar district, B.C.

Carter; rock, west of Greene island, Manitoulin district, Ont.

After schooner wrecked near it, 1896.

25c—4
Carthew; bay, northwestern shore of lake Simcoe, Simcoe county, Ont. (Not Carthew's.)

Carthew; mount, lat. 49° 02', long. 114°, Alberta.

Cartier; lake, Wylie township, Renfrew county, Ont.

Cartier; mount, east of Columbia river, below Revelstoke, Kootenay district, B.C.
   After Sir George Etienne Cartier (1814-73.)

Cartier; village, Beauharnois county, Que. (Not Cartierville.)
   See Cartier mount.

Cary. See Cook.

Carys Swan Nest; cape, Coats island, Hudson bay, N.W.T. (Not Cary's Swan Nest.)
   Named by Button, 1612.

Cascade. See Coast.

Cascade. See O'Hara.

Cascade; village, Kettle river, Similkameen district, B.C.
   After a rapid in a cañon on the river.

Cascumpeque; bay, Prince county, P.E.I. (Not Cascumpec nor Holland.)
   Indian name meaning "deep bay with sandy shore."

Casey; cove, south of Parizeau point, Digby island, Prince Rupert harbour, Coast district, B.C.
   After Major W. A. Casey, Grand Trunk Pacific Ry. topographical engineer; killed in France, 1916.

Cashionglen; hamlet, Charlottenburg township, Glengarry county, Ont. (Not Cashion's Glen.)

Cassels; lake, Cassells and Riddell townships, Nipissing district, Ont. (Not White Bear.)
   After the township, which after Hon. W. G. P. Cassels, Judge of the Exchequer Court of Canada.

Cassiar; bar, Lewes river, above Big Salmon river, Yukon.
   See Cassiar district.

Cassiar; district, British Columbia.
   Corruption of Kashia, Nahane Indian name for McDame creek.

Cassiar; mountains, Cassiar district, B.C. and Yukon.
   See Cassiar district

Cassidy; lake and railway station, southwest of Cobalt, Timiskaming district, Ont. (Not Bass.)
   After a foreman on construction, Timiskaming and Northern Ontario railway.

Cassidy; railway station, south of Nanaimo, Vancouver island, B.C. (Not Cassidy's nor Cassidy Siding.)

Castillian; shoal, southeast of Cockburn island, Manitoulin district, Ont.
   After Allan liner Castillian.

Castle; mountain and railway station, Rocky mountains, Alberta.
   Descriptive of appearance of mountain.

Castle; river, tributary to Oldman river, southern Alberta. (Not South fork of Oldman nor Southfork.)
   See Castle mountain.

Castle. See Windsor.

Castor; creek, flowing into Battle river in Tp. 39, R. 12, W. 4 M., Alberta. (Not Beaverdam)

Castor; mount, lat. 51° 12', long. 117° 29', Selkirk mountains, Kootenay district, B.C.
   Descriptive; twin peak.

Casupscul. See Causapscal.
SESSIONAL PAPER No. 25c

Cat; lake and river, tributary to lake St. Joseph, Patricia district, Ont.

Catamount; peak, eastern of two high peaks on north side of Cougar creek near head, Hermit range, Selkirk mountain, Kootenay district, B.C.

Catamount is a synonym for the "cougar" of the Rockies and Selkirks.

Cataract; brook, tributary to Kicking Horse river from south near Hector railway station, Kootenay district, B.C. (Not Wapta creek.) Descriptive.

Cataract; peak, head of Pipestone river, Rocky mountains, Alberta. Descriptive.

Cataract; rock, 1 mile southwest of Porcupine point, 9 miles southeast of cape Hurl, Bruce county, Ont.

After schooner "Cataract."

Cataract. See Cline.

Cataraqui; river, flowing into St. Lawrence river, at Kingston, Frontenac county, Ont. (Not Cataraquay, Cataraque nor Great Cataraqui.)

Catch. See Ketch.

Catchacoma; lake, Cavendish township, Peterborough county, Ont. (Not Ketchacum.)

Cathawhachaga. See Kathawachaga.

Cathedral; creek, tributary to Nation river, international boundary, Yukon.

Cathedral; mountain, south of Kicking Horse river, opposite Yoho river, Kootenay district, B.C. (Not Pinnacle.) Descriptive.

Catline. See Georgina.

Cat-tail; brook, tributary to Opichuan river, Thunder Bay district, Ont.

Cattle. See Cottle.

Causapscal; village and river, tributary to Matapedia river, Matane county, Que. (Not Casupscal nor Cospuscul.)

Indian name meaning "stony and glittering ground."

Cavalier; island, 3½ miles northwest of Burks island, Bruce county, Ont. (Not Gull.)

After schooner "Cavalier."

Cave; rock, Yukon river, near international boundary, Yukon.

Cavell; lake and creek, tributary to Astoria river, foot of mount Edith Cavell, Jasper park Alberta. See Edith Cavell mount.

Caven; island, St. Lawrence river, near Kingston, Frontenac county, Ont. Descriptive.

Cavan; creek, tributary to Gold creek, tributary to Kootenay river from west below Elk river, Kootenay district, B.C. (Not Middle nor South fork of Gold.)

After Thomas Caven, M.P.P. for Cranbrook, B.C.

Cawaskikamick. See Devenyns.

Cay-ka-quah-be-kung. See Kekkekwabi.

Cayoose. See Cayoosh.

Cayoosh; creek, tributary to Fraser river, at Lillooet, B.C. (Not Cayoose.)

See Lillooet.

Cedar; island, St. Lawrence river, near Kingston, Frontenac county, Ont. Descriptive.

Cedar; island, bay of Quinte, west of Massasauga point, Prince Edward county, Ont.

Cedar; lake, north of lake Winnipegosis, Manitoba.

From trees on the shore.

Cedar. See Hobson.

25c—4½
Cedar. See Kishikas.

Cedars; island, rapids, and village, Soulanges county, Que. (Not Bouleau.) Descriptive.

Cogemmege. See Kejimkujik.

Cogoggin. See Chegoggin.

Celtis; lake, south of William bay, lac Seul, Kenora district, Ont.

Centre; peak, lat. 49° 43', long. 114° 21', Livingstone range, Alberta.

Centrefire; lake, northwest of Minnitaki lake, Kenora district, Ont. (Not Centre Fire.)

Centurion; mountain and glacier, between forks of Gold river, northwest of Argentine mountain, Selkirk mountains, Kootenay district, B.C. Descriptive of appearance of mountain.

Chaatl; island, between Skidegate channel and Moresby island, Coast district, B.C. (Not Cha-atl.)

Chaba; river, tributary to Athabaska river, near its head, Alberta. Named after an enterprising Stoney Indian, Job Beaver, chaba meaning "beaver."

Chabatok; Indian village, Abatagush bay, Mistassini lake, Mistassini territory, Que. Indian name meaning "rough or rugged passage."

Chagnon; mountain, Bolton township, Brome county, Que. (Not Shonyo.) After farmer.

Chagoggin. See Chegoggin.

Chakwa; lake, headwaters of St. Maurice river, Brochu township, Champlain county, Que.

Chaleur; bay, an inlet of the gulf of St. Lawrence, between Quebec and New Brunswick. (Not bay of Chaleur nor baie des Chaleurs.) French form: "baie de Chaleur."

So named by Cartier, because he and his men suffered from the heat while in this bay

Chalk; river, lake, expansion of river and bay, Buchanan township, Renfrew county, Ont. (Not Allumette nor Sturgeon.)

Chalk River; village, Buchanan township, Renfrew county, Ont.

Chaloupe. See Shallop.


Chamberlin; mount, lat. 53°, long. 119° 20', Cariboo district, B.C. After E. J. Chamberlin, president, Grand Trunk Pacific Ry., 1912-17.

Chambly; village, Chambly county, Que. (Not Chambly Basin.) After Captain Jacques de Chambly, grantee, 1672.

Champagne; island and point, St. Lawrence river, Lansdowne township, Leeds county, Ont.

Champlain; point, south of Atherley, lake Simcoe, Ontario county, Ont.

Chancellor; peak, east of Leanchoil railway station, Kootenay district, B.C. After Sir John Boyd (1837-1916), Chancellor of Ontario, one of the arbiters on the dispute between the Dominion Government and the C. P. Ry. in 1886.

Chandindu; river, tributary to Yukon river, below Dawson, Yukon.

Channel; point, northeast point of Cockburn island, Manitoulin district, Ont.

Channel; rock, northwest of Fitzwilliam island, Manitoulin district, Ont. Descriptive.

Chantler; post office, Pelham township, Welland county, Ont. (Not Chantler’s.) After family, residents since 1855.

Chantry; island and shoal, lake Huron, southwest of Saugeen river, Bruce county, Ont. After Sir Francis Legatt Chantry (1781-1842), sculptor.

Chaperon; mountain, east of Columbia river, south of Bush river, Kootenay district, B.C.
Chapleau; lake, head of Moose Mountain creek, Tp. 14, Rs. 10 and 11, W. 2 M. Sask.

Chaplin; lake and river, west of Moosejaw, Sask.

On Palliser Expedition map, 1863.

Chareau. See Charron.

Charlebois. See Arcand.

Charles; island, Hudson strait, N.W.T. (Not Katutok.)

In 1610, Hudson mistook it for part of the mainland and named it mount Charles after Prince Charles, later King Charles.

Charles; point, west shore of Prince Rupert harbour, Coast district, B.C.

Charley. See Kandik.

Charlo; village, Ter bay, Guysborough county, N.S. (Not Charlo Cove nor Charlo's Cove.)

Charlotte; lake, Brudenell township, Renfrew county, Ont.

Named by surveyor after his sweetheart.

Charlton; bay, west shore of South bay, 13 miles northeast of South Baymouth, Manitoulin island, Manitoulin district, Ont.

After settler.

Charlton; mount, south of narrows of Maligne lake, east of mount Unwin, Rocky mountains, Alberta.

After H. R. Charlton, general advertising agent, Grand Trunk Pacific Ry.

Charron; island, St. Lawrence river, Chambly county, Que. (Not Charon nor Chareau.)

Chartier; lake, south of and draining into Grand lake Victoria, Pontiac county, Que. (Not Wajabakoute nor Burnt Bay.)

After abbe Chartier.

Charwell; point, east of Peter lightstation, Prince Edward county, Ont. (Not Gull.)

Chase; island, Frobisher bay, Baffin island, N.W.T.

Named by Hall after S. P. Chase (1808-73), United States jurist.

Chase; river and settlement, south of Namaino, Vancouver island, B.C.

One of two Indians hanged at Gallows point in 1853 for murder, was captured at the river after a long "chase."

Chassepot; rock, west of south point off Digby island, Coast district, B.C.

Chat (cap); cape, Gaspé county, Que. (Not Chate nor Chatte.)

From a "cat-shaped" rock formation.

Chate. See Chat.

Chateauquay. See Lalonde.

Chatte. See Chat.

Chaudière. See Kettle.

Chaudiere. See Koochiching.

Cheakamus; river, tributary to Squamish river, New Westminster district, B.C.

Chebistuanonekau; river, tributary to Chibougamau river, near height-of-land, Abitibi territory, Que.

Chegoggin; point and village, Yarmouth county, N.S. (Not Cegoggin nor Chagoggin.)

Chehalis; creek, flowing into Gladys lake from south, Cassiar district, B.C. (Not Che-halis.)

Chemainus; lake, river, village and bay, in the southeast portion of Vancouver island, B.C. (Not Horse Shoe.)

After Indian tribe.

Chemainus. See Kulleet.

Chematogán; channel, between Squirrel and Walpole islands, estuary of St. Clair river, Lambton county, Ont. (Not Blind.)

Indian name meaning "a stream that runs away from another."
Chemung; lake and hamlet, Peterborough county, Ont. (Not Chemong nor Chemong.)
Indian name meaning "canoe."

Cheney; settlement, Clarence township, Russell county, Ont. (Not Cheney Station.)
After Samuel Cheney, early settler.

Cheney Station. See Cheney.

Chensagi; lake and river, flowing into it from east, Abitibi territory, Que. (Not Upper Gull nor Tshensagi.)

Cheops; mount, west of Rogers pass, between Bear creek and Illecillewaet river, Selkirk mountains, Kootenay district, B.C.
From fancied resemblance to pyramid of Cheops.

Cherry; island, entrance to Key harbour, Georgian bay, Parry Sound district, Ont.

Cherry; lake, northwest of Lost lake, Kenora district, Ont.

Cherry; point, southeast of Cowichan harbour, Vancouver island, B.C.

Cherry. See Robert.

Cherry. See St. Helena.

Cherub; mountain, Tp. 27 R. 30 W. 5 M., Selkirk mountains, Kootenay district, B.C.

Cheslatta; lake, south of Français lake, Coast district, B.C. (Not Chestatta.)

Chetang; ridge, east of Mumm peak, Rocky mountains, Alberta.
Name suggested by geologist; Stoney Indian word meaning "hawk."

Cheticamp; harbour, island, point, post office and river, Inverness county, N.S. (Not Chetacan, Chetican, nor Eastern.)
French name meaning "miserable or unhealthy camp."

Cheticamp Harbour. See Eastern Harbour.

Cheverie; creek and village, Hants county, N.S. (Not Chiverie.)
Possibly after abbé Chevreux, for some years before the expulsion of the Acadians parish priest of Pisiquid.

Chiblow; lake, Montgomery and Scarfe townships, Algoma district, Ont. (Not Macoming.)

Chibougamau; lake and river, tributary to Waswanipi river, Abitibi territory, Que. (Not Chibougamou nor Chibougamoo.)
Indian name meaning "where the water is shut in," in allusion to the very narrow outlet of the lake.

Chichester; island, north of Grenadier island, St. Lawrence river, Escott township, Leeds county, Ont.
Probably after Lt.-Col. Sir Charles Chichester (1795-1847), in 1826, major in the 2nd battalion of the 60th, then serving in America.

Chickens. See Kathlyn.

Chicot; river, Two Mountains county, Que. (Not Petit Chicot.)
From the tree stumps (chicots) in it.

Chidley; cape, entrance to Hudson strait. (Not Chudleigh.)
Named by Davis, 1587, after "The Worshipful M. John Chidley of Chieley, in the county of Devon, esquire, who was apparently chief promoter of an expedition which sailed anno 1589, for the famous Province of Kranco on the coast of Chili by the strait of Magellan."

Chief; island, near north end of lake Timiskaming, Timiskaming county, Que.

Chief Mountain. See Waterton.

Chiefs; island, Couchiching lake, Ontario county, Ont. (Not Chief.)
Burial place of Indian chiefs.

Chiefs; point, lake Huron, on Chiefs Point Indian reserve, Amabel township, Bruce county, Ont.

Chieftain; hill, between Watson and Wheaton rivers, southern Yukon.
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Chignecto; bay, Nova Scotia and New Brunswick. (Not Chignecto channel.)
Probably Indian name meaning "foot cloth."

Chikobi; lake, Guayenne township, Timiskaming county, Que. (Not Chikobee.)

Chikoida; mountain, lat. 59° 14', long. 133° 00', Cassiar district, B.C.

Chilako; river, tributary to Nechako river, Cariboo district, B.C. (Not Chilacco nor Mud.)
Indian name meaning "mud."

Chilanko; river, flowing from Tatla lake into Chilecotin river, Fraser river, Coast and Cariboo districts, B.C. (Not Chilanco.)
Chilo. See Chilko.
Chilcoot. See Chilkoot.
Chilcote. See Chilkko.

Chiliton; village, lake and river, tributary to Fraser river, Cariboo and Lillooet districts, B.C.
Chileut. See Chilkoot.

Childs; lake, Tp's. 30 and 31, R. 26 W.P.M., Manitoba.
Translation of Indian name.

Chilko; lake and river, tributary to Chilecotin river, Fraser river, Coast, Lillooet, and Cariboo districts, B.C. (Not Chilico nor Chilcote.)

Chilkoot; pass, southwest of lake Bennett, B.C., and Alaska. (Not Chilcoot nor Chilcut.)
After Indian tribe.

Chilliwack; lake, Yale district, river, Yale and New Westminster districts, and town, New Westminster district. (Not Chilliwak, Chilliwack, Chillukweyuk, nor Chiloweyuck.)
After Indian tribe.

Chimney; creek, tributary to Fraser river, Lillooet and Cariboo districts, B.C.
From the "chimney"-like bluff of rock at its mouth.

Chimney Island. See Patterson.

Chimney. See Bridge.

Chimo; Hudson's Bay Co. post, Koksoak river, New Quebec territory, Que. (Not Fort Chimo.)
Eskimo name meaning "Are you friendly?" Hudson's Bay Co. Council minutes, York factory, 1831, refer to a new settlement of Ungava to be named fort Chimo.

Chin; coulee and post office, east of Lethbridge, Alberta.
From the shape of a neighbouring hill.

China; butte, creek and ridge, east of Westkettle river, Similkameen district, B.C.
Probably because of placer deposits near the mouth of the creek worked by Chinamen.

China; cove, ¼ mile southwest of Tobermory harbour and reef extending ¼ mile west of cove, Bruce county, Ont.
After schooner "China," wrecked here.

China Hat. See Klemtu.

Chiniguchi; lake, McConnell and Telfer townships, Sudbury district, Ont. (Not Chinigoochichi.)

Chiniki; lake and creek, tributary to Bow river, also mount, southern Alberta. (Not Chiniquy.)
After Stoney Indian chief who signed treaty, Sept. 1877, as "Che-ne-ka."

Chinimicash. See Shimikas.

Chip; lake, Lobstick river, west of Edmonton, Alberta. (Not Dirt nor Lobstick.)
Known about 1800 as Buffalo-chip lake.

Chipewyan; Hudson's Bay, Co. post and settlement, lake Athabaska, Alberta. (Not Fort Chipewyan.)
After Indian tribe; Cree Indian name meaning "pointed skins," hence the people who wear them; Alexander Mackenzie, 1789-93, uses the spellings "Chipewyan" and "Chepe-wyan"; George Keith in a letter to R. Mackenzie, January, 1812, has "Chipewyan."
Chipewyan; lakes and river, flowing into Wabiskaw river in Tp. 90, R. 23, W. 4 M., Alberta. (Not Chipewyan nor Chippewyan.)

Chipman Corner; village, Kings county, N.S. (Not Chipman Corners, Chipmans Corner nor Chipman's Corners.)

After Chipman family.

Chipooin. See Chipuin.

Chippawa; village, Willoughby township, Welland county, Ont. (Not Chippewa.)

After Indian tribe.

Chippewa. See Harmony.

Chippewa. See Welland.

Chipuinh; mountain, Tp. 20, R. 27, W. 6 M., Kamloops district, B.C. (Not Chipoopin.)

Chiputneticook; lakes, headwaters of St. Croix river, western boundary of New Brunswick.

(Not Chiputneticoook nor Chiputnaticook.)

Indian name meaning "big fork river," applied originally to the present St. Croix river.

Chisaunataisi. See Sassawatissi.

Chisholm; shoal, Michael bay, south shore of Manitoulin island, Manitoulin district, Ont.

After lightkeeper, Michael point.

Chismaina; lake, lat. 59° 27', long. 131° 40', Cassiar district, B.C.

Chitek; river and lake, Tp. 58, R. 14, W. 3 M., Sask. (Not Pelican.)

Indian name meaning "pelican."

Chitina; glacier, flowing west across international boundary about 50 miles north of mount St. Elias and joining Logan glacier, Yukon and Alaska.

After Chitina river, which from chitty "copper" and na "river."

Chivelston; lake, on National Transcontinental railway, north of Sturgeon lake, Thunder Bay district, Ont.

Chiverie. See Cheverie.

Chlorydorme. See Cloridorme.

Choelequoit; lake, north of Chilko lake, Coast district, B.C.

Chonat; bay and point, north coast of Quadra island, Coast district, B.C. (Not Lake.)

Indian name.

Chonibans. See Sholiaban.

Chorkbak; inlet, Hudson strait, X.W.T. (Not Tchork-back.)

Chown; lake, Lorrain township, Timiskmaing district, Ont.

After George Y. Chown, registrar, Queen's University, Kingston.

Chown; mount, about 25 miles northwest of mount Robson, Rocky mountains, Cariboo district, B.C.

After Rev. S. D. Chown, general superintendent, Methodist Church.

Christie; mount, also pass, watershed of Ross and Gravel rivers, X.W.T. and Yukon.

After J. M. Christie, prospector.

Christie; mount, southwest of mount Moberly, west of Athabaska river, Alberta.

After Wm. J. Christie, chief factor, Hudson's Bay Co., in charge at Edmonton, 1858-59.

Christie Lake; hamlet, Bathurst township, Lanark county, Ont. (Not Christie's Lake.)

After family of John Christie who obtained a patent for a lot on the shore of the lake, 28 May, 1824.

Christina; bay, south shore of Manitoulin island, east of Burnt island, Manitoulin district, Ont.

After Mrs. Purvis, Burnt island.

Christina; lake and river, tributary to Clearwater river, Athabaska river, Alberta. (Not Pembina.)

After Christina Gordon, sister of postmaster at McMurray.
Christopherson; lake, north of Grand lake Victoria, Timiskaming county, Que.
After L. Christopherson, Hudson's Bay Co. officer.

Christy; creek, east of Whatshan lake, Kootenay district, B.C.

Chrysler. See Chrysler.

Chuan. See Saltspring.

Chudliasi; bay, Hudson strait, N.W.T. (Not Chudli-a-si.)

Chukuni; river, draining through Red lake, Gullrock lake and Pakwash lakes into English river, Patricia district, Ont. (Not Chuch Koone nor Whitefish Spawning.)

Chungo; creek, tributary Blackstone river, Alberta. (Not Trail.)
Named by surveyor; meaning "trail."

Church; point, east of Becher bay, south coast of Vancouver island, B.C.
After Commander W. H. Church, R.N., surveying officer.

Church; point, Markham bay, Hudson strait, N.W.T.

Churchill; river, emptying into Hudson bay, Sask. and Man. (Not English nor Missinippi.)

Chute; cove, Annapolis county, N.S. (Not Chute's cove.)
After early settler.

Ciboux; island, entrance to Great Bras d'Or channel, Victoria county, N.S. (Not Bird.)

Cigar; island, 1 1/2 miles northeast of Chiefs point, Bruce county, Ont.

Cinder; point, east point of Cockburn island, Manitoulin district, Ont.

Cinnamon; range of mountains and snowfield, north of railway between Silver creek and Revelstoke, Selkirk mountains, Kootenay district, B.C. (Not Clach-na-coodin.)
After Clachnacudainn, Inverness, Scotland.

Clair. See Devenyns.

Claire; lake, west of lake Athabaska, Alberta.
Clear Water lake in Sir Alex. Mackenzie's Journal, 10 Oct., 1792; at that time, the deepest of several lakes at Athabaska river delta; now silted up and shallow; name Claire on maps since 1874.

Clairvaux-de-Bagot; village, Bagot county, Que. (Not Clairvaux de Bagot.)
After Clairvaux, village, Aube, France.

Clairville. See Humber.

Clapham; lake, Thetford township, Megantic county, Que.

Clappison; settlement, Flamboro, West township, Wentworth county, Ont. (Not Clappison's Corners.)

Clark; harbour, Cornell Grinnell bay, east coast of Baffin island, N.W.T. (Not Frank Clark.)

Clark; lake, Dungannon township, Hastings county county, Ont. (Not Clark's.)

After Henry Clark, early settler.

Clark; point, Gabarus bay, Cape Breton county, N.S. (Not Low.)
After residents.
Clark; point and reef, 9 miles southwest of Kincardine, Bruce county, Ont. (Not Pine point nor Clark Point reef.)

Clark; range, south of North Kootenay pass, southwestern Alberta, Can. and Montana, U.S. (Not Clarke.)

After Captain Wm. Clark (1770-1835), Lewis & Clark expedition, 1806.

Clark. See Pend-d’Oreille.

Clarke; glacier and peak, southeast of mount Bonney, Selkirk mountains, Kootenay district, B.C.

Clarke; island, Blind bay, Halifax county, N.S. (Not Clarke’s.)


Clay; lake and brook, Villeneuve township, Labelle county, Que. (Not Clay Brook lake.)

Clay; river, tributary to Bell river, Timiskaming county, Que.

Clayoquot. See Opitsat.

Clayoquot; sound, also village, Stubbs island, west coast of Vancouver island, B.C.

After Indian tribe; the name means “people different from what they used to be.”

Clear; creek, tributary to Stewart river, Yukon.

Clear. See Behrmann.

Clear. See Sesaginaga.

Clear. See Smoothrock.

Clear. See Stonehouse.

Clear. See Wakomata.

Clearwater; river, tributary to Athabaska river, Sask, and Alberta.

Clearwater; river, tributary to the North Saskatchewan, at Rocky Mountain house, Alberta.

Descriptive.

Clear Water. See Madge.

Clear Water. See Reader.

Clearwater. See Teggau.

Cleaveland; point, north shore of St. Margaret bay, Halifax county, N.S. (Not Cleveland.)

Named by Captain P. F. Shortland, R.N., 1864; Cleveland is a family name about St. Margaret bay.

Cleftrock; lake, northeast of Kakagi lake, Kenora district, Ont. (Not Cleft Rock.)

Clement; land, in southeastern portion of Baffin island, N.W.T.

Named by Hall, 1862; after W. H. Clement, Cincinnati.

Cleopatra; island, southwest of Grenadier island, St. Lawrence river, Escott township, Leeds county, Ont.

After the “Cleopatra” gunboat on the St. Lawrence, 1812–14.

Cleveland. See Cleaveland.

Cliff; lake, north of Buller township, Kenora district, Ont. (Not Mountain.)

Cline; mount, Tp. 36, R. 20, W. 5 M. and river, flowing into North Saskatchewan river in Tp. 37, R. 18, W. 5 M., Alberta. (Not White Goat nor Cataract.)

After fur trader.

Clinton; creek, Fortymile river, near confluence with Yukon river, Yukon.

Clinton-Golden; lake, northeast of Great Slave lake, N.W.T. (Not Clinton Golden.)

Named by Back after De Witt Clinton (1769–1828), and Cadwallader David Colden, (1769–1834), United States lawyers.

Clio; bay and point, east shore of Kitimat arm, Coast district, B.C.

After H. M. S. “Clio”, which visited Kitimat, 1865.

Clondyke. See Klondike.

Cloridon. See Cloridorne.
Gloridorme; township and village, Gaspe county, Que. (Not Cloridon, Chlorydorme nor Chlorydormes.

The deed of concession, 2 May, 1707, states that the grantee, Charles Morin, requested that the seigniory be named "Cloridon"; the spelling "Cloridorme" is that of the township, proclamation, 28 March, 1871.

Clroyah. See Kloiya.

Club; island, St. Lawrence river, south of Rockport, Escott township, Leeds county, Ont.

Cluster; rocks, Ladysmith harbour, Vancouver island, B.C.

Cloyah. See Kloiya.

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Cloyah. See Kloiya.

Club; island, St. Lawrence river, south of Rockport, Escott township, Leeds county, Ont.

Cluster; rocks, Ladysmith harbour, Vancouver island, B.C.

Cloyah. See Kloiya.
Coekscomb; mountain, near headwaters of Jumpingpound creek, southern Alberta.
Descriptive.

Coehill; post office, Wollaston township, Hastings county, Ont. (Not Coe Hill nor Coe Hill Mines.)
After Wm. Coe, Madoc, sometime owner of the iron mine here.

Coffee; river, tributary to Bell river, Timiskaming county, Que. (Not Brownwater.)
Descriptive.

Coffey; hamlet, Huntingdon county, Que. (Not Coffey's Corners.)
After Andrew Coffey, early settler.

Cogle; pass, head of St. Mary river, Kootenay district, B.C.

Cogmagun; river, Hants county, N.S. (Not Cockmagun, nor Cockmigon.)
Micmac Indian name; Rand says of this word "perhaps cootumeegun—your hatchet."

Colborne. See Colborne.

Colbourne. See Colbume.

Colburne; passage between Piers island and Sannich peninsula, southeast coast of Vancouver island, B.C. (Not Colborne nor Colburne.)
After Edward S. Colburne, R.N., H. M. S. "Hawke", 1855; died 1863.

Cold; brook, tributary to Gizzard river, in lat. 49° 38', long. 77° 45', Abitibi territory, Que.

Cold; lake, Alberta and Sask.
Descriptive.

Cold. See Kississing.

Coldbrook; hamlet, Kings county, N.S. (Not Cold Brook Station.)
After stream, which descriptive.

Cold Brook. See Colebrooke.

Coldstream; river, flowing into lake St. Francis, Frontenac and Megantic counties, Que.

Coldwater; river, emptying into lake Superior, Algoma district, Ont. (Not Blind.)

Coldwater. See Bow.

Cole; point, northwest point of Big island, bay of Quinte, Prince Edward county, Ont. (Not Cole's.)

Cole; rapids, North Saskatchewan river, near confluence with South Saskatchewan, Sask. (Not Cole's nor LaColle.)

Colebrooke; settlement, south of Campbellton, Restigouche county, N.B. (Not Coldbrook nor Cold Brook.)

Coleman; cove and harbour, west of entrance to St. Margaret bay, Lunenburg county, N.S. (Not Coleman's.)

Coleman; island, Sagemace bay, lake Winnipegosis, Man.
After Prof. A. P. Coleman, Toronto.

Coleman; mount, Tp. 36, R. 22, W. 5 M., headwaters of North Saskatchewan river, Rocky mountains, Alberta.
After Prof. A. P. Coleman, Toronto, who made explorations in the Rockies.

Coleraine; township and village, Megantic county, Que. (Not Colraine nor Coleraine Station.)
After Coleraine, town, Londonderry, Ireland.

Collie; mount, north portion of Tp. 30, R. 19, W. 5 M., Rocky mountains, Kootenay district, B.C.
After Dr. J. Norman Collie, F.R.S., joint author with Stutfeld of "Climbs and Explorations in the Canadian Rockies."

Collie. See Yoho.
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Collier; island, Navy group, St. Lawrence river, Leeds county, Ont. (Not Collyer.)
After Commander, later Vice-Admiral, Sir Edward Collier, R.N. (1783-1872); commanded "Princess Charlotte," 18 Nov. 1813.

Collins; creek, flowing into Finlay river, 18 miles below Fort Graham, Cassiar district, B.C.
After Hudson Bay Co. officer who wintered at Collins house, "some thirty years ago."

Collins; shoal, Ladysmith harbour, Vancouver island, B.C.
After L. Collins, petty officer, Admiralty survey, 1903-4.

Collinson; point, Active pass, strait of Georgia, B.C.
After William Tomkins Collinson, J.P., who arrived on the B.C. coast in 1858 and resided on Mayne island at date of the Admiralty survey, 1904.

Colmer; cape, at entrance to Crooks inlet, Hudson strait, N.W.T.
After J. G. Colmer, C.M.G.

Colombe. See Coulombe.

Colombo. See Columbus.

Colquhoun; island, St. Lawrence river, north of St. Regis island, Glengarry county, Ont.
(Not Colquhoun nor Colquhoums.)
After Indian agent at St. Regis.

Colraine. See Coleraine.

Columbia; lake, source of Columbia river, Kootenay district, B.C. (Not Upper Columbia.)
See Columbia river.

Columbia; mountain and snowfield northeast of Kinbasket lake, Columbia river, Alberta and Kootenay district, B.C.; also glacier, Alberta.
See Columbia river.

Columbia; river, Kootenay district, B.C.
Named, 1792, by Captain Gray, after his vessel.

Columbus; glacier flowing west across international boundary north of mount St. Elias, Yukon and Alaska. (Not Colombo.)
Named by Duke of the Abruzzi, who climbed mount St. Elias in 1907.

Comb; islands, James bay, N.W.T. (Not Comb Hills.)

Comb; mountain, south of Hamill creek, head of Kootenay lake, Kootenay district, B.C.

Comb; river, emptying into James bay, New Quebec territory, Quebec. (Not Comb Hills.)

Comblain; mount, Digby island, southwest of Prince Rupert, Coast district, B.C.

Commandant. See Papineau.

Commerell; point, south side of Raft cove, northwest coast of Vancouver island, B.C.

Commerell. See Sutil.

Commissioners; lake, south of lake St. John, Lake St. John county, Que. (Not Commissioner.)
Name on Arrowsmith map, 1834; after the commissioners appointed in 1827 to explore the Saguenay region.

Compass; lake, Burleigh township, Peterborough county, Ont.

Comporté; river, tributary to Murray river, Charlevoix county, Que.
After Philippe Gauthier, sieur de Comporté, grantee of the seigniory of Malbaie.

Cone; mountain, east of Stikine river, north of Scud river, Cassiar district, B.C.
Descriptive.

Cone; mountain, north of Spray mountains, Rocky Mountains park, Alberta.
Descriptive.

Cone; point, west side of lake Evans, Abitibi territory, Que.
Descriptive.

Connaught; mount, big bend of Salmon river, Kamloops district, B.C.
Conn Mills; village, Cumberland county, N.S. (Not Conn's Mills.)

After an early settler and miller.

Connolly; mount between Mackenzie sound and Sutlej channel, Queen Charlotte sound, Coast district, B.C. (Not Connolly.)

After Captain (later, Vice-Admiral) Matthew Connolly, H.M.S. “Sutlej,” on Pacific Station, 1854-59.

Conrad; mount and mining camp, Windy arm, Tagish lake, Yukon. (Not Conrad city.)

After J. H. Conrad, head of mining company.

Conran; island, Brock group, St. Lawrence river, Leeds county, Ont. (Not Refugee.)

After Major-General Henry Conran; appointed to command brigade (6th and 82nd) in Upper Canada, 11th June, 1814; died 1829, aged 62.

Consecon; lake and village, east of Weller bay, Prince Edward county, Ont.

Indian name meaning “pickerel.”

Consolation; creek, emptying into west end of Gladys lake, Cassiar district, B.C.

Staked by unsuccessful miners in the hope of “consolation,” but the name was all they got.

Consolation; valley, Tp. 27, R. 16, W. 5 M., Alberta.

Conspicuous. See Empress.

Constance; island, between Georgina and Hill islands, St. Lawrence river, Lansdowne township, Leeds county, Ont. (Not Bowes.)

Conuma; peak, northeast of Nootka sound, Vancouver island, B.C.

Indian name.

Cony; creek, near mount Woden, Valhalla mountains, Kootenay district, B.C.

Cook; island, east of Grenadier island, St. Lawrence river, Yonge township, Leeds county, Ont.

Cook; lake, Britton township, Kenora district, Ont.

Cook; point, 2 ½ miles below Rockport, Escott township, Leeds county, Ont. (Not Cary nor Cook's.)

After Elias Cook, owner of point, who fought in the British ranks in 1813.

Cook; railway station, Seneca township, Haldimand county, Ont. (Not Cook's.)

Cooking; lake, Tp. 51, R. 21, W. 4 M., Alberta.

Descriptive; a favourite Indian camping ground.

Coolen; cove, Shag bay, Halifax county, N.S.

After family.

Coonan. See Coolen.

Cooper; creek, flowing into Duncan river from west, north of Kootenay lake, Kootenay district, B.C.

Cooper; lake, expansion of Marten river, tributary to Rupert river, Mistassini territory, Que.

Cooper; mountain, pass and creek, west of head of Kootenay lake, Kootenay district, B.C.

Cooper; point, north coast of Quadra island, Coast district, B.C.

After lumberman.

Copeau; river, flowing into Red Deer river in Tp. 43, R. 7, W. 2 M., Sask.

Cooper; mount, Hutshi lakes, southern Yukon.

After George Cooper, member of survey party, 1898.

Copeland; mount, northwest of Revelstoke, Kootenay district, B.C.

After Prof. Ralph Copeland, sometime Astronomer Royal for Scotland.

Copeway; lake, Lake township, Hastings county, Ont.

Possibly after George Copway (1818-63), a Chippewa chief; born near Trenton, Ontario; author and missionary.

Copper; creek, tributary to Hackett river, Sheslay river, Cassiar district, B.C.

Copper; island, south of Teresa island, Atlin lake, Cassiar district, B.C.
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**Copper.** See Zymoetz.

**Copperrcrown;** peak, northeast of mount Toby, also creek, tributary to Toby creek, Kootenay district, B.C.

**Copper Indian.** See Taitson.

**Coquihalla;** lakes, mountain and river, tributary to Fraser river, Yale district, B.C. (Not Coquahalla.)

**Coral;** mountain, Beaverfoot range, Yoho park, Rocky mountains, Kootenay district, B.C.

**Corn.**

**Corn.**

**Corin;** pass and peak, north of Illecillewaet. Kootenay district, B.C.

After prospector from Illecillewaet village.

**Cordero;** channel, north of Sonora and Thurlow islands, Coast district, B.C. (Not Cardero.)

After Joseph Cordero, draughtsman, Galliano’s expedition, 1792.

**Cordova;** bay, between Cowichan head and Gordon head, southeast coast of Vancouver island, B.C. (Not Cormorant.)

Sub-Lieutenant Quimper, of the Spanish Navy in 1790 gave the name of Puerto de Cordova to the harbour of Esquimalt; name transferred to this bay by the officers of the Hudson’s Bay Co., about 1842.

**Cordova.** See Saanichton.

**Corisande;** bay, 9½ miles southeast of cape Hurd, Bruce county, Ont. After schooner “Corisande.”

**Cormorant;** lake, northeast of Pas, Man.

Translation of Indian name.

**Cormorant.** See Cordova.

**Corn;** island, St. Lawrence river, southeast of Gananoque, Leeds township, Leeds county, Ont.

**Corn;** lake, Redditt township, Kenora district, Ont.

**Corn.** See Broughton.

**Corneille;** point, below Goose cape, St. Lawrence river, Charlevoix county, Que.

**Cornet;** ground, 2 miles northwest of Lyal Island light, Stokes bay, Bruce County, Ont. After schooner “Cornet.”

**Cornice;** peak, southern spur of mount Palmer, also glacier, Selkirk mountains, Kootenay district, B.C.

From a snow “cornice” near the summit of the peak.

**Cornwall;** island, west of Ellesmere island, N.W.T. (Not North Cornwall.)

Named by Belcher, 1852, after one of the titles of the Prince of Wales, later, King Edward VII.

**Cornwallis;** island, west of Devon island, N.W.T.

Named by Parry, 1819; after Admiral Sir Wm. Cornwallis (1744–1819).

**Cornwall Park;** summer resort, Big island, bay of Quinte, Prince Edward county, Ont.

**Coronation;** mountain, southwest of Ladysmith, Vancouver island, B.C.

**Corral;** creek, tributary to Bow river, east of Lake Louise, Alberta.

Surveyors and engineers employed on Canadian Pacific Ry. construction had a horse corral here.

**Corry;** lake, expansion of Chalk river, Wylie and Buchanan townships, Renfrew county, Ont. (Not Corry’s nor Curry’s.)

After lumberman.

**Corsair;** mountain, south of South fork of Bush river, tributary to Columbia river from east, Kootenay district, B.C.
Corsair; reef, ¼ mile north of Burke island, Bruce county, Ont.  
After schooner "Corsair."

Corwin; valley, Wheaton river, north of Bennett lake, southern Yukon.  
After a prospector.

Cosine; lake, Tp. 37, R. 28, W. 3 M., Sask.

Costigan; mountain, northeast of Minnewanka lake, Rocky Mountains park, Alberta.  
After late Hon. John Costigan, Minister of the Crown, 1882-96, frequent visitor.

Cosuspeault.  See Causapscal.

Coteau; lake, Tp. 27, R. 8, W. 3 M., also creek, flowing from the lake into South Saskatchewan river, Sask.  
(Not Red Deer.)  
Descriptive.

Côte-des-Neiges-Ouest; village, Laval county, Que.  
(Not Côte des Neiges West.)  
After Notre-Dame-des-Neiges, France.

Cottle; hill, northwest of Departure bay, Vancouver island, B.C.  
(Not Cattle.)

Cottonwood; creek, tributary to Waskana creek, northwest of Regina, Sask.  
Descriptive.

Cottonwood; river, tributary to Dease river, Liard river, Cassiar district, B.C.

Couchiching; lake, north of lake Simece, Ontario and Simece counties, Ont.  
Indian name meaning "outlet," extended to apply to the whole lake.

Coudres; island, Charlevoix county, Que.  
Named by Cartier, 1535, from the abundance of hazel bushes.

Cougar; brook and mountain, Tp. 26, R. 26, W. 5 M., Selkirk mountains, Kootenay district, B.C.  
After the cougar or panther of the mountains.

Cougar; creek, tributary to Little Slocan river, Kootenay district, B.C.

Couldrey; creek, tributary to Flathead river from west, near international boundary, Kootenay district, B.C.  
(Not Calder.)  
After P. Couldrey, mine manager.

Coulombe; lake and river, emptying into lake Aylmer, Wolfe county, Que.  
(Not Colombe.)

Coulome.  See Bras.

Coulthard; mountain, lat. 49° 33', long. 114° 34', Alberta.  
After R. W. Coulthard, mining engineer, Calgary.

Countess Warwick; sound, north shore of Frobisher bay, Baffin island, N.W.T.  
Named by Frobisher, 1577, after Anne, Countess of Warwick, 3rd wife of 21st Earl of Warwick; died 1603-4.

Country; island, with lightstation thereon, Country harbour, Guysborough county, N.S.  
(Not Green.)  
Named Country in 1914 after harbour to avoid duplication of name "Green."

Counts; bank, entrance to Key harbour, Georgian bay, Parry Sound district, Ont.  
After resident of Sault Ste. Marie.

Courcelles; parish and post office, Frontenac county, Que.  
After Chevalier Daniel de Remy de Courcelles, Governor General of New France, 1665-72.

Courtenay; bay, St. John harbour, St. John county, N.B.  
(Not Courtney.)  
Possibly after John Courtenay of the British Ordnance service about 1776; on DesBarres chart, 1775.
Coutlee; plateau, and town, Kamloops district, B.C. (Not Coutlie.)
   After Alexander Coutlee, rancher and storekeeper; settled 1874; born in France; died 1900.

Coutts; river, tributary to Saulteux river in Tp. 68, R. 5, W. 5 M., Alberta.
   After G. M. Coutts, member of survey party; died about 1911.

Cove; island, entrance to Georgian bay from lake Huron, Bruce county, Ont. (Not isle of Coves.)
   Descriptive.

Cove Island; ground, off northwest side of Cove island, Bruce county, Ont.
   See Cove.

Covey. See Coachman.

Cow; island, bay of Quinte, east of Belleville, Prince Edward county, Ont.
   Cow. See Morien.

Cow Bay. See Port Morien.

Cowan; lake and river, flowing into Beaver river in Tp. 62, R. 13, W. 3 M., Sask. (Not Crooked.
   After Wm. Cowan, owner of timber limits near the lake.

Cowan; river, flowing into Cormorant lake in Tp. 61, R. 24, W. P. M., Man.
   After George Cowan, settler.

Cowan; village, Huntingdon county, Que. (Not Cowan’s.)

Cowigiz. See Kagan.

Cowichan; district, harbour, lake, post office and river, Vancouver island, B.C. (Not Cowichan nor Cowitchin.)
   After a group of Salish tribes occupying the southeast coast of Vancouver island

Cowichan. See Separation.

Cowitch. See Cowichan.

Cox; lake, Burleigh township, Peterborough county, Ont. (Not Cox’s.)

Coyle; cove and head, west shore of Blind bay, Halifax county, N.S. (Not Coyle’s nor Kieley.)
   Named by Captain P. F. Shortland, R.N., 1864.

Crab; cove, 6 miles north of Chiefs point, Bruce county, Ont.

Craig; mount, lat. 61° 16', long. 140° 53', Yukon.
   After J. D. Craig, D.L.S.

Craigis. See Stanley.

Cranberry; creek, flowing into Upper Arrow lake from west, below Columbia river, Kootenay district, B.C.

Cranberry; lake, source of Grass river, Man.
   Translation of Indian name.

Cranbrook; town, Kootenay district, B.C.

Crandell; mount, between Blakiston and Cameron brooks, Tp. 1, R. 30, W. 4 M., southern Alberta.
   After oil prospector.

Crane; river, lake and bay of lake Manitoba, Tp. 29, R. 13, W. P. M., Man.
   Translation of Indian name.

Crater; lake, north of Chilkoot pass, Cassiar district, B.C.
   Descriptive of outline.

Crayfish; lake, 5th lake on Grassberry river, Sask. (Not Lobster.)
   Translation of Indian name.
Crean; lake and creek, tributary to Montreal lake, Sask. (Not Trout.)
   After F. J. P. Crean, C.E.

Crease; island, entrance to Knight inlet, Coast district, B.C. (Not Lewis.)
   After Sir Henry Pering Pel-lew Crease (1823-1905), 25 years Judge of the Supreme Court, British Columbia.

Credit Forks; village, Caledon township, Peel county, Ont. (Not Forks of Credit.)
   After the forks on the river Credit, which from a trading place on it where the Indians traded and got credit.

Creigh-ton. See Crichton.

Crémazie; lake, Sabourin township, Timiskaming county, Que. (Not Sturgeon.)
   After Octave Crémazie, Canadian poet.

Creston; village, Kootenay district, B.C.

Crete. See Chamberlain.

Crichton; beach, head, island and shoal, southwest of Madame island, Richmond county, N.S. (Not Creighton.)
   After David Crichton, immigrant to Pictou from Dundee, Scotland, in 1812, who bought land on the island and established a fishing business in 1824.

Crooked; lake, international boundary, Rainy River district, Ont.
   Descriptive.

Crooked; lake, Qu'Appelle river, Sask.
   Descriptive.

Crooked. See Caron.

Crooked. See Cowan.

Crooked. See Wakaw.

Crooked Gutways. See Kwatsilasi.

Crooks; inlet, Hudson strait, N.W.T. (Not Ka-lik-took-duag.)
   After Ramsay Crooks, president, American Fur Co., and partner of J. J. Astor, founder of Astoria, Columbia river.

Crosby; lake, McVittie township, Timiskaming district, Ont.

Cross; lake, receiving the East and West channels of Nelson river, Manitoba.
   Canoe routes "cross" it.

Cross; mount, lat. 54° 05', long. 120° W., Rocky mountains, Alberta.
   After C. R. Cross, United States citizen, member of exploratory party in the region in 1914; killed in France in 1915, while engaged in ambulance work.

Cross; point, Mann township, Bonaventure county, Que.
   A document of 1823 refers to measurements "from the cross standing or which heretofore did stand" on the point.
   See Cross point.

Cross; river, tributary to Kootenay river, Kootenay district, B.C.
   Translation of Indian name alluding to a cross erected at the watershed by De Smet, 1845.

Cross. See Bamaji.

Cross. See Brion.

Crossman; post office, Albert county, N.B. (Not Niagara.)
   After Albert H. Crossman, postmaster.

Cross Point; village, Mann township, Bonaventure county, Que. (Not Crosspoint.)

Crow; river, Hastings and Northumberland counties, Ont.
   Translation of Indian name.

Crow. See Queensport.
SESSIONAL PAPER No. 25c

Crowfoot; creek, flowing into Bow river, southwest of Crowfoot railway station, Alberta. After Crowfoot, Blackfoot chief; died, 1890.

Crowlodge; creek, tributary to Oldman river, Alberta. Indian name meaning literally "the lodges with crows painted on them."

Crown; mountain, central portion of Vancouver island, B.C. Descriptive.

Crowsnest; lake, mountain, pass, railway station and river, Alberta and Kootenay district, B.C. (Not Crow Nest, Crow's Nest, Crow-nest nor Crownest.) Descriptive; a Palliser Expedition map, 1859, shows "Crow" river and at its head "lodge des Corbeaux"; a Palliser Expedition map, 1860, shows "Crow Nest" river and "Crow Nest" pass.

Crysler; island, St. Lawrence river, Dundas county, Ont. (Not Chrysler.) After John Chrysler, settler, whose signature so appears on a petition of 1793.

Crysler; village, Finch township, Stormont county, Ont. (Not Chrysler.) See Chrysler island.

Crystal; bay, Crooks township, Thunder Bay district, Ont. From crystals found in a mine on an island in the bay.

Crystal; butte, mountain and creek, flowing from south into Beaverdell creek, Westkettle river, Similkameen district, B.C. (Not South fork of Beaver.) Crystal. See Lovering.

Crystal. See Caldwell.

Cugnet; river, tributary to Beaurivage river, Levis county, Que. (Not Cugnet nor Quenotte.) After François Joseph Cugnet, seignior of St. Etienne.

Cugnet. See Cugnet.

Cultus; lake, near international boundary, New Westminster district, B.C. (Not Swehl-tcha.) Chinook for "worthless."

Cumberland; lake, eastern Sask. (Not Pine Island.) Cumberland House lake on map of Peter Pond, 1784; after Prince Rupert (1619-1682), Duke of Cumberland, first governor of Hudson's Bay Co.

Cumberland; peninsula and sound, in southeastern portion of Baffin island, N.W.T. (Not Northumberland, Hogarth nor Penny.) The sound named by Davis, 1587, after Admiral George, 3rd Earl of Cumberland (1558-1605).

Cumming; point, Drury inlet, Queen Charlotte sound, Coast district, B.C. (Not Cumming nor Cummings.) Named about 1863 after Captain Arthur Cumming, R.N.

Cumming; point, southwest point of Gribbell island, Coast district, B.C. Named by Vancouver, 1793, after Captain Cumming, R.N., who was living in 1838, a retired Vice-Admiral.

Cundall; bay, east coast of Horsfall island, Raymond passage, Coast district, B.C. After vicarage, Yorkshire, England.

Cunliffe; island, Navy group, St. Lawrence river, Leeds county, Ont. (Not Cunliffe.) After Capt. Chas. Cunliffe Owen, R.N., appointed to Great lakes fleet, 1813; acting commander, gunboat establishment, 28 March, 1814; invalided, March, 1815; retired captain, 24 Feb., 1852.

Cupola; mountain, Tp. 30, R. 26 W. 5 M., Selkirk mountains, Kootenay district, B.C. Descriptive.

Cure. See Lebel.

Currie; hamlet, Oxford East township, Oxford county, Ont. (Not Currie's Crossing.) After George Currie, settler.
Currie; mount, head of Lillooet lake, Lillooet district, B.C.
After John Currie, pioneer settler at Pemberton meadows.

Currie's Crossing. See Currie.

Curry's. See Corry.

Curtain; falls, between Crooked and Iron lakes, international boundary, Rainy River district, Ont.

Curtis; peak, southeast of mount Biddle, Rocky mountains, Kootenay district, B.C.
After R. T. Curtis, president, Appalachian Mountain Club, Boston, 1891.

Cut. See Lindsay.

Cutarm; river, tributary to Qu'Appelle river, southern Sask. (Not Big Cutarm.)

Cutknife; creek, hill, and post office, south of Battle river, Sask. (Not Cut Knife.)
After Sarcee Indian chief, killed on the hill in battle with Crees.

Cyclone; peak, outlying spur of mount Drummond, Rocky mountains, Alberta.
Descriptive of storm raging when named.

Cypress; hills, southern Alberta and Sask.
Descriptive of jackpine forest; the "cypres" of the voyageurs.

Cypress; lake, Cypress hills, southwestern Saskatchewan.
See Cypress hills.

Cypress; lake, east of Knife lake, international boundary, Rainy River district, Ont.

Cypress; river, flowing into Assiniboine river in Tp. 8, R. 11 W.P.M., Man.
Name in Henry's Journal, 1806.

Cyprian; peak, Bishops range, Selkirk mountains, Kootenay district, B.C.
After Cyprian, bishop of Carthage.

Cyrus Field; bay, north of Frobisher bay, Baffin island, N.W.T. (Not Cyrus W. Field.)
Named by Hall after Cyrus West Field (1819-92).

D

Dack; spit, 1 mile west of Port Elgin, Saugeen township, Bruce county, Ont.
After citizen of Kincardine.

Dadanscour. See Giroux.

Dago; creek, tributary to Little Slocan river, Kootenay district, B.C.

Dahadinni; river, tributary to Mackenzie river above Gravel river, N.W.T. (Not Dahadiname-
nor Dahadinne.)

Dail; creek, tributary to Wheaton river from northwest, above the big bend, Yukon.
After George Dail, prospector.

Dail; peak, west of Windy arm, Tagish lake, near interprovincial boundary, Yukon.
See Dail creek.

Dainard; creek, tributary to Moose creek, also lake, east of creek, Yoho park, Rocky mountains,
Kootenay district, B.C.
After Manuel Dainard, guide, Golden.

Daisy; lake, Chekamumus river, New Westminster district, B.C.

Dalesville; river, tributary to West river, Argenteuil county, Que. (Not Middle branch of West.)
After Daniel Dale, settler, about 1829.

Dalhousie Station; village, Soulanges county, Que. (Not Dalhousie Mills.)
After George Ramsay, 9th Earl of Dalhousie (1770-1838), Governor General of Canada
1820-28.

Dalhousie Mills. See Dalhousie Station.

D’Alogny. See Maple.
GEOGRAPHIC BOARD OF CANADA

SESSIONAL PAPER No. 25c

Dalton; range of mountains, near Dezadeash lake, southwestern Yukon.
After Jack Dalton, who cut out and improved an Indian path and made it an excellent trail for pack horses from the coast to the interior.

Daly; mount, Tp. 29, R. 18 W. 5 M., Rocky mountains, Alberta and Kootenay district, B. C.
After Judge Chas. F. Daly, president, American Geographical Society, 1864-99.

Dane; island, east of Lyal island, Stokes bay, Bruce county, Ont.

Daniels; lake, south of Cañon lake, Kenora district, Ont. (Not Daniel nor Danish.)

Dansereau; island, Verchères group, St. Lawrence river, Verchères county, Que. (Not Larose.)

Daoust; mount, south of Lewis river, Yukon.

After telegraph operator, Tantalus, Yukon.

Dares; point, east side of Mahone bay, Lunenburg county, N. S. (Not Indian.)

Common family name in Lunenburg county.

Dark; island, St. Lawrence river, below Gananoque, Leeds township, Leeds county, Ont.

Dark. See Aubrey.

Darlens; river, flowing into Ottawa river in Darlens township, Timiskaming county, Que. (Not Bear.)

After captain of regiment of Guyenne under Montcalm.

Darlington; township and village, Durham county, Ont.


Darrah; mount, lat. 49° 28', long. 114° 36', Alberta and Kootenay district, B. C.

After Captain Darrah, astronomer, British Boundary Commission, Rockies to Pacific.

Dashwood; island, north of Hill island, St. Lawrence river, Lansdowne township, Leeds county, Ont.

Dasserat; lake, Dasserat township, Timiskaming county, Que. (Not island, Mattawagosik, nor Obadowagashing.)

After Dasserat, Croix de St. Louis, regiment de la Reine, New France.

Datlasaka; creek, flowing easterly into the upper part of Keball river, also mountains between Nadahini, Parton, and Tatshenshini rivers, Cassiar district, B. C. (Not Datlasahka nor Datlasawka.)

Dauphin; lake and town, west of lake Manitoba, Man.

Verendrye founded Fort Dauphin on the shores of the lake in 1741, naming it after the then, Dauphin of France.

Dauphin; river, emptying into Sturgeon bay, lake Winnipeg, Man. (Not Little Saskatchewan.)

See Dauphin lake.

Dauphinee; lake, Lunenburg county, head, Hubbard cove, and mountain, north of Head harbour, St. Margaret bay, Halifax county, N. S. (Not Dauphiney nor Dauphney.)

After John F. Dauphinee, who owned the land around the lake.

Dauphney. See Dauphinee.

Dave; bay, south side of Great Duck island, Manitoulin district, Ont.

Davenport; creek, flowing into Gladys lake from south in lat. 59° 54', long. 133° 06', Cassiar district, B. C.

David; lake, emptying into Sandpoint lake, Rainy river district, Ont. (Not Whitefish.)

After David Thompson (1770-1857), pioneer geographer of the Northwest; British astronomer on the International Boundary survey.

David; point, Fern passage, northeast of Kaien island, Coast district, B. C.

David; river, tributary to Yamaska river, Drummond and Yamaska counties, Que. (Not St. David.)

On title of Deguir seigniory, 1751.

Davidson; mountains, between Ladue river valley and McQuesten lakes, Yukon.
Davie. See Davy.

Davies; lake, draining into Sturgeon river, near eastern boundary of Kenora district, Ont. After Grand Trunk Pacific Ry. official.

Davis; creek, flowing into Kootenay lake, south of Lardeau, Kootenay district, B.C.

Davis; island, Navy group, St. Lawrence river, Leeds county, Ont.

Davis; lake, Lutterworth township, Haliburton county, Ont. (Not Davis'.)

Davy; lake and river, Trécesson township, Timiskaming county, Que. (Not Davie.) After R. C. Davy, C.E., formerly on staff of National Transcontinental Ry.

Dawkins. See Jorkins.

Dawson; bay, northwest portion of lake Winnipegosis, Man. See Dawson city.

Dawson; capital city of Yukon territory. (Not Dawson City.) After George M. Dawson, C.M.G., LL.D., sometime director of the Geological Survey of Canada, explorer of Stikine, Deas, Frances, Pelly, Lewes, and other Yukon rivers.

Dawson; harbour, north of entrance to Skidegate channel, west coast of Graham island, Coast district, B.C.

Dawson; island, east of Kelvin island, lake Nipigon, Thunder Bay district, Ont.

Dawson; mount and glacier, Tp. 25, R. 25, W. 5 M., Selkirk mountains, Kootenay district, B.C. See Dawson city.

Dawson; peak, Teslin lake, Yukon.

Dawson; point, south point of Harris township, Timiskaming district, Ont.

Dawson; point, north end of Primrose island, entrance to Douglas channel, Coast district, B.C.

Dawson; range of mountains, confluence of Lewes and Polly rivers, Yukon.

Dawsonvale. See Dawsonville.

Dawsonville; town, Restigouche county, N.B. (Not Dawsonvale.) After John Dawson, first postmaster.

Dayman; island, west of south end of Thetis island, Stuart channel, southeast coast of Vancouver island, B.C.

Deacon; lake, Melick township, Kenora district, Ont. (Not Ant.)

Dead; island, entrance to Key harbour, Georgian bay, Parry sound district, Ont. Indian burial-place.

Dead Island; reef, ½ mile south of Dead island, entrance to Key harbour, Georgian bay, Parry Sound district, Ont. See Dead island.

Deadman; harbour and head, Charlotte county, N.B. (Not Deadman's.) There is a tradition that, long ago, bodies were found floating in the harbour and buried on the head.

Deadman; islets (2), east of Beck island, also channel between islets and spit extending north from Felice island, Clayoquot sound, Vancouver island, B.C.

Dean; bay and spit, 3 miles northwest of Providence point, Manitoulin island, Manitoulin district, Ont. After David and Thomas Dean, owners of timber lands.

Dean; channel, Coast district, B.C. Named by Vancouver in 1793 after Dean King of Raphoe in Ireland, under whose son he had served.

Dease; lake and river, tributary to Liard river, Cassiar district, B.C. After Peter Warren Dease, in charge of New Caledonia for the Hudson's Bay Co.; accompanied Franklin's Arctic expedition, 1825-27; senior officer of the Dease and Simpson Arctic expedition, 1837-39.
SESSIONAL PAPER No. 25c

Deathdealer; island, Lake Fleet group, St. Lawrence river, Leeds county, Ont.
After a gunboat on the St. Lawrence, 1812-14.

De Beaujeu; island, St. Lawrence river, Soulanges county, Que. (Not Grande ile aux Erables.)

Debert; river and village, Colchester county, N.S. (Not DeBERT.)

Debert. See Masstown.

Deception; bay, Hudson strait, New Quebec territory, Que. (Not Foster's Harbour nor Sheduil.)

DeCewville; hamlet, Cayuga North township, Haldimand county, Ont. (Not Decewville.)
After Edmund Robert and William DeCew, pioneer settlers. Edmund DeCew was the first warden of Haldimand county, 1850.

Decker; lake, Endako river, south of Babine lake, Coast district, B.C.

De Courcy; group of islands, Pylades channel, southeast of Nanaimo, Vancouver island, B.C. (Not De Courcy.)

Deep. See Trepanege.

Deep Eau. See Depot.

Deepwater; lake, Beauneville township, Timiskaming county, Que.

Deer. See Atikwa.

Deer. See Georgina.

Deer; island 83 miles south of Grindstone point, lake Winnipeg, Man. (Not Punk.)

Deer. See Punk.

Deer Lodge. See Pend d'Oreille.

Deer Park; mountain and post office, east of Lower Arrow lake, Kootenay district, B.C. (Not Deer mountain.) Descriptive.

Delany; lake, southeast of Lount lake, English river, northern boundary of Kenora district, Ont.

Delap Cove; village, Annapolis county, N.S. (Not Delap's Cove.)
After settlers named Delap, shipbuilders, about 1850.

Delisle; river, tributary to the St. Lawrence, Glengarry county, Ont., and Soulanges county, Quebec. (Not De Lisle nor L'Isle.)

Delorier. See Deslauriers.

Delphine; mountain, and creek, tributary to Toby creek in lat. 50° 24', long. 116° 19', Kootenay district, B.C. (Not North fork of Toby creek.)

Deltaform; mountain,Tp. 27, R. 17, W. 5 M., Alberta and Kootenay district, B.C.
Descriptive.

Deltchore; mountain, upper Gravel river, opposite mouth of Natla river, N.W.T.
Descriptive Indian name meaning "mountain of yellowish colour".

Delusion; bay, in southeast portion of Digby island, Coast district, B.C.
At high water has the appearance of a fine cove, but at low water is a mud flat.

Demaniel; creek, flowing into Sooke harbour, south coast of Vancouver island, B.C.

Demers; peak, Valhalla mountains, west of Sloane lake, Kootenay district, B.C. (Not DeMers.)

Demers; rock, east of Brandypot channel, St. Lawrence river, Temiscouata county, Que.

Denoiselle; cape and creek, Albert county, N.B. (Not D'Moiselle, cap de Moselle, nor cap de Moiselle.)
Probably from the effigy of a woman in the sandstone of the cape.

De Montigny; lake, Dubuisson and Varsan townships, Timiskaming county, Que. (Not Kiemawisk nor Kienawisk.)
After Madame Devlin, née de Montigny, wife of C. R. Devlin, Minister of Colonization and Mines, Quebec.
Denise; arm, northeast arm of Morse basin, east of Kaien island, Coast district, B.C.

After Denise, daughter of Dennis Harris, land surveyor, Victoria.

Denmark; lake, south of Atikwa lake, Kenora district, Ont.

Dennis; creek, tributary to Wilson creek, northeast of Slocan lake, Kootenay district, B.C.

(Not East fork of Wilson.)

Dennis; mount and pass, south of Field railway station, Kootenay district, B.C.

Named, 1887, after the late Col. John Stoughton Dennis, Surveyor General of Dominion Lands and Deputy Minister of the Interior.

Dennis. See Denys.

Dent; mount, head of South fork of Bush river, north of mount Freshfield, Rocky mountains, Alberta and Kootenay district, B.C.

From resemblance to a tooth.

Denver; creek, tributary to St. Mary river, Kootenay district, B.C.

Denver; mount, west of Slocan lake, Kootenay district, B.C.

Denys; river, Inverness county, N.S.; (Not Dennis.)

After Nicholas Denys, sieur de Fronsac, appointed, in 1654, Governor of Cape Breton, Prince Edward Island and part of Newfoundland.

Departure; bay, north of Nanaimo, Vancouver island, B.C.

Named by Hudson's Bay Co. officers, 1853.

Depot; creek and lake, Hinchinbrooke township, Frontenac county, Ont. (Not Deep Eau.) Descriptive; lumber camps storehouse.

Depot; island, west of Supply point, Depot harbour, Parry Sound district, Ont. (Not Supply.)

De Rottenburg; island, Brock group, St. Lawrence river, Leeds county, Ont. (Not Bluff.)

After Major General Francis, Baron de Rottenburg, K.C.H.; in command of troops in Upper Canada, 1813; administrator of Upper Canada, 1813 and 1814.

Derry; hamlet, Toronto township, Peel county, Ont. (Not Derry West.)

Derry West. See Derry.

De Salaberry; island, St. Lawrence river, Beauharnois county, Que. (Not Grand.)


Descanso; bay, Gabriola island, strait of Georgia, B.C. (Not Knight nor Rocky.)

Named cala del Descanso "bay of rest," by Galiano and Valdes at the close of a stormy day, 15 June, 1792.

Deschaillons; seigniory and village, Lotbinière county, and island in Richelieu river, Richelieu county, Que. (Not d'Eschaillons, des Chaillons, Eschaillons, St. Jean Deschaillons nor St. Jean-Baptiste Deschaillons.)

Frontenac granted the seigniory to Jean Baptiste de St. Ours, sieur Deschaillons, 25 April, 1674; L'Eschaillon is the name of the estate in Grenoble from which the title originally came; the spelling adapted is that used in 1835, in the proclamation erecting the parish of St. Jean-Baptiste-de-Deschaillons.

Deschambault; lake, south of Churchill river, and river flowing through it from Wapawekka lake, Sask. (Not Bear.)

Named by A. S. Cochrane, surveyor, 1880, after Hudson's Bay Co. postmaster, Reindeer lake.

Deschênes; hamlet, Ottawa county, Que. (Not Deschenes Mills.)

From "oak trees," on an island.

D'Esousse; harbour and village, Madame island, Richmond county, N.S. (Not Descouse Descousse nor Discousse.)

The name was known as early as 1752. L'Abbé Bailly writes in his Missionary Register, under date 5 Oct., 1771, that he had, that day, baptised several Acadian children at Decoux, Isel Madame.
Deseronto; town, Tyendinaga township, Hastings county, Ont. 
After John Deseronto, chief of the Six Nation Indians.

Desert; point, northeast point of Great Duck island, Manitoulin district, Ont. (Not Sand.) Descriptive.

Deseticaux. See Azatika.

Deslauriers; island, St. Lawrence river, Verchères county, Que. (Not Delorier.)

De Smet (roche); a mountain, west of Jasper lake, Jasper park, Alberta. (Not roche Suette.) After Pierre-Jean De Smet (1801-73), missionary; at Jasper house, 1846.

Desolation. See Ten Peaks.

Desolation. See Wenkchemna.

Desormeaux; lake, southern portion of Northfield township, Ottawa county, Que. (Not Desormeau nor Dessormeau.)

Despair. See Espoir.

Des Prairies; river, a channel of Ottawa river, separating Montreal and Jesus islands, Laval and Jacques-Cartier counties Que. (Not Back.)
On Sanson D'Abbeville's map, 1650. After "Des Prairies," French pilot. (Father Vimont's Jesuit Relation, 1640.) Radisson's account of his third journey inland, 1658-60, written in English refers twice to "the river of the meadows."

De Stein; point, north of Wolfe island, north shore of Prince Rupert harbour, Coast district, B.C. 
After Grand Trunk Pacific Ry. surveyor.

Devenyns; lake, St. Maurice county, Que. (Not Cawaskikamick nor Clair.) Named in 1914 after Leonard Devenyns, Van Bruyssel, Que.

Devie; mount, about 6 miles northwest of Ottertail railway station, Rocky mountains, Kootenay district, B.C. 
After E. G. Deville, LL.D., surveyor general.

Devils Head; mountain, Tp. 27, R. 10, W. 5 M., Alberta. (Not Devil's Head.) Translation of Indian name; Sir Geo. Simpson says it bears "a rude resemblance to an upturned face."

Devil's Head. See Minnewanka.

Devil's Pine. See Ghostpine.

Devizes; lake, 9 miles south of Savant lake, Thunder Bay district, Ont. 

Devon; island, north of Baffin island, N.W.T. (Not North Devon.) Named by Parry, 1820, after Devon, the native county of Lieut. Liddon, his second in command.

De Watteville; island, Brock group, St. Lawrence river, Leeds county, Ont. (Not Guide.) After Major General Abraham Louis Charles de Watteville; on army staff, 1812-14, went on half-pay, 1816.

Dewdney; mount, Porcupine river, Yukon. 
After late Hon. Edgar Dewdney, Minister of Interior, Canada, 1888-92.

Dezadach; lake and river, tributary to Alsek river, southwestern Yukon.

Dez Amecane. See Azatika.

Diable; (cap au), cape, west entrance to Kamouraska bay, Kamouraska county, Que.

Diamond; island, north shore of Hudson strait, N.W.T. Named 1897, the year of Queen Victoria's Diamond Jubilee.

Diamond; lake, Herschel township, Hastings county, Ont. Descriptive of outline.
Diana; bay, west of cape Hopes Advance, Hudson strait, New Quebec territory, Que.  
After the sealing steamer "Diana", Dominion Government expedition, 1897.

Dibble; creek, tributary to Bull river, Kootenay district, B.C.  
After James Dibble, prospector, drowned in Skeena river, 1909.

Dickey; lake, Lake township, Hastings county, Ont. (Not Dickey's)  
After Dickey, or Dickie, who formerly trapped and hunted on the lake and who was  
shot about 1865.

Dickinson Landing; village, Osnabruck township, Stormont county, Ont. (Not Dickenson's  
Landing nor Dickinson's Landing.)  
After Horace Dickinson, partner in early transportation company on lake St. Francis.

Dickson; hill, south of Wheaton river, southern Yukon.  
After O. Dickson, prospector.

Dinghy; island, Lake Fleet group, St. Lawrence river, Leeds county, Ont. (Not 34g.)  
In proximity to "Barge," "Gig," "Jolly," and "The Punts" islands, all named after  
types of boats.

Dinorwic; lake, Wabigoon river, immediately above Wabigoon lake, also hamlet, Kenora  
district, Ont. (Not Little Wabigoon.)

Dirt.  See Chip.

Dirtywater.  See Houghton.

Discousse.  See D’Escousse.

Discovery; lake, east of Minnitaki lake, Kenora district, Ont.  
Discovery.  See Plumper.

Disella; lake, lat. 59° 20', long. 131° 45', Cassiar district, B.C.

Dispatch; island, Columbia river, near south end of Upper Arrow lake, Kootenay district,  
B.C. (Not Despatch.)

Disraeli; bay, northern end of lake Aylmer, also village, Wolfe county, Que. (Not D’Israeli.)  
Named in 1878 after Benjamin Disraeli, Earl of Beaconsfield, then Prime Minister.

Distingué; mount, headwaters of Skeena river, Cassiar district, B.C. (Not Table.)

Division; mountain, lat. 61° 20', long. 135° 57', east of Nordenskiöld river, Yukon.

Dixie; mount, lat. 59° 35' long. 133° 09', also lake, south of O’Donnel river, Cassiar  
district, B.C.

Dixie.  See O’Donnel.

Dixon; lake, Limerick township, Hastings county, Out. (Not Dixon’s.)

Dixon Corners; village, Matilda township, Dundas county, Ont. (Not Dixon’s Corners.)  
After Adam Johnston Dixon, first postmaster; died about 1855.

Dobbs; island, St. Lawrence river, Lansdowne township, Leeds county, Ont. (Not Hay.)  
After Lieut. Alex T. Dobbs, R. N., promoted to commander, 1814; moving spirit in  
capture of "Ohio" and "Somers" on lake Erie.

Doctor; creek, flowing from southwest into Findlay creek, tributary to Kootenay river, south  
of Columbia lake, Kootenay district, B.C. (Not Middle fork of Findlay.)

Doctor; island, between Russell island and Tobermory harbour, northwest extremity of Bruce  
county, Ont.

Doctor; island, south of Tar island, St. Lawrence river, Escott township, Leeds county, Ont.  
(Not Doctor’s.)  
Named by Charles Unwin, surveyor, 1873, after Dr. Cornwall, of Rockport.

Doctor; island, south shore of Hudson strait, N.W.T.  
After Dr. McDonald, surgeon, Diana expedition, 1897.

Dodd; narrows, between Mudge and Vancouver islands, B.C.  
After Captain Charles Dodd (1808-1860), Hudson’s Bay Co.
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Dodge; cove and island, north of Elizabeth point, Digby island, Prince Rupert harbour, Coast district, B.C.

After G. B. Dodge, who surveyed the harbour, 1906.

Dog; island, with light-station, opposite Seal cove, north shore of Lennox passage, Richmond county, N.S. (Not Seal.)

From the dog seal.

Doghead; point, northeast entrance point to narrows of lake Winnipeg, Man. (Not East Doghead.)

Doghole.' See Annimwash.

Dog's Head. See Whiteway.

Dogtooth; mountains, west of Columbia river, above Beaver river, Selkirk mountains, Kootenay district, B.C.

Descriptive.

Dokdaon; creek, tributary to Stikine river from east, above Clearwater river, Cassiar district, B.C.

Dokis; island, entrance to Key harbour, Georgian bay, Parry Sound district, Ont.

After Chief Dokis, Nipissing band of Indians.

Dollis; creek, tributary to Tatshenshini river, southwestern Yukon.

Dolly Varden; mountain, northeast of Slocan lake, Kootenay district, B.C.

Dolomite; lake, Cowan river, Tp. 63, R. 22, W. P. M., Man. (Not Limestone.)

Dolomite limestone on shores.

Dolomite; pass and peak, east of Bow lake, Rocky mountains, Alberta and Kootenay district B.C.; also stream, Alberta.

On account of resemblance to the Swiss "Dolomites."

Dombourg; islets, St. Lawrence river, near Pointe-aux-Trembles, Portneuf county, Que. (Not Dombour.)

Anagram from Bourdon; Jean Bourdon received a grant of the island.

Dome; mountain, 5 miles south of Broadback river, 15 miles above lake Evans, Abitibi territory, Que.

Dominick; lake, Rugby township, Kenora district, Ont. (Not Dominic).

Probably Christian name of a member of A. A. Macdougall’s survey party of 1896.

Dominion; creek, tributary to Indian river, southeast of Dawson, Yukon.

Dominion; point, south extremity of Mills township and bay, east of point, Manitoulin island, Manitoulin district, Ont.

Don; lake, northeast of Redditt township, Kenora district, Ont.

Don; river, flowing into lake Ontario, York county, Ont. (Not West branch of Don.)

After Don, river, England.

Don. See Little Don.

Donald. See McDonald.

Donaldson; island, east of Sooke inlet, south coast of Vancouver island, B.C. (Not Secretary.)

After resident.

Donbour. See Dombourg.

Dondaine; island, St. Lawrence river, Soulanges county, Que. (Not Soulanges.)

Donjek; river, tributary to White river, Yukon.

Donkin; mount, glacier, and pass, between mount Donkin and Dawson, Selkirk mountains, Kootenay district, B.C.

Named in 1888, after a member of Alpine Club, London, England, killed that year in the Caucasus with his Swiss guide.

Donnegana; lake, west boundary of Hennessy township, also river flowing from the lake into Nabakwasi river, Sudbury district, Ont. (Not Shanakani.)
Doobaunt. See Dubawnt.

D’Or; cape, Cumberland county, N.S. (Not Dore nor D’Ore.)
   Called by early French explorers, who mistook native copper for gold, cap des Mines or Doré.

Dorcas; bay, 7 miles east of cape Hurd, Bruce county, Ont.
   After steam barge “Dorcas Pendall.”

Dore. See d’Or.

Doré (baie du); bay, 11 1/2 miles north of Kincardine, Bruce county, Ont.

Dorion. See Vaudreuil.

Dorothy; island and narrows, Devastation channel, east of Hawkesbury island, Coast district, B.C.
   After Dorothy, daughter of Lieutenant Colonel W. P. Anderson, chief engineer, Department of Marine and Fisheries, Canada.

Dorvilliers; island, St. Lawrence river, Berthier county, Que. (Not Cochons nor Yellow.)

Dotty; lake, Finlayson township, Nipissing district, Ont. (Not Dotty’s.)

Double. See Brandon.

Douglas; channel, between west shore of Hawkesbury island and the mainland, Coast district, B.C.
   See Douglas mount, Vancouver island.

Douglas; creek, tributary to Brewster creek, southwest of Banff, Alberta.
   After Howard Douglas, sometime superintendent, Rocky Mountains park.

Douglas; harbour, Hudson strait, New Quebec territory, Que.
   After late Capt. Bloomfield Douglas, Department of Marine and Fisheries of Canada.

Douglas; lake, east of mount Douglas, Rocky mountains, Alberta.
   See Douglas mount.

   After David Douglas (1798-1834), Scottish botanist, who crossed the Rockies, 1827.

Douglas; mount, north, Vancouver island, B.C.
   After Sir James Douglas (1803-77), Governor of Vancouver island, 1851-58; Governor of British Columbia, 1858-64; he gave it and the surrounding land to the city of Victoria.

Douglas; point, 10 miles north of Kincardine, Bruce county, Ont.

Douglas; point, northwest shore of Prince Rupert harbour, Coast district, B.C
   See Douglas mount, Vancouver island.

Douglas. See Kitchener.

Douglas. See Protection.

Dover. See Taylor.

Dover East; township, Kent County, Ont.
   After Dover, channel port, Kent, England.

Dover South. See Paimcourt.

Dowker’s. See Lynch.


Downey; bay, Ottawa river, Sheen township, Pontiac county, Que. (Not Armstrong nor Downey’s.)

Downie; island, Navy group, St. Lawrence river, Leeds county, Ont. (Not Float.)
   After Commander George Downie, R.N.; killed in action on lake Champlain, 11 Sept., 1814.

Doyle; island, Blind bay, Halifax county, N.S. (Not Doyle’s.)
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Dozois; lake, east of Grand lake Victoria, Pontiac county, Que. (Not Birch.)
After Father Dozois, missionary.

Drae; lake, Dudley township, Haliburton county, Ont.

Driedmeat; hill and lake, Battle river, Alberta. (Not Dried Meat.)
Where the Indians dried meat and fish.

Drifting; river, flowing into Valley river in Tp. 26, R. 20, W. P. M., Manitoba.

Driftple; river, flowing from south into Lesser Slave lake, Alberta.
Translation of Cree Indian name meaning “piles of driftwood,” which occur at its mouth.

Driftwood; creek flowing into Bulkley river, from east, about eleven miles below Telkwa river, Coast district, B.C.

Dromedary; island, east of Grenadier island, St. Lawrence river, Yonge township, Leeds county, Ont. (Not Pear.)
After a gunboat on the St. Lawrence, 1812-14.

Drumming; point, northeast point of Black island, lake Winnipeg, Man.

After Thomas Drummond, assistant naturalist in Franklin’s second Arctic Expedition, 1825-27.

Dryad; point, northeast point of Campbell island, Seaforth channel, Coast district, B.C. (Not Turn.)
After the H. B. Co. brig “Dryad”, Captain Kipling, 1833.

Dryberry; lake, north of Lobstick bay, Kenora district, Ont.

Dryden; railway station, Kenora district, Ont.

Drywood; mountain, lat. 49° 16', long. 114° 04', Alberta.
See Drywood river.

Drywood; river, tributary to Waterton river in Tp. 4, R. 28, W. 4 M., Alberta. (Not Drywood fork of Waterton.)
Descriptive.

Dubawn; lake and river, N.W.T. (Not Doobaunt.)
Indian name meaning “water-shore.”

Duchesnay; mount, east of Kicking Horse river, above Ottertail river, also lake and pass, Rocky mountains, Kootenay district, B.C.
After E. J. Duchesnay, C.E., Assistant General Superintendent, Canadian Pacific Ry.; killed in tunnel near Spuzzum, B.C., 1901.

Duck; lake, southwest of Prince Albert, Sask.
Translation of Indian name.

Duck; mountain, also Duck Mountain, forest reserve, northwest of lake Manitoba, Man. Duck. See Sisipuk.

Duck Lake; Indian reserve and railway station, southwest of Prince Albert, Sask.
See Duck lake.

Dudidontu; river, upper water of Inklín river, Cassiar district, B.C.

Dufault; lake, Dufresnoy township, Timiskaming county, Que. (Not Islands.)
After S. Dufault, Deputy Minister of Colonisation, Mines and Fisheries of Quebec.

Dufay; lake, east of Hébert lake, Dufay township, Timiskaming county, Que. (Not Rest.)
After Dufay, Enseigne, régiment de la Reine, New France.

Dufey; lake, headwaters of Cayoosh creek, tributary to Fraser river at Lillooet, Lillooet district, B.C.
After Patrick Dufey, miner, Lillooet.
Duffin; creek, flowing into lake Ontario, Ontario county, Ont. (Not Duffins.)

Duffin; passage, between Felice island and mainland, Clayoquot sound, Vancouver island, B.C.

After Robert Duffin, first mate of the "Felice," 1788.

Dufresnoy; lake, Destor and Dufresnoy townships, Timiskaming county, Que. (Not Kajakanikamak.)

After Dufresnoy, Croix de St. Louis, régiment de Royal-Roussillon, New France.

Duke; point, Northumberland channel, strait of Georgia, New Westminster district, B.C.

Named in 1903; suggested by the fact that the channel had been named after the Duke of Northumberland in 1853.

Dumais; islet, below île de la Ferme, St. Lawrence river, Kamouraska county, Que.

Dumfounder; island, Lake Fleet group, St. Lawrence river, Leeds county, Ont.

Probably after a gunboat on the St. Lawrence in war of 1812–14.

Dumeine; lake and river, Timiskaming and Pontiac counties, Que. (Not Du Moine, Big nor Grand.)

Dunbar; creek, flowing into Templeton river, a tributary to Columbia river above Spillimacheen river, Kootenay district, B.C. (Not South fork of Salmon.)

Duncan; village, southeastern portion of Vancouver island, B.C. (Not Duncan’s nor Duncan’s Station.)

After W. C. Duncan, who arrived in Vancouver island with a colonising expedition in 1862.

Duncan; mount, glacier and river, flowing through lake of same name, into north end of Kootenay lake, Kootenay district, B.C. (Not Howser lake nor Upper Kootenay lake.)

After John Duncan, prospector.

Duncan; river, tributary to Black river, which flows southward into Yamaska river, Bagot and Drummond counties, Que.

After Francis Duncan, early settler in township of Grantham; on township plan, 1857.

Dundalk; mountain, creek and railway station, east side of Bennett lake, Yukon.

Dundas; islands, western side of Chatham sound, Coast district, B.C.


Dundas; point, northeast coast of Digby island, Prince Rupert harbour, Coast district, B.C.

Dunn; island, larger of two, east of Greene island, Manitoulin district, Ont. (Not Grant.)

After officer in fishery protection service.

Dunseikkan; island, lake St. Martin, northeast of lake Manitoba, Man.

Contraction of Indian name.

Dunsmuir; islands, Ladysmith harbour, Vancouver island, B.C. (Not Twin.)

After Hon. James Dunsmuir, founder of the town of Ladysmith.

Dunvegan; Hudson’s Bay Co. post, Peace river, Alberta. (Not Fort Dunvegan.)

A McLeod of Skye founded the post naming it after the ancestral castle of the McLeods in Scotland.

Duparquet; lake, Duparquet and Hébécourt townships, Timiskaming county, Que. (Not Agotawekami.)

After Duparquet, Capitaine des Grenadiers, régiment de la Sarre, New France.

Duplex; mountain, south of Lyell creek, Rocky mountains, Kootenay district, B.C.

Dusablé; island, St. Lawrence river, Berthier county, Que. (Not Fesses.)

Dutch; creek, flowing from west into Columbia river at its source, Kootenay district, B.C.

Dutch; creek, tributary to Oldman river, Alberta. (Not West fork of Oldman.)

After Dutch prospector murdered by his partner.

Du Vernet; point, northeast coast of Digby island, Prince Rupert harbour, Coast district, B.C.

After Rev. E. H. Du Vernet, DD., appointed second bishop of the diocese of Caledonia, 1905.
Dwyerhill; hamlet, Goulbourn township, Carleton county, Ont. (Not Dwyer Hill.)
After W. Dwyer, early settler, who died about 1899.

Dyer. See Waddell.

Dyke; head, Hudson strait, New Quebec territory, Que.

Dyment; railway station, Kenora district, Ont.

Dyson; mount and creek, tributary to Sheep river, Alberta.
After rancher.

Eabamet; lake and river, tributary to Albany river, Patricia district, Ont.
Indian name meaning "turning off place."

Eagle; bay, south end of Grand lake Victoria, Timiskaming county, Que.

Eagle; cape, above St. Fidèle, Charlevoix county, Que.
Named by Champlain, 1608, from the number of eagles.

Eagle; cove, 2 miles south southeast and point, 12 miles east southeast of Cove Island light, north point of island, Bruce county, Ont.

Eagle; creek, tributary to Yukon river, international boundary, Yukon.

Eagle; glacier and peak, northeast of Glacier railway station, Selkirk mountains, also pass and river, west of Revelstoke, Kootenay district, B.C.
From rock in southeastern arête resembling an eagle.

Eagle; hills, southwest of Battleford, Sask.

Eagle; lake and river, tributary to Wabigoon river, Kenora district, Ont.

Eagle; lake, southeast of Tatla lake, Coast district, B.C.

Eagle; river, tributary to Dease river from south, below Cottonwood river, Cassiar district, B.C.

Eagle. See Aigles.

Eagle. See Anstruther.

Eagle. See James.

Eagle. See Murphy.

Eagle. See Sakwatamau.

Eagle. See Sheridan.

Eagle Crag; a mountain, east of Stikine river, about 10 miles above Iskut river, Cassiar district, B.C.

Eaglehill; creek, flowing into Saskatchewan river in Tp. 39, R. 10, W. 3 M., Sask. (Not Eagle nor Eagle Hill.)

Eaglenest; lake, head of Moose river, southwest of lake Athabaska, Alberta. (Not Eagle Nest.)

Eagle Nest; mountain, north of Lewes river, below Little Salmon river, Yukon.

Eaglenest; post office, Brantford township, Brant county, Ont. (Not Eagle Nest, Eagles Nest nor Eagle's Nest.)

Eagle Rock; lake, east of Manitou lake, southern portion of Kenora district, Ont.

Eahlue. See Ealue.

Ealue; lake, above Kinsakan lake, Iskut river, Stikine river, Cassiar district, B.C. (Not Eahlueh.) 
Every vowel in this name is pronounced separately.

Eamer; village, Cornwall township, Stormont county, Ont. (Not Eamer's Corners.)
After Michael Eamer, settler from the Mohawk valley in New York state about 1777.

Ear; lake, Tp. 38, R. 23, W. 3 M., Sask.
Earl; patches, south of Russell island, entrance to Georgian bay from lake Huron, Bruce county, Ont. (Not Earle's.)
After pilot, Tobermory.

Earl Grey; mount and pass, between Hamill and Toby creeks, Kootenay district, B.C.
After Earl Grey (1851–1917) Governor General of Canada, 1904–11; made a horseback trip over the pass in 1907.

Earl Grey; river, emptying into north side of lake Aylmer, northeast of Great Slave lake, N.W.T. (Not Earl Grey's.)
See Earl Grey mount.

Earn; river, tributary to Pelly river, Yukon.
After Scottish river.

East; bluff, southeast headland of Baffin island, N.W.T. (Not Innarulligang.)
Descriptive.

East; channel, one of the outlets of lake Winnipeg, Man. (Not East river.)
Descriptive.

East; lake, Harburn township, Haliburton county, Ont.

East; river, Bonaventure county, Que. (Not East Port Daniel.)
Descriptive.

East; river, Pictou county, N.S.
Descriptive.

East. See Quebec.

East Arrowwood; creek, tributary to Bow river, Alberta. (Not East Arrow Wood.)

East Belanger. See Girouard.

East Branch of Athabaska. See Sunwapta.

East branch of North fork of Kettle. See Burrell.

East branch of Thessalon. See Bridgland.

East Caledon. See Caledon East.

East Chimney Island. See Griswold.

East Doghead. See Doghead.

Eastern. See Cheticamp.

Eastern Harbour; village, Cheticamp harbour, Inverness county, N.S. (Not Cheticamp Harbour.)
Descriptive.

East Flamboro. See Flamboro East.

East fork of West fork of Kettle. See Trapper.

Eastmain; river, emptying into James bay, New Quebec territory, Que. (Not East Main.)
Descriptive.

Eastman; lake, north of Eastman, Brome and Shefford counties, Que. (Not Silver.)

Eastman; village, Brome county, Que.

Eastman's Springs. See Carlsbad Springs.

Easton; hamlet, Wolford township, Grenville county, Ont. (Not Easton's Corners.)

Easton's Corners. See Easton.

East Port Daniel. See East.

East Sister; shoal, south of Yeo island, entrance to Georgian bay, Manitoulin district, Ont.
In proximity to West Sister shoal.

East Souris. See Souris.

Eau Dorée (rivière à l'); river, tributary to Moisie river, Saguenay county, Que. (Not Takamashau.)
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**Ebb-and-Flow;** lake, west of narrows of lake Manitoba, Man. (Not Ebb and Flow.)

- Because it rises and falls with the water in lake Manitoba.

**Échafaund.** See Pouce-Coupé.

**Échamamish;** river, tributary to East channel of Nelson river, Man. (Not Echamamish nor Échamamish.)

- Indian name meaning "a channel in which the water flows each way," originally applied to two streams flowing eastward and westward respectively from Painted Stone, but here limited to the westward stream.

**Echo;** island, 1 mile east of Cove island, Bruce county, Ont.

**Echo;** lake, expansion of Qu'Appelle river, second highest of the Fishing lakes, Sask.

- See Katepwe.

**Ecstall;** river, flowing into the Skeena at Essington, Coast district, B.C. (Not Hockstall, Huckstall, Huxstall nor Oxstall.)

- Indian name meaning "tributary."

**Ectew.** See Exstew.

**Eddy;** railway station, north shore of Skeena river, Coast district, B.C.

**Edgar;** lake, draining through Hale creek into the south end of Taku arm, Tagish lake, Cassiar district, B.C.

- After prospector.

**Edgar;** settlement, Colchester, North township, Essex county, Ont. (Not Edgar's Mills.)

**Edgar's Mills.** See Edgar.

**Edgell;** banks, Nanoose harbour, east coast of Vancouver island, B.C.


**Edgell;** island, Blunden harbour, Queen Charlotte Sound, Coast district, B.C.

- See Edgell banks.

**Edgett;** cape, near Edgett Landing, Albert county, N.B. (Not Big.)

- After lessee of shore rights.

**Edith;** lake and river, Big island, Hudson strait, N.W.T.

**Edith;** mount, west of the north end of lake Laberge, Yukon.

**Edith.** See Bailey.

**Edith Cavell;** mount, 14 miles south of Jasper, Jasper park, Alberta. (Not Le Due nor Fitzhugh.)

- After Nurse Edith Cavell, judicially murdered by the Germans, October, 1915.

**Edmonton;** capital city of Alberta. (Not Fort Edmonton.)

- The first fort Edmonton, built in 1795 by George Sutherland, Hudson's Bay Co. was so named probably as a compliment to his clerk, John Prudens, who was a native of Edmonton, near London, England.

**Edmund;** mount, north end of Surprise lake, Cassiar district, B.C.

**Edmund;** rock, opposite Commerell point, Raft cove, northwest coast of Vancouver island, B.C

- See Commerell.

**Edna;** point, Robinson township, ½ mile east of Burnt island, Manitoulin island, Manitoulin district, Ont.

- After child of Mrs. Purvis, Burnt island.

**Eduni;** mountain, Tigonnankweine range, Gravel river, N.W.T.

**Edward;** island and harbour, southwest portion of island, south of entrance to Black bay, Thunder Bay district, Ont.

**Edward;** lake, Smellie township, Kenora district, Ont.

**Edward;** point, entrance to St. Clair river, Lambton county, Ont.

- After King Edward VII, who visited it as Prince of Wales in 1860, till which time it was called Rapids or Huron.

25c—6
DEPARTMENT OF THE INTERIOR

Edy Mills; hamlet, Dawn township, Lambton county, Ont. (Not Eddy's, Eddy's Mills nor Edy's Mills.)


Eel. See Pontleroy.

Eels; lake, Cardiff township, Haliburton county, Ont. (Not Eel.)

Probably after settler.

Effingham; island, inlet and port on the island, Barkley sound, Vancouver island, B.C.

The port was named by Captain Meares of the "Felice" July, 1788, after Thomas Howard, 3rd Earl of Effingham.

Effingham; township and lake, Lennox and Addington county, Ont. (Not Little Weslémeeoon lake.)

After Henry Howard, Earl of Effingham (1806-1889.)

Egan; brook and lake, Limerick township, Hastings county, Ont. (Not Jamieson's.)

After a lumberman well-known on the stream from about 1850 to 1880.

Egg. See Scotch Bonnet.

Eglinton; village, York township, York county, Ont. (Not Eglington.)

After Archibald William Montague, 13th Earl of Eglinton (1812-61).

Egnell; creek, mountain and telegraph station, Sheslay river, Inklin river, Taku river, Cassiar district, B.C. (Not Egnelle nor Egnell's.)

After A. Egnell, Hudson's Bay Co. clerk placed in charge when trading post was established.

Ego; mountain, lat. 51° 54', long. 117° 17', Rocky mountains, Kootenay district, B.C.

Egypt. See Macdonald.

Ekkee. See Ekwi.

Eider; islands, Ungava bay, near cape Hopes Advance, N.W.T.

Eiffel; peak, northern portion of Tp. 27, R. 16, W. 5 M., Rocky mountains, Alberta.

Resembles Eiffel tower, Paris, France.

Eighteen Mile. See Cahill.

Eighteen-Mile. See Stirling.

Eightmile. See Tatsho.

Eins; lake, Tps. 35 and 36, R. 18, W. 3 M., Sask.

Eisner; cove, east shore of Halifax harbour, Halifax county, N.S. (Not Isnor, Eisenhauer, nor Eisenhauer.)

Family name; found in the purer form Eisenhauer in Lunenburg county.

Ekapo; lake and cove, falling into Qu'Appelle river below Crooked lake, Sask. (Not Ecapo.)

Indian name meaning "foggy."

Ekwan; river, emptying into James bay, Patricia district, Ont. (Not Equan.)

Indian name meaning the river "far" up the coast.

Ekwi; river, tributary to Gravel river, N.W.T. (Not Ekkwee.)

Indian name meaning "straight."

Elbow; lake, near head of Grass river, Man. (Not Ithenotosquan nor The Elbow.)

From an "elbow" bend in the river near the lake.

Elbow; lake, northeast of Humboldt bay, lake Nipigon, Thunder Bay district, Ont.

Descriptive.

Elbow; lake, west of Schist lake, Kenora district, Ont.

Elbow; mountain, west of Stikine river, below Iskut river, Cassiar district, B.C.

Descriptive of position in "elbow" bend of river.

Elbow; river, tributary to Bow river at Calgary, Alberta.

Refers to "elbow" bend, five miles south of Calgary.
Elderbank; village, Halifax county, N.S. (Not Little Musquodoboit nor Little River Musquodoboit.)

After St. Andrews church of Elderbank, which after farm on which it was built.

Elder Mills; village, Vaughan township, York county, Ont. (Not Elder nor Elder’s Mills.)

After David Elder, who became owner of saw, carding and flour mills in the early sixties; died 1905.

Elliott; passage, between Indian islands and Village island, entrance to Knight inlet, Coast district, B.C. (Not Elliot.)

After lieutenant Elliott, H.M.S. “Clio”, on Pacific station 1859-62 and 1864-68.

Elizabeth; bay, southern portion of Olga lake, southeast of Mattagami lake, Abitibi territory, Que.

Elizabeth; lake, Purdom township, Thunder Bay district, Ont. (Not Sharp Mountain.)

Named in 1869.

Elizabeth; point, west shore of Prince Rupert harbour, Coast district, B.C.

After the wife of John W. Moore, at the time of the survey, locating engineer, Grand Trunk Pacific Ry.

Elk; mountains, Alberta and B.C. and river, tributary to Kootenay river, Kootenay district, B.C.


Descriptive.

Ella; island, north of Leach island, lake Superior, Algoma district, Ont. (Not Gull.)

Ellesmere; island, including the whole of the insular tract lying between latitude 76° and 81° N. and longitude 92° and 90° W.; portions of which have been named “Arthur land,” “Ellesmere land,” “Grant land,” “Grinnell land,” “Jesup land,” “King Oscar land,” “North Lincoln,” “Schley land,” etc.

Named by Inglefield, 1852, after Francis Leveson-Gower, 1st Earl of Ellesmere (1800-57).

Ellinor; rock, east of Kinahan islands, entrance to Prince Rupert harbour, Coast district, B.C.

After H. M. surveying vessel Ellinor.

Elliot. See Elliot.

Elliott; peak, Tp. 36, R. 18, W. 5 M., Alberta.

After Elliott Barnes, son of rancher at foot of peak who climbed the mountain in 1906 when eight years old.

Elmtree; village and river, Gloucester county, N.B. (Not Elm Tree.)

Descriptive.

Embarrass (lac des); lake, Blake township, Ottawa county, Que.

Embarrass; river, tributary to McLeod river in Tp. 52, R. 18, W. 5 M., Alberta.

From the great quantities of driftwood that render portages necessary.

Embrun; village, Russell township, Russell county, Ont.

Named by Rev. Father Cookman in 1856, after Embrun, town in France.

Emerald; peak, shoulder of mount Carnarvon, river, tributary to Kicking Horse river from north and lake on river, Kootenay district, B.C.

Descriptive of colour of lake.

Emerald. See Louise.

Emilia; island, north end of Douglas channel, Coast district, B.C.

After daughter of late Hon. J. I. Tarte, Minister of Public Works of Canada.

Emily Maxwell; reef, opposite southwest point of Fitzwilliam island, Manitoulin district, Ont.

After U.S. schooner which stranded on the reef.

Emma; island, northwest of Big island, Hudson strait, N.W.T. (Not High.)

Named, 1897, after Miss Emma Stewart, Ottawa.

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Emma; lake, Nipigon river, near lake Nipigon, Thunder Bay district, Ont. Named in 1869 after Emma Tupper.

Emmerson; point, west shore of Prince Rupert harbour, Coast district, B.C.

Empress; mountain, east of Sooke river, south coast of Vancouver island, B.C. (Not Conspicuous.) Descriptive.

Emulous; reef, off Ram island, Lockeport harbour, Shelbourne county, N.S. (Not Emulow.) After H.M. sloop “Emulous” (18), wrecked on this reef, 2 August, 1812.

Emulow. See Emulous.

End; mountain, south of South fork of Ghost river, Rocky mountains, Alberta. At the “end” of the range.

Endako; river, flowing through Deckier and Burns lakes into Stellako river at head of Fraser lake, Coast district, B.C.

Endikai; lake, northeast of Grasett township, Algoma district, Ont. (Not Endikai-a-go-ming).

Endymion; island, Lake Fleet group, St. Lawrence river, Leeds county, Ont. (Not Endymian.) After the Endymion, gunboat on the St. Lawrence, 1812-14.

English; portage, Pigeon river, above Grand portage, international boundary, Thunder Bay district, Ont.

English; river, rising near English station, Canadian Pacific railway, entering lac Seul from the southeast, and flowing westward into Winnipeg river, Kenora and Patricia districts, Ont.

The river forms part of the usual trade route, “down which the English came from Hudson bay.”

English. See Churchill.

Englishman; lake and river, flowing into North Saskatchewan river in Tp. 50, R. 21, W. 3 M., Sask.

An English employee of the Hudson’s Bay Co. was drowned in the river.

Englishman’s. See Natashkwan.

Ennett; village, Chatham township, Kent county, Ont. (Not Tuenerville.)

After family.

Ennis; mount, east of mount Vaux, Rocky mountains, Kootenay district, B.C.

After general manager, Allan steamship line.

Ennishon; settlement, Victoria county, N.B. (Not Ennishore.) Said, locally, to have been named after a place in Ireland.

Ennishore. See Ennishone.

Enrage; cape, Chignecto bay, Albert county, N.B. (Not Enragé.) So called “from a ledge of rock to the S.S.W., which, in high winds, makes a very rough sea.” (Calhoun’s Diary, 1771.)

Ensley; creek tributary to Yukon river, below Indian river, Yukon.

Entrance; island opposite Berry point, Gabriola island, southeast coast of Vancouver island, B.C.

Epaule (rivière à l’); river, tributary to Jacques-Cartier river, Tewkesbury township, Quebec county, Que.

Equan. See Ekwan.

Erickson; railway station, ridge and creek, tributary to Michel creek, Kootenay district, B.C.

After G. Erickson, sometime superintendent, Canadian Pacific Ry., Cranbrook.

Erris; mount, lat. 49° 53′, long. 114° 41′, Alberta and Kootenay district, B.C.

After headland, west coast of Ireland.

Erskine; mount, Saltspring island, southeast coast of Vancouver island, B.C

Eschaillons. See Deschaillons.
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Escoumains; township, parish, bay and river, flowing into the St. Lawrence about 20 miles below Tadoussac, Saguenay county, Que. (Not Escoumains.)

Indian name meaning "place where there are many red berries."

Escourt. See Estcourt.

Eskimo; bay, islands, and river, west of the strait of Belleisle, Saguenay county, Que. (Not Eskimauks.)

Eskimo; island, Mingan group, Saguenay county, Que. (Not Esquimaux.)

Eskoukonikow. See Miatikush.

Eshwahani; lake, near headwaters of Ottawa river, Berthier and Joliette counties, Que. (Not Askwahani.)

Eskwanonwatin; lake, south one on Black Sturgeon river, south of lake Nipigon, Thunder Bay district, Ont. (Not Esquanonwatin.)

Indian name meaning "it is no longer calm."

Esplanade; range of mountains, west of Columbia river, below Beaver river, Kootenay district, B.C.

Along the southwestern side of the range there is an esplanade-like shoulder.

Espoir (cap d'); cape, entrance of Chaleur bay, Percé township, Gaspe county, Que. (Not Despair.)

Esquonwatin. See Eskwanonwatin.

Esquimaux. See Eskimo.

Essington; town, mouth of Skeena river, Coast district, B.C. (Not Port Essington.)

Named Port Essington, 1793, by Vancouver after his friend Captain (later, Vice-Admiral Sir William) Essington, R.N. (1753-1816).

Estcourt; railway station, township, and village, Temiscouata county, Que. (Not Escourt.)

After Lieut.-Col. J. B. Bucknall Estcourt, British Commissioner for survey of boundary between Canada and Maine, subsequent to the Ashburton treaty, 1842.

Etang. See L'Etang.

Ethel; lake, draining through Nogold creek into Stewart river, Yukon.


Ethal; lake, Redditt township, Kenora district, Ont.

Etoimani. See Etomani.

Etoimani South. See Lilian.

Etomani; lake and river, flowing into Red Deer river in Tp. 44, R. 3, W. 2 M., Sask. (Not Etoimani nor Etoimani North.)

Indian name, originally applied to the "watershed" of the river, but now given to the north-flowing stream.

Etta; point, west point of Maurelle island, Coast district, B.C.

After tugboat "Etta White."

Ettain; creek, tributary to Nation river, international boundary, Yukon.

Indian name meaning "mosquito."

Etzikom; coulée, southeast of Lethbridge, Alberta. (Not Etsi-kom.)

Indian name meaning "the valley."

Eulatazella; lake and creek, flowing into Cluculz lake, south of Nechako river, Cariboo district, B.C.

Eureka; creek, tributary to Indian river, Yukon.

Eva; lake, English river, west of eastern boundary of Kenora district, Ont. (Not Wigwas.)

After daughter of A. W. Smithers, chairman, Grand Trunk Ry.

Eva; point, Hawkesbury island, Devastation channel, Coast district, B.C.

Evain; lake, Monthbéliard township, Timiskaming county, Que. (Not Kaishk.)

After a missionary.
Evans; creek, flowing into west side of Sloean lake, Kootenay district, B.C.

Evans; lake; Broadback river, Abitibi territory, Que.

After Sir John Evans (1823-1908), British archaeologist.

Evelyn; island, 1¾ mile northeast of Burke island, Bruce county, Ont. (Not Birch.)

After tug "Evelyn."

Evening; lake, north of Redvers township, Kenora district, Ont.

Everest; island, Brock group, St. Lawrence river, Leeds county, Ont. (Not Sumach.)


Everett; reefs, east of Providence point, Manitoulin island, Manitoulin district, Ont.

After schooner Everett.

Ewing; mount, lat. 50° 52', long. 133° 25', Cassiar district, B.C.

Expanse; lake, expansion of upper Ottawa river, Timiskaming county, Que.

Descriptive.

Exstew; railway station and river, tributary to Skeena river, Coast district, B.C. (Not Eestew.)

Extension; post office, south of Nanaimo, Vancouver island, B.C.

Descriptive; the coal mine at this point is an "extension" of Wellington mine, 13 miles distant.

Eyebrow; hills, lake, near source of Qu'Appelle river, and post office, Sask.

Translation of Indian name.

Eyehill; creek, rising in Alberta and flowing into Manito lake, Sask. (Not Eye Hill.)

F

Factory; river, emptying into James bay, New Quebec territory, Que. (Not North, nor Old Factory.)

Descriptive.

Fagan; ground, southwest of Yeo island, entrance to Georgian bay, Manitoulin district, Ont.

After waiter on steamer "Bayfield," 1884.

Fairfield; bluff, Yukon river, below Fortymile river, Yukon.

Fairfield; village, Elizabethtown township, Leeds county, Ont. (Not Fairfield East.)

Descriptive.

Fairfield; railway station, east of London, Middlesex county, Ont.

Fairford; river, flowing from lake Manitoba to lake St. Martin, Man.

Probably after Fairford village or Fairford Park, seat, Gloucester, England; Fairford trading post was built in 1795.

Fairground; post office, Houghton township, Norfolk county, Ont. (Not Fair Ground, nor Fair Grounds.)

Descriptive; meaning show-ground.

Fairholme; mountains, north of Bow river, Rocky Mountains park, Alberta.

On Palliser Expedition map, 1859; named by Hector.

Fair Ness; headland, Hudson strait, N.W.T.

Named by Baffin, 1614, because favoured by fair weather while at this place.

Fairview; mountain, south of lake Louise, Alberta. (Not Goat.)

Descriptive.

Fairview; point, west coast of Kaien island, Prince Rupert harbour, Coast district, B.C.

Descriptive.

Fairway; channel, northwest of Gabriola island, southeast coast of Vancouver island, B.C.

Descriptive.

Fairy. See Mamakwash.

Falcon; rock, entrance to Prince Rupert harbour, Coast district, B.C.

After fishery cruiser 'Falcon'.

Fall. See Tortue.
Falls; creek, flowing into west side of Slocan lake, Kootenay district, B.C.
False; narrows, between Gabriola and Mudge islands, southeast coast of Vancouver island, B.C.
False Detour; channel, between Cockburn and Drummond islands, Manitoulin district, Ont.
    Called “False” to distinguish it from the true Detour channel which is at the western end of Drummond island; called “Detour” because it was the passage used by the fur-traders when going to Mackinac, which was off the regular route from Montreal to lake Superior.
False Ducks; islands (2), south entrance to Prince Edward bay, lake Ontario, Prince Edward county, Ont. The distinctive names of these islands are “Swetman” for the eastern and “Timber” for the western.
Fantail; lake and river, flowing into Taku arm, Tagish lake, from west, opposite Graham inlet, Cassiar district, B.C. (Not Otter.)
    After the Fantail trail, from Log Cabin (between White pass and Bennett lake) to Tagish lake, followed in 1898 by prospectors.
Farewell; cape, south end of Promise island, entrance to Douglas channel, Coast district, B.C.
Farnam Corners; settlement, Mississquoi county, Que. (Not Farnam’s Corners.)
Farnham; mount and creek, tributary to Horsethief creek in lat. 50° 31’, long. 116° 33’, Kootenay district, B.C. (Not South fork of Horsethief.)
    After Paulding Farnham, New York.
Farnsworth; mount, east of Upper waters of O’Donnel river, Cassiar district, B.C.
Farquart; lake, Harcourt township, Haliburton county, Ont.
Farr; creek, emptying into lake Timiskaming, in Bucke township, Timiskaming district, Ont.
    After C. C. Farr, Haileybury.
Farran Point; village, Osnabruck township, Stormont county, Ont. (Not Farran’s Point.)
    After settlers.
Farrell; lake, Tp. 33, R. 17, W. 4 M., Alberta. (Not Long.)
    After settlers.
Farrier; creek, flowing into Primrose lake, Alberta and Sask.
    After W. Farrier, member of survey party.
Fatigue; mountain, lat. 51° 02’, long. 115° 41’, Rocky mountains, Alberta-and Kootenay district, B.C.
    Descriptive of climber’s sensations.
Faucher; lake, Varson township, Timiskaming county, Que. (Not Asapikona.)
    After N. Faucher St. Maurice, officier de la Légion d’Honneur.
Favel; lake, west of Canyon lake, Kenora district, Ont.
Favourable; lake, near headwaters of West branch of Severn river, Patricia district, Ont.
Fawcett; lake and river, tributary to Lesser Slave river, Alberta. (Not Moose.)
    After S. D. Fawcett, assistant on survey.
Fawcett; lake, north of Rowell township, Kenora district, Ont.
    After Thomas Fawcett, D. T. S.
Fawn. See Woodtick.
Fawn; river, tributary to Severn river, Patricia district, Ont.
Fay; mount, Bow range, Rocky mountains, Alberta and Kootenay district, B.C.
    After Prof. Charles E. Fay, Appalachian Mountain Club, Boston.
Felice; island, southern entrance to Clayoquot sound, Vancouver island, B.C. (Not Round.)
    After the “Felice,” fur-trading ship, 1788.
Felucca; mountain, Tp. 31, R. 24, W. 5 M., Kootenay district, B.C.
Fenwick; creek, tributary to Wheaton river, southern Yukon.
Ferguson; creek, flowing into Lardeau creek at Ferguson, Kootenay district, B.C. (Not North fork of Lardeau).

After Ferguson brothers, "old timers."

Ferguson; point, north entrance point to Barrett bay, Wolfe island, Frontenac county, Ont. (Not Pearson's nor Spardan.)

Ferguson. See Barrett.

Ferguson Falls; village, Drummond township, Lanark county, Ont. (Not Ferguson's Falls.)

Fergusson; creek, flowing from mount Fergusson into Bridge river, Lillooet district, B.C. (Not Sucker.)

After William Fergusson, prospector and jeweller, now of Barkerville.

Fergusson; mount, highest point of ridge east of confluence of Cadwallader creek and Hurley river, Lillooet district, B.C.

See Fergusson creek.

Ferme (île de la); islet, centremost of three rocky islets in the St. Lawrence, opposite St. Germain, Kamouraska county, Que.

Fern; passage, northeast of Kaien island, Coast district, B.C.

Fernie; mountain ridge and town, Kootenay district, B.C.

After Peter and William Fernie, early settlers; Peter died in Victoria, October, 1915, aged 84. William discovered coal in the crowsnest coal field.

Ferro; pass, between the headwaters of Mitchell river and Surprise creek, northwest of Mount Assiniboine, Rocky mountains, Kootenay district, B.C. From iron springs.

Ferroux; creek and mountain, north of Carmi, Similkameen district, B.C.

Fesses. See Dusablé.

Feuz; peak, mount Dawson, Selkirk mountains, Kootenay district, B.C.

After E. Feuz, Swiss guide.

Fèves (rivière des); river, tributary to Chateauguay river, Chateauguay county, Que. "Beans" are largely grown in its banks.

Fiddle; range and river, tributary to Athabaska river, from southeast, at head of Brulé lake, Jasper park, Alberta.

De Smet in letter, 1846, refers to the river as "Violin"; name Fiddle range on Palliser Expedition map, 1865.

Fiddlers Elbow; channel, St. Lawrence river, Lansdowne township, Leeds county, Ont. Descriptive.

Field; lake, lat. 62° 39', long. 131° 01' Ross river, Yukon.

After trader at mouth of Ross river.

Field; mount and railway station, Kootenay district, B.C.

Named by railway officials in 1884 after Cyrus W. Field, (1810-92), promoter of first Atlantic cable, who was in the locality that year.

Fife; creek, draining through Whatshan lake and river into Lower Arrow lake, Kootenay district, B.C.

Fife; lake, Tp. 3, Rs. 29 and 30, W. 2 M., Sask.

Fifteen Mile. See Bradshaw.

Fifteen-mile. See Jennings.

Fighting; channel and island, Detroit river, Essex county, Ont.

Figuery; lake, Figuery township, Timiskaming county, Que.

After one of Montcalm's officers.

File; hills, northeast of Fishing lakes, Qu'Appelle river, Sask.

File; lake and river, flowing into Burntwood lake, Man. Translation of Indian name.
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File-axe; lake, height-of-land, southeast of Mistassini lake, Lake St. John county, Que.

Findlay; creek, flowing from west into Kootenay river, south of Columbia lake, Kootenay district, B.C.

Findlay; island, north of Bathurst island, N.W.T. (Not Finlay land nor King Christian island.)
Named by Richards, 1853, after Alexander George Findlay, cartographer and publisher of atlases and charts.

Finger; mountain, south of West arm of lake Bennett, Yukon.

Finlay; See Findlay.

Finlay; settlement, junction of Finlay and Parsnip rivers to form Peace river, Cassiar district, B.C. (Not Finlay Forks nor Finlay Junction.)
After John Finlay who ascended the river in 1824 in the interests of the North West Co.

Finlayson; lake and river, flowing into Frances lake, Yukon. (Not Tlet-tlan-a-tsots.)
Named by R. Campbell after Duncan Finlayson, chief factor, later director, Hudson's Bay Co.

Finlayson; mount and arm, head of Saanich inlet, southeast coast of Vancouver island, B.C.
After Roderick Finlayson (1818-92), Chief Factor, Hudson's Bay Co., Victoria.

Fiord; bay, Separation lake, English river, northern boundary of Kenora district, Ont.

Fir; river, flowing into Red Deer river, in Tp. 44, R. 3, W. 2 M., Sask.
Descriptive.

Fire; valley, drained by Innoaklin creek, west of Lower Arrow lake, Kootenay district, B.C.

First North fork of Fitzstubs. See Brenner.

First West fork of Wilson. See Fitzstubs.

Fish. See Arcola.

Fish. See Gap.

Fish. See Hébert.

Fish. See Kerr.

Fish. See Mami.

Fish. See Murphy.

Fish. See Norbury.

Fishbasket; river, emptying into Winisk lake, Patricia district, Ont.

Fisher; bay, Hudson strait, New Quebec territory, Que.

Fisher; bay, 1 mile northwest of Walkhouse point, Manitoulin district, Ont.

Fisher; creek, tributary to North branch of Sheep river, southern Alberta.

Fisher; harbour, north of Big island, Hudson strait, N.W.T.

Fisher; island, Brock group, St. Lawrence river, Leeds county, Ont.
Probably after Commander Peter Fisher, R. N., who was transferred, 30th August, 1814, from command of "Confiance" on lake Champlain to the "Montreal" at Kingston.

Fisher; mount and creek, tributary to Wild Horse river, Kootenay district, B.C.
After Jack Fisher, discoverer of gold in Wild Horse river, 1863.

Fisher; lake, north of Atikwa lake, Kenora district, Ont.

Fisher; peak, Tp. 21, R. 8, W. 5 M., Alberta.

Fisher; range of mountains, east of Kananaskis river, southern Alberta. (Not Fisher's.)
On Palliser Expedition map, 1859; probably after George Fisher (1794-1873), British astronomer.

Fisher; river and bay, lake Winnipeg, Man.

Fisherman; cove, at north end of Gil island, Coast district, B.C.
Named by Vancouver.
Fishing; islands, extending from Chiefs point, Amabel township, 11½ miles north to Pike point, Eastnor township, Bruce county, Ont. (Not Ghegheto.)

The name was originally applied to a few islands near Chiefs point.

Fishing; lakes (4), expansions of Qu'Appelle river, Sask., the distinctive names being Qu'Appelle, Echo, Lebret, and Katepwe.

Descriptive.

Fishtail; lake, Harcourt township, Haliburton county, Ont. (Not Fish Tail.)

Descriptive.

Fitzhugh. See Edith Cavell.

Fitzstubb's; creek, tributary to Wilson creek, northeast of Slocan lake, Kootenay district, B.C. (Not First West fork.)

After an "old-timer."

Fitzwilliam; channel and island, entrance to Georgian bay, Manitoulin district, Ont.

After Captain (later Vice-Admiral) William Fitzwilliam Owen (1774-1857), in charge of survey of Great lakes, March 1815 to May, 1816.

Fitzwilliam; mount, Tp. 44, R. 4, W. 6 M., Cariboo district, B.C.

Family name of William, Viscount Milton (1839-77), who so named it, 1863.

Five-finger; rapid, Lewes river, below Nordenskiöld river, Yukon.

Flag. See North Head.

Flagg's. See North Head.

Flagstaff; hill, Tp. 41, R. 11, W. 4 M., Alberta.

Descriptive.

Flamboro Centre; village, Wentworth county, Ont. (Not Flamborough Centre.)


Flamboro East; township, Wentworth county, Ont. (Not East Flamboro nor Flamborough East.)


Flamboro West; village and township, Wentworth county, Ont. (Not Flamborough West, West Flamboro, nor West Flamborough.)


Flat; creek, tributary to Illecillewaet river, from south, Kootenay district, B.C.

Flat; creek, tributary to Klondike river, Yukon.

Flat; point, east entrance to Sydney harbour, Cape Breton county, N.S. (Not Low.)

Descriptive.

Flat. See Ridley.

Flathead; range of mountains, Alberta and Kootenay district, B.C., also river, Kootenay district, B.C.

After Flathead (Salish) Indians of western Montana.

Flatland; harbour, island and reef, west of Pie island, Thunder Bay district, Ont.

Descriptive of the island.

Fleet; point, Nanooe harbour, east coast of Vancouver island, B.C.


Fleming; island, southeast of Port Dover, Halifax county, N.S. (Not Fleming's.)

A family name in the district.

Fleming; peak, Hermit range, Selkirk mountains, Kootenay district, B.C.

After the late Sir Sandford Fleming, K.C.M.G.

Flemmer; river, tributary to Tahini river, Cassiar district, B.C.

After United States topographer.

Flemming; brook, tributary to Little river, Gloucester county, N.B. (Not South branch of Little.)

SESSIONAL PAPER No. 25c

Fletcher; island, Frobisher bay, Baffin island, N.W.T.

Fletcher; lake, McClintock township, Haliburton county, Ont. (Not Fletcher's.)

Flint; lake, north of Kakagi lake, Kenora district, Ont.

Float; creek, tributary to Ottertail river, from east above confluence with Kicking Horse river, Rocky mountains, Kootenay district, B.C.

From the amount of float ore, galena and copper found in its bed.

Float. See Downie.

Florence; river, tributary to Bell river from east, below Wedding river, Abitibi territory, Que.

Flowerpot; island, 3½ miles east of Cove island, Bruce county, Ont. (Not Flower Pot.)

Descriptive.

Fluke; lake, northeast of confluence of Canion and Wabigoon rivers, Kenora district, Ont.

Foam; lake, Tps. 31 and 32, R. 12, W. 2 M., Sask.

Translation of Indian name; descriptive.

Foamfall; river, flowing into lake Askitchi from the south, watershead of Ashuapmushuan river, Lake St. John county, Que.

Translation of Indian name; descriptive.

Fog; lake, east of Kakagi lake, Kenora district, Ont.

Folden; settlement, Oxford West township, Oxford county, Ont. (Not Folden's Corners.)

Folden's Corners. See Folden.

Folding; mountain, southeast of Brulé lake, Jasper park, Alberta.

Descriptive.

Folle; mountain, north of the big bend of Wheaton river, southern Yukon.

After J. A. Follé, prospector.

Folly. See Fort Folly.

Foothill; creek, tributary to Waterton river in Tp. 5, R. 27, W. 4 M., southern Alberta. (Not Foot Hill.)

Descriptive.

Footprint; lake and river flowing into Burntwood river, in lat. 55° 48', long. 99°, Man. (Not Squirrel nor Weir.)

Translation of Indian name.


After Prof. J. D. Forbes (1809-68), Scottish scientist.

Ford; creek, tributary to Elbow river, Alberta.

Fording; river, tributary to Elk river, Kootenay district, B.C.

The trail crosses and recrosses it.

Foreleg; bay, Atikwa lake, Kenora district, Ont. (Not Little Jackfish.)

Forest; lake, southeast of Canion lake, Kenora district, Ont.

Foresters; island, bay of Quinte, Prince Edward county, Ont. (Not Captain John's island.)

After the Independent Order of Foresters' summer meeting place there.


Descriptive.

Fork; river, tributary to Mossy river, south of lake Winnepogosis, Man.

Forks; lake, Churchill river, below Stanley mission, Sask. (Not Rapid River.)

Forks of Credit. See Credit Forks.

Forster; creek, flowing from west into Columbia river, about 8 miles below Athalmer, Kootenay district, B.C. (Not Number 2.)

After H. E. Forster, M.L.A. for Columbia district, B.C.

Forster; mount, north of Horsethief creek, above Slade creek, Kootenay district, B.C.

See Forster creek.
Forsyth; island, Admiralty, group, St. Lawrence river, Leeds county, Ont. (Not Quarry.)
   After original patentee.

Fort Chimo. See Chimo.

Fort Chipewyan. See Chipewyan.

Fort Dunvegan. See Dunvegan.

Fort Edmonton. See Edmonton.

**Fort Folly**; point, between Memramcook and Petitcodiac rivers, Westmoreland county, N.B. (Not Folly.)
   After fort built by the Eddy rebels. The rebellion was considered such folly that the point was dubbed “Fort Folly”. Two of the old cannon are still lying there.

**Fort Frances**; village, Rainy river, Rainy River district, Ont. (Not Fort Francis.)
   After Frances (died 1853), wife of Sir George Simpson, Governor of the Hudson’s Bay Co.

Fort Fraser. See Eraser.

Fort George; river, emptying into James bay, New Quebec territory, Que. (Not Big nor Mishishegattee.)

Fort Good Hope. See Good Hope.

Fort James. See Fort St. James.

Fort Lennox. See Noix.

Fort MacKay. See MacKay.

Fort Macleod. See Macleod.

**Fort Nelson**; river, tributary to Liard river, Peace River district, B.C. (Not Nelson.)

Fort Norman. See Norman.

Fort Providence. See Providence.

Fort Resolution. See Resolution.

**Fortress**; lake, lat. 52° 24’, long. 117° 48’, also mountain, north of east end of lake, Rocky mountains, Kootenay district, B.C.
   Descriptive of the mountain.

Fort St. James; Hudson’s Bay Co. post and post office, Stuart lake, Coast district, B.C. (Not Fort James.)

Fort St. John; Hudson’s Bay Co. post, Peace river, Peace River district, B.C.

Fort Selkirk. See Selkirk.

Fort Severn. See Severn.

Fort Simpson. See Simpson.

Fort Smith; Hudson’s Bay Co. post, Slave river, northern Alberta.
   After Chief Commissioner Donald A. Smith, later, Lord Strathcona.

Fort Steele. See Steele.

Fort Vermilion; settlement, south side of Peace river, Alberta.

Fort Wallace; island, Lake Fleet group, St. Lawrence river, Leeds county, Ont.

Fort William; city, Thunder Bay district, Ont.
   On David Thompson map, 1813-14; after William McGillivray, North West Co., died 1825.

Fort Wrigley. See Wrigley.

Fortymile; river and town, Yukon. (Not Forty Mile.)
   From being forty miles below old fort Reliance, about 7 miles below Dawson.
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Fossil; mountain, Tp. 29, R. 15, W. 5 M., Rocky mountains, Alberta and Kootenay district, B.C.

Descriptive.

Foster's. See Deception.

Fonthall; creek, flowing into west side of Upper Arrow lake, Kootenay district, B.C.

Fouquette; river, emptying into the St. Lawrence, below St. André, Kamouraska county, Que.

Fourchette; river, tributary to rivière le Bras, Dorchester and Lévis counties, Que. (Not Brise-culotte.)

Fourchu; harbour, Cape Breton county, N.S. (Not Fourché nor Fourchou.)

Descriptive; French for "forked."

Four-mile. See Lakit.

Fournier; village, Plantagenet South township, Prescott county, Ont. (Not Fournierville.)

After early settler.

Fowl; portage from South Fowl lake to Pigeon river, international boundary, Thunder Bay district, Ont.

Fox; island, Weller bay, Ameliasburg township, Prince Edward county, Ont.

Fox; island, northern and smaller of the two islands in lake Simcoe off Gwillimbury, North township, York county, Ont. Snake island is the southern and larger.

Fox; islands, Gordon bay, north shore of Hudson strait, N.W.T. (Not West Fox.)

Fox; land, southwest portion of Baffin island, N.W.T. (Not Foxe nor Luke Foxe.)


Fox; mount and glacier, northern portion of Tp. 25, R. 25, W. 5 M., Selkirk mountains, Kootenay district, B.C.

Named in 1888, after member of Alpine Club, London, England, killed that year in the Caucasus.

Fox. See Gordon.

Foxe. See Fox.

Framboise; village, Richmond county, N.S. (Not Frambois.)

Descriptive; French for "raspberry."

Français. See François.

Frances; creek, flowing from north into Foster creek, tributary to Columbia river, Kootenay district, B.C. (Not Number 3.)

After daughter of H. E. Forster, M.L.A. for Columbia district, B.C.

Frances; lake and river, tributary to Liard river, Yukon.

After Frances Ramsay (died 1853), wife of Sir Geo. Simpson, Governor of the Hudson's Bay Co.

Frances Smith; shoal, entrance to Key harbour, Georgian bay, Parry Sound district, Ont.

After steamer "Frances Smith".

Franchère; peak, west of Astoria river, Tp. 43, R. 1, W. 6 M., Jasper park, Alberta.

After Gabriel Franchère, author of "Relation d'un Voyage à la Côte du Nord-Ouest de l'Amérique Septentrionale." Montreal, 1820—the first published description of a journey through present Jasper park.

Francis; island, between Grindstone and Wolfe islands, St. Lawrence river, Frontenac county, Ont. (Not Hickory.)

Francis; island, west side of entrance to Uchuelet arm, Barkley sound, Vancouver island, B.C. (Not Round.)

After Peter Francis, West Coast trader.

Francisco; point, southeast point of Quadra island, Coast district, B.C.

After Captain Juan Francisco de la Bodega y Quadra; see Quadra.
François; lake, Coast district, B.C. (Not Français.)

Frank; lake, 5½ miles east of mouth of Ombabika river, Thunder Bay district, Ont.

Frank Clark. See Clark.

Franklin. See Shawanaga.

Franktown; village, Beekwith township, Lanark county, Ont. (Not Frankstown.)

Fraser; lake, Carlow township, Hastings county, Ont. (Not Fraser's.)

Fraser; lake, Hudson's Bay Co. post, and telegraph station, south of Stuart lake, Coast district, B.C. (Not Nalita nor Fort Fraser.)

After Simon Fraser (1776-1802).

Fraser; lake, south of Brompton lake, Sherbrooke county, Que. (Not Smooth pond.)

Fraser; mount and glacier, Tp. 42, R. 3 W. 6 M., south east of Yellowhead pass and river, flowing from mount into strait of Georgia, B.C.

The river was named about 1808 by officers of the North West Co. after Simon Fraser (1776-1802), superintendent of the district of New Caledonia, who explored it in that year.

Fraser; point, south coast of Digby island, Coast district, B.C.

After Alexander Fraser, chairman, Grand Trunk Pacific Ry.

Fraser; reach, northeast of Princess Royal island, Coast district, B.C.

After Donald Fraser, long resident of Victoria; died 1897, in London, England.

Fraser. See Fraser.

Fraserville; town, Temiscouata county, Que. (Not Frazerville.)

Popular name Rivière-du-Loup. After the owners of the seigniory, William and Edward Fraser.

Frazer; island, Becher bay, south coast of Vancouver island, B.C. (Not Fraser.)

After Thos. Frazer, M.D., R.N., deputy inspector general, Hospitals and Fleets; retired, 1866.

Frazer; lake and creek, tributary to Nipigon river, Thunder Bay district, Ont. (Not Fraser.)

Frazerville. See Fraserville.

Fréchette; bank and point, 8 miles east of Walkhouse point and bay, east of point, Manitoulin island, Manitoulin district, Ont.

After Louis Honoré Fréchette, (1839-1908), Canadian poet.

Fréchette; lake, Desandroins and Montbeillard townships, Timiskaming county, Que. (Not Merrill.)

See Fréchette bank.

Freda. See Freya.

Frederick; lake, about 9 miles west of Halifax, Halifax county, N.S. (Not Pine Wood.)

Surname of keen Halifax angler of 50 years ago.

Frederick; lake, west of Kusawa lake, southern Yukon.

Frederick; point, east coast of Digby island, Prince Rupert harbour, Coast district, B.C.


Frederick; point, opposite Kingston, Pittsburgh township, Frontenac county, Ont.

After Sir Frederick Haldimand (1718-1791), Governor General of Canada, 1778-84.

Freeman's. See Freemens.

Freemen; river tributary to Athabaska river, Alberta. (Not Freeman's.)

From being frequented by the time expired servants of the Hudson's Bay Co.

Freestone. See Gregory.

Frenchman; bay, Ontario county, Ont. (Not Pickering harbour.)

Probably derived from the fact that in 1669-70, Fénélon and Trouvé, two French Sulpician missionaries from the interior were compelled to winter at this bay and formed a school.
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Frenchman; lake, Tp. 64, R. 10, W. 4 M., Alberta.
Frenchman; river, southern Sask. (Not White Mud.)
Freshfield; mount, head of South fork of Bush river, south of mount Dent, Alberta and Kootenay district, B.C.
   After Sir Douglas Freshfield, F.R.G.S.
Freya; spur, Valhalla mountains, west of Sloean lake, Kootenay district, B.C. (Not Freda.)
   After Frey in Norse mythology, the god of the earth’s fruitfulness.
Friday; lake, northeast corner of Nipissing district, Ont.
Frigate; mountain, Tp. 32, R. 23, W. 5 M., Rocky mountains, Kootenay district, B.C.
Fritz; landing, east side of Lower Arrow lake, Kootenay district, B.C.
Froatsburn; hamlet, Williamsburgh township, Dundas county, Ont. (Not Froatburn nor Froathburn.)
   After L. Froats, postmaster.
Frobisher; bay, southeast portion of Baffin island, N.W.T. (Not Lumley.)
   After Sir Martin Frobisher (1535-94).
Frobisher; village, Tp. 3, R. 4, W. 2 M., Sask. (Not Frobyshire.)
   Named by railway officials after Sir Martin Frobisher (1535-94.)
Frog; lake, and Frog Lake Indian reserve, eastern Alberta.
   Translation of Indian name.
Frontier; lake, Talon township, Montmagny county, Que. French usage: Frontière.
   Descriptive; near international boundary.
Frontière; lake, Talon township, Montmagny county, Que. English usage: Frontier.
   Descriptive.
Frood. See Froude.
Frostfish; cove, northeast portion of St. Margaret bay, Halifax county, N.S. (Not Frost Fish.)
   Descriptive; the tomcod is caught here.
Froude; bay, west shore of South bay, 2 miles from South Baymouth, Manitoulin island, Manitoulin district, Ont. (Not Frood.)
Fry; creek, flowing from east into northern portion of Kootenay lake, Kootenay district, B.C.
Fuller; lake, south of Chemainus, Vancouver island, B.C. (Not Howe.)
   After early settler.

G

Gabanus; bay, cape, and post office, Cape Breton county, N.S. (Not Gabarous nor Gabaroiute.)
   After one Cabarrus, a Frenchman of Bayonne, the first to visit the bay; so named on map of 1745.
Gaboury; lake, Bauneville and Vilars townships, Timiskaming county, Que. (Not Little Roger.)
   After M. Gaboury, representative of Pontiac in Quebec Legislature.
Gabriel; island, Frobisher bay, Baffin island, N.W.T. (Not Gabriell.)
   After Frobisher’s ship, “Gabriel,” 1576.
Gabriel; strait, between Resolution island and Baffin island, N.W.T. (Not Tudjakljudusirm.)
   See Gabriel island.
Gabriola; island, passage, and reefs, east of Nanaimo, B.C.
   Adaptation of Spanish name Gaviola given to the east end of the island in 1791.
Gaetz; cove, east side of Mahone bay, Lunenburg county, N.S.
   Common family name in Lunenburg county.
Gage. See Ninemile.
Gage. See Simeone.
Gainer; creek, tributary to Lardeau creek, Kootenay district, B.C.
Gainsborough; creek, tributary to Souris river, Sask. and Man. (Not North Antler.)

Gainsborough; township, Lincoln county, Ont. (Not Gainsboro.)

Galbraith; creek, tributary to Bull river, Kootenay district, B.C. (Not West fork of Bull.)
  After R. L. T. Galbraith, Indian agent, Cranbrook, B.C.

Gale. See Peter.

Galena; bay north end of Upper Arrow lake, Kootenay district, B.C. (Not Thumb.)

Galiano; island, and gallery near Descanso bay, Gabriola island, strait of Georgia, B.C. (Not Malaspina's gallery.)
  After Commander Dionisio Alcala Galiano, commanding, 1792, the Spanish exploring vessel "Sutil".

Galiano. See Nigei.

Gallopin. See Galop.

Galloway; rapids, between southeast portion of Kaien island and mainland, Coast district, B.C.

Galloway; settlement, Kent county, N.B. (Not Galway, New Galway, nor New Galloway.)
  After Galloway, Scotland.

Gallows; point, south point of Protection island, Nanaimo, Vancouver island, B.C. (Not Execution.)
  In 1853, two Indians were hanged here for murder, by Governor (Sir James) Douglas.

Galop; canal, island and rapids, St. Lawrence river, Grenville county, Ont. (Not Gallop
  Gallops, Galoup nor Galloup.)
  Probably after the galloping rapids.

Galt; creek, flowing into Grand river, Wellington, Wentworth, and Waterloo counties, Ont.
  (Not Mill.)
  After John Galt (1779-1839), commissioner of Canada Land Company.

Galton; range of mountains, east of Kootenay river, below Elk river, Kootenay district, B.C.
  After Francis Galton (1822-1911), scientist.

Galway. See Galloway.

Galwey; mount, lat. 49° 07' long. 113° 57', Alberta.
  After Lieut. Galwey, R.E., assistant astronomer, British Boundary Commission
  lake of the Woods to the Rockies.

Gaatonaga; lake, west of Grand lake Victoria, Timiskaming county, Que.

Gap; creek, flowing into Maple creek in Tp. 11 R. 26 W. 3 M., Sask. (Not Fish.)
  Descriptive.

Garden; island, southeast of Kingston, St. Lawrence river, Frontenac county, Ont.
  Descriptive.

Garden; island, northwest portion of Prince Rupert harbour, Coast district, B.C.
  Descriptive.

Garden; river, flowing into the North Saskatchewan in Tp. 49, R. 23, W. 2 M., Sask. (Not
  Suckey.)

Garden Island; lake, headwaters of Bell river, Pontiac county, Que.

Gardner; canal, Coast district, B.C. (Not Gardiner.)
  Named by Vancouver, 1793, after Rear-Admiral Alan Gardner, later, Baron Gardner
  of Uttoxeter.

Garibaldi; hill, head of Becher bay, south coast of Vancouver island, B.C. (Not North.)
  After Giuseppe Garibaldi, (1807-82), Italian patriot.

Garnet; mountain, east southeast of Leanchoil railway station, west of Ice river, Rocky moun-
  tains, Kootenay district, B.C.
  After garnets found in the rock.
Garrett; island, northwest of Hill island, St. Lawrence river, Leeds county, Ont. (Not Garrett's.)
Garrett; island, northwest of Hill island, St. Lawrence river, Lansdowne township, Leeds county, Ont. (Not Garrett's.)
Garry; loch and river, tributary to Delisle river, Kenyon township, Glengarry county, Ont. (Not Black.)
Garson; lake and river, Alberta and Sask. (Not Swan nor Whitefish.)
After C. N. Garson, manager, Hudson's Bay Co. post, Onion Lake.
Garthby; village and township, Wolfe county, Que. (Not Garthby Station.)
Gasline; hamlet, Humberstone township, Welland county, Ont. (Not Gas Line.)
After natural gas pipe-line.
Gaspé. See Auneuse.
Gaspé (Eng.); Gaspé (Fr.); bay, cape, county, and town, Que. (Not Gaspa, Gaspee nor Gaspey.)
Mi'mac Indian name meaning "end" or "extremity."
Gaspereau; river, flowing into baie Verte, Westmorland county, N.B. (Not Gasperea.)
After a fish.
Gaspereau; river, tributary to Salmon river, Sunbury, Northumberland and Queens counties, N.B. (Not Gasperea.)
After a fish.
Gaspesia; shoal, southeast of Walkhouse point, Manitoulin district, Ont.
After steamer "Gaspesia."
Gat; point, western extremity of Cove island, Bruce county, Ont.
Descriptive name given by Bayfield, meaning "opening."
Gatacre; point, 11 miles east of Walkhouse point, Manitoulin island, Manitoulin district, Ont.
Gates; island, west of Howe island, St. Lawrence river, Pittsburgh township, Frontenac county, Ont.
After W. Gates, sometime owner.
Gateway; railway station, international boundary, Kootenay district, B.C.
Descriptive.
Gatineau Point. See Pointe-Gatineau.
Gaudet. See Grindstone.
Gaudin; point, northeast point of Hawkesbury island, Coast district, B.C.
After Captain James Gaudin, agent, Department of Marine and Fisheries, stationed at Victoria, B.C.
Gauley; bay, 1 mile north northeast of Greenough point, Bruce county, Ont.
Gawjewiagwa; lake, east of Anzhekumming lake, Kenora district, Ont.
Geikie; glacier and creek, head of Incomappleux river, Selkirk mountains, Kootenay district B.C.
Geikie; island, lake Nipigon, large one north of Kelvin island, Thunder Bay district, Ont. (Not White's.)
After Sir Archibald Geikie, geologist.
Geikie; mount, Tp. 43 R. 3, W. 6 M., Cariboo district, B.C.
See Geikie island.
Gem; lake, McVittie township, Timiskaming district, Ont.
Genesta; reef, south of Maiden island, 4½ miles west of South Baymouth, Manitoulin island, Manitoulin district, Ont.
After British yacht "Genesta," defeated by "Puritan" in America Cup contest, 1885.
Gens-de-terre; river, tributary to Gatineau river, Pontiac and Ottawa counties, Que.  (Not Jean de Terre.)
After an Indian tribe so called by traders; signifies "inlanders".

George; bay and cape, Northumberland strait, Antigonish county, N.S.  (Not St. George.)
After King George II; known as St. Louis on maps of Jeffreys, Vaugondy, D'Argenson, and D'Anville, dating from 1755 to 1775; first named George and St. George by Des Barres, 1751, the "saint" being a survival of the old French name.

George; creek, flowing into Blackstone river from southwest in Tp. 42, R. 10, W, 5 M., Alberta.
After George Buxenstein, president of the German Development Co.

George; island, Halifax harbour, Halifax county, N.S.  (Not Georges nor George's.)
After King George II.

George; lake, Plantagenet North and Alfred townships, Prescott county, Ont.  (Not Georges nor Georgian.)
After trapper; name on plan of Joseph Fortune, 1816.

George; point, east entrance to Black bay, Thunder Bay district, Ont.

George; river, flowing into Ungava bay, New Quebec territory, Que.  (Not Kangerthialuksaak.)
Named by missionaries of the United Brethren, 1811, after King George III.

George.  See Gorge.

George.  See St. George.

Georgia; lake, 8 miles east of head of Pijitawabik bay, lake Nipigon, Thunder Bay district, Ont.

Georgia; rock, entrance to Prince Rupert harbour, Coast district, B.C.
After fishery cruiser "Georgia."

Georgia; strait, between Vancouver island and the mainland, B.C.  (Not gulf of Georgia.)
Named by Vancouver, 1792, after King George III.

Georgian; bay, lake Huron, Ont.
After George IV, reigning monarch at date of Admiralty survey, 1819-22.

Georgina; island, north of Hill island, St. Lawrence river, Lansdowne township, Leeds county, Ont.  (Not Catline nor Deer.)

Germain; island, entrance to Key harbour, Parry Sound district, Ont.
After launch owner, Byng inlet.

German Mills; village, Waterloo township, Waterloo county, Ont.  (Not German Mill.)
Formerly known as Jewsburg, after Jewish owner of mills, named German mills because the principal customers were German settlers.

Gertrude; point, north of Kitkiata inlet, Douglas channel, Coast district, B.C.
After eldest daughter of Sir Louis H. Davies.

Ghogheto.  See Fishing.

Ghost; island, North channel, Queen Charlotte sound, Coast district, B.C.  (Not Round.)

Ghost; lake, north of Zealand township, Kenora district, Ont.

Ghost; river, tributary to Bow river, Alberta.
Near Dead Man’s hill.

Ghost.  See Spirit.

Ghostpine; lake and creek, tributary to Red Deer river, Alberta.  (Not Devil's Pine.)
Many dead Indians have been placed in trees, and their spirits are said to haunt the lake.

Gibraltar; peak, Adamant range, Selkirk mountains, Kootenay district, B.C.
Descriptive.

Gibraltar.  See Harvey.

Giegerich; creek, tributary to Duncan river, from east, Kootenay district, B.C.  (Not Boulder.)
After H. Giegerich, Kaslo.
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Gig; island, Lake Fleet group, St. Lawrence river, Leeds county, Ont.
   After ship's boat; "Barge," "Dinghy," "Jolly," and "The Punta" islands are in
   the vicinity.

Gil; island, northwest of Princess Royal island, Coast district, B.C. (Not Gill.)
   Named, 1792, by Lieut. Com. Jacinto Caamaño, of the Spanish corvette "Arantzaza".

Giles; lake, Blake township, Labelle, and Ottawa counties, Que.

Gilliam; mountain, east of the big bend of Wheaton river, Yukon.
   After mine superintendent.

Gillies; lake and railway station, southwest of Cobalt, Coleman township, Timiskaming district,
   Ont. (Not Mud lake.)
   After Gillies Brothers, lumbermen, Braeside, Ont.

Gill; creek, tributary from south to Fry creek, which flows from east, into northern portion of
   Kootenay lake, Kootenay district, B.C.
   After Hugh Gillis, Kaslo, B.C.

Gilphie; reef, 1 mile off Pine Tree harbour, Bruce county, Ont.
   After yacht "Gilphie."

Gimli; peak, Valhalla mountains, west of Slocan lake, Kootenay district, B.C.

Girouard; mount, south of mount Inglimaldie, lake Minnewanka, Rocky mountains park;
   Alberta.
   After Sir Percy Girouard, K.C.M.G., D.S.O.

Girouard; point, east entrance point to Belanger bay, 4 miles east of Greene island, Manitoulin
   island, Manitoulin district, Ont. (Not East Belanger.)
   See Girouard mount.

Giroux; island, St. Lawrence river, Soulanges county, Que. (Not Dadancour.)

Giroux; lake and post office, southeast of Cobalt, Coleman township, Timiskaming district, Ont.
   After Fred Giroux, pioneer prospector, 1895.

Giscome; portage, between Fraser and Crooked rivers, north of Fort George, Cariboo district
   B.C. (Not Giscomb nor Giscombe.)
   After John Robert Giscome, coloured miner, died about 1910, in Victoria.

Gizzard; river, tributary to Bell river, above Mattagami lake, Abitibi territory, Que.

Glacier; lake, Tp. 34, R. 21, W. 5 M., headwaters of North Saskatchewan river, Rocky moun-
   tains, Alberta.

Glacier; point, west of Sheringham point, Juan de Fuca strait, Vancouver island, B.C. (Not
   No-point.)

Glacier. See Peyto.

Glacier. See Yoho.

Glacier Crest; mountain, between Illecillewaet glacier and Asulkan creek, Selkirk mountains,
   Kootenay district, B.C.
   Descriptive.

Gladman; mount, Yukon river, near international boundary, Yukon.
   After member of survey party.

Gladsheim; peak, Valhalla mountains, west of Slocan lake, Kootenay district, B.C.

Gladstone; creek, flowing into east side of Lower Arrow lake, Kootenay district, B.C.

Gladstone; mount, lat. 49° 19', long. 114° 13'; also creek flowing from the mountain to Milk
   creek; Alberta.
   After W. S. Gladstone, old-timer and ex-employee of Hudson's Bay Co.

Gladys; lake and river, flowing east into Teslin lake, Cassiar district, B.C. (Not Sucker lake
   nor North river.)
   Named by Commissioner Perry, R.N.W. Mounted Police, after his youngest daughter,
   when he was in charge in the district.

26c—7-
Glaises (rivière aux); river, flowing into the St. Lawrence, 3 miles west of Pointe-du-Lac, St. Maurice county, Que. (Not Loutres.)

Glasgow; island, north shore of Hudson strait, N.W.T.
   After Glasgow city, Scotland.

Glave; mount, lat. 59° 36', long. 136° 19', Cassiar district, B.C.
   After E. J. Glave, pioneer of 1890-91.

Glave. See Kelsall.

Glenallan; village, Peel township, Wellington county, Ont. (Not Glen Allan.)
   “Glen” descriptive, “Allan” after pioneer merchant.

Glenbrook; hamlet, Charlottenburg township, Glengarry county, Ont. (Not Glen Brook.)

Glencoe; island, north shore of Hudson strait, N.W.T.
   After Glencoe, Scotland.

Glencolin; hamlet, Malahide township, Elgin county, Ont. (Not Glen Colin.)
   After Colin Macdougal, K.C., St. Thomas, sometime M.P. for East Elgin.

Glenelbe; hamlet, Yonge township, Leeds county, Ont. (Not Glen Elbe.)

Glengarry; point, opposite lower end of St. Regis island, St. Lawrence river, Glengarry county, Ont. (Not Stonehouse.)
   After Glengarry, Invernessshire, Scotland.

Glengarry Point; light station, St. Lawrence River, Glengarry county, Ont.
   See Glengarry point.

Glennuron; village, Nottawasaga township, Simcoe county, Ont. (Not Glen Huron.)
   Descriptive.

Glenlyon; mountains and river, Pelly river, Yukon.
   After Glenlyon House, Perthshire, Scotland.

Glennievis; hamlet, Lancaster township, Glengarry county, Ont. (Not Glen Nevis.)
   After Glennievis House, Invernessshire, Scotland.

Glens; railway station and creek, tributary to Kicking Horse river, Kootenay district, B.C.
   After Glen Ogle, Perthshire, Scotland.

Glensutton; hamlet, Brome county, Que. (Not Glen Sutton nor Glenston.)
   See Glensutton.

Glenwillow; hamlet, Metcalfe township, Middlesex county, Ont. (Not Glen Willow.)
   Descriptive.

Glycerine; rock, off east shore of South bay, Manitoulin island, Manitoulin district, Ont.
   After captain of tug which ran on the rock.

Goocha. See Maguasha.

   Translation of Indian name.

Goat; river, tributary to Kootenay river from east, above Kootenay lake, Kootenay district, B.C.

Goat. See Fairview.

Goat. See Table.

Goat. See Teresa.

Goat. See The Whistlers.

Goatfell; railway station, Kootenay district, B.C.

Gobeil; island, north of Coste island, Kitimat arm, Coast district, B.C.
   After J. E. Gobeil, Public Works Department of Canada.
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**Goble;** hamlet, Blenheim township, Oxford county, Ont. (Not Goble's.) After William Goble, settler, about 1850; died about 1893.

**Godbout;** river, flowing into the St. Lawrence above pointe des Monts, Saguenay county, Que. (Not Godbret nor Goodbout.) Known by this name prior to 1670; a Nicolas Godbout, pilot, was married at Quebec, 1662.

**Godbret.** See Godbout.

**Goderich;** town, lake Huron, Huron county, Ont. After Frederick Robinson, Viscount Goderich, Earl of Ripon (1782-1859);

**Godfroy;** river and seigniory, Nicolet county, Que. (Not Godfroi, Godefroi nor Godefroy.) After the grantee, Jean Baptiste Godfroy de Linetot, who came to New France about 1626.

**Gods;** lake and river, draining into Hayes river, Manitoba. Probably a variation of Indian name Manitou, meaning "spirit."

**God's Mercy;** islands of, north shore of Hudson strait, N.W.T.

**Gods Mercy;** bay of, Southampton island, Hudson bay, N.W.T. Commemorates Capt. Lyon's escape from shipwreck, 1824.

**Gold;** creek, flowing into Kootenay river, opposite Flagstone, Kootenay district, B.C.

**Gold;** river, flowing into Columbia river, from west, above Bush river, Kootenay district, B.C.

**Golden;** valley, 8 miles north of Chiefs point, Bruce county, Ont.

**Golden Ears.** See Blanshard.

**Golden Horn;** mountain, south of Whitehorse, Lewes river, Yukon.

**Golden Mountain.** See Gowland Mountain.

**Goldfinch;** lake, upper waters of Lièvre river, St. Maurice county, Que.

**Goldie;** mount and creek, flowing into west side of Windermere lake, Kootenay district, B.C. After George Goldie, Mining Recorder, Windermere, till 1899.

**Goldsmith;** river, tributary to Driftpile river, south of Lesser Slave lake, Alberta. After Sandy Goldsmith, Edmonton, member of survey party.

**Goldstream;** glacier, mountain, and nécé, west of mount Sir Sandford, also river flowing from east into Columbia river, Selkirk mountains, Kootenay district, B.C. After gold diggings on the river.

**Goldstream;** lakes and river, emptying into Finlayson arm, Saanich inlet, Vancouver island, B.C. After gold diggings on the river.

**Goldstream;** village, Vancouver island, B.C.

**Gonzales;** hill and point, southeast extremity of Vancouver island, B.C. Not Shotbolts.) The point was named, 1790, by Sub-lieutenant M. Quimper, commanding the Spanish sloop "Princess Royal," after his first mate Gonzales Lopez de Haro.

**Goodbout.** See Godbout.

**Good Hope;** Hudson's Bay Co. post, confluence of Hare Indian river and Mackenzie river, N.W.T. (Not Fort Good Hope.) Named in expectation of what would be accomplished by means of the post.

**Goodsir;** mount, and creek, draining north into Ottertail river, tributary to Kicking Horse river from east, Kootenay district, B.C. After John Goodsir (1814-67), professor of anatomy, Edinburgh University, Scotland.

**Goodwin;** creek, flowing east into Teslin lake, Cassiar district, B.C.

**Goodwin;** lake, Lorrain township, Timiskaming district, Ont. After Prof. W. L. Goodwin, dean of School of Mining, Queen's University, Kingston.

**Goose;** cape, below Coudres island, St. Lawrence river, Charlevoix county, Que. French usage: Oies (cap aux).

**Goose;** point, 2 miles east of Walkhouse point, Manitoulin island, Manitoulin district, Ont.
Goose. See Granby.
Goose. See Grey Goose.
Goose. See Primrose.
Gooseberry. See Marjorie.

Goosehunting; creek, tributary to Carrot river, Sask. (Not Maple.)

Gordon; bay, north shore of Hudson strait, N.W.T. (Not Fox.)

Gordon; island, St. Lawrence river, Leeds and Lansdowne townships, Leeds county, Ont. (Not Citron.)

Gordon; lake, Tp. 45, R. 10, W. 3 M., Sask.

Gordon; lake, south of Canion lake, Kenora district, Ont.

Gordon; mount, head of Yoho river, Rocky mountains, Alberta and B.C.
Family name of Marquess of Aberdeen and Temair.

Gordon; mount, east of Stikine river, south of Telegraph Creek, Cassiar district, B.C.

Gorge; creek, tributary to Deadman river, Thompson river, Kamloops, district, B.C. (Not George.)

Gorge; creek, tributary to Sheep river, southern Alberta.

Gorman; lake, Brudenell township, Renfrew county, Ont. After settler.

Gothics; group of peaks, Adamant range, Selkirk mountains, Kootenay district, B.C. Descriptive.

Goudron; river, tributary to Kamouraska river, Kamouraska county, Que.

Gough; lake, west of Sullivan lake, Alberta.

Goulds; hamlet and township, Carleton county, Ont. (Not Goulbourne.)
After Henry Gould, who as Under Secretary of State signed the treaty between Great Britain and United States at Ghent in 1814.

Gouldbourne. See St. Helena.

Gould Dome; a mountain, Tp. 11, R. 15, W. 5 M., Alberta. (Not Gould’s Dome.)
After John Gould (1804-81), naturalist.

Goulet; lake, Vermilion river, St. Maurice county, Que. (Not Camamablencossa.)

Gounamitz. See Gunamitz.

Gourdeau; island, lake Superior, north of Swede island, Thunder Bay district, Ont. After Lt.-Col. F. Gourdeau, Deputy Minister of Marine and Fisheries of Canada, 1896-1909.

Govan; brook, Bruce harbour, Hudson strait, N.W.T.

Gowganda; lake, mining division and post office, Timiskaming district, Ont. (Not Gow Ganda.)
Indian name meaning “porcupines’ home.”

Gowland Mountain; settlement, Albert county, N.B. (Not Golden Mountain.)
After family living in the locality.

Grace; creek, tributary to Fording river, Elk river, Kootenay district, B.C. After W. G. Grace, prospector; publisher of the “Fort Steele Prospector,” 1893-94.

Grace; lake, Harcourt township, Haliburton county, Ont.

Grace; lake, Skead township, Timiskaming district, Ont.

Grace Point. See Greece Point.

Graeme. See Pultenay.

Graham; creek and inlet, east shore of Taku arm, Tagish lake, Cassiar district, B.C. (Not Taku nor Tattiki.)
After gold commissioner at Atlin.
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Graham; creek, tributary to Souris river, southern Sask. and Man. Named in 1885, after R. M. Graham, settler.

Graham; mount, west of North fork of Illecillewaet river, Selkirk mountains, Kootenay district, B.C.
After shareholder in the Waverley and Tangier mines.

Graham; river flowing southeast from Laurier pass into Halfway river, Peace River district, B.C. (Not Southwest branch of Halfway.)

Graisse. See Rigaud.

Gramophone; creek, flowing into Bulkley river from east, above Moricetown, Coast district, B.C.

Grampus. See Mosher.

Granby; village, Granby township, Shefford county, Que. (Not Granborough.)

Granby; bay, west shore of Observatory inlet, opposite Larcom island, Cassiar district, B.C. (Not Goose nor Xschwan.)
Because the Granby Co. have large smelting works on the bay.

Granby; point, south entrance point to Granby bay, Observatory inlet, Cassiar district, B.C.
See Granby bay.

Granby; river, emptying into Kettle river at Grand Forks, Similkameen district, B.C. (Not North fork of Kettle.)
After smelting company whose works are on the river and whose founder came from Granby, Quebec.

Grand; glaciers and mountain, west side of Beaver valley, Selkirk mountains, Kootenay district, B.C.
Descriptive.

Grand; point, east point of mainland south of Fort William and reef, off point, Thunder Bay district, Ont. (Not Brûlé.)

Grand. See Black.

Grand. See Boughton.

Grand. See Dumoine.

Grand. See De Salaberry.

Grand. See Kelvin.

Grand. See Shubenacadie.

Grande (anse); bay, west of, Denoue township, Gaspe county, Que.
Descriptive French name meaning "large (cove)."

Grande. See Aigle.

Grande-Anse; village, Gloucester county, N.B. (Not Grand Anse.) See Grande.

Grand Batture. See Leonard.

Grande ile aux Erables. See De Beaujeu.

Descriptive.

Grand-Etang; town, Inverness county, N.S. (Not Grande Etang.)
Descriptive.

Grand Forks; town, Kettle river, Similkameen district, B.C.
Situated at confluence of Granby and Kettle rivers.

Grand lac du Commissaire. See Thirty-one-mile.

Grand lake Jacques Cartier See Jacques-Cartier.
Grand lake Victoria; upper waters of Ottawa river, Pontiac and Timiskaming counties, Que. After late Queen Victoria.

Grand Manan; island, bay of Fundy, Charlotte county, N.B. (Not Menan.) From the Micmac Indian word minaan, meaning "island" with the French prefix "grand" to distinguish it from Petit Manan on the Maine coast, U.S.

Grand Manan. See North Head.

Grand Manitoulin. See Manitoulin.

Grand Rustico. See North Rustico.

Grand Valley; creek, tributary to Bow river, from north at Mitford railway station, Alberta.

Granite; creek, tributary to Caribou creek, between Arrow lakes, Kootenay district, B.C.

Granger; mountain, west of Coal Lake, southern Yukon.

Granite; lake, east of Saganaga lake and river, flowing southwesterly into lake, international boundary, Thunder Bay district, Ont.

Descriptive.

Granite; lake, draining into Ogoki river, through Allan water, Thunder Bay district, Ont.

Descriptive.

Granite; point, northwest point of Quadra island, Coast district, B.C.

Granite Creek; post office, confluence of Granite creek and Tulameen river, Yale district, B.C.

Descriptive.

Grant; peak, Hermit range, Selkirk mountains, Kootenay district, B.C. After late Rev. Dr. G. M. Grant, principal, Queens University, Kingston, author of "Ocean to Ocean."

Grant; point, southwest point of Maitland island, Douglas channel, Coast district, B.C. After G. F. Grant (1843-1908), chief engineer, D.G.S. "Quadra."

Grant. See Dunn.

Grant Corners; hamlet, Charlottenburg township, Glengarry county, Ont. (Not Grant's Corners.)

Grantham; shoals, south of Mayflower island, 4 miles east of South Bayfield, Manitoulin island, Manitoulin district, Ont.

After schooner "Grantham."

Granville; lake, Churchill river, Man. (Not Grenville.) On G. Taylor's map from sketches of Peter Fidler for J. G. McTavish.

Grape; island, Muscote bay, northeast of Huff island, bay of Quinte, Prince Edward county, Ont.

Descriptive.

Grape. See Rose.

Grasset; township and railway station, Algoma district, Ont. (Not Grassett.) After Lt.-Col. Henry James Grasset, chief constable, Toronto.

Grass. See Kiskitto.

Grass; river, tributary to Nelson river, Man.

Translation of Indian name.

Grass. See Rose.

Grassberry; river, flowing into Cumberland lake, Saskatchewan river, Sask.

Mistranslation of Indian name which means "something mixed with berries," i.e., "pemmican."

Grassett. See Grasset.

Grasse's Corners. See Grassie.

Grasshopper; mountain, north of Tulameen river, above Bear creek, Yale district, B.C.
Grassie; village, Grimsby township, Lincoln county, Ont. (Not Grassies nor Grassey’s Corners.)

After John Grassie, early settler.

Grassy. See Bronson.

Grassy. See Caldwell.

Grassy; mountain, lat. 49° 42', long. 114° 25', Alberta.

Descriptive.

Grassy; point, northeastern extremity of Sophiasburg township, Prince Edward county, Ont.

Grassy River. See Stanawan.

Gratton Corner; post office, Prescott county, Ont. (Not Grattan Corner nor Gratton’s Corner.)

Grave; creek, tributary to Elk river, below Fording river, Kootenay district, B.C.

After two Indian graves near its mouth.

Grave. See Wapiabi.

Gravel; point, Great Duck island, west of north end of Outer Duck island, Manitoulin district, Ont.

Gravel; river, tributary to Mackenzie river, N.W.T.

Gravelly. See Ostrander.

Graveyard. See Allison.

Gray; elevation of ground locally known as "Gray island," west side of Petitecodiac river, Albert county, N.B. (Not Gray’s nor Grey.)

After Major Gray, first grantee.

Gray; mountain, north of Bennett lake, southern Yukon.

Gray; strait, entrance to Hudson strait, New Quebec territory, Que.

Grays; creek, flowing into Crawford bay of Kootenay lake from east, Kootenay district, B.C. (Not Greys.)

After John Gray, provincial land surveyor.

Gray Wolf; mountain, east of head of Lower Arrow lake, Kootenay district, B.C.

Great. See Hamilton.

Great Bear; lake and river, tributary to Mackenzie river, N.W.T. (Not Bear nor Great Bear Lake river.)

Translation of Indian name.

Great Bear. See Purden.

Great Bear Sand. See Wapawekka.

Great Beaver; lake, headwaters of St. Maurice river, Champlain county, Que.

Great Bishop Roggan. See Roggan.

Great Black. See Hecla.

Great Bras d’Or; channel, northwest of Boularderie island, extending from the Atlantic to Barra strait, Cape Breton island, N.S.

Great Bras d’Or. See Bras d’Or.

Great Cataract. See Cataract.

Great Duck; island, largest of Duck group, off south side, west end of Manitoulin island, Manitoulin district, Ont.

Great Fish. See Backs.

Great Fish. See Bridge.

Great Metis. See Metis.

Great New. See Long.

Great Opeongo. See Opeongo.

Great Shemogue. See Shemogue.
Great Slave; lake, N.W.T.  
After Etchecottine Indians, called by their Cree neighbours who harried and plundered them, Awokanak, "slaves"; "Slave" on Peter Pond map, 1785.

Great Tusket. See Tusket.

Greece Point; village, Argenteuil county, Que. (Not Greece Point nor Greece's Point.)  
After John William Greece, who, about 1800, purchased 5,000 acres in Chatham township from Major Lachlan McLean.

Green; island, with light station, southeast of Madame island, Richmond county, N.S.

Green; lake and river, emptying into head of Lillooet lake, Lillooet district, B.C.  
Descriptive.

Green; mount, west side of Loop creek, above Greens glacier, Tp., 26, R. 26, W. 5 M., Selkirk mountains, Kootenay district, B.C.  
After Rev. W. S. Green, who explored the vicinity in 1888.

Green; point, 1½ miles north of Inner Duck island, Manitoulin district, Ont.

Green; point, south of Grassy point, northeast extremity of Sophiasburg township, Prince Edward county, Ont.

Green. See Country.

Green. See Tommy.

Green. See Victoria.

Greenan; lake, Jones township, Renfrew county, Ont. (Not Greenan's.)

Greenbush; lake, southeast of Pashkokogan lake, Thunder Bay district, Ont.

Green Cove. See Port Maitland.

Greene; island, lake Huron, northwest of Western Duck island, Manitoulin district, Ont. (Not Green's.)

Greene Island; harbour, Robinson township, Manitoulin island, Manitoulin district, Ont.

Greenfield; shoal, ¼ mile south of Turning island, near southern point of Cove island, Bruce county, Ont.

Greenough; point, northwest entrance to Stokes bay, harbour, 1½ miles north of point, and bank, west of harbour, Bruce county, Ont.

Green Point; settlement, Gloucester county, N.B.

Greens; glacier, Tp. 26, R. 26, W. 5 M., Selkirk mountains, Kootenay district, B.C. (Not Green.)  
See Green mount.

Green's. See Terminal.

Greenshields; lake, Kishikas river, tributary to the Severn, Patricia district, Ont.

Green Valley. See Verte-Vallée.

Greenwood; land, head of Frobisher bay, Baffin island, N.W.T. (Not Greenwood's.)  
Named by Hall, 1861, after Miles Greenwood, Cincinnati.

Gregg; creek and lake, Tp. 52, R. 26, W. 5 M., Alberta. (Not Lower White Fish nor Bryson.)  
After J. J. Gregg, settler.

Gregory; island, northwest of Doctor island, St. Peter inlet, Richmond county, N.S. (Not Freestone.)

Grenadier; island, St. Lawrence river, Leeds county, Ont. (Not Bathurst.)  
After British Grenadier regiment.

Grenville. See Granville.

Grey; island, largest of three, north of Edward island, entrance to Black bay, Thunder Bay district, Ont.  
After late Earl Grey, Governor General of Canada, 1904–1911.

Grey. See Gray.
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Grey Goose; island, opposite mouth of Fort George river, James bay, N.W.T. (Not Goose.)

Greys. See Grays.

Gribbell; island, south of Hawkesbury island, Coast district, B.C.

After Rev. Francis Barrow Gribbell, rector of St. Paul's church, Esquimalt, 1869, principal of Collegiate school, Victoria, 1870-75.

Grice; point, northwest extremity of Low peninsula, Clayoquot sound, Vancouver island, B.C.


Griffin; bay, southwest shore of Frobisher bay, Baffin island, N.W.T.

Griffon; cove and village, Gaspe county, Que. (Not Griffin, Griffins, nor Grifon.)

"Grifon" on Pére Jumeau's map of 1685, "Griffon" on map of Des Hayes, 1686.

Grillage. See Auneuse.

Grimrose. See Grimross.

Grimross; islands, St. John river, Queens county, N.B. (Not Grimrose.)

W. F. Ganong says Indian name meaning "settlement place," "Grimrose" and "Grimrose" in Monckton's Journal, 1759.

Grimsthorpe; lake, Grimsthorpe township, Hastings county, Ont. (Not Wolf.)

After Grimsthorpe castle, Lincolnshire, England; Sir Peregrine Maitland who named the township, was related to Sir Peregrine Bertie, owner of Grimsthorpe castle.

Grindstone; creek, tributary to Petitcodiac river, above Upper Dover, Westmorland county, N.B. (Not Gaudet.)

Grindstone; lake, Redditt township, Kenora district, Ont.

Grindstone; point, east entrance to Washow bay, lake Winnipeg, Manitoba. Descriptive.

Grindstone; point and island, northeast coast of Digby island, Prince Rupert harbour, Coast district, B.C.

Grinnell; glacier, southeast portion of Baffin island, N.W.T.

After Henry Grinnell (1799-1874), United States merchant, who fitted out expeditions in search of Franklin, 1850 and 1853.

Grinnell; peninsula, northwestern portion of Devon island, N.W.T. (Not Grinnell land.)

See Grinnell glacier.

Griswold; island and shoals, St. Lawrence river, Yonge township, Leeds county, Ont. (Not East Chimney Island shoals.)

Grizzly; bluff, near mouth of Teslin river, Yukon. (Not Grizzly Bear.)

Grizzly; mountain, Hermit range, north of Bear creek, Selkirk mountains, Kootenay district B.C.

From its proximity to Bear creek.

Grizzly Bear. See Landels.

Groq; island, Batteau channel, north of Howe island, St. Lawrence river, Frontenac county, Ont.

Grondines; point, seigniory and village, north shore of St. Lawrence river, Portneuf county, Que. Seigniory granted 1638, and named after point.

Grosbois; island, St. Lawrence river, Chambly county, Que. (Not St. Joseph.)

Groswater. See Melville.

Grotto; mountain, east of Canmore, Rocky Mountains park, Alberta.

Descriptive.

Groundhog; lake and river, tributary to Mattagami river, Sudbury and Timiskaming district, Ont. (Not Kakozhishk nor Kukatouche.) Translation of Indian name.
Grove; island, outermost of three north of Huff island, bay of Quinte, Prince Edward county Ont.

Grundy; creek, east of Kootenay river, north of Steele, Kootenay district, B.C.
After Grunde D'Aarkhus, Danish prospector.

Gryphon; lake, west of Atikwa lake, Kenora district, Ont.

Guano; rock, entrance to Key harbour, Georgian bay, Parry Sound district, Ont.
Descriptive.

Guagua. See Muchalat.

Guard; island, Southgate group, Queen Charlotte sound, Coast district, B.C.
It "guards" the anchorage.

Guard. See Gurd.

Guardsman; mountain, northeast of mount Sir Sandford, Selkirk mountains, B.C.
It "guards" the approach to mount Sir Sandford from the northeast.

Guide. See De Watteville.

Gull. See Barbara.

Gull. See Cavalier.

Gull. See Charwell.

Gull. See Ella.

Gull. See Mississagua.

Gull. See Peter.

Gullrock; lake, discharging through Pakwash lakes into English river, Patricia district, Ont.
(Not Gull Rock.)

Guilquac; river, tributary to Tobique river, Victoria county, N.B.
Indian name meaning "rough stream."

Gun; lake and creek, tributary to Bridge river, above Tyaughton creek, Lillooet district, B.C.
(Not Gunn.)
A pack horse carrying a gun was drowned in the creek.

Gun; lake, north of Nahlin river, Inklin river, Taku river, Cassiar district, B.C.

Gunamitz; river, flowing into Restigouche river in Victoria county, N.B. (Not Gounamitz nor Little Fork.)

Gunflint; lake, international boundary, Thunder Bay district, Ont. (Not Gun Flint.)
Descriptive.

Gunliffe. See Cunliffe.

Gunn; point, 8 miles north of Kincardine, Bruce county, Ont.
After settler.

Gunn. See Gun.

Gunter; lake, Cashel township, Hastings county, Ont. (Not Gunter's.)
After settlers.

Gurd; island, Kitkatla inlet, Porcher island, Coast district, B.C. (Not Guard.)
After Rev. Robert Winter Gurd, Church Missionary Society, who took up residence at Kitkatla village, 1894.

Gustavus; mountains, south of Ladue and McQuesten rivers, Yukon.
After Norwegian prospector.

Guysborough; county and town, N.S. (Not Guysboro.)
After Sir Guy Carleton, later, Lord Dorchester (1724-1808), commander in chief of the forces in Canada at the end of the American war of Independence.

Gyrfalcon; islands, south coast of Ungava bay, N.W.T.
Descriptive.
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Gzowski; lake, north of National Transcontinental railway about 32 miles east of Ombabika bay, lake Nipigon, Thunder Bay district, Ont.

After Col. Sir Casimir S. Gzowski, K.C.M.G.

H

Habel; mount, southwest of mount Collie, Tp. 30, R. 19, W. 5 M., Rocky mountains, Kootenay district, B.C. (Not Hidden.)

After Dr. Jean Habel, Berlin, Germany; died 1902.

Habitants. See Inhabitants.

Hache (rivière à la); river, tributary to Tête-Blanche river, Chicoutimi county, Que.

Hackett; cove, east shore of St. Margaret bay, Halifax county, N.S. (Not Haggert')

After early settler.

Hackett; river, tributary to Sheslay river, Cassiar district, B.C.

Hackett Cove; village, Halifax county, N.S.

See Hackett cove.

Haddo; peak, mount Aberdeen, Tp. 28, R. 16, W. 5 M., Rocky mountains, Alberta.

After George, Lord Haddo, eldest son of the Marquess of Aberdeen and Temair.

Hadow; mount, west of Trout lake, Kootenay district, B.C.

Haeckel; hill, south of confluence of Lewes and Takhini rivers, Yukon.

Named by Schwatka after Prof. E. H. Haeckel, German naturalist.

Hagerman; village, Markham township, York county, Ont. (Not Hagerman's Corners)

After Hagerman family.

Haggard; glacier, mount Rider, Cariboo district, B.C.

See Rider mount.

Haggart; creek, tributary to Johnston creek, McQuesten river, Yukon.

After prospector.

Haggert. See Hackett.

Ha Ha; bay, lake and river, tributary to Saguenay river, Chicoutimi county, Que.

Haig; mount, lat. 49° 17', long. 114° 27', Alberta and B.C.


Haileybury; town, Bucke township, Timiskaming district, Ont.

After Haileybury College, Hertfordshire, England; named by C. C. Farr, first postmaster who received his education there.

Hailstone; butte, north end of Livingstone range, southern Alberta.

Hair. See Necighona.

Hair Cutting; lake, headwaters of St. Maurice river, Champlain county, Que.

Halcro; peak, east shore of Atlin lake, near north end, Cassiar district, B.C.

Halcyon; mountain and post office, east of Upper Arrow lake, Kootenay district, B.C. (Not Halcyon Hot Springs)

Descriptive.

Haldane; mount, between McQuesten and Stewart rivers, Yukon.

After prospector.

Hale; creek, flowing from Edgar lake into south end of Taku arm, Tagish lake, Cassiar district, B.C.

Haliburton; lake, Harburn township, Haliburton county, Ont.

After Thomas Chandler Haliburton (1796-1865), first chairman of the Canadian Land and Emigration Company.

Hall; brook, harbour and point, Kings county, N.S. (Not Hall's)

After Captain Hall, an American privateer about 1811.
Hall; creek, tributary to Westkettle river, about 3½ miles above Carmi, Similkameen district, B.C.
After Benjamin Hall, who worked mineral claims on it.

Hall; island, Trincomali channel, southeast coast of Vancouver island, B.C.

Hall; lake, Gladys river, Cassiar district, B.C. (Not North.)

Hall; lake, northeast of Redditt township, Kenora district, Ont.

Hall; mount, north of Chemainus river, Vancouver island, B.C. (Not Hall’s.)

Hall; mount, west of head of Upper Arrow lake, Kootenay district, B.C.
After Hall brothers, traders.

Hall; peninsula, southeast portion of Baffin island, N.W.T.
After Christopher Hall, one of Frobisher’s shipmasters.

Hall; river, flowing into Teslin lake from south, Cassiar district, B.C. and Yukon.

Hallé. See Ashberham.

Hallett; lake, on trail between Cheslatta and Fraser lakes, Coast district, B.C.

Hall Harbour; hamlet, Kings county, N.S. (Not Hall’s Harbour.)
See Hall.

Halliday. See Holliday.

Hall’s. See Kushog.

Halsey; point, entrance to Douglas channel, Coast district, B.C.

Halsted; islet, Shushartie bay, Goletas channel, northern coast of Vancouver island, B.C.

Halsted. See Holsted.

Haly. See Healy.

Hambly; island, Navy group, St. Lawrence river, Leeds county, Ont. (Not Humbly.)
Capt. P. S. Hambly, R.N. commanded the naval force on lake Huron on May 1, 1816.

Hamill; creek, flowing from east into Duncan river, north of Kootenay lake, Kootenay district, B.C.

Hamilton; island, Ottawa river, Hawkesbury West township, Prescott county, Ont. (Not Great nor Large.)

Hamilton; lake, Tp. 35, R. 9, W. 4 M., Alberta.
After E. H. Hamilton, assistant on geological survey party.

Hamilton. See Rough.

Hammond; bay, north of Departure bay, southeast coast of Vancouver island, B.C.
After Sub-lieutenant G. C. Hammond, Admiralty survey, 1867-70.

Hammond; point, 8 miles southeast of Providence point, Manitoulin island, Manitoulin district Ont.

Hammond. See Nelson.

Hanalta; lake, Tp. 31, R. 14, W. 4 M., Alberta. (Not Bull pound.)
Named in 1914 at request of village of Hanna, Alberta.

Hanbury; peak, northwest portion of Tp. 26, R. 18, W. 5 M., Kootenay district, B.C.
After Cornelius Hanbury, of Allen and Hanbury, England.

Hanceville; settlement, Chilcotin river, Lillooet district, B.C.
After O. T. Hance, first postmaster; died, 1910.

Hancock; hills, east of lake Laberge, Yukon.
Named by Schwatka after General W. S. Hancock (1824-86), U.S.

Hand; hills, north of Red Deer river, opposite Rosebud river, Alberta.
Translation of Indian name.

Hanging Hide. See Leather.
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Hannah; bank, entrance to Key harbour, Georgian bay, Parry Sound district, Ont.
   After D. B. Hanna, 3rd vice-president, Canadian Northern Ry.

Hannah; bay, south end of James bay, Timiskaming district, Ont.

Hannah; lake, draining into Emma lake, Nipigon river, Thunder Bay district, Ont.
   Named in 1869 after Hannah Miles.

Hannah; point, west shore of South bay, 4 miles from South Baymouth, Manitoulin island, Manitoulin district, Ont.

Hannah Bay. See Harricanaw.

Hansen; lake, east of Kootenay river, about 11 miles north west of Steele, Kootenay district, B.C.
   After Nils Hansen, settler.

Harbour; lake, west of Blind bay, Halifax county, N.S. (Not Black Duck Run.)
   So named by Captain P. F. Shortland, R.N., 1864.

Harbour. See Rawson.

Hardisty; mount, east of Athabaska river, above Whirlpool river, Alberta.
   After Richard Hardisty, chief factor, Hudson's Bay Co., in charge at fort Carlton, 1857-58.

Hardwood Plains. See Harwood Plains.

Hardy; mountain, lat. 49° 04', long. 118° 31', west of Smelter lake, Similkameen district, B.C.

Hare; bank, island, passage and reefs, St. Lawrence river, Temiscouata county, Que. French usage: Lièvres (île aux).
   See Lièvres.

Harmer; creek, branch of Grave creek, Elk river, Kootenay district, B.C. (Not South fork of Grave.)
   After Frank Harmer, resident in locality.

Harmon; river, tributary to Peace river below Smoky river, Alberta. (Not North Heart.)

Harmony; river, emptying into Harmony bay, lake Superior, Algoma district, Ont. (Not Chippewa nor Harmonie.)

Harmony. See Jones.

Harold; mount, east of Stikine river, below Porcupine creek, Cassiar district, B.C.

Harper; mount, Ogilvie range, north of Dawson, Yukon.

Harper Corners; hamlet, Flamboro East township, Wentworth county, Ont. (Not Harper's Corners.)
   After early settler.

Harricanaw; river, Hannah bay, James bay, Que. and Ont. (Not Hannah Bay.)
   Algonquin Indian name meaning "biscuit."

Harrington; group of islands, gulf of St. Lawrence, St. Vincent township, Saguenay county, Que.

Harrington; hamlet, Zorra West township, Oxford county, Ont. (Not Harrington West.)
   After John Harrington, early settler.

Harrington West. See Harrington.

Harris; lake, southwest of Manitou lake, Kenora district, Ont.

Harris; lake, southwest of Savant lake, Thunder Bay district, Ont.
   After Grand Trunk Pacific Ry. official.

Harris; point, lake Huron, Plympton township, Lambton county, Ont. (Not Blue.)

Harrison; post office, Cornwall township, Stormont county, Ont. (Not Harrison's Corners.)
   After Henry Harrison, sometime storekeeper.
Harrison; river, flowing from south into Athabaska lake, east of Old Fort river, Alberta.
Named by surveyor after Toronto friend.
Harry; lake, Lawrence township, Haliburton county, Ont. (Not Harry's.)
Hart; mount, near Sixtymile river, southwest of Dawson, Yukon.
Harte. See Hertel.
Hartz; creek, tributary to Tahltan river, near confluence with Stikine river, Cassiar district, B.C.
Harvey; creek, tributary to Flathead river, Kootenay district, B.C. (Not Twenty-five Mile.)
After J. A. Harvey, lawyer, Cranbrook, B.C.
Harvey; island, Brock group, St. Lawrence river, Leeds county, Ont. (Not Gibraltar.)
After Lt.-General Sir John Harvey (1778-1852); took part in actions in war of 1812-1814; later governor of New Brunswick, of Newfoundland and Nova Scotia.
Harwood Plains; post office, March township, Carleton county, Ont. (Not Hardwood Plains.)
After R. Harwood, British army veteran, early settler.
Haskins; creek, tributary to Ottertail river, from west, above confluence with Kicking Horse river, Rocky mountains, Kootenay district, B.C. (Not Haskin.)
After George Haskins, prospector.
Haslam; creek, tributary to Nanaimo river, Vancouver island, B.C.
Hasler; peak, mount Dawson, Selkirk mountains, Kootenay district, B.C.
After C. Hasler, Swiss guide.
Hastings; county, also town, Northumberland county, Ont.
After Francis (Rawdon-Hastings) Earl of Rawdon and Marquis of Hastings (1745-1826).
Named by J. B. Tyrrell, Geological Survey, Canada, after his packer.
Hastings; ridge, Tp. 6, R. 4, W. 5 M., Alberta.
See Hastings lake.
Hatin; lake, east of Sheslay river, Cassiar district, B.C.
Hatton; headland, south end of Resolution island, Hudson strait, N.W.T. (Not cape Best.)
Haven; cape, north of Cyrus Field bay, Baffin island, N.W.T. (Not Siggia.)
Named by Hall, 1862, after Henry P. Haven, New London, Conn.
Haven; creek, flowing into the North Saskatchewan, below Bighorn river, Alberta.
After rancher.
Havre Bouché; village, Antigonish county, N.S.
See Bouché.
Hawk; lake, also Hawk Lake, railway station, Kenora district, Ont.
Descriptive.
Hawkcliff; lake, west of Eagle lake, Kenora district, Ont. (Not Hawk Cliff.)
Hawkesbury; island, Douglas channel, Coast district, B.C.
After Sir Charles Jenkinson, Baron Hawkesbury, Earl of Liverpool, President of the Board of Trade, 1780-1804.
Hawkins; creek, tributary to Moyie river, near international boundary, Kootenay district, B.C.
(Not Meadow nor Ripple.)
Hawkins; mount, lat. 49° 05', long. 114° 05', Alberta.
See Hawkins creek.
Hawkrock. See Keikewabic.
Hawtrey; town, Norwich South township, Oxford county, Ont. (Not Hawtry.)
Hay; lake, Sabine township, Nipissing.
Descriptive.
Hay. See Dobbs.
Hay. See Melville.
Hayes; mount, south of Haslam creek, Nanaimo river, Vancouver island, B.C.
Hays; peak and river, west of Teslin lake, Cassiar district, B.C.
Hayes; river, emptying into Hudson bay, Manitoba. (Not Hay's Hill, Steel nor Trout.) This name is applied to the whole river from the source of the Echiamamish to Hudson bay.
After Sir James Hayes, secretary to Prince Rupert and one of the charter members of the Hudson's Bay Co.
Haygarth; creek, tributary to Ottertail river, Yoho park, Rocky mountains, Kootenay district, B.C.
After Wm. Haygarth, settler.
Hays; cove, southwest of Ritchie point, Kaien island, Coast district, B.C.
After late Charles Melville Hays, president and general manager, Grand Trunk and Grand Trunk Pacific Rys.
Hays; creek, Kaien island, flowing into Prince Rupert harbour at Prince Rupert, Coast district, B.C.
See Hays cove.
Hays; mount, Kaien island, Coast district, B.C. (Not Oldfield.)
See Hays cove.
Hay's. See Hayes.
Hay's. See Ritchie.
Haystack; mountain, northeast of Windigo bay, lake Nipigon, Thunder Bay district, Ont.
Descriptive of outline.
Hazel. See Aberdeen.
Hazelton; town, confluence of Bulkley and Skeena rivers, Cassiar district, B.C.
From the thickness of the hazel bush near the town.
Head; mount, Tp. 17 R. 5 W. 5 M., Alberta.
Probably after Sir Edmund Head, Governor General of Canada, 1854-61, on Palliser Expedition map, 1859.
Headingley; parish and village, west of Winnipeg, Man. (Not Headingly.)
Head of Jordan River. See Jordan River.
Head of St. Peter's Bay. See St. Peter.
Healy; creek, tributary to Lardeau river from east, Kootenay district, B.C. (Not Haley.)
After John Healy, Kaslo.
Healy; lake, south of Kusawa lake, southern Yukon.
Heart; creek, flowing into east side of Lower Arrow lake, opposite Whatson river, Kootenay district, B.C.
From shape of cirque at head.
Heart; lake, east of lac La Biche, central Alberta.
Heart; mountains, east of Sheslay river, Cassiar district, B.C.
Heart; river, flowing into the northwest end of Lesser Slave lake, Alberta.
Heathcote; lake, 8 miles southeast of Savant lake, Thunder Bay district, Ont.
Hebden; brook, flowing into Dinorwic lake, Kenora district, Ont. (Not Hebden's.)
Hébécourt; lake, Hébécourt township, Timiskaming county, Que.
After Lt.-Col. d'Hébecourt, regiment de la Reine, New France.
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Hébert; lake, Dufay township, Timiskaming county, Que. (Not Fish.)
After Philippe Hébert, Canadian sculptor; died, 1917.

Hébert. See Bear.

Hecate; channel, connecting Esperanza inlet with Tahsis canal, Vancouver island, B.C.

Hecate. See Raymond.

Hecate; strait, between Queen Charlotte islands and the mainland, Coast district, B.C.
See Hecate channel.

Hecla; island, lake Winnipeg, Man. (Not Big, Big Black, not Great Black.)
After Mount Hecla, Iceland.

Hector; island, north shore of Hudson strait, N.W.T. (Not Khartum.)
After General Sir Hector Macdonald.

Hector; lake, northeast of Kakagi lake, Kenora district, Ont. (Not Large Trout.)
After Hector, son of Priam, the Trojan hero.

Hector; mount and lake, near head of Bow river, Rocky mountains, Alberta. (Not Bow lake nor Lower Bow lake.)
After Sir James Hector, M. D. (1834-1907), geologist of the Palliser expedition, 1857-60.

Hector; railway station, Kootenay district, B.C.
See Hector mount.

Hedley; creek, flowing into Similkameen river, at Hedley, Similkameen district, B.C. (Not Twenty Mile.)

Height-of-land; lake, northeast of Mattagami lake, Abitibi territory, Que.
Descriptive.

Heimdal; spur, Valhalla mountains, west of Slocan lake, Kootenay district, B.C.
After Heimdal, in Norse mythology the guardian of the bridge of the gods.

Hela; peak, Valhalla mountains, west of Slocan lake, Kootenay district, B.C.
After Hel, in Norse mythology, the goddess of the realm of the dead.

Helen; lake, Nipigon river, near the outlet, Thunder Bay district, Ont.
Named in 1869 after Miss Helen Kirkpatrick, daughter of Hon. Thomas Kirkpatrick.

Helen; lake, northeast of Bow lake, Alberta.

Helen; point, Douglas channel, south of Kitkiata inlet, Coast district, B.C.
After Helen Gertrude Davies, eldest daughter of Sir Louis H. Davies, K.C.M.G.,
Minister of Marine and Fisheries of Canada, 1896-1901; judge, Supreme Court since 1901.

Helena. See Kinney.

Hellgate. See Pend-d'oreille.

Helmet; mountain, northwest portion of Tp. 25, R. 17, W. 5 M., Rocky mountains, Kootenay district, B.C.
Descriptive.

Hemlock. See McKay.

Hen. See North Fowl.

Henderson; creek, tributary to Yukon river, below Stewart river, Yukon.

Henderson; harbour, south of Crooks inlet, Hudson strait, N.W.T.
Named, 1897, after Admiral Henderson.

Henderson; lake, north of Uchucklesit harbour, Barkley sound, Vancouver island, B.C. (Not Anderson.)
After Captain John Henderson, barquentine "Woodpecker," which brought out from England the machinery for the Alberni Saw Mill Company, in 1860.

Hendon; river, tributary to Kusawa river, Cassiar district, B.C., and Yukon.
SESSIONAL PAPER No. 25c

Heney; lake, Hineks and Northfield townships, Ottawa county, Que. (Not Little Whitefish.)

After F. A. Heney, president of club which owns fishing rights of the lake.

Hennigar; brook and village, Hants county, N.S. (Not Weir nor Joshua Hennigar brook, nor Northfield village.)

After several families named Hennigar, settlers in the vicinity.

Henning; mount, headwaters of Coquihalla river, Yale district, B.C.

After prospector.

Henretta; creek, headwaters of Fording river, tributary to Elk river, Kootenay district, B.C.

After C. M. Henretta, mining engineer.

Henry; island, southwest of Port Hood, Inverness county, N.S. (Not Outer nor W. D. Smith's.)

Henry; mount, north of Geikie railway station, Jasper park, Alberta.

After Wm. Henry, who built the first trading post at the junction of Miette and Athabaska rivers, 1811–1812.

Henry; point, about 1 mile east of Kingston, Pittsburgh township, Frontenac county, Ont.

Henry Corners; village, Sombra township, Lambton county, Ont. (Not Henry's Corners.)


Hensley; bay, 31 miles east of Walkhouse point, Manitoulin island, Manitoulin district, Ont.

After Captain C. A. Hensley, R.M.C., killed in South African, war, 1900.

Hertel; island, St. Lawrence river, below Repentigny, Verchères county, Que. (Not Hartelle.)

Hess; river, tributary to Stewart river, Yukon.

After Michael Hess, pioneer.

Hewson. See Hughson.

Hibben; island, between Inskip and Moore channels, Moresby island, Queen Charlotte group; Coast district, B.C. (Not Kuper.)

After Thomas Napier Hibben (1828–90), first agent for Admiralty charts in Victoria.

Hickey; island, Navy group, St. Lawrence river, Leeds county, Ont. (Not Smoke.)

After Commander F. Hickey, R.N.; commanded the "Prince Regent" on lake Ontario.

Hickory. See Francis.

Hidden. See Habel.

High. See Emma.

High. See Highwood.

$25c—8\frac{1}{2}$
High Bluff: parish and village, on Assiniboine river, Manitoba.
Descriptive.

High Fall: creek, tributary to Koksoak river, from south, New Quebec territory, Que.

Highpound. See Buffalo Pound.

Highstone; lake, northwest of Schist lake, Kenora district, Ont.

Highview; hamlet, Tp. 11, R. 2, W. 2 M., Sask. (Not High View.)
Descriptive.

High Water. See Piché.

Highwood; range of mountains, southern Alberta.

Highwood; river, tributary to Bow river below Calgary, Alberta. (Not High.)
Translation of Indian name.

Hilda; peak, Valkyr mountains, east of Lower Arrow lake, Kootenay district, B.C.

Hill; cove, Prince Rupert, Coast district, B.C.
After A. E. Hill, topographical engineer, Grand Trunk Pacific Ry.

Hill; island, entrance to Russell arm, north shore of Prince Rupert harbour, Coast district, B.C.
See Hill cove.

Hill; island, St. Lawrence river, Lansdowne and Esccott townships, Leeds county, Ont. (Not Leroux.)
After General Rowland Hill (1772-1842), created Baron Hill, 1814.

Hill; lake, Minago river, tributary to Nelson river, Man.
Translation of Indian name.

Hill; lake, northeast of Kakagi lake, Kenora district, Ont.

Hill. See Hayes.

Hillcrest; mountain, southwest of Hillcrest railway station, southern Alberta. (Not South Turtle.)
After Charles P. Hill, managing director, Hillcrest Coal and Coke Co.

Hillfarm; hamlet, Tp. 19, R. 9, W. 2 M., Sask. (Not Hill Farm.)
After the farm of Wm. Starling, early settler.

Hillhead; village, Argenteuil county, Que. (Not Hill Head.)
After the name of the farm of Thomas Morrison, a Scottish settler of 1828, which was originally known as "Brue Head."

Hill Island; lake, expansion of Tazin river, N.W.T. (Not Nusheth.)
Name on S. Hearne's map, 1772; from a prominent cone-shaped island standing alone about halfway down the lake, from the point where Tazin river enters it.

Hillsborough; river and bay, P.E.I. (Not Hillsboro.)
After Wills Hill, 1st Earl of Hillsborough (171-893), Secretary of State, 1779-82, Colonial Secretary, 1768-72.

Hilton; village, St. Joseph island, lake Huron, Algoma district, Ont. (Not Marksville.)

Hinchinbrook; township, Huntingdon county, Que. (Not Hinchinbrooke.)

Hinckley. See Carpenter.

Hinton; mount, Gustavus mountains, Yukon.

Hippa; island, west of Graham island, Queen Charlotte islands, Coast district, B.C. (Not Nesto.)
Named by Captain George Dixon, 1787, from the fact that the Indian habitations seen on the island reminded him of the "hippa" (o-pah) or fortified dwellings of the New Zealanders.

Hitchcock; creek, flowing east into Teslin lake, south of Gladys river, Cassiar district, B.C.
After a wealthy woman who went into Atlin and lived there, spending thousands of dollars grubstaking prospectors.
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Hobson; island, in Mahone bay, Lunenburg county, N.S.  (Not Hobson’s Nose.)

Hobson; lake, east of Quesnel lake, Kootenay district, B.C.  (Not Cedar nor Upper Clearwater.) After John B. Hobson M.E; opened up the Cariboo and Horsefly hydraulic mines.

Hockstall.  See Ecstall.

Hoder; creek, tributary to Little Slocan river, Kootenay district, B.C.

Hodgins; lake, east of Rowell township, Kenor district, Ont. After Lieut.-Col. Arthur Hodgins, C.E.; district engineer, National Transcontinental Ry.

Hodnett; mount, northwest of the big bend of Wheaton river, southern Yukon. After D. Hodnett, prospector.

Hoffman; mount, lat. 50° 36’, long. 114° 41’, south of Sheep river, Alberta. After member of survey party.

Hog.  See Camelot.

Hog.  See McDonald.

Hog.  See O’Neil.

Hogarth.  See Cumberland.

Hogg; creek, tributary to Moyie river, Kootenay district, B.C.

Hoggan; lake, near Dodd narrows, east coast of Vancouver island, B.C. After settler.

Holden; lake, east of Nannimo river, Vancouver island, B.C.  (Not Trois Bras.) After pioneer settler.

Hole.  See Wanipigow.

Holland; bank, Ladysmith harbour, east coast of Vancouver island, B.C. From the Holland stream being the probable cause of its formation.

Holland.  See Cascumpeque.

Hollliday; point, Wolfe island, Frontenac county, Ont.  (Not Halliday nor Levi.) After John Holliday, owner of point.

Holmes.  See Home.

Holsted; bay, north of Stave island, Lansdowne township, Leeds county, Ont.  (Not Halsted.)

Holway; mount, between headwaters of Downie creek and North fork of Illecillewaet river, Selkirk mountains, Kootenay district, B.C. After Prof. E. W. D. Holway, Minneapolis, U.S., who with Howard Palmer and Prof. F. K. Butters made the first ascent of the mountain in August, 1911.

Homalko.  See Homathko.

Homan; river, flowing into south end of lake Bennett from west, Cassiar district, B.C.

Homathko; river, flowing into Bute inlet, Coast district, B.C.  (Not Homalko.) After Indian tribe on Bute inlet.

Home; bay, north end of Princess Royal island, Coast district, B.C.  (Not Holmes.) After Captain David Home, Hudson’s Bay Co., first commander of the “Beaver”, 1836, drowned in Columbia river, 1838.

Home; islands, Coronation gulf, N.W.T.  (Not Sir E. Home’s.) After Sir Everard Home (1756–1832), surgeon.

Hoodoo; valley, east of Kicking Horse river above Leancheil, Kootenay district, B.C. Suggested by E. Whymper, famous mountain climber.

Hooker; pass, head of St. Mary river, Kootenay district, B.C.

Hoole; canyon and river, Pelly river, Yukon. Named by R. Campbell, Hudson’s Bay Co., 1843, after his interpreter.

Hooper; island, south of Grenadier island, St. Lawrence river, Leeds county, Ont.  (Not Hooper’s.)
Hoope; creek, flowing into the St. Lawrence at Dickinson Landing, Osnabruck township, Stormont county, Ont. (Not Hoope's, Hoopole nor Hoopple.)

After J. & H. Hoope, early settlers.

Hootalingua. See Teslin.

Hopes Advance; bay, west shore of Ungava bay, New Quebec territory, Que.

Hopes Advance; cape, Hudson strait, New Quebec territory, Que. (Not Cape of Hopes Advance nor Prince Henry foreland.)

Hopeswell Corner. See Albert.

Hopkins; lake, east of south end of Aishihik lake, Yukon.

Hopkins; point, Devastation channel, Coast district, B.C.

Named by Joseph Whidbey, R.N., master of Vancouver's ship "Discovery."

Hopkins; point, 4 miles southeast of Cape Hurd and bay, north of point, Bruce county, Ont. After farmer.

Horn; cape, east side of Upper Arrow lake, opposite Fosthall creek, Kootenay district, B.C.

Horn. See Beatrice.

Horse; creek, tributary to Bow river, from north, below Mitford railway station, Alberta.

Horse; lake, eastern portion of Lillooet district, B.C.

Horse; point, eastern point of Ameliasburg township, Prince Edward county, Ont.

Horse Block. See Anderson.

Horsehead; creek, flowing into Makwa river in Tp. 59, R. 20, W. 3 M., Sask. (Not Horse Head.)

Horseshoe; bay, west side of Great Duck island, Manitoulin district, Ont.

Descriptive.

Horseshoe; glacier, south of mount Lefroy, Alberta.

Descriptive.

Horseshoe; island, west of Wolfe island, Frontenac county, Ont. (Not Horse Shoe.)

Descriptive.

Horse Shoe. See Chemainus.

Horsethief; creek, tributary to Columbia river, from west, below Windermere lake, Kootenay district, B.C.

Descriptive.

Horsfall; island, between Campbell and Dufferin islands, Coast district, B.C.

After the Rev. Thomas Horsfall (1795-1869), vicar of Cundall, Yorkshire, England.

Horswell; bluff and channel, northern approach to Departure bay, southeast coast of Vancouver island, B.C. (Not Inner.)

After a seaman named Horswell, H.M.S. "Virago", Admiralty survey, 1853.

Horton; creek, tributary to Pelly river, above Ketza river, Yukon.

After prospector.

Horton; point, 1 mile north of Kincardine, Bruce county, Ont.

Horwood; lake, southwest of Groundhog lake, Sudbury district, Ont. (Not Matagaming nor Mattagami.)

After E. L. Horwood, chief architect, Department of Public Works of Canada.

Hosier; river, flowing into St. Margaret bay, Halifax county, N.S. (Not Osier.) Probably after settler.

Hosmer; mountain ridge, east of Elk river at Hosmer, Kootenay district, B.C.

After Charles R. Hosmer, Montreal, director of Canadian Pacific Ry.

Hospital; creek, flowing into Columbia river, from east, below Golden, Kootenay district, B.C.

Hotailuh; mountains, between Stikine and Tanzilla rivers, Cassiar district, B.C.
Houghton; lake, south of west end of Kashaweogama lake, Thunder Bay district, Ont.
   After resident.

Houghton; lake, Tps. 39 and 40, R. 22, W. 2 M., Sask. (Not Dirtywater.)
   After Lt. Col. Houghton, N. W. field force, in charge of a depot in the vicinity during
   the Riel rebellion, 1885.

Houghton. See Muskiki.

Hourglass; lake, east of Rowell township, Kenora district, Ont.

House; mountain, between Driftpile and Inverness rivers, south of Lesser Slave lake, Alberta.
   Translation of Indian name; the peak resembles the roof of a house.

House. See Howse.

Houstoun; passage, between Admiral, Kuper and Narrow islands, strait of Georgia, B.C.
   (Not Houston.)
   After Captain (later Admiral) Wallace Houstoun, H.M.S. "Trincomalee", on Pacific
   station, 1853–56; died 1891.

Howe; island, St. Lawrence river, Frontenac county, Ont.
   After Richard, Earl Howe, British admiral (1725–1799), or his brother, Sir William,
   who served under Wolfe at Quebec and was commander-in-chief of the forces in America,
   1775–78.

Howe. See Fuller.

Howell; creek, tributary to Flathead river, Kootenay district, B.C.

Howse; pass, lat. 51° 46', long. 116° 45', and peak, lat. 51° 48', long. 116° 40', Rocky mountains,
   Alberta and Kootenay district, B.C. (Not House.)
   After Joseph Howse, Hudson's Bay Co. who travelled through the pass, 1810.

Howser; creek, flowing from northeast into Duncan river, north of Duncan lake, Kootenay
   district, B.C.

Howser; ridge, northwest of Duncan lake, Kootenay district, B.C.

Howser. See Duncan.

Hozameen; range of mountains, east of Skagit river, near international boundary, Yale district,
   B.C. (Not Hozamen, Hozomen nor Hozomeen.)

Hubbards; village, Halifax county, N.S. (Not Hubbards Cove.)
   After settler named Hubbard who located about 1800.

Huber; mount, between mount Victoria and mount Lefroy, Rocky mountains, Kootenay
   district, B.C.
   After Emile Huber of the Swiss Alpine Club.

Hubert; railway station, north shore of Skeena river, Coast district, B.C.

Hubley; cove, St. Margaret bay, also lake and railway station, Halifax county, N.S. (Not
   Hubly.)
   After Hubley family.

Huckleberry. See Mile.

Huckstall. See Ecstall.

Hudson; bay and strait, northern Canada. (Not Hudson's.)
   After Henry Hudson, sailed 1610 in search of Northwest passage; crew mutinied Jan.
   1611, and abandoned him.

Hudson; island, west of Kuper island, Stuart channel, southeast coast of Vancouver island, B.C.

Hudson Bay; mountains, west of Bulkley river, and south of Moricetown, Coast district, B.C.
   From their proximity to a ranch once belonging to the Hudson's Bay Co.

Huff; island, Muscote bay, bay of Quinte, Prince Edward county, Ont. (Not Huff's.)
   After Solomon Huff, early settler.
Hugh; mount, near entrance of Broadback river into lake Evans, Abitibi territory, Que.
Hughes; brook, flowing into Wabigoon lake, Kenora district, Ont.
Hughes; range of mountains, east of Kootenay river, Kootenay district, B.C.
Hughson; bay, 4 miles east of Providence bay, Manitoulin island, Manitoulin district, Ont
(Not Hewson, Houston nor Husten.)
After Abraham Hughson, foreman in lumber camp.
Humber; bay, river and village, York county, Ont. (Not Clairville.)
After Humber, river, England.
Humber Bay; post office, York county, Ont.
Humbly. See Hambly.
Humboldt; bay, east shore of lake Nipigon, Thunder Bay district, Ont.
After Baron, F. H. A. Von Humboldt (1769-1859), German traveller and author.
Humboldt; electoral district, and town, Sask. (Not Humbolt.)
See Humboldt bay.
Hungabee; glacier and mountain, Bow range, Alberta and Kootenay district, B.C.
Stoney Indian word meaning “chieftain.”
Hungerford; point, south point of Manitoulin island, Manitoulin district, Ont.
After schooner “Hungerford”, lake trading vessel.
Hungry; bay, northeast side of Big bay, bay of Quinte, Hastings county, Ont.
Hungry; peak, head of St. Mary river, Kootenay district, B.C.
Hunker; creek, tributary to Klondike river, Yukon.
After miner.
Huns Valley; village, Tp. 16, R. 16, W. P. M., Man. (Not Hun's Valley.)
A Hungarian settlement.
Hunt; mount, lat. 61° 33', long. 129° 04', Logan range, Yukon territory. (Not Logan.)
Hunter; island, near international boundary, Rainy River district, Ont. (Not Hunter's nor Hunters.)
Hunter; mount, north of Palliser railway station, Kootenay district, B.C.
 Hunters; range of mountains, northeast of Enderby, Kamloops district, B.C.
Huntingdon; settlement, international boundary, New Westminster district, B.C.
After Huntingdon, England.
Huntress; reef, southwest of Johnston point, about 4 miles northwest of Pine Tree harbour.
Bruce county, Ont.
After yacht “Huntress” partially wrecked on the reef.
Hurd; cape, lake Huron, western extremity of Bruce county, Ont.
After Capt. Thomas Hurd (1757-1823), appointed hydrographer to the British Admiralty, 1808.
Hurd; mount, and pass, south of confluence of Ottertail and Kicking Horse rivers, Rocky mountains, Kootenay district, B.C.
After Major Hurd, a Canadian Pacific Ry. engineer; explored the Kananaskis and other rivers.
Hurdman; hamlet, Gloucester township, Carleton county, Ont. (Not JHurdman's Bridge.)
After George Hurdman, builder of bridge over Rideau river.
Hurdman's Bridge. See Hurdman.
Hurley; river, tributary to Bridge river, Lillooet district, B.C. (Not South fork of Bridge.)
After resident.
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Huron; river, flowing into Chambly basin, Richelieu river, Rouville county, Que. (Not Marieville.)

French usage: rivière des Hurons.

Père Lallemont, 1639, says that, about 1600, a French soldier, seeing a party of these Indians with their hair cropped and roached, dubbed them "Hurons". (Fr. "hure", bristly,) suggesting those of wild boars. Long previous to the arrival of the French in America, however, the name had a well-known derogatory signification in France and it is quite probable that it was applied to the Indians in the sense of "an unkempt savage", a "bristly savage".

Hurons (rivière des); river, flowing into Chambly basin, Richelieu river, Rouville county, Que. (Not Marieville.)

English usage: Huron river.

See Huron river.

Hurricane; river, tributary to Nakina river, Taku river, Cassiar district, B.C.

From the storms encountered in the river valley.

Hasten. See Hughson.

Hutchinson; hamlet, Middlesex county, Ont. (Not Hutchison.)

After Wm. Hutchinson, settler, 1853.

Hutchison; creek, flowing from Bowden lake to Wabigoon river, Wabigoon township, Kenora district, Ont.

Hutchison; creek, flowing into east side of Lower Arrow lake, Kootenay district, B.C.

Hutchison. See Hutchinson.

Hutshi; lakes, headwaters of Nordenskiöld river, southern Yukon.

Hutshi. See Nordenskiöld.

Hutshiku; bluff, Lewes river, below Tatchun river, Yukon.

Hutsgola; lake, Whiteswan river, emptying into head of Teslin lake, Cassiar district, B.C.

(Not Hutsgula.)

Huxstall. See Eecall.

Hyland; hill, east of Hutsgola lake, south of Teslin lake, Cassiar district, B.C.

After old-time trader of Telegraph Creek.

Hyndman; bay, southwest end of Cockburn island, Manitoulin district, Ont. (Not Sand.)

After G. W. Hyndman, assistant on hydrographic survey of 1897.

I

Ian; lake, northwest of Masset inlet, Graham island, Coast district, B.C. (Not I-in-tsua.)

Icarus; point, Nanoose harbour, east coast of Vancouver island, B.C.


Ice; portage, lower Nottaway river, below Kitiga river, Abitibi territory, Que.

Ice; river, tributary to Beaverfoot river, in Tp. 25, R. 18, W. 5 M., Kootenay district, B.C.

Descriptive of the glaciers at its head.

Ice-cap; mountain, west of Stikine river, about 6 miles above Iskut river, Cassiar district, B.C.

(Not Ice-capped.)

Descriptive.

Icelanders. See Iceland.

Icelandic; river, emptying into lake Winnipeg in Tp. 23, R. 4 E. P. M., Man. (Not Icelanders.)

Named in 1876 by Icelandic settlers.

Ichimanicugon. See Ishimanikugan.

Iconoclast; mountain, Tp. 27, R. 29, W. 5 M., Selkirk mountains, Kootenay district, B.C.

Icy; cove, Hudson strait, N.W.T.

Ida; mount, south of head of Salmon arm, Shuswap lake, Kamloops district, B.C.

Ikeda; bay, entrance Skincuttle inlet, southeast coast of Moresby island, Queen Charlotte group, Coast district, B.C.

After A. Ikeda, a Japanese, who explored the bay in 1906.

Ile-aux-Noix; post office, St. Johns county, Que. (Not Isle aux Noix.)

From the walnuts (noix) found there.

Ile-Bizard; hamlet, Bizard island, St. Lawrence river, Jacques-Cartier county, Que. (Not Isle Bizard.)

See Bizard.

Ile-Perrot; hamlet, Vaudreuil county, Que. (Not Isle Perrot.)

After Sieur Perrot, governor of the island of Montreal, granted the seigniory of Perrot by Talon, 29 Oct., 1672.

Illestoa. See Illes.

Illecillewaet; glacier, mining division, village and river, flowing into Columbia river from east at Revelstoke, Kootenay district, B.C. (Not Illecillewaet, Illicillewaet nor Illicillwaet.)

Indian name meaning "swift water."

Illes; brook, flowing from west into Frances lake, Yukon. (Not Il-es-too-a.)

Impérieuse; rock, Nanoose harbour, east coast of Vancouver island, B.C.

After H.M.S. "Impérieuse" which struck it when leaving the harbour in September, 1896.

Incomappleux; river, flowing into Upper Arrow lake, Kootenay district, B.C. (Not Fish.)

Indian name meaning "fish."

Independence; creek, tributary to Stewart river, Yukon.

Indian; brook, flowing into St. Ann bay, Victoria county, N.S.

After Indian named Joe, cooper by trade.

Indian; harbour, south of Fitzwilliam island, Manitoulin district, Ont.

Indian fishing resort.

Indian; island, bay of Quinte, near Murray canal entrance, Prince Edward county, Ont.

After Mississagi Indians.

Indian; river, tributary to Yukon river, Yukon.

Indian; peak, west of Ferro pass, Rocky mountains, Kootenay district, B.C.

From its resemblance to head of Indian in war regalia.

Indian. See Dares.

Indian. See Longspell.

Indian. See Norway.

Indian. See Pleasant.

Indian. See Southern Indian.

Indian Harbour; point and reef, south of Fitzwilliam island, Manitoulin district, Ont.

See Indian harbour.

Indian Pear Island. See Saskeram.

Ingall; island, St. Lawrence river, south of Whitney point, Yonge township, Leeds county, Ont. (Not Shoemaker.)

Ingall; lake, southeast of Eagle lake, Kenora district, Ont.


Inganish. See Inganish.

Ingersoll; mount, west of Columbia river, above Lower Arrow lake, Kootenay district, B.C.

Inglewood; village, Caledon township, Peel county, Ont. (Not Inglewood Junction.)

Inglis maldie; mount, south of Minnewanka lake, Rocky mountains, Alberta.

After Inglismalde castle, Scotland, seat of the Earl of Kintore.

Ingonish; bay, river and town, Victoria county, N.S. (Not Ingonish nor Niganishe.)
Ingraham. See Louis.

Ingram; mount, head of Kussawa lake, Yukon.

Inhabitants; river, Inverness and Richmond counties, N.S. (Not Habitants.) Descriptive.

Inklin; river, tributary to Taku river, Cassiar district, B.C.

Inkster; rock, southeast of Scotchies reef, South Baymouth, Manitoulin island, Manitoulin district, Ont.

After captain of vessel which ran upon the rock.

Inlin; brook, tributary to lower Gravel river, N.W.T. Indian name meaning "little river."

Innarulligang. See East.

Inner. See Horswell.

Inner Duck; island, northeastern island of Duck group, off south side, west end of Manitoulin island, Manitoulin district, Ont.

Innoaklin; creek, flowing into west side of lower Arrow lake, Kootenay district, B.C. (Not Sanderson.)

Inukshiligaluk; point, at mouth of Koksoak river, Ungava bay, New Quebec territory, Que. (Not Big Rock.) Eskimo name meaning "that which has long life."

Inukshuktuyuk; point, west of mouth of Koksoak river, Ungava bay, New Quebec territory, Que. (Not Beacon.) Eskimo name meaning "many landmarks."

Inverhuron; bay and village, Bruce county, Ont. From Gaelic "inver" meaning confluence, and Huron.

Invermere; townsite, near Windermere, Kootenay district, B.C. (Not Canterbury.)

Inverness; passage, between Porpoise harbour and Skeena river, Coast district, B.C. (Not North Skeena.)

Inverness; river, tributary to Swan river, south of Lesser Slave lake, Alberta. After Inverness, Scotland.

Iosegun; lake, Tps. 63 and 64, R. 19, W. 5 M., and river, rising in Tp. 61, R. 18, W. 5 M., tributary to Little Smoky river, Alberta. (Not Attim Segoun nor Io-se-gun.) Indian name meaning "tail."

Ipperwash. See Kettle.

Ireland; township, Megantic county, Quebec. Settled by Irish.

Irishman; creek, tributary to Moyie river, Kootenay district, B.C.

Iron; creek, tributary to Bull river, Kootenay district, B.C.

Iron; creek, flowing into Battle river in Tp. 43, R. 9, W. 4 M., Alberta. Translation of Indian name.

Iron; lake, between La Croix and Crooked lakes, international boundary, Rainy River district, Ont.

Iroquois; lake, Tp. 48, Rs. 7 and 8, W. 3 M., Sask.

Irving; bay, Crooks inlet, Hudson strait, N.W.T. After Washington Irving, American historian and novelist.

Irving; settlement, Albert county, N.B. (Not Baltimore.) After early settlers.

Isaac Harbour; town, Guysborough county, N.S. (Not Isaac's Harbour.) After Isaac Webb, negro.

Isabemagussi. See Magusi.

Iserhoff; river, emptying into southwest corner of Waswanipi lake, Abitibi territory, Que.

Ishimanikuan; lake, draining into Manikuagan river, Saguenay county, Que. (Not Ishimanicuagan nor Ishimanicougan.)

Iskut. See Kinaskan.

Iskwatikan; lake, draining into Manikuagan river, Saguenay county, Que. (Not Ishimanikuan nor Ishimanicougan.)

Iskut. See Kinaskan.

Iskan; river, emptying into southwest comer of Waswanipi lake, Abitibi territory, Que.

Ishimanikuan; lake, draining into Manikuagan river, Saguenay county, Que. (Not Ishimanicuagan nor Ishimanicougan.)

Iskut. See Kinaskan.

Iserhoff; river, emptying into southwest corner of Waswanipi lake, Abitibi territory, Que.

Ishimanikuan; lake, draining into Manikuagan river, Saguenay county, Que. (Not Ishimanicuagan nor Ishimanicougan.)
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Jacob; lake, Caire township, Timiskaming county, Que. (Not Bass.)
  After Father Jacob, O.M.I., missionary to the Algonquin Indians.

Jacques; creek, tributary to Athabaska river from southeast, at head of Jasper lake, Jasper park, Alberta.

Jacques-Cartier; lake and river, tributary to the St. Lawrence, Montmorency, Quebec and Portneuf counties, Que. (Not Grand lake, Jacques Cartier.)
  After Jacques Cartier (1496–1552), French navigator; made three voyages to Canada; 1534 explored the gulf of St. Lawrence; 1535 ascended the St. Lawrence to Montreal.

Jacques (roche); a mountain, south of Jasper lake, Jasper park, Alberta.

James; cape, Hudson strait, N.W.T.
  After Dr. James Douglas, Douglas, Arizona, U.S.

James; creek, tributary to Herrick creek about 1 1/2 miles from its mouth, Cariboo district, B.B.
  See McGregor river.

James; island, Sidney channel, southeast coast of Vancouver island, B.C.

James; island and reef, between Fitzwilliam and Yeo islands, entrance to Georgian bay, Manitoulin district, Ont.
  See Yeo.

James; pass and river, tributary to Red Deer river, above Raven river, Alberta. (Not Eagle pass.)
  After James Dickson, a celebrated Stoney Indian chief.

James Ross. See Ross.

Jamieson; lake, Dungannon township, Hastings county, Ont. (Not Jamieson's).

Jamieson's. See Egan.

Janet; lake, between Stewart river and Mayo brook, Yukon.

Jansen; lake and post office, west of Quill lakes, southern Sask.
  After Hon. Peter Jansen, of Jansen, Nebraska, U.S., who helped to establish a Mennonite colony in the district.

Janvrin; island, Richmond county, N.S. (Not Jauvrin's.)
  After a native of Jersey, named Janvrin, who owned land on the island at beginning of 19th century.

Janvrin Harbour; hamlet, Richmond county, N.S.
  See Janvrin.

Jareux. See Jureux.

Jarvis; bay, island, point, river, and rock, south of Fort William, Thunder Bay district, Ont.
  (Not Turtle point.)

Jarvis; lake, Tp. 52, R. 26, W. 5 M., Alberta. (Not Upper White Fish, nor Fassifern.)
  After E. W. Jarvis, C.E., Canadian Pacific Ry. survey, 1873.

Jarvis; mount and pass, lat. 54° 11', long. 120° 01', Rocky mountains, Alberta and B.C.
  See Jarvis; lake.

Jasper; village, lake and national park, Athabaska river, Alberta.
  After Jasper house, North West Co. trading post in charge of Jasper Hawes, 1817.

Jauvrin's. See Janvrin.

Jay; lake, Pettypiece township, Kenora district, Ont.

Jean; lake, 7 miles east of Pijitawabik bay, lake Nipigon, Thunder Bay district, Ont.
  After wife of W. A. Parks, who made geological surveys in this district

Jean de Terre. See Gens-de-terre.

Jeannette; creek and village, Dover West township, Kent County, Ont. (Not Jeannette's nor Jeannette's Creek.)
Jean-Noël; river, flowing into the St. Lawrence at Ste. Irénée, Charlevoix county, Que.

Jean-Pierre; bay and point, 7½ miles northeast of point Magnet, Thunder Bay district, Ont.

Jeffrey; mount, west of Saanich inlet, Vancouver island, B.C.

Jenkins; point, 4½ miles east of Providence bay, Manitoulin island, Manitoulin district, Ont.

Jennie Graham; shoal, southernmost of three, off Great Duck island, Manitoulin district, Ont.

After steamer "Jennie Graham", wrecked near it.

Jennings; river, emptying into Teslin lake from east in lat. 59° 38', long. 132° 07', Cassiar district, B.C. (Not Fifteenmile.)

After W. T. Jennings, C.E., who made surveys in this region.

Jesse; island, entrance to Departure bay, Vancouver island, B.C.

After seaman, Admiralty survey, 1853.

Jessie; lake, Nipigon river, below lake Maria, Purdom township, Thunder Bay district, Ont.

Named in 1869 after Miss Jessie MacDougall.

Joan; point, near Dodd narrows, east coast of Vancouver island, B.C.

After Joan, wife of Hon. Robert Dunsmuir; died 1908 aged 81 years.

Joassa; channel, between Dufferin and Horsfall islands, Coast district, B.C.

After Indian village.

Jocelyn; hill, east side of Finlayson arm, Saanich inlet, Vancouver island, B.C.

Jockvale; hamlet, Nepean township Carleton county, Ont. (Not Jock Vale.)

From its situation on river Jock, which is a corruption of Jacques, a French-Canadian who was drowned in it.

Joggins; village, Cumberland county, N.S. (Not Joggin Mines, South Joggins, nor South Joggings.)

John; creek, tributary to Meadow creek, north of Kootenay lake, Kootenay district, B.C. (Not Williams.)

After John Healy, Kaslo.

John; lake, below Itsi lakes, Ross river, Yukon.

After surveyor's sled dog.

John; lake, northeast of Pettypiece township, Kenora district, Ont.

John; river, Pictou county, N.S.

On Des Barres chart, 1781.

Johnson; bay, north shore of Howe island, Frontenac county, Ont. (Not Johnston.)

Probably after Major-General Sir John Johnson, sometime superintendent-general of Indian Affairs; died, 1830.

Johnson; lake, Havelock township, Haliburton county, Ont. (Not Johnson's.)

Johnson; lake and railway station, southeast of Latchford, Timiskaming district, Ont.

After railway contractor.

Johnson; mount, east of Lardreau river, Kootenay district, B.C.

Johnson; range of mountains, between O'Donnel river and Atlin lake, Cassiar district, B.C.

Johnson. See Taynton.

Johnston; creek, tributary to McQuesten river, Yukon.

After prospector.

Johnston; creek, flowing into west side of Lower Arrow lake, Kootenay district, B.C.

Johnston; harbour and point, about 4 miles northwest of Pine Tree harbour, Bruce county, Ont.

Johnston; lake, southwest of Moosejaw, Sask.

On Palliser Expedition map, 1863; probably named by Hector after Francis Goodschall Johnson (spelled Johnston by Hector), governor of Assiniboia, 1855–58, who gave Hector a pointer dog Hero.
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Johnston. See Johnston.

Johnston Corners; hamlet, Gloucester township, Carleton county, Ont. (Not Johnston’s Corners nor Johnstone’s Corners.)
   After Kennedy Johnston, farmer.

Jojo; lake, Whitesand river, Thunder Bay district. Ont.

Joli; head, Queens county, N.S. (Not Jolie.)
   Descriptive; French for “pretty.”

Jolicoeur; village, Westmorland county, N.B. (Not Jolicure.)
   Probably after a French family.

Jonas; pass and creek, tributary to Sunwapta river, Jasper park, Alberta.
   After Jonas, a chief of the Morley band of Stoneys.

Jones; creek, emptying into Batchawana bay, lake Superior, Algoma district, Ont. (Not Harmony river.)

Jones; island, Lake Fleet group, St. Lawrence river, Leeds county, Ont.

Jones; shoal, southeast of Greene island, Manitoulin district, Ont.
   After tag “J. H. Jones”.

Jonquiere; parish, township and village, Chicoutimi county, Que. (Not Jonquières.)

Jordan; lake and river, Tudor township, Hastings county, Ont.
   Biblical.

Jordan; river, flowing into head of Frobisher bay, Baffin island, N.W.T.
   Named by Hall, 1861, after Daniel B. Jordan, Cincinnati.

Jordan; river, flowing into Juan de Fuca strait, Vancouver island, B.C.

Jordan; river, tributary to Columbia river from west, near Revelstoke, Kootenay district, B.C.

Jordan Harbour; post office, Lincoln county, Ont. (Not Jordan Harbor.)
   Biblical.

Jordan River; village, Shelburne county, N.S. (Not Head of Jordan River.)
   Biblical.

Jorkins; point, southeast entrance to Finlayson channel, B.C. (Not Dawkins.)

Joseph; creek, tributary to St. Mary river, Kootenay district, B.C.
   Biblical; the St. Mary and Joseph creek were named by the missionaries.

Joshua Hennigar. See Hennigar.

Joss; mountain, about 15 miles southwest of Revelstoke, Kamloops district, B.C.

Joubert; island, St. Lawrence river, Soulange’s county, Que. (Not Round.)

Joy; bay, Hudson strait, New Quebec territory, Que. (Not Round.)
   After James Joy, 1st officer of the “Diana” in the Hudson Bay expedition, 1897.

Joy; mountain, south of Lansing river, tributary to Stewart river, Yukon.
   After Sergeant Joy, R. N.W. Mounted Police.

Jubilee; island, north shore of Hudson strait, N.W.T.
   Named 1897, year of Queen Victoria’s jubilee.

Jubilee; mountain, north of Atlin lake, southern Yukon.

Julian; point, east of Chorkbak inlet, Hudson strait, N.W.T.
   After Julian Hawthorne.

Julien; islet, Kamouraska mud flats, Kamouraska county, Que.

Jumbo; mountain and creek, branch of Toby creek, Kootenay district, B.C.

Jumping; lake, Tp. 45, R. 24, W. 2 M., Sask.
   Descriptive: the water is never still, supposed locally to be due to its action on sunken timber.
Jumping Deer; creek, tributary to Qu’Appelle river, Sask. (Not Jumpingdeer.)

Jumpingpound; creek, tributary to Bow river, above Calgary, Alberta. (Not Jumping Pond.)

Where herds of buffalo were driven by the Indians over a high bank and killed.

Junction; mountain, lat. 50° 35’, long. 114° 43’, south of Sheep river, Alberta.

Jungle; creek, tributary to Nation river, international boundary, Yukon.

Juno; point, 1 mile south of Pine Tree harbour, Bruce county, Ont. After fishing tug.

Jupiter; river, Anticosti island, Saguenay county, Que. (Not Observation.)

Jureux; point and river, flowing into the St. Lawrence below Goose cape, Charlevoix county, Que. (Not Jareux.)

K

Kabagukski; lake, northeast of Anzhekumming lake, Kenora district, Ont. (Not Mud.)

Indian name meaning “shoal lake with muddy bottom.”

Kabakwa; lake, Stanhope township, Haliburton county, Ont. (Not Kah-bah-bah-quah.)

Indian name meaning “shallow.”

Kabania; lake, head of Attawapiskat river, Patricia district, Ont.

Kabikwabik; lake, south of Minnitaki lake, Kenora district, Ont. (Not Kapikwabikok.)

Kabistachuan; bay, southeast bay of Mistassini lake, Mistassini territory, Que. (Not Cabistachuan.)

Indian name meaning “where one sees nothing but foam.”

Kabitchigweak. See Butler.

Kabitotikwia; lake and river, emptying into Kaiashk bay, lake Nipigon, Thunder Bay district, Ont. (Not Kabitotiquia.)

Kabona; lake, headwaters of Bell river, Pontiac county, Que.

Kagan; bay, west of Lina island, Skidegate inlet, south coast of Graham island, Coast district, B.C. (Not Cowgitz nor Waterfowl.)

Kagianagami; lake, north of Ogoki river, Thunder Bay district, Ont.

Indian name meaning “where there is always water.”

Kag-ish-a-bog-a-mog. See Kashabog.

Kagiwiosa; lake, east of Dinorwic lake, Kenora district, Ont.

Kaha; creek, tributary to Koshin river, watershed of Inkin river, Cassiar district, B.C. (Not Kahak.)

Kah-bah-bah-quah. See Kabakwa.

Kah-mina-ti-gwa-quack. See Bluffy.

Kah-shah-gah-vng-e-mog. See Kabakwa.

Kah-bah-bah-quah. See Bluffy.

Kah-wah-she-be-mah-gog. See Kashog.

Kah-nah-wa-nah-be-mah-gog. See Kashog.

Kah-wanbejewagamog. See Kawagama.

Kaiashk; bay and river, west shore of lake Nipigon, Thunder Bay district, Ont. (Not Gull.)

Indian name meaning “gull.”

Kaiashkomin; lake, north of Zealand township, Kenora district, Ont. (Not Bad Rice.)

Indian name meaning “blighted rice.”

Kaien; island, Prince Rupert harbour, Coast district, B.C. (Not Kai-en.)

Indian name meaning “foam”; so called because large masses of foam are produced by the rapids (tide rips) and float for miles below.
Kaiete; point, Hunter island, east entrance to Lama passage, Coast district, B.C. (Not Calete, Ki-ette nor Kyeet.) Hereditary name of one of the great chiefs of the Bellabella Indians.

Kajick Manitou. See Baptiste.

Kaikaquabick. See Reception.

Kains. See Cain.

Kaishk. See Evain.

Ka-its-siks. See Kasiks.

Kajakanikamak. See Dufresnoy.

Kajoulwbang. See Najwalwank.

Kakabonga; lake and river, flowing into lake from east, Pontiac county, Que. (Not Kakebonka.)

Indian name meaning "obstructed by sand banks."

Kakagi; lake, east of Sabaskong bay, lake of the Woods, Kenora district, Ont. (Not Crow.)

Indian word meaning "crow."

Kakameonan. See Bellefeuille.

Kakashe; river, tributary to Kapitachuan river, Montcalm county, Que.

Kakebonka. See Kakabonga.

Kaketsa; mountain, lat. 58° 10', long. 132° 00', Cassiar district, B.C. (Not Koketsa.)

Kakinagimak; lake, Nemei river, tributary to Churchill river, Sask. (Not Kakinokumak.)

Indian name meaning "long lake."

Kakinokamak. See Lemoine.

Kakishk. See Groundhog.

Kakuchuya; river, tributary to Dudidontu river, Cassiar district, B.C.

Kakut; lake and river, Birch hills, south of Dunvegan, Alberta. (Not Ka-koot.)

Kakuchuya. See Crooks.

Kalzas; lake, draining into Macmillan river, Yukon.

Kama; bay, northern bay of Nipigon bay and railway station, Thunder Bay district, Ont. (Not Mazokana.)

Abbreviation of Indian name which means "small house."

Kamachigama; lake and river, tributary to upper Ottawa river, Joliette and Montcalm counties, Que.

Indian name meaning "long lake."

Kamanintigongue. See Lescarbot.

Kamanatogama; lake, south of Dinorwie lake, Kenora district, Ont.

Indian word meaning "bad water."

Kamaniskeg; lake, Bangor township, Hastings county, Ont.

Kamatsi; lake, draining into Churchill river near eastern boundary of Sask.

Kamilikamac. See Biart.

Kaministikwia; river and railway station, Thunder Bay district, Ont. (Not Kanimistiquia.)

Indian name meaning "the river with short bends and many islands."

Kaminassnin; lake, south of Dinorwie lake, Kenora district, Ont.

Indian name meaning "rocky islet."

Kaminaweiskagwok. See Minnaweiskag.
Kaminini; lake, north of Manitou lake, southern portion of Kenora district, Ont. (Not Kaminnesiepekok.)
  Indian name meaning “islet.”

Kamitsgamak; lake, Ribbon river, tributary to St. Maurice river, Champlain county, Que.

Kamongs; lake, north of Manitou lake, southern portion of Kenora district, Ont. (Not Canoe.)
  Indian name meaning “small loon.”

Kamoukakwiti. See Piché.

Kamouraska; bay, county, group of islands, river and village, Que.
  Indian name signifying “where there are rushes or hay on the other side of the river.”

Kampiγukakatoka; river, flowing into Migikan river in Girouard township, Pontiac county, Que.

Kamshigama; lake and river, emptying into Bell river, near southern boundary of Abitibi territory, Que.
  Indian name meaning “great lake.”

Kananaskis; pass, mountain range, lakes, river, tributary to Bow river and railway station, Alberta.
  Named by Palliser after an Indian who made a wonderful recovery from the blow of an axe.

Kanasuta; river, flowing from Dasserat lake to Duparquet lake, Montbray township, Timiskaming county, Que.

Kandik; river, tributary to Yukon river, international boundary, Yukon. (Not Charley.)
  Kangerflung. See Newell.
  Kangerthialuksaak. See George.

Kaniapiskau; river, tributary to Koksoak river, New Quebec territory, Que. (Not Wauguash.)

Kanikawinika; lake, upper Ottawa river, east of Grand lake Victoria, Pontiac county, Que.
  (Not Kaniquonika nor Kanequaneka.)
  Indian name meaning “slope of sand.”

Kanimittit; river, flowing into Shoshokwan river, tributary to upper Ottawa river, Pontiac county, Que. (Not Kanimittikoshkwa.)

Kanish; bay, south of Granite point, Quadra island, Coast district, B.C. (Not Cahnish.)

Kanotaikau; lake, Marten river, Mistassini territory, Que.

Kanuchuan; river, flowing northeasterly from Badesdawa lake into Attawapiskat river at Kabania lake, Patricia district, Ont.
  Indian name meaning “long rapids.”

Kanus; river, tributary to St. Croix river, Charlotte county, N.B. (Not Canous nor Canouse.)

Kanusio; lake and river, tributary to Kekek river, tributary to Migiskan river, Pontiac county, Que.
  Algonquin Indian name meaning “pike.”

Kaopskikamak; lake and river, southeast of Manitou lake, southern portion of Kenora district, Ont.

Kaoskauta; lake, near height-of-land southeast of Eagle lake, Kenora district, Ont. (Not Kaoskowtakok.)
  Indian name meaning “green bush.”

Kapemitchigama; lake, headwaters of Ottawa river, Joliette county, Que. (Not Kapemitchigama.)

Kapesakosi; lake, near height-of-land, northeast of Kakagi lake, Kenora district, Ont. (Not Kapesakosikok.)
  Indian name meaning “little tree.”

Kapikik; lake, Cat river, tributary to lake St. Joseph, Patricia district, Ont. (Not Pine channel nor Wapikik lake.)
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Kapikitegoitch; lake, Foamfall river, watershed of Ashuapmushuan river, Lake St. John county, Que.

Kapikwabikok. See Kapikwabik.

Kapiskau; river, emptying into James bay, Patricia district, Ont. (Not Ka-pis-cow nor Kaypiscow.)

Indian name meaning "obstructed" or "blocked up," first applied to the lake.

Kapitachuan; lake and river tributary to the upper Ottawa river, Maskinonge, Berthier, Jolliette, Montcalm, and Pontiac counties, Que. (Not Kapitashewinna nor Kapitajewin.)

Kapitagama; lake, Preissac township, Timiskaming county, Que.

Kapitajewin. See Kapitachuan.

Kapitashewinna. See Kapitachuan.

Kapitswe; lake, headwaters of St. Maurice river, Champlain county, Que.

Montagnais Indian word meaning "far away."

Kapkichi; lake, watershed of southwestern tributaries to Attawapiskat river, Patricia district, Ont.

Kaposvar; creek, tributary to Qu'Appelle river, Sask. (Not Little Cutarm.)

After a town in Hungary from which country settlers came in 1886.

Karmutse. See Nimpkish.

Kasagiminnis; lake, north of lake St. Joseph, Patricia district, Ont.

Kasakacheewwaak. See Uphill.

Kashagawi; lake, Stanhope township, Haliburton county, Ont. (Not Kah-shah-gah-wig-e-mog.)

Indian name meaning "long and narrow."

Kashagawigamog; lake, Dysart and Minden townships, Haliburton county, Ont.

Indian name meaning "long and narrow water."

Kashawogama; lake, west of Savant lake, Thunder Bay district, Ont.

Indian name meaning "narrow water."

Kasiks; railway station and river, tributary to Skeena river, Coast district, B.C. (Not Ka-its-siks.)

Kaskawulsh; river, tributary to Alsek river, southwestern Yukon. (Not O'Connor.)

Kaslo; river and town, west side of Kootenay lake, Kootenay district, B.C.

Indian name meaning "where blackberries grow."

Kasshabog; lake, Methuen township, Peterborough county, Ont. (Not Kag-ish-a-bog-a-mog.)

Indian name meaning "long and narrow waters."

Kate; point, upper end of Lower Arrow lake, Kootenay district, B.C.

After daughter of Captain Gaudin, agent of Marine Department.

Katepwe; lake, expansion of Qu'Appelle river, lowest of the "Fishing" lakes; also village, Sask.

Indian name meaning, in French, "qu'appelle," and in English "who calls"; given by the Indians to Qu'appelle river and the Fishing lakes on it on account of the remarkable echo in the river valley from the bursting of the ice in the beginning of winter.

Kates Needle; mountain, west of Stikine river, opposite Porcupine creek, B.C., and Alaska.

Kathawachaga; lake, south of Coronation gulf, N.W.T. (Not Cathawachaga.)

Katherine; lake, headwaters of Bow river, Rocky mountains, Alberta.

Katherine; lake, Lady Evelyn river, below Grays river, Sladen township, Sudbury district, Ont.

Name suggested in 1902 by Charles A. Bramble.

Kathlyn; lake, west of Bulkley river, about eleven miles below Telkwa river, Coast district, B.C. (Not Chickens.)

After Kathlyn, daughter of W. P. Hinton, vice president and general manager,

Grand Trunk Pacific Ry.

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Katina; creek, tributary to Silver Salmon river, Cassiar district, B.C.

Katone; lake, east of Grand lake Victoria, Pontiac county, Que. (Not Kahuch.)

Katrina; creek, tributary to White river, Yukon.

Kattaktok; cape, east shore of Ungava bay, Quebec territory. Eskimo name meaning "pale."

Katutok. See Charles.

Kaufman. See Kiwetinok.

Kausakuta; lake and river, tributary to Vermillion river, Champlain county, Que. (Not Caousacouta nor Cauasagouta.)

Kawachikamick. See Siucennes.

Kawagatna; lake, Haliburton county, Ont. (Not Kahwambejewagamog.)

Kawakashkagama. See Kawashkagama.

Kawasachuan; lake and river, southwest of Grand lake Victoria, Timiskaming county, Que. (Not Kawasajewan nor Kawassajewan.)

Kawasgisguegat. See Kawaskisigat.

Kawashegamuk; lake, southeast of Dinorwic lake, Kenora district, Ont. (Not long.)

Indian name meaning "clear water."

Kawasheibemagamak. See Washeibemaga.

Kawaskisigat; lake, headwaters of Lièvre river, St. Maurice county, Que. (Not Kawasgisguegat.)

Indian name meaning "grass all around the water."

Kawaskisigat; lake, headwaters of Lièvre river, St. Maurice county, Que. (Not long.)

Indian name meaning "it is a bright day."

Kawastaguta; bay, north bay of Grand lake Victoria, Pontiac and Timiskaming counties, Que.

Kawaweogama; lake, northeast of Seseganaga lake, Thunder Bay district, Ont.

Indian name meaning "round."

Kawawia; lake, southeast of Manitou lake, southern portion of Kenora district, Ont. (Not Oval.)

Indian name meaning "oval" or "round."

Kawawiagamak. See Wawiag.

Kay-gat. See Keigat.

Kaypiscow. See Kapiskau.

Kazabazua; village and river flowing into Gatineau river, Aylwin township, Ottawa county Que. (Not Kazubazua nor Kazuabazua.)

Indian name meaning "river that flows underground."

Keary; lake and creek, emptying into Bridge river, Lillooet district, B.C. After rancher.

Kedgwick; river, tributary to Restigouche river, Restigouche county, N.B. (Not Kedgewick nor Quatawnkedgewick.)

Indian name meaning "the river which runs down hill and disappears under the ground."

Keec. See Kiekkiek.

Keec-ec-kee-ee. See Kiekkiek.

Keefeer; island, entrance to Key harbour, Georgian bay, Parry Sound district, Ont. After late T. C. Keefer, Ottawa, prominent civil engineer.

Kejimacoojig. See Kejimkujik.
Keele; peak, Mackenzie-Yukon watershed, N.W.T.
   After Joseph Keele, Geological Survey, who explored Ross river, Yukon river, and
   Gravel river, 1907-8.

Keen; mount, west of Lardeau river, north of Poplar creek, Kootenay district, B.C.

Keewa. See Kipawa.

Kee-shkas. See Kishikas.

Keg; lake, Churchill river, northeast of lac La Ronge, Sask. (Not Barrel.)

Keglo; bay, east shore of Ungava bay, New Quebec territory, Que.
   Eskimo name meaning “knot.”

Keheewin. See Kehiwin.

Kehiwin; Indian reserve and lake, eastern Alberta. (Not Kehiwin.)

Keigat; lake, southwest of Cat lake, lake St. Joseph watershed, Patricia district, Ont. (Not
   Kay-gat.)

Keikewabik; lake, south of Minnitaki lake, Kenora district, Ont. (Not Hawkrock.)
   Indian name meaning “white hawk.”

Kejimkujik; lake, Annapolis and Queens counties, N.S. (Not Cegeneceega, Keja-makuja,
   Keejimacoogie, Kerjimacougie nor Segum Seega.)
   Miemac Indian name meaning “second big lake.”

Kekek; river, tributary to Migiskan river, Pontiac county, Que.
   Indian name meaning “hawk.”

Kekek; lake, Boischatel and Rouyn townships, Timiskaming county, Que.
   Indian name “hawk.”

Kekekwa; lake, southeast of Eagle, lake, Kenora district, Ont.
   Indian name meaning “falcon.”

Kekekwbabi; lake, Stanhope township, Haliburton county, Ont. (Not Cay-ka-quah-be-kung.)
   Indian name meaning “hawk.”

Kekeo; river, tributary to Manuan river, tributary to St. Maurice river, Champlain county,
   Que.

Kelsall; lake and river, flowing across international boundary into Chilkat river, Cassiar dis-
   trict, B.C. (Not Bear, Glave, Tschilkat, nor West fork of Chilkat.)
   After R. Kelsall, member of British Columbia Yukon boundary survey party, 1908.

Kelvin; island, large central island, lake Nipigon, Thunder Bay district, Ont. (Not Grand.)
   After Lord Kelvin (1824-1907), British scientist.

Kelvin; lake, expansion of Nottaway river, Abitibi territory, Que.
   See Kelvin island.

Kelvingrove; settlement, Huntingdon county, Que. (Not Calvin Grove nor Kelvin Grove.)
   After Kelvin river, Glasgow, Scotland.

   After Kematch, an Indian living on Shoal river.

Kempenfelt; bay, lake Simcoe, Simcoe county, Ont. (Not Kempenfeldt.)
   Named by Governor Simcoe after Rear-Admiral Richard Kempenfelt (1718-1782.)

Kempt; lake, St. Maurice county, Que. (Not Wabaskoutyunk.)
   After Sir James Kempt (1764-1854), governor of Nova Scotia, 1820-28, administrator
   of Canada 1828-30.

Kemptown; village, Colchester county, N.S. (Not Kempt Town.)
   See Kempt lake.

Kemptville; creek, tributary to Rideau river, Grenville county, Ont. (Not South Rideau
   river.)
   See Kempt lake.
Kenemich; river, emptying into Melville lake, Ashuanipi territory, Que. (Not Kenemichic.)
   Algonquin Indian name meaning "little long".
Kenilworth; lake, Tp. 50, R. 4, W. 4 M., Alberta.
Kennabutch; lake, east of Dinorwie lake, Kenora district, Ont. (Not Kennabuch.)
   Indian name meaning "I think so," "perhaps."
Ken-ne-ses. See Kenniss.
Kennewapekko; lake, east of Anzhekumming lake, Kenora district, Ont.
Kenny; lake, Dudley township, Haliburton county, Ont. (Not Ken-ne-big.)
   Indian name meaning "snake."
Kennicott; lake, head of Hackett river, Sheslay river, Cassiar district, B.C.
   After Western Union Telegraph Co. explorer; died at Nulato, May, 1866.
Kenosis; lake, Havelock township, Haliburton county, Ont. (Not Ken-ne-ses.)
Kenny; lake, National Transcontinental railway, 4 miles east of Lookout river, Thunder Bay district, Ont.
Kenogami; lake, township and village, Chicoutimi county, Que.
   Indian name meaning "long lake."
Kenogami; river, tributary to Albany river, Algoma and Thunder Bay districts, Ont.
   Indian name meaning "long water."
Kenogaminsee. See Larch.
Kenoniska; lake, emptying into Broadback river, above lake Evans, Abitibi territory, Que.
   (Not Long.)
Kenora; district, and town, western Ontario. (Not Rat Portage.)
   From the first two letters of Ke(ewatin), No(rman) and Ra(t Portage), three villages on the lake of the Woods; the town was formerly called Rat Portage.
Kenora; lake, Redditt township, Kenora district, Ont.
   See Kenora district.
Kenoze; lake, chain of lakes, draining into Albany river by Eabamet river, Patricia district, Ont.
   Indian name meaning "pike."
Kenoze; lake, southeast of Manitou lake, southern portion of Kenora district, Ont. (Not Kinoje.)
   Indian name meaning "pike."
Kerjimaougie. See Kejimkujik.
Kerkeslin; mountain, south of mount Hardisty, above junction of Whirlpool and Athabaska rivers, Alberta.
Kernertut; cape, southeast shore of Ungava bay, New Quebec territory, Que.
   Eskimo name meaning "black."
Kerr; bay and point, north shore of Amherst island, Lennox and Addington county, Ont. (Not Carrs cove nor Fish-point.)
Kerr; mount, President range, Rocky mountains, Kootenay district, B.C.
   After Robert Kerr, passenger traffic manager, Canadian Pacific Ry.
Kerr; rocks, south of Henry point, west coast of Digby island, Coast district, B.C.
Kersey; point, north end of Maitland island, Douglas channel, Coast district, B.C.
   See Maitland.
Kerwood; village, Adelaide township, Middlesex county, Ont. (Not Kerrwood.)
   After Kerr family.
Keshkabuon; island, head of Thunder bay, Thunder Bay district, Ont. (Not Caribou.)
Kestrel; rock, south of Lima point, entrance to Prince Rupert harbour, Coast district, B.C.
   After D. G. fishery cruiser "Kestrel."
Ketch; harbour and head, southwest of entrance to Halifax harbour, Halifax county, N.S. (Not Catch nor White.)

Descriptive.

Ketch Harbour; settlement, Halifax county, N.S.

See Ketch.

Ketchacum. See Catchacoma.

Ketchum; lake, head of Duidontu river, Cassiar district, B.C.

After Frank Ketchum, St. Johns, N.B., explorer for Western Union Telegraph Co.

Kettle; falls and portage, between Namakan and Rainy lakes, international boundary, Rainy River district, Ont. (Not Chaudière.)

Kettle; point and reef, lake Huron, Bosanquet township, Lambton county, Ont. (Not Ipperwash.)

Descriptive.

Kettle; range of mountains and river, tributary to Columbia river, Osoyoos and Similkameen districts, B.C.

From "kettle" shaped holes worn in the solid rock in the falls on the river.

Ketza; river, tributary to Pelly river, above Ross river, Yukon. (Not Kitza.)

Named by R. Campbell, Hudson’s Bay Co., 1843, after his Indian canoe man.

Kewagama; lake, southeast of Abitibi lake, Timiskaming county, Que.

Indian name meaning “lake that seems to return.”

Kewagodoongojioon. See La Pause.

Key; harbour and railway terminus, Georgian bay, Parry Sound district, Ont.

Harbour was so named by Bayfield, because it is key-shaped.

Keys; lake, southeast of Lount lake, English river, northern boundary of Kenora district, Ont.

Khartum. See Hector.

Kiamika; lake, river, township and village, Labelle county, Que.

Indian name meaning “steep rock.”

Kiask; river, tributary to Bell river, near southern boundary of Pontiac county, Que.

Indian name meaning “gull.”

Kickendatch. See Kikendatch.

Kicking Horse; pass, and river tributary to Columbia river from east, Kootenay district, B.C (Not Wapta river.)

Sir James Hector was kicked in the chest by one of his horses near present Wapta station.

Kid; creek, tributary to Goat river, south of Kootenay lake, Kootenay district, B.C.

Kiekkiekiek; lake, Bousquet township, Timiskaming, county, Que. (Not Keec nor Kee-ee-kee-ee.)

Indian name meaning “hawk.”

Kieley. See Coyle.

Kienawisk. See De Montigny.

Kiemawisk. See De Montigny.

Ki-ette. See Kaiete.

Kickendatch; Indian village, upper St. Maurice river, Champlain county, Que. (Not Kirken- date nor Kickendatch.)

Indian name meaning “kettle.”

Kikomun; creek, tributary to Kootenay river from east, above Elk river, Kootenay district,

B.C. (Not Kitamin, Kokamun, Mud nor Rock.)

Kildala; arm of Douglas channel, Coast district, B.C.

Kildala; river, flowing into Kildala arm of Douglas channel, Coast district, B.C.

Killarney; village, west side of Lower Arrow lake, Kootenay district, B.C.
Killenbeck; lake, Lansdowne township, Leeds county, Ont. (Not Killingbeck.)

Killsquaw; lake, Tp. 39, R. 22, W. 3 M., Sask.

Named in 1903 because of an Indian tradition that Cree women were murdered and thrown into the lake by Blackfeet.

Kilpatrick; mount, west of mount Wheeler, southern portion of Tp. 25, R. 25, W. 5 M., Selkirk mountains, Kootenay district, B.C.

After T. Kilpatrick, superintendent, Canadian Pacific Ry., Revelstoke.

Kilvert; lake, southeast of Haycock township, Kenora district, Ont.

Kimball; lake, Livingstone township, Haliburton county, Ont. (Not Kimball’s.)

Kimmewin; lake, southwest of Schist lake, Kenora district, Ont.

Indian name meaning “rain.”

Kinahan; islands, south of Digby island, Chatham sound, Coast district, B.C. (Not Kinnahan.)

After Lieutenant (later Vice Admiral) Richard George Kinahan, R.N., on Pacific station, 1866-68.

Kinaskan; lake, a source of Iskut river, Stikine river, Cassiar district, B.C. (Not Iskut.)

Kinbasket; lake, expansion of Columbia river, above the big bend, Kootenay district, B.C.

Named in 1866 by Walter Moberly, C.E., on one of his exploratory trips after an Indian chief whom he employed.

Kinbasket. See Barbour.

Kincardine; town, Bruce county, Ont.

After Earl of Elgin & Kincardine (1811-63), Governor General of Canada, 1846-54.

King; mount, Tp. 27, R. 19, W. 5 M., northwest of Ottertail railway station, Kootenay district, B.C.

After late Dr. W. F. King, C.M.G., D.T.S., Chief Astronomer of Canada.

King Christian. See Findlay.

Kingcome; inlet and mountains, Queen Charlotte sound, Coast district, B.C. (Not Kingcombe.)

After Rear Admiral (Sir) John Kingcome, commander in chief on Pacific Station, 1863-64, died, 1871.

Kingcome; point, north end of Princes Royal island, Coast district, B.C. (Not Kingcombe.)

After Captain William Kingcome, of the mercantile marine, who had charge of the H.B. Co. barque “Princess Royal,” 1862-63, having previously been first mate on her, 1859-61.

King George; sound, Hudson strait, New Quebec territory, Que.

After King George III (1738-1820), reigned 1761-1820.

Kingham; river, emptying into Ottawa river, Argenteuil county, Que. (Not Kingsey.)

On township plan of John Burrows, 1822.

Kingleake; post office, Houghton township, Norfolk county, Ont. (Not King Lake.)

After settler named King.

Kingscote; lake, Bruton township, Haliburton county, Ont.

Kingscourt; railway junction, Warwick township, Lambton county, Ont. (Not King’s Court.)

After estate in Longford county, Ireland, owned by Arthur J. Kingstone, Ellarton salt works.

Kingsey. See Kingham.

Kingsgate; railway station, international boundary, Kootenay district, B.C.

King Solomon; mountain, east of Carmi, Similkameen district, B.C.

After mineral claim.

Kingston. See Rexton.

King William; island, N.W.T. (Not King William Land.)

Named by Ross, 1830, after William IV (1765-1837).
Kinney; lake, southwest base of mount Robson, Cariboo district, B.C. (Not Helena.)
   After Rev. George Kinney, member of exploratory party in the region, 1907.

Kinnyu; lake, east of Manitou lake, southern portion of Kenora district, Ont.
   Indian name meaning “golden eagle.”

Kinoje. See Kenozhe.

Kinojevis; lake and river, tributary to upper Ottawa river, Timiskaming county, Que. (Not Kinojeviskaskatik.)
   Indian name meaning “little pike.”

Kinonge; river. Petite Nation seigniory, Labelle county, Que. (Not Salmon.)
   Indian name meaning “pike.”

Kinsman; settlement. Kings county, N.S. (Not Kinsman's Corner.)
   After Benjamin Kinsman, storekeeper.

Kintail; village, Ashfield township, Huron county, Ont.

Kipawa; lake and river, flowing into lake Timiskaming, Timiskaming county, Que. (Not Kipawa nor Kipewa.)
   Indian name meaning “it shuts in,” referring to the many bays of the lake.

Kipling; reef, west of Middle Duck island, Manitoulin district, Ont.
   After Rudyard Kipling.

Kipp; coulee, Tps. 19 and 20, R. 5, W. 4 M., Alberta. (Not Kipp's).
   After Joe Kipp, scout and interpreter.

Kirby; creek, flowing into Juan de Fuca strait, east of Sheringham point, Vancouver island, B.C. (Not Coal.)
   After resident.

Kirby & Spence; mount, south of head of Kishinena creek and north of King Edward peak, Kootenay district, B.C.
   Named by Captain T. Blakiston, 1858, after Wm. Kirby (1759-1850) and Wm. Spence (1783-1860), authors of the famous “Introduction to Entomology.”

Kirk; island, lake Evans, Abitibi territory, Que.

Kirkendatch. See Kikendatch.

Kirk Ferry; village, Hull, township, Ottawa county, Que. (Not Kirk's Ferry.)
   After John Kirk, sometime resident.

Kirkpatrick; lake, east of Sullivan lake, Alberta.

Kishikas; lake and river, tributary to Severn river, Patricia district, Ont. (Not Cedar, Kee-sha-kas nor Kishki.)
   Indian name meaning “cedar.”

Kishinena; mountains and creek, tributary to Flathead river, Kootenay district, B.C. (Not Kish-e-neha nor Kish-e-nehu.)
   Indian for “white fir” or “balsam.”

Kishki. See Kishikas.

Kiskitto; lake, west of Kiskittoogisu lake, north of lake Winnipeg, Man. (Not Grass nor West Niskitogisew.)
   Indian name meaning “goose gut.”

Kiskittoogisu; lake, west of West channel of Nelson river, Man. (Not Big Reed nor Niskitogisew.)
   Indian name meaning “cut gut.”

Kiskopkecheuans. See Minnehaha.

Kispiox; river, tributary to Skeena river, above Hazelton, Cassiar district, B.C. (Not Kispyox nor Kis-py-ox.)
   After Indian tribe; name means “place of ancestor Piyeoux.”
Kisseynew; lake, south of Kississing lake, Man. (Not Lobstick.)
   After Edward Kisseynew, settler.

Kississing; lake and river, tributary to Churchill river, Man. (Not Cold, Kissisino, nor
   Takipy.)
   Indian name meaning "cold."

Kitamaat. See Kitimat.

Kitamin. See Kikomin.

Kitchener; island, west of Cockburn island, Manitoulin district, Ont. (Not Little Cockburn).
   After Horatio Herbert Viscount Kitchener (1850-1916.)

Kitchener; mount, headwaters of Sunwapta river, Tp. 37, R. 24, W. 5 M., Jasper park, Alberta.
   (Not Douglas.) Name selected by Board to replace duplicated name given by Collie.
   After Horatio Herbert, Viscount Kitchener (1850-1916.)

Kitchigama; river, tributary to Nottaway river from west, Abitibi territory, Que. (Not
   Michagama.)
   Indian name meaning "big water."

Kitgargas; village, Babine river, near junction with the Skeena, Cassiar district, B.C. (Not
   Kitgargasse.)
   After Indian tribe.

Kitigtung. See Lady Franklin.

Kitimat; arm of Douglas channel, and village, Coast district, B.C. (Not Kitamaat.)
   Indian name meaning "the people of the snow."

Kitiwiti; shoal, southwest of Prospect, Halifax county, N.S. (Not Kitte Wittee.)
   Possibly of the same derivation as Quidwidi, fishing settlement near St. Johns, New-
   foundland.

Kitkiata; Indian village, Douglas channel, Coast district, B.C. (Not Kit-kia-tah.)
   Indian name meaning "the people of the poles;" so called from their salmon weirs.

Kitsalas; cañon and town, Skeena river, Coast district, B.C. (Not Kitselas.)
   Indian name meaning "people or village at the cañon."

Kitselas. See Kitsalas.

Kitsumgalum; lake and river, tributary to Skeena river, Coast district, B.C. (Not Kitsum-
   galum nor Kit-sum-kay-lum.)
   Indian name meaning "people on the upper part of the river."

Kittee Wittee. See Kitiwiti.

Kitty; shoal, middle one of three, south of Great Duck island, Manitoulin district, Ont.
   After daughter of John Bain, fishing company agent, Duck islands.

Kitwanga; village, Skeena river, about 20 miles below Hazelton, Cassiar district, B.C.
   After Indian tribe; name means "people of place of plenty of rabbits."

Kitza. See Ketz.

Kiwanzi; brook, flowing from south into Burntwood river, below Burntwood lake, Man.
   Indian name meaning "old man."

Kiwetinok; pass, peak, river, and valley, Tp. 29, R. 19 W. 5 M., Rocky mountains, Kootenay
   district, B.C. (Not Mt. Kaufman, Wilson pass, nor Whymper pass.)
   Cree Indian name meaning "on the north side."

Kla-anch. See Nimpkish.

Klaheela. See Klehini.

Klatsa; river, tributary to Frances river, Yukon. (Not Klatsatoa.)

Kledo; river, tributary to Muskwa river from the west, Peace River district, B.C. (Not Kled-
   oh-lishlin.)

Kleheena. See Klehini.
Klehini: river, flowing across international boundary into Chilkat river, Cassiar district, B.C. (Not Klaheela, Kleeheena, Kluheena, Kluheeny, Kluhini, nor Tlehini.) Indian name meaning "queen salmon."

Klemtu: passage and village, Coast district, B.C. (Not Klemttoo nor China Hat.) After Indian tribe.

Klesilkwa: river, tributary to Skagit river from west, Yale district, B.C.

Klewi: river, draining through Little Buffalo river into Great Slave lake, N.W.T. (Not Tesso-Clewec.)

Knokiya: bay, south bay of Morse basin, east of Kaien island, Coast district, B.C. (Not Cloyah.)

Klokka: river, tributary to Takluini river, Lewes river, Yukon.

Klootchman: cañon, Stikine river, south of Clearwater river, Cassiar district, B.C. (Not Kluchman.) Chinook name meaning "squaw."

Klotassín: river, tributary to Donjek river, Yukon.

Klotz: mount, Tatouduk river, Yukon. After Dr. Otto J. Klotz, astronomer, Dept. of Interior, Canada.

Kluane: lake and river, southwestern Yukon. (Not Kluahne.)

Kluatantan: river, headwaters of Skeena river, Cassiar district, B.C. (Not Klau-tan-Tan.) Indian name meaning "big fish."

Kluchman. See Klootchman.

Kluheena. See Klehini.

Kluheeny. See Klehini.

Kluhini: river, flowing out of Frederick lake into Dezadeash lake, southern Yukon.

Kluhini. See Klehini.

Klukshu: lake, head of Unahini river, Yukon.

Kluscha: creek, flowing through Braeburn lake into Nordenskiöld river, Yukon.

Klutlan: glacier, flowing east across international boundary, lat. 61° 27', into Generc river, Yukon.

Knapp: lake, between François and Cheslatta lakes, Coast district, B.C.

Knapp point, also Knapp Point, light station, north shore of Wolfe island, Frontenac county, Ont. (Not Brown's.)

Knee: hills, between Kneehills and Threehills creeks, Alberta. See Kneehill hamlet.

Kneehill: hamlet, Tp. 35, R. 27, W. 4 M., Alberta. (Not Knee Hill Valley.) From the adjacent hills, which to the Indian eye resembled the "knee."


Kneeland: bay, southwest shore of Frobisher bay, Baffin island, N.W.T.

Knife: islands, small group in Stokes bay, Bruce county, Ont.

Knife: lake, international boundary, Rainy River district, Ont. The name refers to the sharp stones which abound in the neighbourhood.

Knight. See Descanso.

Knob: lake, Rugby township, Kenora district, Ont.

Koak: islands and stream, St. John river, York county, N.B. (Not Coac nor Coak.) Maliseet Indian name meaning "pine tree."
Koidern; river, tributary to White river, Yukon.

Kokamun. See Kikomun.

Koketsa. See Kaketsa.

Kokomenhani; lake, Marten river, Mistassini territory, Que. (Not Kokhamenhani.)

Kokomis; lake, southwest of Grand lake Victoria, Timiskaming county, Que.

Koksila; railway station, ridge and river, flowing into Cowichan bay, southeast coast of Vancouver island, B.C.

Koksoak; river, flowing into Ungava bay, New Quebec territory, Que. (Not Big nor South.)

Kolfage; island, ¼ mile south of Pike point, 11½ miles north of Chiefs point, Bruce county, Ont.

Koochitching; falls, Rainy river, near Fort Frances, international boundary, Rainy River district, Ont. (Not Chaudière.)

Koochicking; falls, Rainy river, near Fort Frances, international boundary, Rainy River district, Ont. (Not Chaudière.)

Koochicking; falls, Rainy river, near Fort Frances, international boundary, Rainy River district, Ont. (Not Chaudière.)

Koos-ka-nax. See Kuskanax.

Kootanie. See Blakiston.

Kootenai. See Waterton.

Kootenay; lake and river, Kootenay district, B.C. (Not Kootanie, Kootenai, etc.)

Kopka; lake, 5 miles southwest of Wabinosh lake, Thunder Bay district, Ont.

Kopka; river, rising near height-of-land west of lake Nipigon and flowing through Kenakskanias, Wabinosh and intermediate lakes into Wabinosh river, Thunder Bay district, Ont. (Not Obowanga.)

Korikduardu; inlet, Hudson strait, N.W.T. (Not Ko-rick-du-ar-du.)

Koshin; river, tributary to Nahlin river, Inkin river, Taku river, Cassiar district, B.C.

Koyu; point, also lighthouse on the point, east of Langford point, Moresby island, entrance to Houston Stewart channel, Coast district, B.C.

Kukak; lake, southeast of Manitou lake, southern portion of Kenora district, Ont.

Kukukah; lake, southeast of Minnitaki lake, draining into English river, Kenora district, Ont. (Not Kukus.)

Kukukus; lake, southeast of Minnitaki lake, draining into English river, Kenora district, Ont. (Not Kukus.)

Kukus. See Kukukus.

Kuldo; creek and village, Skeena river, about 40 miles above Hazelton, Cassiar district, B.C.

Kulleet; bay, northeast of Ladysmith harbour, Vancouver island, B.C. (Not Chemainos nor Chemainus.)

Kunghit; island, Queen Charlotte islands, Coast district, B.C. (Not Prevost.)

Kuper; island, Stuart channel, southeast coast of Vancouver island, B.C.

Kuper. See Hibben.

Kusawa; lake, southern Yukon. (Not Arkell.)
Kusawa; river, flowing from Cassiar district, B.C., into Kusawa lake, Yukon. (Not Arkell.)
Kusawak; lake and mountains, between Kelsall river and Stonehouse creek, Cassiar district, B.C.
Kushog; lake, Stanhope township, Haliburton county, Ont. (Not Hall’s nor Kah-wah-she-be. mah-gog.)
Kusivah. See Surprise.
Kuskanax; creek, flowing into Upper Arrow lake, near Nakusp, Kootenay district, B.C. (Not Koos-ka-nax.)
Indian name meaning “long.”
Kuskonook; post office, near south end of Kootenay lake, Kootenay district, B.C. (Not Kusk-anook.)
Indian name meaning “end of the lake.”
Kutawagan; lake, Touchwood hill, Tp. 30, R. 20, W. 2 M., Sask.
Indian name meaning “match.” See Touchwood.
Kuthai; lake, lat. 50° 14’, long. 133° 15’, Cassiar district, B.C.
Kwadacha; river, tributary to Finlay river, Peace river, Cassiar district, B.C. (Not Quadacha nor Queneec.)
Kwatsilasi; point, north entrance to Akwatuk bay, James bay, New Quebec, Que. (Not Crooked Gutways.)
Eskimo name meaning “slightly frozen.”
Kwichpak. See Yukon.
Kwintitsa; railway station and river, tributary to Skeena river, Coast district, B.C. (Not Quintitsa.)
Kwoiek; peak, Tp. 28, R. 13, W. 6 M., Yale district, B.C. (Not Quoieek.)
Kyak; bay, mouth of Payne river, Ungava bay, New Quebec territory, Que.
Eskimo name meaning “cry of the sea-gull.”
Kyaska; lake, draining through Pagato lake and river into Churchill river, near eastern boundary of Sask.
Indian name meaning “gull.”
Kyet. See Kaiete.

La Biche (lac); lake, central Alberta. (Not Red Deer.)
Probably from the large numbers of elk (French biche) found in the vicinity.
Labrador; reef, lying a short distance east of Button islands, entrance to Hudson strait.
Labrador; reef, south of Belanger point, Manitoulin island, two miles east of Greene island, Manitoulin district, Ont.
After steamer “Labrador.”
Labyrinth; lake, interprovincial boundary, near height-of-land, south of lake Abitibi, Ont. and Que.
De Lisle’s map, 1700, shows the lake as the second or third of a chain of lakes on the canoe-route south of lake Abitibi.
Lacaille; point and river, emptying into the St. Lawrence, near Montmagny, Montmagny county, Que. (Not la Caille.)
After Adrien d’Abancourt, dit Lacaille who was drowned in the spring of 1640.
La Chapelle; hamlet, Two Mountains county, Que. (Not Lachapelle.)
L’Achigan. See Achigan.
La Colle. See Cole.
Lacroix; lake, Beaver Lake Indian reserve, southeast of lac La Biche, central Alberta.
Lacroix; Lake, valley of Bulkley river, above Telkwa river, Cassiar district, B.C. (Not La Croix, Le Croix nor Round.)
After first settler at lake.
La Croix (lac); international boundary, Rainy River district, Ont. (Not Namoukan nor Nequaquan.)
Lac-Sergent; hamlet, Portneuf county, Que.
Ladder; hill and lake, southeast of Cowan lake, northwest of Prince Albert, Sask.
Indian “lookout” hill.
Ladue; river, flowing across international boundary into White river, Yukon.
After Joseph Ladue, miner and founder of Dawson.
Lady Beatrix; lake, northeast of Mattagami lake, Abitibi territory, Que.
After daughter of Lord Lansdowne, Governor General of Canada, 1883-88.
Ladybird; mountain, north of Columbia river, above Kootenay river, Kootenay district, B.C. (Not Lady Bird.)
Lady Franklin; island, near Baffin island, northeast of Frobisher bay, N.W.T. (Not Kitig-tung.)
After Lady Jane Franklin (1792-1875), second wife of Sir John Franklin.
Ladysmith; harbour and town, southeast coast of Vancouver island, B.C. (Not Oyster harbour.)
Named in 1900 following the relief of Ladysmith, South Africa.
La France; creek, flowing into the east side of Kootenay lake, south of Crawford bay, Kootenay district, B.C. (Not Lafrance.)
Lagooun; head, south entrance to Hammond bay, north of Departure bay, southeast coast of Vancouver island, B.C.
Lahave; island and river, Lunenburg county, N.S. (Not La Have nor Le Havre.)
Cape la Hève appears on Lescarbot’s map, 1612, which after cap de la Hève, two miles N.N.W. of the entrance to Havre, France.
Lake; creek, tributary to Stewart river, Yukon.
Lake; creek, tributary to Lardeau river from east, Kootenay district, B.C.
Lake. See Chonat.
Lake Fleet; group of islands, Leeds and Lansdowne townships, St. Lawrence river, Leeds county, Ont.
Because individual islands are named after vessels of the British fleet on the Great lakes and on lake Champlain during the war of 1812-14.
Lakelse; lake and river, tributary to Skeena river, Coast district, B.C. (Not Lekelse.)
Lake Megantic. See Megantic.
Laketon; post, Dease lake, Cassiar district, B.C.
Descriptive.
Lakit; creek, east of Kootenay river, north of Steele, Kootenay district, B.C. (Not Four-mile.)
Chinook name meaning “four.”
La Lime. See Lanim.
La Loche. See Methye.
Lalonde; island, St. Lawrence river, Soulanges county, Que. (Not Chateauguay.)
L’Amable; brook, lake and village, Hastings county, Ont.
After Indian chief drowned in the lake.
La Macaza. See Macaza.
Lamb; creek, tributary to Moyie river, Kootenay district, B.C.
Lambert; shoal, northwest of mouth of Saugeen river, Bruce county, Ont.
After lightkeeper on Chantry island.
Lamek; bay, Shippigan island, Gloucester county, N.B. (Not Alemek, Lamec, L’Amec nor Lameque.)
Miemac Indian name meaning "the head is turned to one side."
La Motte; lake, La Motte and Malartic townships, Timiskaming county, Que. (Not Askikwaj nor Seals Home.)
After La Motte, Croix de St. Louis, regiment de Béarn, New France.
Lamy; lake, Sabourin township, Timiskaming county, Que. (Not Atikamek.)
After Etienne Lamy, who represented the French academy at the French language congress at Quebec, 1912.
Landels; river, Winfred river, Christina river, Clearwater river, Athabaska river, Alberta.
(Not Grizzly Bear.)
After A. F. Landels, Calgary.
Landing; lake, Nelson river, Man.
Langara; island, north of Graham island, Queen Charlotte group; also point on the island, with lightstation thereon; name also applied to rocks off the north shore of the island, Coast district, B.C. (Not North.)
Named by Commander Jacinto of the Spanish corvette "Aranzazu," 1792, after Admiral Don Juan de Langara.
Langford; lake, west of Esquimalt, Vancouver island, B.C.
Langlais. See Langlois.
Langlois; point, mouth of Grande rivere du Chêne, Lotbinière county, Que. (Not Langlais.)
Lanim; point, west of Dalhousie, Restigouche county, N.B. (Not La Lime, La Nim nor Le Nim.)
L'Annocation; parish, Labelle County, Que.
La Nonne (lac); lake, Tp. 57, Rs. 2 and 3, W. 5 M., Alberta.
In 1857 three nuns of the Charity order established a convent here.
Lansdowne; mount, west of lake Marsh, southern Yukon.
After Lord Lansdowne, Governor General of Canada, 1888–8.
L'Anse au Beauflis. See Anse-à-Beaufils.
L'Anse-d'Valleau. See Anse-au-Vallon.
Lansing; river, tributary to Stewart river, Yukon.
After pioneer.
La Pause; lake, La Pause township, Timiskaming county, Que. (Not Kewagodoongojoon.)
After La Pause, régiment de Guyenne, quartermaster general, New France, in 1760.
Lapêche; lake, Onslow township, Pontiac county and river, flowing into Gatineau river in Masham township, Ottawa county, Que.
Lapie; river, flowing south into Pelly river below Ross river, Yukon.
Named by Dr. G. M. Dawson after one of the Indians who accompanied R. Campbell, Hudson’s Bay Co., on his exploration of the Pelly river, 1843.
Lapierre; island, St. Lawrence river, Richelieu county, Que. (Not Pierre nor Stone.)
Laplante; village, Gloucester county, N.B. (Not La Plante.)
After François Laplante, early settler.
Larch; river, tributary to Koksoak river, New Quebec territory, Que. (Not Kenogamisssee.)
Lardeau; creek, flowing into head of Trout lake, Kootenay district, B.C.
Lardeau; mining division, Kootenay district, B.C. (Not Lardo.)
Lardeau; mountains, east of Upper Arrow lake, Kootenay district, B.C.
Lardeau; river, tributary to Duncan river, Kootenay district, B.C. (Not Lardo.)

Lardeau; town, north end of Kootenay lake, Kootenay district, B.C. (Not Lardo.)

Larder; lake, south of Abitibi lake, Timiskaming district, Ont. (Not Present nor President.)
Translation of descriptive Indian name.

Lardo. See Purity.

L’Ardoise; village, Richmond county, N.S. (Not Ardoise.)
From the “slate” cliffs along the shore.

Large. See Hamilton.

Large Trout. See Hector.

LaRivière; village, Pembina river, tributary to Red river, Man. (Not Larivière.)
After A. A. C. LaRivière, M. P. for Provencher, Man., 1889-1904.

Lark; islet, northeast of pointe aux Alouettes, entrance to Saguenay river, Saguenay county, Que. (Not Morts.)

Lark. See Alouettes.

La Ronde. See Rond.

La Rouge (lac); lake, south of Churchill river, central Sask.
French translation of Indian name; named by the Indians from trees felled and “gnawed” by the beaver.

Larose. See Dansereau.

Larry; rock, south of Great Duck island, Manitoulin district, Ont.
After fisherman.

Lartigue. See Lois.

La Salette; town, Windham township, Norfolk county, Ont. (Not La Sallette nor Lasallette.)
After La Salette, a noted place of pilgrimage in France.

La Sarre; river, flowing from Makamik lake to Abitibi lake, Timiskaming county, Que. (Not Amikikitik nor Whitefish.)
After the regiment de La Sarre, part of Montcalm’s force in the battle of the Plains of Abraham.

Lash; island, entrance to Key harbour, Parry Sound district, Ont.
After Z. A. Lash, K.C., Toronto.

Lasher; island, lake Superior, 1 mile west of Brodeur island, south of entrance to Shesheeb bay, Thunder Bay district, Ont.
After Mrs. W. J. Stewart, née Lasher.

Laskay; village, King township, York county, Ont. (Not Laskey.)
Name first given to a grist mill in 1849.

Lasketti. See Lasqueti.

Lasquely. See Lasqueti.

Lasqueti; island, south of Texada island, strait of Georgia, B.C. (Not Lasquely nor Lasketti.)
Named in 1791 by Jose Maria Narvaez, Spanish naval officer.

Last-chance; creek, branch of Hunker creek, Klondike river, Yukon.

Last-chance; creek, flowing across international boundary from Yukon territory into Yukon river, near Eagle, Alaska.

La Tabatiere; bay and post office, Boishébert township, Saguenay county, Que.

Latchford; town, Montreal river, Timiskaming district, Ont.
After Hon. F. R. Latchford, judge of the High Court of Justice for Ontario.

La Tete. See Walton.

Laura; mount, east of Stikine river, above Iskut river, Cassiar district, B.C.

Laurie; lake, Tp. 30, R. 26, W. P. M., Man.

Laurie; range of mountains, west of O’Donnel river, Cassiar district, B.C.
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Laurier; cove, upper portion of Prince Rupert harbour, Coast district, B.C.
After Rt. Hon. Sir Wilfrid Laurier, Premier of Canada at time of survey.
Laurier; lake, Pettypiece township, Kenora district, Ont.
Laurier; mount, east of lake Laberge, Yukon.
Laurier; river, emptying into the east end of Clinton-Colden lake, north-east of Great Slave lake, N.W.T.

See Laurier cove.

Laussedat; mount, about 11 miles northeast of Donald railway station, Kootenay district, B.C.
After Col. Aime Laussedat (1819–1907), who inaugurated photographic surveying.
Lavallée; lake, Tp. 61, R. 4, W. 3 M., Sask. (Not Pelican.)
After Louis Lavallée, a settler at the lake.
Lavina; mount, north of Kootenay lake, Kootenay district, B.C.
Lavington; creek, tributary to Findlay creek, tributary to Kootenay river, south of Columbia lake, Kootenay district, B.C. (Not South fork of Findlay.)
Law; mount, lat. 50°31', long. 116°23' and creek, tributary to Slade creek, Kootenay district, B.C.

After Charles F. Law, Vancouver.
Lawrence; lake, Tp. 61° Rs. 7 and 8, W. 3 M., Sask. (Not Caribou.)
After Charles Lawrence, assistant on survey party.
Lazy; lake, about 15 miles north of Steele, Kootenay district, B.C. (Not Rock.)
Leach; creek, tributary to Michel creek, Elk river, Kootenay district, B.C. (Not South branch of Michel.)

After William Leach, Geological Survey.
Leaf; bay, lake and river, Ungava bay, New Quebec territory, Que. (Not Nepihjee river.)
Leah; peak, northwest of Samson peak, Maligine lake, Rocky mountains, Alberta.

After squaw of Samson Beaver, Stoney Indian.

Leak. See Thwartway.
Leancholl; railway station, Kootenay district, B.C.

After birthplace of Lord Strathcona's mother, Inverness-shire, Scotland.
Leary; cove and point west entrance to Blind bay, Halifax county, N.S. (Not Leary's.)
Leask; bay and point, west shore of South bay, 11 miles northeast of South Baymouth, Manitoulin island, Manitoulin district, Ont.
After settler.
Leather; river, flowing into Carrot river in Tp. 48, R. 13, W. 2 M., Sask. (Not Hanging Hide.)
Lebarge. See Laberge.
Lebel; island, St. Lawrence river, opposite Repentigny, L'Assomption county, Que. (Not du Curé.)
Lebouef; bay, Gabriola island, southeast coast of Vancouver island, B.C. (Not Lebeuf.)
Lebret; lake, expansion of Qu'Appelle river, second lowest of the "Fishing" lakes; also settlement, Sask.
After Rev. Father Lebret O.M.I., who was in charge of the Qu'Appelle Roman Catholic mission; postmaster 1885 and 1886; later, moved to McLeod, Alberta, where he died in 1903.
Le Croix. See Lacroix.
Lectern; peak, northwest corner of Tp. 43, R. 1, W. 6 M., Jasper park, Alberta.
Descriptive.
Leda; peak, near Castor and Polllox, head of Asulkan brook, Illecillewaet river, Selkirk mountains, Kootenay district, B.C.

From its position; Leda was mother of Castor and Polllox.

25c—10
Le Duc.  See Edith Cavell.

Lee; bank, lake Huron, north of Saugeen river, Bruce county, Ont.  
   After postmaster, Southampton.

Lee; creek, tributary to St. Mary river, Oldman river, Alberta.  (Not Lee's.)  
   After W. S. Lee, settler.

Leech; river, tributary to Sooke river, south coast of Vancouver island, B.C.  
   After Lt. Peter John Leech, astronomer, Vancouver Island exploring expedition, 1864; 
   later city engineer of Victoria; died 1899.

Leek.  See Thwartway.

Lefroy; mount and glacier, southern portion of Tp. 28, R. 17, W. 5 M., Alberta and Kootenay 
   district, B.C.  
   After Major General Sir John Henry Lefroy (1817-90), head of Toronto observatory, 
   1843-53.

Leg.  See Muldrew.

Léger; settlement, Westmorland county, N.B.  (Not Legère Corner nor Legers Corners.) 
   After settlers of this name of whom Jacques Léger (1668-1751), the pioneer came from 
   France to Port Royal before 1697.

Légère Corner.  See Léger.

Le Havre.  See Lahave.

Le Heu; point, below Murray Bay, Charlevoix county, Que.  
   Heu is French for "hoy," a coasting vessel of small draught.

Lekelse.  See Lakelse.

Lelu; island, southeast of entrance to Prince Rupert harbour, Coast district, B.C.  (Not Le-loo 
   nor South Porpoise.)  
   Chinook word meaning "wolf."

Leman; river, tributary to Bersimis river, Saguenay county, Que.  
   Named in 1915 after General Leman, Belgium, defender of Liège, 1914.

Lemoine; lake, Desroberts, Dubuisson and Laubanie townships, Timiskaming county, Que.  
   (Not Kakinokamak.)  
   After Father Lemoine, missionary and author of two Indian dictionaries.

Le Nim.  See Lanim.

Lenore; lake, north of Humboldt, Sask.  
   After daughter of T. Fawcett, D.T.S.

Leon; settlement, east side of Upper Arrow lake, Kootenay district, B.C.  (Not Leon Hot 
   Springs.)

Leonard; island, St. Lawrence river, Soulanges county, Que.  (Not Grand Batture.)

Leonard; mount, west of Surprise lake, Cassiar district, B.C.

Leopold; point, Markham bay, Hudson strait, N.W.T.

Le Pas.  See Pas.

Lepreau; basin, harbour, parish, point, river and village, Charlotte county, N.B.  (Not Lepreaux 
   nor Belas.)

Leroux.  See Hill.

Les Bergeronnes.  See Bergeronnes.

Lescarbot; lake, Lescarbot township, Quebec county, Que.  (Not Kamamintigongue.)

Les Ecureuils; bank and village, north shore of St. Lawrence river, Portneuf county, Que.

Lesser Slave; lake and river, Alberta.  (Not Slave.)

Lester; lake, Haycock township, Kenora district, Ont.  (Not Lister.)

L'Etang; harbour, river, and village, Charlotte county, N.B.  (Not Etang nor Letang.) 
   French word meaning "the pond."
Limestone; lake, Mayo township, Hastings county, Ont. Descriptive; crystalline limestone rock on its shores.  
25c—10 1/2
Limestone; point, Nipisiquit bay, Gloucester county, N.B. (Not Young's.)

Limestone. See Dolomite.

Lina; range of mountains, south of Atlin, Cassiar district, B.C.

Linda; lake, northeast of mount Odaray, Rocky mountains, Kootenay district, B.C. After wife of Vittorio Sella, Italian mountaineer and photographer.

Lindal; lake, Pettypiece township, Kenora district, Ont. (Not Lindel.)

Lindeman; lake, south of Bennett lake, Cassiar district, B.C. (Not Linderman nor Lyndeman.)

Lindoe. See Lynedoch.

Lindsay; island. Admiralty group, St. Lawrence river, Leeds county, Ont. (Not Cut.)

Line; creek, tributary to Fording river, near its junction with Elk river, Kootenay district, B.C.

Line; lake, northeast of Atikwa lake, Kenora district, Ont. After wife of Vittorio Sella, Italian mountaineer and photographer.


Lineham; mount, lat. 49° 04', long. 114° 03', Alberta. After rancher.

Link; lake, northeast of Atikwa lake, Kenora district, Ont. After Hudson's Bay Co. agent, Tobacco Plains.

Linklater; creek, tributary to Kootenay river, near international boundary, Kootenay district, B.C. (Not Linkwater nor Meadow.) After John Lineham, rancher, sometime M.L.A. for High River district.

Lionhead; harbour, headland and village, Georgian bay, Eastnor township, Bruce county, Ont. (Not Lion Head nor Lion's Head.) From a limestone cliff at the entrance to the harbour, with a projection at the top like a lion's head.

Lionnet; river, tributary to Bersimis river, Saguenay county, Que. Named in 1915 after Jean Lionnet, French writer.

Liscomb; harbour and village, Guysborough county, N.S. (Not Liscombe.) After Liscomb House, Tudor mansion, Buckinghamshire, England.

Liskeard; town, Dymond township, Timiskaming district, Ont. (Not New Liskeard.) After Liskeard, Cornwall, England.

L'Isle. See Delisle.

Lister. See Lester.

Listowel; town, Perth county, Ont. (Not Listowell.)

Litchfield. See Lichfield.

Little; mount, Bow range, Rocky mountains, Alberta and Kootenay district, B.C. After George Little, Bowdoin College, Brunswick, Maine, U.S., member of party which made first ascent.

Little; rock, southwest of Phoebe point, Fitzwilliam island, Manitoulin district, Ont. Descriptive.

Little. See Rough.

Little Atlin; lake, between Atlin lake and lake Marsh, Yukon.

Little Black. See Belanger.

Little Black. See Burton.

Little Boshkung; lake, Minden township, Haliburton county, Ont.
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Little Bow; river, tributary to Oldman river, Alberta. (Not Small.)
   See Bow.

Little Bras d’Or; narrow channel, east of Boularderie island, leading into St. Andrew channel
   from the Atlantic, Cape Breton county, N.S.

Little Brazeau. See Nordegg.

Little Candle. See Torch.

Little Cedar. See Pakhoan.

Little Charlton. See Tredely.

Little Cockburn. See Kitchener.

Little Cranberry. See Traverse.

Little Cutarm. See Kaposvar.

Little Don; river, tributary to Don river, York county, Ont. (Not Don.)
   See Don.

Little Fishing. See Peck.

Little Flatland. See Campbell.

Little Fork. See Gunamitz.

Little fork of Saskatchewan. See Mistaya.

Little Grant. See Pearson.

Little Green. See Steevens.

Little Island. See Ministikwan.

Little Jackfish. See Foreleg.

Littlejohn; island, Admiralty group, St. Lawrence river, Leeds county, Ont.

Little Knife; portage, between Knife and Cypress lakes, Rainy River district, Ont.

Little Lor. See Little Lorembec.

Little Lorembec; post office, midway between Lorembec and Cape Breton, Cape Breton
   county, N.S. (Not Little Loran nor Little Lorraine.)
   See Lorembec.

Little Lorraine. See Little Lorembec.

Little Madawaska; river, tributary to Petawawa river, Algonquin National park, Nipissing
   district, Ont.
   See Madawaska.

Little Magog. See Magog.

Little Mecattina. See Mekattina.

Little Metascouac. See Barrés.

Little Miniminigash. See Roseville.

Little Mistassini. See Albanel.

Little Musquodoboit. See Elderbank.

Little Natashquan. See Natashkwan.

Little Nation. See South Nation.

Little North fork of Dutch. See Brewer.

Little Nottaway. See Broadback.

Little Opeongo. See Aylen.

Little Pelican. See Suggi.

Little Quill. See Quill.

Little Red. See Spruce.

Little River Musquodoboit. See Elderbank.

Little Roger. See Gaboury.
Little Sachigo. See Oponask.

Little Salmon; river, tributary to Lewes river, Yukon.

Little Sandy. See Athol.

Little Saskatchewan. See Dauphin.

Little Saskatchewan. See Minnedosa.

Little Shallow. See Pakwash.

Little Shuswap; lake, west of Shuswap lake, Kamloops district, B.C.

Little Slocan; river, tributary to Slocan river, Kootenay district, B.C.

Little Smoky; river, tributary to Smoky river, Peace river, Alberta.

Little Slave. See Prince Regent.

Little Tahltan; river, tributary to Tahltan river, Stikine river, Cassiar district, B.C.

Little Tobique. See Sisson.

Little Tobique. See Tobique.

Little Vermillion; lake, between Loon and Sand Point lakes, international boundary, Rainy River district, Ont. (Not Vermilion.)

Little Vermilion. See Altrude.

Little Wabigoon. See Dinorwic.

Little Weslemkoon. See Eeiffingham.

Little Whitefish. See Heney.

Livingstone; range, also mount in the range, lat. 50° 08', long. 114° 24', Alberta.

After David Livingstone (1813-73), African explorer and missionary.

Livingstone; river, rising about lat. 50° 14', long. 114° 30', and flowing south into Oldman river, west of Livingstone range, Alberta.

See Livingstone range.

Lizard; mountains and creek, tributary to Elk river from west, below Fernie, Kootenay district, B.C.

Lizard. See Laberge.

Lladnor; creek, tributary to Elk river, north of Olson, Kootenay district, B.C.

Llewellyn; glacier, south of Atlin lake and draining into it, Cassiar district, B.C.

Lloyd George; mount and glacier, head of Kwadacha river, Cassiar and Peace River districts, B.C.

After David Lloyd George, Prime Minister of Great Britain and Ireland.

Lllysfran; peak of mount Mary Vaux, near southeast end of Maligne lake, Rocky mountains, Alberta.

A family name of Miss Mary Vaux, Philadelphia.

Loadstone. See Lodestone.

Loaf; mountain, lat. 49° 13', long. 114° 06', Alberta.

Descriptive.

Lobster; lake, Airy township, Nipissing district, Ont.

Lobster. See Crayfish.

Lobstick; bay, Whitefish bay, lake of the Woods, Kenora district, Ont. (Not Lob-stock.)

Lobstick; river, tributary to Pembina river, North Saskatchewan river, Alberta. (Not Lob-stock.)

Descriptive.

Lobstick. See Chip.

Lobstick. See Kiseye new.
Lock; bay, Gabriola island, southeast coast of Vancouver island, B.C.
Locke; island, Lockeport harbour, Shelburne county, N.S. (Not Ragged nor Rugged.)
After Jonathan Locke, pioneer settler.
Lockeport; harbour and town, Shelburne county, N.S. (Not Ragged island nor Rugged island.)
See Locke island.
Lockhart; river, emptying into east end of Great Slave lake, N.W.T. (Not Lockhart's.)
Lodestone; lake and mountain, about 7 miles southwest of Tulameen, Yale district, B.C. (Not Lodestone mountain nor Paradise lake.)
From magnetite deposits on the mountain.
Lodge; creek, southern Alberta and Sask. (Not Medicine Lodge.)
Lodgepole; creek, tributary to Wigwam river, Kootenay district, B.C. (Not Lodge Pole.)
Logan; island, lake Nipigon, west of Ombabika bay, Thunder Bay district, Ont.
After Sir Wm. E. Logan (1798-1875), director, Geological and Natural History Survey of Canada, 1841-69.
Logan; mount, Yukon and glacier, flowing west across international boundary, lat. 60° 51', Yukon and Alaska.
See Logan island.
Logan; range, east of Frances lake and river, Yukon territory. (Not Tootshoo.)
See Logan island.
Logan. See Hunt.
Logie; rock, west of Port Elgin, Bruce county, Ont.
After Southampton fisherman.
Lois; lake and river, emptying into Makamik lake in Royal-Roussillon township, Timiskaming county, Que. (Not Lartigue, Matamik nor Moleworth.)
After Miss Lois Booth, Ottawa.
Loks; land, at north entrance to Frobisher bay, Baffin island, N.W.T., (Not Lok's.)
After Michael Lok, who wrote an account of Frobisher's first voyage.
Lomond; lake and river, emptying into lake Superior, Blake township, Thunder Bay district, Ont. (Not Carp.)
After loch Lomond, Scotland.
London Junction. See Pottersburg.
Lone; mountain, lat. 49° 06', long. 114° 07', east of South Kootenay pass, Alberta.
Descriptive.
Lonely; bay, 4 miles northwest of Providence point, Manitoulin island, Manitoulin district, Ont.
Descriptive.
Lonely; river, flowing into bay of same name, Opasatika lake, Désandroins and Pontleroy townships, Timiskaming county, Que. (Not Bagwah.)
Lonely. See Isolated.
Lonely. See Ten Peaks.
Lone Man's. See Oneman.
Lone Tree. See Ann.
Long; creek, west branch of Souris river, southeastern Sask.
Descriptive.
Long; point, Norfolk county, Ont. (Not North foreland.)
Descriptive.
Long; point, lake Evans, Abitibi territory, Que.
Descriptive.
Long; portage, between Rose and Watap lakes, international boundary, Thunder Bay district, Ont. (Not Great New.)

Descriptive.

Long. See Awun.
Long. See Bowker.
Long. See Farrell.
Long. See Kawashegamuk.
Long. See Kenoniska.
Long. See Lowes.
Long. See Maclure.
Long. See Methy.
Long. See Mountain.
Long. See Ord.
Long. See St. Andrew.
Long. See Scotia.
Long. See Trident.
Long. See Vaudray.
Long. See Wolfe.
Long. See Woods.

Long-legged; lake and river, emptying into Wilcox lake, English river, Patricia district, Ont.

Long Point. See Longue-Point.

Long Point; bay and lightstation, Norfolk county, Ont. (Not Outer bay of Long point.)

Long. See Long.

Long Sault; rapids, below Manitou rapids, Rainy river, Rainy River district, Ont.

Longspell; point, near Kingsport, Kings county, N.S. (Not Indian.)

Longue-Pointe; shoal and village, north shore of St. Lawrence river, Laval county, Que. (Not Long Point.)

Lookout; mountain, southeast of Glacier railway station, Selkirk mountains, Kootenay district, B.C.

Descriptive.

Lookout; river, emptying into Smoothrock lake, from the south, Thunder Bay district, Ont.,

Loon. See Makwa.

Loon. See Mang.

Loon; lake, between La Croix and Little Vermilion lakes, international boundary, Rainy River district, Ont.

Loon. See Herodier.

Loon. See Wabiskaw.

Loonhead; lake, File river, tributary to Burntwood river, Man. (Not Loon-head.)

Descriptive of its shape.

Loop; brook, tributary to Illecillewaet river from south, near The Loop, Kootenay district, B.C.

After “loop” in railway track, eliminated by new line.

Loop; ridge, southwest of Crowsnest railway station, Alberta and Kootenay district, B.C.

After loop in railway.

Lordmills; settlement, Augusta township, Grenville county, Ont. (Not Lord Mills.)

Lorembec; head and settlement, about 2 miles east of Louisburg, Cape Breton county, N.S.

(Not Big Loran nor Big Lorraine.)

The original form of this name was Laurentbee; Lorembec is the earliest picturesque and euphonious form and is found on the maps of Chabert, 1751, and Bellin, 1764, a French chart 1790, and the “North American Pilot,” 1775.
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**Lorenzo.** See Pelletier.

**Loretta;** island, north of Hawkesbury island, Coast district, B.C.

[After wife of J. E. Gobeil, Public Works Department of Canada.]

**Lorette;** parish, railway station and village, southeast of Winnipeg, Man.  (Not Loretto.)

[After Lorette, village, Quebec.]

**L'Original;** town, Longueuil township, Prescott county, Ont.  (Not L'Original.)

[French name meaning "moose."]


[After the Duke of Argyll, who as Marquis of Lorne, was Governor General of Canada, 1878-83.]

**Lorne;** lake, Rugby township, Kenora district, Ont.

**Lorne;** mount, west of lake Marsh, southern Yukon.

[See Lorne lake.]

**Lorne.** See Bendor.

**Lorneville;** village, west side of entrance to St. John harbour, St. John county, N.B.  (Not Pisarinco.)

[See Lorne lake.]

**Lorrain;** lake, South Lorrain township, Timiskaming district, Ont.  (Not Bear.)

[See Lorrainville.]

**Lorrainville;** parish and village, Timiskaming county, Que.  (Not Lorrainville.)

[After Rt. Rev. N. Z. Lorrain, Roman Catholic bishop of Pembroke.]

**Loscombe;** reef, north of Macpherson point, southern entrance to baie du Doré, Bruce county, Ont.

[After citizen, Kineardine.]

**Lost;** lake, discharging into English river below Minnitaki lake, Kenora district, Ont.

**Loucks;** lake, Burleigh township, Peterborough county, Ont.  (Not Louck's.)

[After settler.]

**Lougheed;** bay, point and reef, 5½ miles northwest of Providence point, Manitoulin island, Manitoulin district, Ont.

**Louis;** mountains, Gaspe county, Que.

[After Louis XIII, king of France.]


[After Louis B. Stewart, D.T.S., Professor of Surveying, Toronto University.]

**Louis;** point, south end of Coste island, Kitimat arm, Coast district, B.C.

[After Louis Coste, chief engineer, Public Works Department of Canada.]

**Louis;** port, Graham island, Coast district, B.C.  (Not Ingraham nor Lewis.)

[Name on Marchand's map, 1791.]

**Louisa;** lake, Lawrence township, Haliburton county, Ont.

**Louise;** lake, below Lorne lake, Pembina river, also railway station, Man.

[After Princes Louise, wife of Duke of Argyll, Governor General of Canada, 1878-1883.]

**Louise;** lake, west of Lake Louise railway station, Alberta.  (Not Emerald.)

[After Princess Louise, Duchess of Argyll; formerly called by the Indians lake of Little Fishes.]

**Lount;** lake, English river, Kenora district, Ont.

[After Geo. F. Lount, assistant in 1873 to Dr. R. Bell, Geological Survey; Canada.]

**Loup (banc du);** bank, below Pilgrim islands, St. Lawrence river, Temiscouata county, Que.

**Loup (pointe du);** (rivière du); point and river, tributary to St. Lawrence river, Temiscouata county, Que.

**Loutres.** See Glaises.
Lovering; lake, between Massawippi and Memphremagog lakes, Stanstead county, Que. (Not Crystal.)

Low; lake, east of Pettipiece township, Kenora district, Ont.

Low; point, east side of George bay, Inverness county, N.S. Descriptive.

Low Point; post office, Inverness county, N.S.

See Low point.

Low. See Clark.

Low. See Flat.

Lower Arrow; lake, expansion of Columbia river, Kootenay district, B.C.

See Upper Arrow.

Lower Bow. See Hector.

Lower Clearwater. See Washagomis.

Lower Savage; islands, Hudson strait, N.W.T.

Named by Baffin, 1614, from the number of savages (Eskimos) seen there.

Lower White Fish. See Gregg.

Lowes; lake, Tp. 25, R. 4, W. 2 M., Sask. (Not Long, Pebble nor Silver.)

Named in 1893 after settlers.

Lubbock; bay, west of Markham bay, Hudson strait, N.W.T.

After Sir John Lubbock, later, Lord Avebury (1834-1913), scientist.

Lubbock; river, flowing from Little Atlin lake into Atlin lake, Yukon.

Lucas; channel, island, and reef, south of Yeo island, entrance to Georgian bay, Manitoulin district, Ont.

See Yeo island.

Luke; creek, tributary to St. Mary river, Kootenay district, B.C. Biblical.

Luke Fox. See Fox.

Lumley. See Frobisher.

Lusk; creek, tributary to Kananaskis river, Alberta.

Lussier; river, tributary to Kootenay river in lat. 49° 55', long. 115° 44', Kootenay district, B.C. (Not Sheep.)

Named by David Thompson, 1808, after E. Lussier, one of his men who had recently lost his baggage in crossing Moyie river.

Lutz; settlement, Westmorland county, N.B. (Not Lutes nor Lutes Mountain.)

After early settler of German origin from Pennsylvania.

Lyal; island and reef, south of island, Stokes bay, Bruce county, Ont.

Lyall; mount, lat. 50° 05', long. 114° 42', Alberta and B.C.

After Dr. Lyall, R.N., surgeon and naturalist, British Boundary Commission, Pacific to the Rockies, 1858-62.

Lychnis; mountain, Tp. 29, R. 14, W. 5 M., Rocky mountains, Alberta.

After flower.

Lyell; mount, lat. 51° 56', long. 117° 01', Alberta and Kootenay district, B.C., snowfield and creek draining into Bush river, Kootenay district, B.C.

After Sir Charles Lyell (1798-1875), geologist.

Lynch; island, Ste. Geneviève group, Vaudreuil county, Que. (Not Dowker's nor Lynch's.)

Lyndeman. See Lindeman.

Lynedoch; island, St. Lawrence river, Landsdowne township, Leeds county, Ont. (Not Ash, Lindoe nor Lynedoch.)

Lynn; creek and lake, emptying into Burrard inlet, New Westminster district, B.C.

Lynn; point, Manitoulin island, northwest of Greene island, Manitoulin district, Ont. (Not Black.)

After freight steamer "Lynn," built in 1898.

Lynx. See Selby.

Lyons; creek, flowing into Crowsnest river from south below Blairmore railway station, Alberta.

Lyster; lake, Barnston township, Stanstead county, Que. (Not Baldwin's nor Barnston.)

M

Mabee; hamlet, Middleton township, Norfolk county, Ont. (Not Maybee.)

Mabel. See Maccan.

Mabel; hamlet, Middleton township, Norfolk county, Ont. (Not Maybee.)

Mabel; lake and mountain, Kamloops and Osoyoos districts, B.C.

Macaee; mountain and creek, tributary to Sheep river, Alberta.

McAdam; village, York county, N.B. (Not Macadam nor McAdam Junction.)

After John McAdam, M.P.P., who carried on lumbering operations on the brook to which the name was first applied.

McAlpine; village, Caledonia township, Prescott county, Ont. (Not McAlpine's nor McAlpin.)

After farmer.

Macan. See Maccan.

McArthur; creek, lake and pass, west of Columbia river; also mountain, head of Yoho valley, Rocky mountains, Kootenay district, B.C.

After J. J. McArthur, D.L.S.

Macaulay; lake, Airy township, Nipissing district, Ont. (Not McCauley.)

Macaulay; spit, southeast of Inner Duck island, Manitoulin district, Ont. (Not McCauley's)

After Captain Macaulay of tug "Jones".

Macaza; mission, Marchand township, Labelle county, Que. (Not La Macaza.)

McBean; mount, between Van Horne brook and Incomappleux river, Selkirk mountains, Kootenay district, B.C.

After "a good old Scotch clan."

McCullum; island, 2 miles north of Burke island, Bruce county, Ont. (Not Snake.)

McCullum; mountains, southwest of Pike river, east shore of Atlin lake, Cassiar district, B.C.

McCann; hill, latitude 64° 55', international boundary, Yukon

After W. S. McCann, assistant on survey.

Maccan; river and village, Cumberland county, N.S. (Not Macan.)

McCarthy; point, middle of southeast side of Fitzwilliam island, Manitoulin district, Ont.

After D'Alton McCarthy, M.P. for Cardwell, 1874-78, and for Simcoe North, 1878-98.

McCarty; mount, lat. 49° 23', long. 114° 30', east of North Kootenay pass, Alberta.

M'Clintock; peak and river, Upper Lewes river, Yukon. (Not McClintock.)

After Admiral Sir Francis Leopold M'Clintock (1819-1907), Arctic explorer.

McConnell; peak and river, tributary to Nisutlin river, Yukon.

After R. G. McConnell, Deputy Minister, Department of Mines, Canada.

McCormick; creek and landing, near foot of Lower Arrow lake, Kootenay district, B.C. (Not McCormack.)

McCoy; head, St. John county, N.B. (Not McCoy's.)

McCoy; island, Brock group, St. Lawrence river, Leeds county, Ont. (Not Montgomery.)

J. S. McCoy was master of the "Champlain" on lake Champlain in Oct., 1815.

McCircrey; island, west of Berens island, lake Winnipeg, Man. (Not Outer Sturgeon.)

After W. F. McCrcrey, M.P. for Selkirk, Man.

McCulloch; brook, tributary to Middle river, Pictou county, N.S. (Not Bear.)
McDame; creek, tributary to Dease river, Cassiar district, B.C.
After miner.

McDonald; bay and point, 2 miles west of Brockville, Leeds county, Ont. (Not Donald, Mac-
Donald nor McDonald's.)
The point was granted by the Crown to Allen McDonald in 1797.

McDonald; creek, flowing into southern portion of Upper Arrow lake, Kootenay district, B.C.

McDonald; island, Admiralty group, St. Lawrence river, Leeds county, Ont. (Not Hog).

Macdonald; island, north shore of Hudson strait, N.W.T. (Not Egypt.)
After General Sir Hector Macdonald.

Macdonald; lake, Havelock township, Haliburton county, Ont. (Not Macdonald's.)

McDonald; lake, Haycock township, Kenora district, Ont.

McDonald; lake, north of Atlin, Cassiar district, B.C.

McDonald; mount, west of Esquimalt, Vancouver island, B.C.

Macdonald; mount, forming south wall of Rogers pass, Selkirk mountains, Kootenay district,
B.C. (Not Carroll.)
Named by order in council, 4th April, 1887, after the Rt. Hon. Sir John A. Macdonald.

Macdonald; range of mountains between Flathead and Wigwam rivers, Kootenay district, B.C.

McDonald's. See Prince Regent.

McDonald. See Prinyer.

McDougall; brook, tributary to Incomappleux river from west, Kootenay district, B.C. (Not
McDougall.)

McDougall; mount, Tp. 23, R. 8, W. 5 M., Rocky Mountains park, Alberta.
After Rev. George McDougall, missionary to Stoney Indians, and his sons, David and
Rev. John McDougall.

Macdougall; settlement, Westmorland county, N.B. (Not Macdougall nor Macdougall's.)
After a family.

Macdougall's. See Marion.

Mace; bay, Charlotte county, N.B. (Not Mace's.)
On Sproule's map, 1786; possibly after Benjamin Mace, surgeon in the 22nd regiment,
serving about that time in America.

McElhinney; shoal, north of Flowerpot island, 3½ miles east of Cove island, Bruce county, Ont.  
After late Capt. M. P. McElhinney, Department of Marine and Fisheries, Canada.

McEvoy; creek, tributary to Flathead river, east of Morrissey, Kootenay district, B.C. 

McEvoy; lake, draining through, Finlayson river into Frances lake, Yukon.
See McEvoy creek.

McEwen; lake, east of Kawaweogama lake, Thunder bay district, Ont.
After resident.

McFadden; lake, Mc Clintock township, Haliburton county, Ont. (Not McFadden's.)

McFarlane; river, emptying into south side of Athabaska lake, Sask. (Not Beaver.)

McGaw; point, east entrance to South bay, Manitoulin island, Manitoulin district, Ont.

McGillivray; creek, flowing into Anderson lake, also mountain and pass at head of creek,
Lillooet district, B.C. (Not McGillivray.)
After miner.

McGillivray; hamlet, McGillivray township, Middlesex county, Ont. (Not West McGillivray.)  
After Simon McGillivray, director of Canada Land Company.

McGillivray. See McGillivray.

McGinnis; creek, flowing into lake of the Woods, Spohn township, Rainy River district, Ont.  
(Not McInnis.)
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McGrath; mount, north of Iskut river, near confluence with Stikine river, Cassiar district, B.C.

McGregor; mountain, between East river and McLellan brook, Pictou county, N.S. (Not Weaver.)

McGregor; river, tributary to Fraser river, 60 miles above Fort George, Cariboo district, B.C. (Not North fork of Fraser.)

After Captain James Herrick McGregor, first president of the British Columbia Surveyors' Association; killed at Ypres, 25th April, 1915.

MacGregor; point, 7 miles southwest of Southampton, Bruce county, Ont.

After Capt. A. M. MacGregor, early settler.

McGregor; settlement, east shore of Kootenay lake, Kootenay district, B.C. (Not McGregor's.)

See McGregor river.

McGuire. See Maguire.

Machawaian; lake, chain of lakes draining into Albany river by Eabamet river, Patricia district, Ont.

Indian name meaning "old clothes laid aside."

McHugh; brook flowing into Dinorwig lake, Kenora district, Ont.

McInnes; hamlet, McGillivray township, Middlesex county, Ont. (Not McInness.)

After Thomas McInnes, sometime postmaster.

McInnis. See McGinnis.

MacIntosh; hamlet, Yonge township, Leeds county, Ont. (Not MacIntosh Mills.)

McIntosh; mount, northeast of Atlin, Cassiar district, B.C.

McIntyre; bay, lac Seul, Kenora district, Ont.

McIntyre; bay, south shore of lake Nipigon, Thunder Bay district, Ont.

McIntyre; creek, emptying into Thunder bay near Port Arthur, Thunder Bay district, Ont.

After the last of the Governors of the Hudson’s Bay Co. who lived at Fort William and whose daughter is still a resident (1916).

MacKay; settlement, Athabaska river, Alberta. (Not Fort MacKay.)

Founded and named, 1898, after D. M. W. MacKay, Hudson's Bay Co. officer.

McKay; lake, Gloucester township, Carleton county, Ont. (Not Hemlock.)

After Hon. Thos. McKay, owner of 1,000 acres in the vicinity and builder of Rideau Hall, 1837.

McKay; lake, south of Nanaimo river, Vancouver island, B.C.

After E. B. McKay, surveyor general of British Columbia, "the first to fish in it."

McKay; mount, southwest of Fort William, Thunder Bay district, Ont. (Not McKay's.)

So named in records of 1857; the agreement of partnership entered into in 1804 between the North West Company and the X. Y. Company, contains the signatures of William McKay and Alexander McKay.

McKay; reach, between Princess Royal and Gribbell islands, Coast district, B.C.

After Joseph William McKay, who was born at Rupert House, Hudson bay, 1829, and crossed over the Rocky mountains to Fort Vancouver, Columbia river, 1844; after 37 years in service of Hudson's Bay Co. he retired, 1879; he died at Victoria, 1900.

MacKay; river, flowing into Athabaska river at McKay, Alberta. (Not Red.)

Named, 1912, to replace duplicated name "red." See MacKay settlement.

McKay; rock, west of Smith point, Cockburn island, Manitoulin district, Ont.

After fisherman.

Mackay. See Mackey.

Mcke; creek, flowing into Atlin lake, north of O'Donnel river, Cassiar district, B.C.

After discover of first gold claim on creek.

McKellar; channel middle mouth of Kaministikwia river, Thunder Bay district, Ont.

After Peter, John and Daniel McKellar, brothers, who settled at Port Arthur, 1865.
McKellar; island, outermost island of chain lying northeast of Thompson island, Thunder Bay district, Ont.
    See McKellar channel.

McKellar; point, Crooks township, Thunder Bay district, Ont.
    See McKellar channel.

Mackenzie; bay and river, McGregor township, Thunder Bay district, Ont.
    See Mackenzie mount.

McKenzie; creek, rising in Brant county, and flowing into Grand river in Oneida township, Haldimand county, Ont. (Not Mackenzie.)

McKenzie; lake, Nightingale township, Haliburton county, Ont. (Not McKenzie's.)

Mackenzie; lake, south of National Transcontinental railway, 16 miles west of Windigo bay, lake Nipigon, Thunder Bay district, Ont.

Mackenzie; mount, southeast of Revelstoke, Kootenay district, B.C. (Not McKenzie.)
    After Hon. Alexander Mackenzie (1822-92), Premier of Canada, 1873-78.

Mackey; point, Sheen township, Pontiac county, Que. (Not Mackay.)
    After Lawrence Mackey, pioneer lumberman.

McKian; creek, flowing from northwest into Cooper creek, tributary to Duncan river, Kootenay district, B.C. (Not North fork of Cooper.)
    After settler.

McKim; bay, west shore of South bay, 1 ½ miles from South Baymouth, Manitoulin island, Manitoulin district, Ont. (Not McKimm.)
    After George McKim, settler.

McLaren. See McLaurin.

McLaughlin. See McLoughlin.

McLaurin; bay, Ottawa river, east of East Templeton, Ottawa county, Que. (Not McLaren.)
    After a storekeeper, East Templeton.

McLaurin; lake, north of Wabinosh lake, Thunder Bay district, Ont.

McLay; mount, east of Surprise river, Cassiar district, B.C.

McLean; cañon, below the Grand falls of Hamilton river, Ashuanipi and New Quebec territories, Que. (Not Bowdoin.)
    After John McLean, Hudson's Bay Co., who discovered the falls and cañon, 1829.

McLean; mountain, north of Seton lake, near Lillooet, Lillooet district, B.C.

McLean. See McLelan.

McLelan; rock, north of Smith rock, Fitzwilliam channel, entrance to Georgian bay, Manitoulin district, Ont.
    After Hon. A. W. McLelan, Minister of Marine and Fisheries, 1882-85.

McLelan; strait, near entrance to Hudson strait, New Quebec territory, Que. (Not McLean.)
    See McLelan rock.

McLellan; point, east entrance to East narrows, north shore of Moresby island, Coast district, B.C.
    After mining engineer.

McLennan; lake, Haycock township, Kenora district, Ont.

Macleod; lake, Tp. 51, R. 16, W. 3 M., Sask.

McLeod; mount, west of Dease lake, Cassiar district, B.C.
    After J. McLeod, chief factor, Hudson's Bay Co.

McLeod; river, tributary to Athabaska river, Alberta.

Macleod; town, southern Alberta. (Not Fort Macleod.)
    After Lt.-Col. Macleod, at one time assistant commissioner of the R.N.W. Mounted Police.

McLeod. See Skinner.
McLoughlin; bay, east coast of Campbell island, Lama passage, Coast district; also point,
  Victoria harbour, Vancouver island, B.C. (Not M'Loughlin, Maclaughlin nor McLoughlin.)
  After Dr. John McLoughlin, (1784-1857) native of Rivière-du-Loup, Quebec, noted
  Hudson's Bay Co. officer, appointed, 1823, to take charge of the Columbia department.

Maclure; lake, east of Bulkley river, opposite mouth of Telkwa river, Coast district, B.C.
  (Not Tyee nor Long.)

McMahon; island, south of Grenadier island, St. Lawrence river, Leeds county, Ont. (Not
  Shanttee nor Shanty.)
  On Capt. W. F. Owen's chart, 1818.

McMaster; lake, Jones township, Renfrew county, Ont. (Not McMaster's.)
  After a lumber camp foreman.

McMaster; mount, east of O'Donnel river, Cassiar district, B.C.

Macmillan; mountains and river, tributary to Pelly river, Yukon.
  Named by Robert Campbell after chief factor, Hudson's Bay Co.

McMillan. See Balache.

McMullen. See Carnarvon.

McMurray; Hudson's Bay Co. post and settlement, Athabaska river, Alberta. (Not Fort
  McMurray.)

McNab; point, between Southampton and Port Elgin, Bruce county, Ont.
  After resident, Southampton.

McNair; island, north of Murray island, St. Lawrence river, below Brockville, Leeds county,
  Ont.
  After Col. McNair commanding the 90th Regiment, 1812-14.

McNeil; mount, between Watson and Wheaton rivers, southern Yukon.
  After Hector McNeil, prospector.

McNevin; lake, Murchison township, Nipissing district, Ont. (Not McNiven.)

McNicoll; mount, west side of Beaver river, between mountain and Alber creeks, Selkirk
  mountains, Kootenay district, B.C.
  After David McNicoll (1852-1910), 1st vice-president, Canadian Pacific Ry.

McNiven. See McNevin.

McNutt; island, Shelburne harbour, Shelburne county, N.S. (Not McNutt's.)
  After Col. McNutt, resident on the island during the American war of Independence,
  who was interested in the settlement of Truro, Onslow and Londonderry townships.

Macobe. See Makobe.

Macoming. See Chiblow.

Macoostigan. See Makustigan.

Macoun; mount, southeastern portion of Tp. 26, R. 25, W. 5 M., Selkirk mountains, Kootenay
  district, B.C.
  After Prof. John Macoun, botanist and naturalist, Geological Survey, Canada.

McPhee; bay, two miles north of Strawberry island, Mara township, Ontario county, Ont.
  After William McPhee, saw mill owner and shipbuilder on the bay.

McPherson; lake, north of Frances lake, Yukon.

Macpherson; mount, southwest of Revelstoke, Kootenay district, B.C.
  After late Sir David Macpherson, Minister of Interior of Canada, 1883-85.

Macpherson; point, south entrance to baie du Doré, Bruce county, Ont. (Not McPherson.)
  After resident, Kincardine.

Macquereau. See Maquereau.

McQuesten; river, tributary to Stewart river, Yukon. (Not McQuestion.)
  After Jack McQuesten, trader, known from his generosity as "father of the Yukon,"
  which he first visited about 1873.
McRae; point, 6½ miles north of Kincardine, Bruce county, Ont.

McReynolds; hamlet, Oxford township, Grenville county, Ont. (Not McReynold's Corners.)

Mad; reef, 1 mile north of Lyal Island light, Stokes bay, Bruce county, Ont.

Madawaska; river, tributary to Ottawa river, Renfrew county, Ont.

Indian name meaning "having its outlet among reeds."

Madawaska; village, Murchison township, Nipissing district, Ont.

See Madawaska river.

Madge; lake, Tps. 30 and 31, R. 30, W.P.M., Sask. (Not Clear Water.)

Madendenada. See Tendinenda.

Maduxnekeag. See Meduxnekeag.

Maganasibi; river, tributary to Ottawa river, below Mattawa, Timiskaming county, Que. (Not Maganacipi nor Maganasipi.)

Indian name meaning "wolf river."

Maganatawan; hamlet and river, Parry Sound district, Ont. (Not Magnetawan nor Maganatawan.)

Indian name meaning "a long channel."

Maggie; lake, Finlayson township, Algonquin National park, Nipissing district, Ont. (Not Maggie's.)

Magnet; channel, island and point, southeast of entrance to Black bay, Thunder Bay district Ont.

Magnetawan. See Maganatawan.

Magnetic; island and reef, southeast of Cockburn island, Manitoulin district, Ont.

Magnetic; lake, west of Gunflint lake, international boundary, Thunder Bay district, Ont.

Magog; lake, Magog river, Sherbrooke and Stanstead counties, Que. (Not Little Magog.)

Indian name meaning "little sheet of water."

Magus; lake, Mack township, Algoma district, Ont.

Indian name meaning "little sheet of water."

Maguasha; point and village, Nouvelle township, Bonaventure county, Que. (Not Goacha, Maguacha, Migoacha nor Miguasha.)

Maguire; mount, east of Sooke inlet, Vancouver island, B.C. (Not McGuire.)

After Lieutenant Rochfort Maguire, H.M. surveying vessel "Herald," on Pacific station 1845-51; died 1867.

Magusi; river, flowing into Duparquet lake in Hébecourt township, Timiskaming county Quebec. (Not Agowekami, Asipimocasi nor Isabemagussi.)

Indian name meaning "feast."

Mahogany. See Manawagonish.

Mahmee. See Mami.

Maiden; island, 4½ miles west of South Baymouth, Manitoulin island, Manitoulin district, Ont

Maiden; island, south shore of Hudson strait, N.W.T. (Not Maiden Paps.)

Maikasagi; river and lake, emptying into Gull lake, Waswanipi river, Abitibi territory, Que. (Not Maikaskasagi nor Middle Gull.)

Mailloux; river, flowing into the St. Lawrence at Murray bay, Charlevoix county, Que.

Main; channel, between Cove island and Bad Neighbour rock, entrance to Georgian bay from Lake Huron, Bruce county, Ont.

Descriptive.

Mainadieu; bay, lightstation, passage, and post office, Cape Breton county, N.S. (Not Main à Dieu, Main-à-dieu nor Menadou.)

Probably a corruption of the early French name, Menadou.
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Maisonnette; point and village, at north entrance to Caraquet harbour, Gloucester county, N.B. (Not Caraquet, Mezonet, Mizonette, nor Mizennette.) On map by Sieur l’Hermite, 1724.

Maitland; island, Douglas Channel, north of Hawkesbury island, Coast district, B.C. After H. Maitland Kersey, assistant on hydrographic survey, 1898.

Maitland; river, emptying into lake Huron at Goderich, Huron county, Ont. After Sir Peregrine Maitland, Lieut.-Gov. of Upper Canada, 1820-28; the Indian name of the river was Menesatung, meaning “healingwaters,” which name is now borne by a park at Goderich.

Maitland. See Port Maitland.

Makamik; lake, Royal-Roussillon township, Timiskaming county, Que. (Not Mekamic.) Algonquin Indian name meaning “big beaver.”

Makobe; lake, Trethewey township, Timiskaming district, Ont. (Not Big Bear nor Macobe.)

Makokibatan; lake, Albany river, Patricia and Thunder Bay districts, Ont.

Makustigan; lake, draining through Wetetégami lake and river into Waswanipi river. Pontiac county, Que. (Not Macoostigan.)

Makwa; lake and river, tributary to Beaver river from the southwest, Sask. (Not Loon.) Indian name meaning “loon.”

Malahtah; ridge, west of Saanich inlet, Vancouver island, B.C. (Not Beddingfield.)

Malaspina’s. See Galiano.

Malbaie (rivière); river, tributary to the St. Lawrence, Charlevoix county, Que. (Not Malbay.) English usage: Murray river. See Malbaie village.

Malbaie; village, Charlevoix county, Que. (Not Mal Bay, Malbay, nor Malbaye.) English usage: Murray Bay.

Maloney; mount, Nisling river, Yukon. After resident, Kincardine.

Malcolm; reef, innermost of three reefs west of Port Elgin, Bruce county, Ont.

Maliobe; river, flowing across international boundary into Arctic ocean, Yukon.

Malpeque; bay, Prince county, P.E.I. (Not Richmond.) Micmac Indian name meaning “it appears very large.”

Mamakwash; lake, at headwaters of Berens river, Patricia district, Ont. (Not Fairy.)

Mameigwess; lake, discharging through Fishbasket river into Winisk lake and river, Patricia district, Ont.

Mamie; creek, tributary to Belly river, Alberta. (Not Buffalo, Fish, nor Mahmee.)

Mamozekel; river, tributary to Tobique river, Northumberland and Victoria counties, N.B. (Not Mamokezel nor Momozekel.) Probably an Indian name meaning “red berries.”

Manasen; river, flowing from Osipwagan lake into Burntwood river, Man. (Not Munosahn.) Indian name meaning “shell.”

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Manawaganish; island, St. John harbour, St. John county, N.B. (Not Mahogany, Manawaganish nor Meogenes.)
Indian name meaning "place for clams."

Manawin; lake, Churchill river, above Reindeer river, Sask.
Indian name meaning "place where they gather eggs."

Mance; lake, La Sarre township, Timiskaming county, Que. (Not Mud.)
After Mlle. Mance, foundress of l'Hotel-Dieu of Montreal.

Manitoulin; village, Plympton township, Lambton county, Ont. (Not Mandamin.)
Indian name meaning "corn."

Mang; lake, south east of Manitou lake, southern portion of Kenora district, Ont. (Not Loon.)
Indian name meaning "loon."

Manganese; mountain, east of Ice river, Rocky mountains, Kootenay district, B.C.

Manicouagan. See Manikuanagan.

Manicuagan. See Manikuagan.

Manigotagan; lake and river, flowing into lake Winnipeg from southeast, Man. (Not Bad Throat, Muskrat nor Rat Portage.)
Indian name meaning "bad throat."

Manikuagan; point and river, Saguenay county, Que. (Not Manicouagan nor Manicuagan.)
Indian name meaning "drinking place."

Manito; lake, south of Battle river, Sask.
Indian name meaning "spirit."

Manitoba; lake, Man.
Indian name meaning "strait of the spirit," first applied to the narrows of the lake; the Indian belief is explainable by the fact that on stormy days a roaring sound is produced by the waves dashes pebbles against the limestone beach of an island in the strait.

Manitoba; ledge, off west side of Yeo island, entrance to Georgian bay, Manitoulin district, Ont.

After steamer "Manitoba" wrecked on it.

Manitou; reef, north of Great Duck island, Manitoulin district, Ont.

Manitou; creek, flowing into Michael bay, Tehkummaah township, Manitoulin island, Manitoulin district, Ont.
Indian name meaning "spirit."

Manitou; rapids, Rainy river, international boundary, Rainy River district, Ont.
See Manitou creek.

Manitou. See Silver.

Manitoulin; island, lake Huron, Manitoulin district, Ont. (Not Grand Manitoulin.)
According to Indian tradition it is the dwelling place of both the good spirit, "gitchi-manito," and of "matchi-manito," the evil spirit.

Manitoulin. See South.

Manitounuk; sound, north of Great Whale river, New Quebec territory, Que. (Not Manitounuck.)
Eskimo name meaning "rough ice."

Manitouaning; bay and village, Manitoulin island, Ont. (Not Manitouaning.)
Indian name meaning "home of the Great Spirit."

Manitumeig; lake, west of Anzhekumming lake, Kenora district, Ont.
Indian name meaning "devilish."

Manitush; lake, discharging into Marten-drinking river, tributary to Attawapiskat lake, Patricia district, Ont.
Indian name meaning "leech."

Mann; island, entrance to Key harbour, Georgian bay, Parry Sound district, Ont.
After Sir Donald D. Mann, vice-president, Canadian Northern Ry.
Mann; island, upper part of lake Timiskaming, Que.
   After John Mann, Ville Marie.

Manomin; lake, west of Vermilion bay, Eagle lake, Kenora district, Ont. (Not Unaminnikan.)
   Indian name meaning "wild rice."

Manouan. See Manuan.

Manquart. See Monquart.

Manseau; parish, Nicolet county, Que.
   After first parish priest.

Mansel; island, Hudson bay, N.W.T. (Not Mansfield.)
   Named by Button, 1613, after Vice-Admiral Sir Robert Mansel (1573-1653).

Mansfield; creek, tributary to Tatshenshini river, above Parton river, Cassiar district, B.C. (Not Bear.)
   After member of B.C.-Yukon boundary survey party, 1908.

Mansfield. See Mansel.

Mantagao; river, flowing into Sturgeon bay, lake Winnipeg, Man.

Manuan; lake and river, flowing into St. Maurice river in Dessane township, Champlain county, Que. (Not Manouan.)
   Indian name meaning "where they gather eggs."

Manumina. See Paint.

Many Island; lake, east of Medicine Hat, Alberta and Sask.
   Translation of Indian name.

Maple; bay and mountain, Sansum narrows, Stuart channel, Vancouver island, B.C.

Maple; creek, flowing into Bigstick lake, southwestern Sask.
   Descriptive.

Maple; island, St. Lawrence river, Soulanges county, Que. (Not D’Alogny nor Thorn.)

Maple; point, northeast point of Gil island, Coast district, B.C.

Maple. See Goosechunting.

Maple Creek; town, southwestern Sask.
   See Maple creek.

Maple Glen; village, Northumberland county, N.B. (Not Protectionville.)

Maplegrove; hamlet, London township, Middlesex county, Ont. (Not Maple Grove.)
   Descriptive.

Maquereau; point, intercounty boundary, Gaspe and Bonaventure counties, Que. (Not Maquereau.)
   Tradition says a vessel of this name was wrecked on the point.

Mara; lake, east of Salmon arm of Shuswap lake, Kamloops district, B.C. (Not Mara arm of Shuswap.)
   After J. A. Mara, pioneer merchant of Kamloops, sometime speaker of British Columbia Legislative Assembly

Marble; cañon, a very narrow deep pass through the range of mountains between Bonaparte and Fraser rivers, Lilooet district, B.C.
   Descriptive.

Marble Dome; a mountain, south of Gladys lake, Cassiar district, B.C. (Not Brown Dome.)

Margaree; village, Inverness county, N.S. (Not Margaree Harbour.)
   Corruption of Marguerite.

   After daughter of Rev. H. P. Nichols, Holy Trinity Church, New York.

Margaret; lake, headwaters of Wenasaga river, tributary to lac Seul, Patricia district, Ont. (Not Kakinookama.)

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Margaretville; village, bay of Fundy, Annapolis county, N.S. (Not Margaretsville.)

Marguerite; bay, point and river, Saguenay county, Que. (Not Ste. Marguerite.)

Maria; lake, Cottonwood river, Dease river, Cassiar district, B.C.

Marine; lake, Nipigon river, above lake Jessie, Purdom township, Thunder Bay district, Ont.

Marievalle; village, Rouville county, Que.

Marjorie; island, west of Cortes island, Sutil channel, Coast district, B.C. (Not Mary.)

Marion; lake, northern face of Mount Abbott, west of Glacier railway station, Kootenay district, B.C.

Named by Rev. W. S. Green, 1888, after her daughter.

Marion; mount, northwest of Kootenay lake, Kootenay district, B.C.

Marion; point, about 1 mile west of Dorval, Jacques Cartier county, Que. (Not Macdougall's.)

Marion. See Allan.

Marjorie; island, westward of Sandys point, St. Peter inlet, Richmond county, N.S. (Not Gooseberry.)

Named about 1884 after Miss Marjorie Campbell, daughter of Sir Alexander Campbell.

Mark; creek, tributary to St. Mary river, Kootenay district, B.C.

Biblical.

Mark; lake, northeast of Pettypiece township, Kenora district, Ont.

Markham; bay, Hudson strait, N.W.T.

After Sir Clements R. Markham and Admiral Sir Albert Markham, Arctic explorers.

Marksville. See Hilton.

Marmen; rock, east side of Brandypot channel, St. Lawrence river, Kamouraska county, Que.

Marmot; mountain, Tp. 32, R. 18, W. 5 M., Rocky mountains, Alberta.

Marpole; mount, President range, also lake, headwaters of Yoho river, Kootenay district, B.C.

After R. Marpole, general superintendent, Canadian Pacific Ry.

Marsh; lake, upper Lewes river, Yukon.

Named by Schwatka, 1883, after Prof. O. C. Marsh, palaeontologist; professor at Yale University, 1896-99.

Marshall; lake, near height-of-land, northeast of Humboldt bay, lake Nipigon, Thunder Bay district, Ont.

Marshall; ridge, lake and creek, emptying into Bridge river, Lillooet district, B.C. (Not Alexander.)

After John Marshall, early settler at Lillooet.

Marshall Cove. See Port Lorne.

Mars Hill; settlement, Carleton county, N.B. (Not Mar's Hill.)

Martel; hamlet, Cambridge township, Russell county, Ont. (Not Martel Corners.)

After F. Martel, first postmaster.

Martel Corners. See Martel.

Marten; creek, branch of Leach creek, tributary to Michel creek, Elk river, Kootenay district, B.C. (Not Martin.)

Marten; mountain, northeast of Lesser Slave lake, Alberta.

After man of this name.

Marten; river, tributary to Rupert river, Mistassini territory, Que.
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Marten-drinking; river, emptying into Attawapiskat lake, Patricia district, Ont.

Martimoki; lake, long. 65° 30’, lat. 51° 05’, Saguenay county, Que. (Not Martimokinipau.)

Martin; head, St. John county, N.B. (Not Martin's nor St. Martin.)

Martin; lake, east of entrance of English river into lac Seul, Kenora district, Ont.

Martin; lake, southeast of Humboldt bay, lake Nipigon and draining into Onaman river, Thunder Bay district, Ont.

Martineau; bay, Lorrain township, Timiskaming district, Ont. After settler.

Martineau; river, flowing from Primrose lake into Cold lake, Alberta and Sask. After A. Martineau, Hudson's Bay Co. manager at Cold lake.

Martini; island, west of Moore point, south coast of Digby island, Coast district, B.C. After inventor of the Martini-Henry rifle.

Martin River. See Rivière-a-la-martre.

Martins; valley, east of Chancellor peak, Rocky mountains, Kootenay district, B.C.

Martre (rivière à la); river, Christie township, Gaspe county, Que. (Not Martin.) Descriptive French name meaning "martin."

Mary; harbour and island, McGregor township, Thunder Bay district, Ont.

Mary; point, opposite north end of Gribbell island, Coast district, B.C. Named by officers of H.M.S. "Devastation" and "Boxer."

Mary; shoal, innermost of three, south of Great Duck island, Manitoulin district, Ont. After daughter of John Bain, fishing company agent, Duck islands.

Mary. See Marina.

Marysville. See Wolfe Island.

Mary Vaux; mount, south of southeast of end Maligne lake, west of mount Warren, Rocky mountains, Alberta. After Miss Mary Vaux of Philadelphia.

Mascabin; point, north entrance to Passamaquoddy bay, Charlotte county, N.B. (Not Mascarin.) Probably a misprint on early maps for Mascareen, which see.

Mascareen; peninsula and village, Charlotte county, N.B. (Not Masearene nor Mascarren. After John Mascareen who received a grant of ten thousand acres of land from the Crown in 1677.

Mascarin. See Mascabin.

Mashamengoose. See Mitchinamekus.

Masinabik; lake, 18 miles east of entrance to Pijitawabik bay, lake Nipigon, Thunder Bay district, Ont. (Not Masinabikaigan.) Indian name meaning "marked rock."

Maskeig; lake, situated north of lac Clair and draining into Vermilion river, St. Maurice county Que.

Maskwa; hill, Tp. 46, R. 22, W. 3 M., Sask. Indian name meaning "bear."

Maskwa; river, flowing into Winnipeg river in Tp. 18, R. 10 E.P.M., Man. (Not Bear.) See Maskwa hill.

Maspeck. See Mispeck.

Massanoga. See Mazinaw.

Massasauga; point, north point of Ameliasburg township, Prince Edward county, Ont. The site of an Indian village.
Masstown; lightstation and settlement, Cobequid bay, Colchester county, N.S. (Not Debert nor Mass Town.)
Descriptive.
Matabechawan. See Matabitchuan.
Matabitchuan; river, flowing into lake Timiskaming below Montreal river, Timiskaming district, Ont. (Not Matabechawan nor Matabitchouan.)
Matagaming. See Horwood.
Matamek; lake and river, emptying into head of Moisie bay, Saguenay county, Que. (Not Trout nor Petite.)
Matamik. See Lois.
Matapedia; lake, river and village, Matane and Bonaventure counties, Que. (Not Metapedia.)
Indian name meaning "branching river."
Matashi; river, headwaters of Gatineau river, Berthier county, Que.
Matawa. See Mattawin.
Matawa. See Shamattawa.
Matawin. See Mattawin.
Matchitnanito; lake, headwaters of Bell river, Pontiac county, Que.
Indian name meaning "bad spirit."
Matheson; island, west of north entrance to narrows of lake Winnipeg, Man. (Not St. Johns.)
After D. Matheson, lightkeeper, Black Bear island.
Matheson; mount, east side of Bennett lake, about 5 miles east of Dundalk railway station, Yukon.
Matheson; mount and lake, north of Becher bay, south coast of Vancouver island, B.C.
Matilda; lake, Redditt township, Kenora district, Ont.
Matinatinda. See Tendinenda.
Matsatu; river, tributary to Dudidontu river, Cassiar district, B.C.
Mattagami; lake, Abitibi territory, Que.
Indian name meaning "where the waters meet."
Mattagami; lake and river, flowing from Minisinakwa lake into Moose river, Sudbury and Timiskaming districts, Ont. (Not South branch of Moose.)
See Mattagami lake.
Mattagami. See Allard.
Mattagami. See Horwood.
Mattawagosik. See Dasserat.
Mattawin; river, tributary to St. Maurice river, Joliette, Berthier, Maskinonge, St. Maurice and Champlain counties, Que. (Not Matawa nor Mattawin.)
Algonquin Indian name meaning "confluence".
Matthew; creek, tributary to St. Mary river, Kootenay district, B.C.
Biblical.
Matthews; point, Active pass, strait of Georgia, New Westminster district, B.C.
After resident at Mary Anne point.
Mattice; lake, south of National Transcontinental railway, 11 miles northwest of Wabinosh lake, Thunder Bay district, Ont.
After an engineer, National Transcontinental Ry.
Matuskau; river, emptying into Moar bay, James bay New Quebec territory, Que. (Not Poplar). Indian name meaning "big poplar."
Mauger; beach, entrance to Halifax harbour, Halifax county, N.S. (Not Meagher.)
After Joshua Mauger to whom the beach was originally granted; name pronounced with the "g" soft.
Maunoir; butte, south of confluence of Teslin and Lewes rivers, Yukon.
After M. Charles Maunoir of the Paris Geographical Society.

Maurelle; island, between Vancouver island and the mainland, Coast district, B.C. The eastern portion of former Valdes island.
After Francisco Antonio Maurelle, Spanish naval officer on the coast, 1775.

Maus; creek, east of Kootenay river, south of Steele, Kootenay district, B.C. (Not Mouse.)

Maxwell; mount, Salt Spring island, southeast coast of Vancouver island, B.C. (Not Baynes.)

Maybank; hamlet, Huntingdon county, Que. (Not May Bank.)

Maybee. See Mabee.

Mayes; point, north point of Read island, Sutii channel, Coast district, B.C. (Not Mayor.)
After William Mayes, muster, R.N., superintendent of compasses, Hydrographic Department, Admiralty; died 1904.

Mayflower; island, 4 miles east of South Bayfield, Manitoulin island, Manitoulin district, Ont. After yacht "Mayflower."

Maynard; lake, English river, above entrance of Wabigoon river, northern boundary of Kenora district, Ont. (Not Maynard's.)
After William Maynard, assistant in 1873 to Dr. R. Bell, Geological Survey.

Mayne; island, strait of Georgia, B.C.
After Lieutenant (later Rear Admiral) Richard Charles Mayne, employed on survey work 1857-1861, and author of "Four Years in British Columbia and Vancouver Island; died 1892.

Mayo; lake and brook, tributary to Stewart river, Yukon.
After A. Mayo, trader, 1873 onwards.

Mayor. See Mayes.

Mazinaw; lake, Lennox and Addington and Frontenac counties, Ont.
(Not Massanoga.)
Algonquin Indian name meaning "picture."

Mazokama. See Kama.

Meacham; creek, tributary to St. Mary river, Kootenay district, B.C. (Not Caribou nor Whitefish.)
After settler.

Meadow; creek, tributary to Duncan river from west, below Larderau river, Kootenay district, B.C.
Meadow; lake and creek, flowing into Beaver river in Tp. 61, R. 15, W. 3 M., Sask.
On David Thompson's map, 1813.

Meadow; mountain, west of Meadow creek, head of Kootenay lake, Kootenay district, B.C.

Meadow. See Linklater.

Meagher. See Mauger.

Meander; brook, flowing into Eagle lake, from the south, Kenora district, Ont.
Descriptive.

Mecatina. See Mekatina.

Medicine; lake, Maligne river, Jasper park, Alberta.
Medicine; river, tributary to Red Deer river, west of Medicine-lodge hills, Alberta.
See Medicine-lodge hills.

Medicine-lodge; hills, Tp. 40, R. 2, W. 5 M., Alberta. (Not Medicine Lodge.)
From the hills being a favourite site among the Indians for their spring festivals.

Medicine Lodge. See Lodge.

Medicine-stone; lake, south of Red lake, northwest of lac Seul, Patricia district, Ont. (Not Medicine Stone.)
From a large boulder.
Meduxnekeag; river, tributary to St. John river, Carleton county, N.B. (Not Maduxnakeag nor Meduxnakeg.)

Maliseet Indian name meaning “rough (or rocky) at its mouth.”

Medway; river, tributary to North branch of Thames river, Middlesex county, Ont. (Not Arva creek.)

After Medway, river, England.

Medway; river, Queens county, N.S. (Not Port Medway.)

After Medway, river, England.

Medway; seaport town, Queens county, N.S. (Not Port Medway nor Port Metway.)

See Medway river.

Meehin; brook, flowing into Minas channel, Kings county, N.S. (Not Meehins.)

Meeting; lake, Tps. 48 and 49, R. 12, W. 3 M., Sask.

Two survey parties met at this lake in 1883.

Megantic; county, lake and village, Que. (Not Lake Megantic village.)

Indian name meaning “where they preserve fish.”

Meggisi; brook, tributary to Winisk river, below Tabasokwia river, Patricia district, Ont.

Indian name meaning “bald eagle.”

Meggisi; lake, east of Manitou lake, southern portion of Kenora district, Ont. (Not Small Trout.)

See Meggisi brook.

Mepiskun. See Migiskan.

Meholland. See Mulholland.

Meholland. See Mulholland.

Meigs; hamlet, Missisquoi county, Que. (Not Meig’s Corners.)

After early settler named Meigs.

Meigs Corners. See Meigs.

Meisner; point, east side of Mahone bay, Lunenburg county, N.S. (Not Meisener nor Misener.)

After Jeffrey Meisner, postmaster.

Mejomanguse. See Mitchinamekus.

Mekanic. See Makamik.

Mekattina; cape, islands and river, Saguenay county, Que. (Not Mecatina, nor Little Mecattina.)

Indian name. Father Lemoine gives as the meaning “where there is a large mountain.”

Mekinac; lake, river, and township, Champlain county, Que.

Indian name meaning “turtle.”

Mekiscan. See Migiskan.

Mekiscan. See Migiskan.

Mekisin. See Makamik.

Mekattina; cape, islands and river, Saguenay county, Que. (Not Mecatina, nor Little Mecattina.)

Indian name. Father Lemoine gives as the meaning “where there is a large mountain.”

Mekinac; lake, river, and township, Champlain county, Que.

Indian name meaning “turtle.”

Mekiscan. See Migiskan.

Meldrum; point, northwest point of Manitoulin island, Manitoulin district, Ont. (Not Mildram nor Mildrum.)

Meldrum on Bayfield’s original charts.

Melford; settlement and creek, flowing into Carrot river in Tp. 42, R. 18, W. 2 M., Sask. (Not Stony.)

Named by Mrs Reginald Beatty, the first woman settler; she was one of the Campbells of Melford, Argyllshire, Scotland.

Melon; lake, middle one of three small lakes west of Knife lake, international boundary, Rainy River district, Ont.

Melville; arm, north shore of Prince Rupert harbour, Coast district, B.C. (Not Douglas.)

See Hays.

Melville; island, Admiralty group, St. Lawrence river, Leeds county, Ont. (Not Hay.)

Melville; lake, expansion of Hamilton inlet, Ashuanipi territory, Que. (Not Groswater bay.)

Melville; point, 4 miles southeast of Portage point, Manitoulin island, Manitoulin district, Ont.
Melville; shoal, St. Lawrence river, east of northeast end of Amherst island, Frontenac county, Ont. (Not Seven Acre.)

After brig "Melville", which struck on this shoal, 1813.

Menadou. See Mainadien.

Menan. See Grand Manan.

Ménard; river, tributary to Wawagosik river, Abitibi territory, Que. After parish priest, Abitibi.

Mendenhall; river, tributary to Takhini river, Lewes river, Yukon.

Menesatung; park, Goderich, Huron county, Ont. (Not Seven Acre.)

Indian name meaning "healing waters."

Meteghan. See Meteghan.

Meteghan Station; post office, Digby county, N.S. (Not Metaghan.) See Meteghan.

Medford; island, entrance to Delusion bay, southeast coast of Digby island, Coast district, B.C. After inventor of Lee-Metford rifle.
Methuen; reef, opposite Misery point, 5 miles east of Walkhouse point, Manitoulin island, Manitoulin district, Ont.

After General Lord Methuen.

Methy; lake, north of Reed lake, Grass river, Man. (Not Long.)

Methye; lake, portage and river, headwaters of Churchill river, Sask. (Not La Loche nor Methy.)

After the fish.

Metis; lake, Rimouski and Matane counties, and river, point, and village, Matane county, Que. (Not Mitis nor Great Metis.)

Metiscan. See Migiskan.

Mettelakatla; bay and village, Chatham sound, Coast district, B.C. (Not Melta Catla, Metla Catlah, Metlah Catlah, Metla-Kathla, Methlakahtla, nor Metla-Katla.)

Indian name meaning “a passage between two bodies of salt water.”

Meule (pointe à la); point, with 2 range lights thereon, west shore of Richelieu river, St. John’s county, Que. (Not North of Halfway nor Mule.)

Mezouet. See Maisonneette.

Miatikush; river, emptying into James bay, 9 miles south of Eastmain river, Mistassini territory, Que. (Not Sheep nor Eskowkonikow).

Indian name meaning “sheep.”

Michael; bay and point, 9 miles southeast of Providence point, Manitoulin island, Manitoulin district, Ont.

Michael; lake, north of Ladysmith harbour, Vancouver island, B.C.

Michael; peak of The Vice President, west of Yoho river, Rocky mountains, Kootenay district, B.C. (Not Michael's.)

After Prof. A. Michael, Boston, Mass.

Michaud; creek, flowing into west side of Lower Arrow lake, Kootenay district, B.C.

Michel; creek, tributary to Elk river from east, Kootenay district, B.C.

See Phillipps; creek.

Michepasque. See Mispek.

Michie; mount, east of lake Marsh, southern Yukon.

Named by Schwatka after Prof. Michie of West Point, N.Y.

Michagama. See Kitchigama.

Michikamog; lake, northwest of Attawapiskat lake, Patricia district, Ont. (Not Mijigamog.)

Michikeniis; river, tributary to Winisk river, east of Wunnummin lake, Patricia district, Ont.

Indian name meaning “little fish.”

Michikenenik; brook, rising near height-of-land, southwest of Winisk lake, into which it drains, Patricia district, Ont.

Indian name meaning “stone.”

Michipicoten; harbour, river and village, lake Superior, Algoma district, Ont. (Not Michipicoton.)

Indian name meaning “place of bold promontories.”

Michipicoten; island, lake Superior, Thunder Bay district, Ont.

See Michipicoten harbour.

Michiwiwenda; lake, Churchill township, Sudbury district, Ont. (Not Lower Okawukenda nor Michikawenda.)

Middle; mountain, east of Stikine river, below Porcupine creek, Cassiar district, B.C.

Middle; river, Pictou county, N.S.

Descriptive.

Middle branch of Highwood. See Pekisko.

Middle branch of West. See Dalesville.
Middlebrun; bay, island and channel (western) to Black bay, lake Superior, Thunder Bay district, Ont.

Middle Caledonia. See Caledonia.

Middle Duck; island, south of Inner Duck island, Duck group, off south side, west end of Manitoulin island, Manitoulin district. Ont.

Middle Fork of Findlay. See Doctor.

Middle Fork of Gold. See Caven.

Middle Fork of Spillimacheen. See Bobbie Burns.

Middle Gull. See Maikasagi.

Middle Savage; islands, Hudson strait, N.W.T. (Not Eastern islands of God's Mercie.) See Lower Savage.

Middleton; island, mouth of Broadback river, N.W.T.

Middleton; mount, southeast of lake Evans, Abitibi territory, Que.

Middletons. See Reesor.

Midjik; point, east side of Passamaquoddy bay, Charlotte county, N.B. (Not Midgic, Midjic nor Mijic.)

Midnight; lake, Tp. 52, R. 16, W. 3 M., Sask.

Midway; mining town, Similkameen district, B.C.

Midway; mine, between Penticton and the, then, nearest point of railway communication, Marcus, U.S.

Miette (roche); a mountain, northeast of foot of Jasper lake, Jasper park, Alberta. (Not Millet not Myette.)

Migeclerc. See Maguasha.

Miguasha. See Maguasha.

Mijic. See Midjik.

Mitigamog. See Michikamog.

Mikwa; river, tributary to Peace river, below Wabiskaw river, Alberta. (Not Red.)

Mikwasach; lake, Chibougamau river, below Omemiska lake, Abitibi territory, Que. (Not Wikwasash.)

Miletta; settlement, south of Orford mountain, Stanstead county, Que.

Mile; island, Brock group, St. Lawrence river, Leeds county, Ont. (Not Huckleberry.)

Mile. See Victoria.

Miles; cañon, Lewes river, above Whitehorse, Yukon.

Miles; point, north of Descanso bay, Gabriola island, strait of Georgia, B.C. (Not Schooner.)

Milleta; settlement, south of Orford mountain, Stanstead county, Que.

Milk; river, Alberta and Montana.

Milk; creek, tributary to Castle river in Tp. 6, R. 1, W. 5 M., Alberta.

Mill. See Galt.

Millar; settlement, Oxford township, Grenville county, Ont. (Not Millar's Corners.)

Millers. See Riall.
Millar's Corners. See Millar.

Miller; lake, northwest of Rowell township, Kenora district, Ont.

Miller; mount, west of Lewes river, below mount Monson, Yukon.

After C. J. Miller, prospector.

Miller; point, west entrance point to Robinson cove, Big island, bay of Quinte, Prince Edward county, Ont. (Not Miller's.)

Miller; point, southeast coast of Digby island, Coast district, B.C.

After J. A. Miller, levelman, Grand Trunk Pacific Ry.

Mille-Roches; village, Cornwall township, Stormont county, Ont. Named by French voyageurs from the numerous "rocks" in the river.

Millet. See Miette.

Mille-Vaches; bay, point and river, flowing into the St. Lawrence, about 33 miles below Tadoussac, Saguenay county, Que. (Not Saut de Mouton.)

French translation of the Indian name meaning "place where there are sea cows."

Millie; lake, Migiskan river, Pontiac county, Que.

Milliken; village, Markham township, York county, Ont. (Not Millikens.)

After Milliken family, of whom Norman Milliken was first postmaster.

Millstream; river, flowing into Nipisiguit bay, Gloucester county, N.B. (Not Little Nipisiguit nor Nipisiguit Millstream.)

Descriptive.

Milton; bank, 5½ miles south southeast of Lyal Island light, Stokes bay, Bruce county, Ont. After tug "Joe Milton."

Milton; hamlet, Milton township, Shefford county, Que. (Not Milton East.)

After the township which was erected in 1803.

Milton; island, north of Knapp point, Wolfe island, St. Lawrence river, Frontenac county, Ont. (Not Amazon.)

Milton; mount, east of Lewes river, below Nondenskiold river, Yukon.


Milton; point, 4½ miles northwest of Providence point, Manitoulin island, Manitoulin district, Ont.

See Milton bank.

Milton; town, Trafalgar township, Halton county, Ont. (Not Milton West.)

After John Milton, poet (1608-1674); previous to 1837 or '38 known as Milltown, after Martin Mills, early settler.

Miltonbrae; hamlet, Gloucester county, N.B. (Not Milton Brae.)

Milton East. See Milton.

Milton West. See Milton.

Miminegash; river and village, Prince county, Prince Edward Island. (Not Big nor North Miminegash nor Miminegash.)

Indian name meaning "portage place," originally applied to the village.

Miminiska; lake, Albany river, Patricia and Thunder Bay districts, Ont.

Mimominatik; brook, emptying into Kapkichi lake, watershed of southwestern tributaries to Attawapiskat river, Patricia district, Ont.

Minago; river, draining through Cross lake, into Nelson river, Man. (Not Pine.)

Indian name meaning "spruce."

Minaret; col and peak, Sir Sandford range, Selkirk mountains, Kootenay district, B.C.

Descriptive of peak.

Minas; basin, east arm of the bay of Fundy, N.S. (Not Mines.)
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Mindemoya; river, emptying into Providence bay, south shore of Manitoulin island, Manitoulin district, Ont.
Indian name meaning "old woman."

Mineral; creek, flowing from south into Toby creek about 18 miles from its mouth, Kootenay district, B.C.

Mineral; creek, tributary to Caribou creek, Kootenay district, B.C.
Mineronite. See Mirond.

Miners; range of mountains, lake Laberge, Yukon.
Named by Dr. G. M. Dawson after the miners who met him and his party near here.

Mines. See Minas.

Minette; bay, head of Kitimat arm, Coast district, B.C.
After daughter of Hon. J. I. Tarte (1848-1907), Minister of Public Works, Canada, 1896-1902.

Minimegash. See Miminegash.
Minimesa. See Roseville.

Minisinakawa; lake, headwaters of Mattagami river in St. Louis township, Sudbury district, Ont. (Not Minisinkwa, Minissinaqua, Minisinaqua nor Minnisinaqua.)

Ministik; lake, Tp. 50, R. 21, W. 4 M., Alberta.

Ministikwan; lake, Tp. 58, R. 25, W. 3 M., Sask. (Not Little Island.)
Indian name meaning "little island."

Minitonas; creek, hill, post office and railway station, west of lake Winnipegosis, Man.
Indian name meaning "house of little god"; first applied to hill.

Mink; reef, Manitoulin island, north of Greene island, Manitoulin district, Ont.
A mink was killed by sailors near the reef.

Mink. See Ninette.

Minnaweiskag; lake, near height-of-land, southeast of Eagle lake, Kenora district, Ont. (Not Kaminnaweiskagwok.)

Minnedosa; river, tributary to Assiniboine river, western Man. (Not Little Saskatchewan nor Rapid.)
The name which means "rapid water"; was selected for the village by J. S. Armitage, postmaster on account of his wife's name being Minnie; the river was named subsequently.

Minnehaha; lake, southeast of Dinorwic lake, Kenora district, Ont. (Not Kiskopkechewans.)
Probably from the principal female character in Longfellow's "Hiawatha"; Indian word meaning "laughing water."

Minnesabik; lake, near height-of-land south of Separation lake, English river, northern boundary of Kenora district, Ont.

Minnewakan; village, Tp. 20, R. 6, W. P. M., Man.

Minnewanka; lake, Rocky Mountains park, Alberta. (Not Devil's Head.)
Meaning "water spirit"; name given when the park was laid out.

Minnikau; river, east of Minimitaki lake, Kenora district, Ont.

Minnitaki; lake, English river, southeast of lac Seul, also railway station, Kenora district, Ont. (Not Minnietakie.)

Minto; mount, west of Atlin lake, near north end, Cassiar district, B.C.
After Lord Minto, Governor General of Canada, 1898-1904.

Miquelon; lake, Tp. 49, Rs. 20 and 21, W. 4 M., Alberta.
After settler.

Miramichi; bay and river, Northumberland county, N.B. (Not Mirimichi.)
Mire. See Shunda.

Mirimichi. See Miramichi.
Mirond; lake, headwaters of Sturgeon-weir river, tributary to Cumberland lake, Sask. (Not Heron, Merion, Mineronte, nor Stone.)
Meaning “half moon,” descriptive of shape of lake.

Mirror; lake, west of lake Louise, Alberta.
Descriptive.

Misamikwash; lake, headwaters of Asheweig and Winisk rivers, Patricia district, Ont.
Indian name meaning “big beaver house.”

Miscou; island, harbour and point, Gloucester county, N.B. (Not Miscow, Mya nor North Mya.)
Indian name meaning “muddy land.”

Misener. See Meisner.

Misery; point, 5 miles, and bay 6½ miles east of Walkhouse point, Manitoulin island, Manitoulin district, Ont.

Misaguash; river, emptying into Cumberland basin between New Brunswick and Nova Scotia.
(Note Missegouash, Missiquash, nor Missiquash.)
Micmac Indian name meaning, probably, “marsh river.”

Misamahait. See Missinaibi.

Missawawi; lake, south of lac La Biche, Alberta. (Not Big Egg.)
Indian name meaning “big egg.”

Misseguash. See Missaguash.

Missonibi. See Missinaibi.

Mission; mountain, Tsimpsean peninsula, opposite Prince Rupert, Coast district, B.C.

Mission; pass, Seton lake to Bridge river, Lillooet district, B.C.
After mission on Seton lake.

Mission; bay, and channel of Kaministikwia river, Thunder Bay district, Ont.
After Indian mission.
Missipisew; river, flowing into Grass river into Tp. 69, R. 14, W.P.M., Man.
Indian name meaning “lynx.”

Missiquash. See Mississaugash.

Mississagi; bay, island and river, North channel of lake Huron, Algoma district, Ont. (Not Mississauga.)
Indian name meaning “large outlet,” referred to the river, but applied to the Indians who resided about its mouth.

Mississagi; strait between Cockburn and Manitoulin islands, Manitoulin district, Ont. (Not Mississauga.)

Mississagi; bay, island and river, North channel of lake Huron, Algoma district, Ont. (Not Mississauga.)
Indian name meaning “large outlet,” referred to the river, but applied to the Indians who resided about its mouth.

Mississagi; strait between Cockburn and Manitoulin islands, Manitoulin district, Ont. (Not Mississauga.)

Mississagua; brook and lake, Peterborough county, Ont. (Not Gull lake.)

Mist; mountain, Tp. 18, R. 7, W. 5 M., and creek, tributary to Highwood river, Alberta.
Descriptive.

Mista; peak, Valkyr mountains, east of Lower Arrow lake, Kootenay district, B.C.

Mistake; mountain, north end of lake Laberg-ê, Yukon.

Mistassibi; river, tributary to Mistassini river, Lake St. John county, Que. (Not Muskosibi.)
Indian name meaning “big river.”

Mistassini; lake, Mistassini territory, Que.
Indian name meaning “big stone.”

Mistassiniés. See Albanel.

Mistawak; lake, west of Harricanaw river, Abitibi territory, Que. (Not Mistawak nor Mistowak.)

Mistaya; river, headwaters of North Saskatchewan river, Alberta. (Not Little fork of the Saskatchewan nor Bear creek.)
Indian name meaning “grizzly bear.”

Mistewak. See Mistawak.

Mistigouche. See Mistikus.

Mistigouche. See Mistikus.

Mistikus; lake, Rimouski county, Que. (Not Mistigouche nor Mistigouche.)
Indian name meaning “fertile prairie.”

Mistowak. See Mistawak.

Misty; range of mountains, west of Mist creek, tributary to Highwood river, Alberta.
Descriptive of appearance when named in 1884.

Mitchell; bay and point, lake St. Clair, Kent county, Ont. (Not Mitchell’s.)
After early settler.

Mitchell; range of mountains, east of Kootenay river, above Cross river, Kootenay district, B.C.
After Captain Mitchell, travelling companion of Palliser.

Mitchell; river, flowing south into Cross river, tributary to Kootenay river, Kootenay district, B.C. (Not North fork of Cross.)

Mitchell Bay; village, lake St. Clair, Kent county, Ont. (Not Mitchell’s Bay.)
See Mitchell bay.

Mitchinamekus; lake and river, headwaters of Lièvre river, Berthier, Champlain, Maskinonge and St. Maurice counties, Que. (Not Mashamengoose, Mejomanguse, nor Menjobaguse.)
Indian name meaning “salmon trout.”

Mitis. See Metis.

Mitishito; river, flowing into Grass river in Tp. 67, R. 11, W. P. M., Man.
Indian name meaning “limestone.”

Mizonette. See Maisonnette.
Mizpeck. See Mispek.
Mizzonnette. See Maisonnnette.
Moar; bay, James bay, New Quebec territory, Que. (Not Andrew Moar.)
Mobbs; creek, tributary to Lardeau river from west, Kootenay district, B.C. (Not Canyon.)
Moerly; creek, flowing into south end of Lower Arrow lake, Kootenay district, B.C.
Moerly; lake and river, tributary to Peace river, Peace River district, B.C. (Not Moerley.)
After Walter Moerly, district engineer, Canadian Pacific Ry., 1872.
Moerly; mount, east of Athabaska river, 17 miles above mouth of Whirlpool river, western Alberta.
   After Hudson's Bay Co. officer, Jasper house, 1859.
Moerly; peak and railway station, Rocky mountains, Kootenay district, B.C.
   See Moberly lake.
Mohawk; post office, Brantford township, Brant county, Ont. (Not Mt. Pleasant.)
After the most easterly tribe of the Iroquois confederation; they removed to Canada after the American revolution.
Mohican; mountain, west of Duncan river, Kootenay district, B.C.
Moira; river, emptying into bay of Quinte at Belleville, Hastings county, Ont.
   After the Earl of Moira, title of the Marquis of Hastings (1754-1820); the river was formerly called Meyers creek, after John W. Meyers, a pioneer in mill building and trading.
Moisie; bay, point, river, rock and shoal, Saguenay county, Que. (Not Moisi nor Moisic.)
Mokowan; butte, east of Belly river, southern Alberta. (Not Belly.)
   Descriptive Indian name meaning "belly." After the Gros Ventres Indians. See Belly river.
Mokwahwastuk; lake, Marten river, Mistassini territory, Que. (Not Mokwahwastuk.)
   From resemblance to large tooth.
Molesworth. See Lois.
Mollie; lake, Benneweiss township, also river, flowing from the lake into Minisinakwa lake, Sudbury district, Ont. (Not Muskegogama.)
Moloch; mount, west of North fork of Illecillewaet river, Selkirk mountains, Kootenay district, B.C.
   Descriptive.
Molus; river, tributary to Richibucto river, Kent county, N.B. (Not Moulie's).
Monckland; village, Roxborough township, Stormont county, Ont. (Not Moncklands, Monklands, nor Moncklands Station.)
   After Charles Stanley Monck, fourth Viscount Monck (1819-1894), Governor General of Canada, 1861-68.
Mondonak; lake and river, draining through Sassawatisi lake into Manuan river, St. Maurice and Champlain counties, Que.
Monell; reef, entrance to Carroll Wood bay, east of Walkhouse point, Manitoulin island, Manitoulin district, Ont.
   After tug A. Monell.
Money; point, south point of Hawkesbury island, Coast district, B.C.
Mongus; lake, north of Kakagi lake, Kenora district, Ont.
   Indian name meaning "little loon."
Monk; lake, Cardiff township, Haliburton county, Ont.
Monklands. See Monekland.
Monmouth; lakes, Monmouth township, Haliburton county, Ont.
   After Monmouth, Wales.
Moody; lake, Lutterworth township, Haliburton county, Ont. (Not Moore's.)
Moore; point, south coast of Digby island, Coast district, B.C.
After John W. Moore, locating engineer, Grand Trunk Pacific Ry.
Moore; rock, Blunden harbour, Queen Charlotte sound, Coast district, B.C.
After F. Moore, A. B., H. M. surveying ship Egeria.
Moore; village, Moore township, Lambton county, Ont. (Not Mooretown.)
After the township, which after Sir John Moore (1761-1809.)
Moose; creek, tributary to Fortymile river near international boundary, Yukon.
Moose; island, Fisher bay, lake Winnipeg, Man.
Moose; lake and portage, east of lake, international boundary, Thunder Bay district, Ont.
Moose; lake, west of north end of lake Winnipeg, Man.
Moose; mountain, southeastern Sask.
Moose Mountain; creek, tributary to Souris river, Sask.
Moose. See Bonal.
Moose. See Fawcett.
Moosehide; creek and mountain, near Dawson, Yukon. (Not Mooseskin.)
Moosehorn; bay and lakes, east shore of lake Manitoba, Man. (Not Moose Horn.)
Moosehorn; creek, tributary to Athabaska river from west, above Brulé lake, Jasper park, Alberta.
Moosehorn; lake, west of Grand lake Victoria, Timiskaming county, Que.
Moosejaw; creek and city, Sask. (Not Moose Jaw.)
Translation of Indian name of creek; the Earl of Mulgrave, when on a buffalo-hunting trip, amazed the Indians by the manner in which he spliced the broken felloe of one of the carts of his party with a moose jawbone.
Mooseskin. See Moosehide.
Mooshaulagan. See Mushalagan.
Mooyie. See Moyie.
Moraine; lake, Tp. 27 R. 16 W. 5 M., Alberta.
Descriptive.
Moran. See Moras.
Moras; island, mouth of Nicolet river, Nicolet county, Que. (Not Moran.)
After Pierre Mouet de Moras, to whom the fief was granted, 1672.
Moreau; islet, above ile de la Ferme, St. Lawrence river, Kamouraska county, Que.
Moresby; island and passage, north end of Haro strait, westernmost of channels connecting Juan de Fuca strait and strait of Georgia, B.C.
After Rear-Admiral (afterwards Admiral of the Fleet) Fairfax Moresby (1786–1877), commander in chief, Pacific station, 1850–53.
Morgan; lake, southeast of Pettypiece township, Kenora district, Ont.
Morice; lake and river, tributary to Bulkley river, Skeena river, Coast district, B.C. (Not Morrice.)
After Rev. A. G. Morice, O.M.I., author of "The History of the Northern Interior of British Columbia."
Moricitown; village, Bulkley river, Coast district, B.C. (Not Morrietown.)
See Morice.
Morien; bay and cape, Cape Breton county, N.S. (Not Cow nor Murgin.)
Morien Bay. See Port Morien.
Morin; creek, flowing into Meadow creek in Tp. 60, R. 16 W. 3 M., Sask. (Not Bear.)
Named, 1909, after the "oldest settler."
Morin; shoal, in midstream between Kamouraska and Murray bays, St. Lawrence river, Que.
Morley; river, emptying into Teslin lake, south of Nisutlin river, southern Yukon.
Morrice. See Morice.
Morrietown. See Morietown.
Morris; lake, Tp. 17, R. 1, E. P. M., Man. (Not Norris.)
After Sir Alexander Morris, Lt.-Governor of Manitoba, 1872–77.
Morris; river, tributary to Red river, Man. (Not Boyne, Isles de Bois nor Scratchings.)
Morris; town, southern Manitoba.
See Morris lake.
Morrison; mount, Yukon river, near international boundary, Yukon.
After member of survey party.
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Morrissey; village, creek and ridge, south of Fernie, Kootenay district, B.C.
After James Morrissey, who with Michael Philipps and John Ridgway cut out the Crowsnest Pass trail from site of present Elko to Crowsnest lake.

Morse; basin, east of Kaien island, Coast district, B.C.
After vicepresident of Grand Trunk Pacific Ry.

Morse; creek, Kaien island, flowing into Prince Rupert harbour at Prince Rupert, Coast district, B.C.
See Morse basin.

Mors. See Lark.

Moselle. See Demoiselle.

Moses Oates; cape, Charles island, Hudson strait, N.W.T.

Mosher; island and point, east shore of St. Margaret bay, Halifax county, N.S. (Not Grampus.) Moser is a family name on St. Margaref bay.

Mosher; ridge and creek, tributary to Beaverhill creek, Westkettle river, Similkameen district, B.C.
After early prospector.

Mosquito. See Arrowpark.

Mossoy; river, flowing from Dauphin lake to lake Winnipegosis, Man.
Translation of Indian name.

Mouat; channel and reef, off southeast point of Vancouver island, B.C. (Not Mouatt.) After Captain William Alexander Mouat (1821–71), Hudson's Bay Co.

Mouat; islands, south of Gillies bay, west coast of Texada island, strait of Georgia, New Westminster district, B.C. (Not Mouatt.) See Mouat channel.

Mouat; point, west point of Pender island, B.C. (Not Mouatt.) See Mouat channel.

Mouat; rock, Goletas channel, northern coast of Vancouver island, B.C. (Not Mouatt.) See Mouat channel.

Mouchalagan. See Mushalagan.

Mouillé (pointe); point, St. Lawrence river, Lancaster township, Glengarry county, Ont. (Not Mouile nor Mouille.)
French name meaning "swampy, sunk in the water."

Moulie's. See Molus.

Mountain; lake, international boundary, Thunder Bay district, Ont.
From portage at the west end which passes over a high hill.

Mountain; lake, southwest of lake Bennett, Cassiar district, B.C. (Not Long.)
Mountain. See Liard.

Mountain. See Watchi.

Mount Johnson; village, Iberville county, Que. (Not St. Grégoire.)
On a grant of land to Sir John Johnson, for services during American war.

Mt. Pleasant. See Mohawk.

Mourier; lake, Desroberts township, Timiskaming county, Que. (Not Wikwaskapunk.)
After missionary.

Mouse. See Maus.

Mowat; mount, about three miles north of Grant Brook railway station, Cariboo district, B.C. From fancied resemblance to Sir Oliver Mowat, Premier of Ontario, 1872–96.

25c—12½
Moyie; town, lakes and river, tributary to Kootenay river, Kootenay district, B.C. (Not Mooyie.)

Corruption of French word meaning "wet;" named by trappers owing to the difficulty of crossing it when in flood.

Muchalat; lake, river and arm, Nootka sound, Vancouver island, B.C. (Not Guaquina.)

After Indian tribe.

Mud; glacier, southern portion of Tp. 25, R. 25, W. 5 M., Selkirk mountains, Kootenay district, B.C.

Descriptive.

Mud. See Bayfield.

Mud. See Chilako.

Mud. See Gillies.

Mud. See Kabagukski.

Mud. See Mance.

Mud. See Rose.

Muddy. See Pikitigushi.

Muddy Water. See Apeganau.

Mudge; island, between Gabriola island and Vancouver island, B.C.

After Lieutenant W. T. F. Mudge (1831-63), H.M.S. Pylades, on Pacific station, 1859-60; drowned in New Zealand.

Mudie; lake, south of Beaver river, near western boundary of Sask.

After member of survey party.

Mudjatik; river, tributary to upper Churchill river, Sask. (Not Caribou nor Mudjatiek.)

Indian name meaning "bad cariboo."

Muhigan; river, emptying into Sipiwesk lake, Nelson river, Man. (Not Wolf nor Wolf Stand.)

Indian name meaning "wolf;" the river takes its name from an upstanding block of gneiss on a hill on its south bank known as the "Wolf stand."

Muir; mountain and creek, flowing into Sooke bay, Juan de Fuca strait, Vancouver island, B.C. After resident.

Muirkirk; village, Orford township, Kent county, Ont. (Not Muir Kirk.)

Mukoman; river, tributary to Churchill river, above Nemei river, Sask.

Indian name meaning "knife."

Mulcaster; island, Navy group, St. Lawrence river, Leeds county, Ont. (Not Sugar.)

After Capt. Sir Wm. Howe Mulcaster (1785-1837); severely wounded at Oswego, 6 May, 1814.

Muldrew; lakes (2), west of Gravenhurst, Muskoka district, Ont. (Not Leg nor Rice.)

After Dr. Muldrew, principal of Gravenhurst High School, later headmaster of Macdonald Institute, Guelph.

Mule. See Meule.

Mulholland; point, Cansobello island, Charlotte county, N.B. (Not Mulholland's, Meholland nor Mehillan.)

Mulvey; creek, tributary to Slocan river, Kootenay district, B.C.

Mumm; peak, north of Robson pass, Rocky mountains, Alberta and Cariboo district, B.C.

After A. L. Mumm, F.R.G.S., who made the first ascent.

Mummery; mountain, upper waters of Blaeberry river, Rocky mountains, Kootenay district, B.C.


Munosahn. See Manasan.

Munquart. See Monquart.
Munro; creek, emptying into Gladys lake from south, Cassiar district, B.C.
After Dr. Munro, first medical man and coroner, Atlin, 1898.

Munro; mount, northeast of Atlin, Cassiar district, B.C.
See Munro creek.

Munro; point, St. Ann harbour, Victoria county, N.S. (Not Monroe nor Munro’s.)
After family spelling name thus.

Munroe Mills; hamlet, Charlottensburg township, Glengarry county, Ont. (Not Munro’s Mills nor Munroe’s Mills.)
After Thomas Munroe (1765-1837); settled, 1824.

Murchison; cape, southeast end of Brevoort island, south of Cumberland sound, near Baffin island, N.W.T.
After Sir Roderick Impey Murchison (1792-1871), geologist.

Murchison; island, lake Nipigon, northeast of Kelvin island, Thunder Bay district, Ont. (Not Murchison’s.)
See Murchison cape.

Murchison; mount, lat. 51° 56′, long. 116° 43′, also icefield, headwaters of North Saskatchewan river, Rocky mountains, Alberta.
See Murchison cape.

Murgin. See Morien.

Muriel; lake, Tps. 59 and 60, R. 5, W. 4 M., Alberta.

Murphy; lakes, discharging through Eagle creek into Tulameen river, Yale district, B.C. (Not Eagle nor Fish.)
After Judge Murphy, “old timer.”

Murphy; point, 9 miles east of Walkhouse point, and harbour, east of point, Manitoulin island, Manitoulin district, Ont.

Murray; creek, flowing into Sutherland river in Tp. 60, R. 11, W. 5 M., Alberta.
After David Murray, member of survey party.

Murray; island, Cold lake, Alberta and Sask.
After Bert Murray, rodman in survey party.

Murray; island, south of McNair island, St. Lawrence river, below Brockville, Leeds county, Ont.
After Lt.-Col. John Murray, 100th Regiment; appointed inspecting field officer in Lower Canada, 18 July, 1811; commanded attacks on Fort George and Fort Niagara (wounded); later C.B. and Lieut. general, died 21 Feb., 1832.

Murray; lake, Tp. 47, R. 15, W. 3 M., Sask.
After trader.

Murray; mount, lat. 60° 51′, long. 128° 40′, Logan range, Yukon territory. (Not Tent.)
After Alex. Murray (1810-84), assistant to Sir Wm. E. Logan, Geological and Natural History Survey of Canada.

Murray; point, Markham bay, Hudson strait, N.W.T.
After Sir John Murray, scientist.

Murray; reef, entrance to Key harbour, Georgian bay, Parry Sound district, Ont.
After Captain Alexander Murray McGregor, sailing master, surveying vessel “Bayfield.”

Murray; river, tributary to the St. Lawrence, Charlevoix county, Que. French usage: Malbaie (rivière).
After General Murray, governor of Quebec, 1760-64, and Governor General, 1764-66.

Murray; township and canal, connecting bay of Quinte with Presqu’ile bay, Northumberland county, Ont.
See Murray river.
Murray Bay; village, Charlevoix county, Que. French usage: Malbaie.
See Murray river.

Murtle; lake and river, tributary to Clearwater river, Kamloops district, B.C. (Not Myrtle.) Named by Joseph Hunter in 1874, during survey for Canadian Pacific Ry., after his birthplace in Aberdeenshire, Scotland.

Muscote; bay, bay of Quinte, Prince Edward county, Ont.

Mushalagan; lake, Manikuaigan river, Saguenay county, Que. (Not Mooshaulagan nor Mouchalagan.)

Mushonga. See Pemichangan.

Muskegogama. See Mollie.

Muskit; lake, Tp. 39, Rs. 26 and 27, W. 2 M., Sask. (Not Houghton.) Indian name meaning "medicinal."

Muskoka; lake and river, Muskoka district, Ont.

Muskrat. See Manigotagan.

Muskwa; river, flowing from west into Fort Nelson river, Liard river, Peace River district, B.C. (Not Sikanni.)

Muskowar; point and river, flowing into the gulf of St. Lawrence below Natashkwan river, Saguenay county, Que. (Not Musquar.) Indian name meaning "bear's tail."

Muskwesi; river, flowing into north end of Southern Indian lake, Man. Indian name meaning "hay."

Mussen; mount, southwest shore of Atlin lake, Cassiar district, B.C.

Myra; cove and island, Blind bay, Halifax county, N.S. (Not Myra's.) After Myra family.

Myrtle. See Murtle.

Mystery; lake, north of Buller township, Kenora district, Ont.

N

Na-a-ma. See Nemaia.

Naas. See Nass.

Nabakwasi; lake, Miramichi township, also river flowing into Mattagami river in Togo township, Sudbury district, Ont. (Not Nabaquasi, Napawquazi nor Nebwagwissi.)

Nabesipi. See Nabisipi.

Nabesippi. See Nabisipi.
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Nabisipi; river, flowing into the gulf of St. Lawrence, about 20 miles above Natashkwan, Saguenay county, Que. (Not Nabisipi nor Nabesippi.)

Indian name meaning “male river.”

Nacawici. See Naekawic.

Nackawic; river and village, York county, N.B. (Not Naecawic nor Naekawick.)

Nadahini; river, tributary to Kelsall river, Chilkat river, Cassiar district, B.C.

Nadina; mountain and river, flowing into François lake from the west, Coast district, B.C. (Not Nadinaka nor Nadinako.)

Nahlin; river, tributary to Inklin river, Cassiar district, B.C.

Nahoni; mountains, headwaters of Porepine river, Yukon. (Not Nahone.)

Nainlin; brook, tributary to lower Gravel river, Mackenzie river, N.W.T.

Indian name meaning “cascade.”

Najan; river, tributary to St. Maurice river, above Manuan river, Champlain county, Que.

Algonquin Indian name meaning “beautiful water.”

Najualand. See Najwalwank.

Najwalwank; lake, Quebec county, Que. (Not Kajoualwang nor Najwanland.)

Indian name meaning “lake in the interior.”

Nakimu; eaves, valley of Cougar creek, Selkirk mountains, Kootenay district, B.C.

Cree Indian name meaning “grumbling eaves.”

Nakina; river, tributary to Taku river, Cassiar district, B.C.

Nakonake; river, tributary to Sloko river, Cassiar district, B.C.

Nakusp; creek and village, east side of Upper Arrow lake, Kootenay district, B.C. (Not Na-Kusp.)

Indian name meaning “closed-in.”

Nakwagami; lake, Metabetchouan river, Montmorency and Quebec counties, Que. (Not Naquagami.)

Nalla. See Fraser.

Naltesby; lake, Telegraph trail, draining into Chilako river, Cariboo district, B.C. (Not Bobtail.)


Namakan; lake, international boundary, Rainy River district, Ont. (Not Nameukan.)

From the Indian name of a particular place at the foot of a fall, where the natives spear sturgeon.

Namawash; lake, upper Ottawa river, south of Mazerae township, Timiskaming county, Que.

Indian name meaning “sturgeon.”

Namego; lake, near height-of-land, south of Separation lake, English river, northern boundary of Kenora district, Ont.

Namegos; lake, near northern boundary of Montcalm county, Que. (Not Nemegos.)

Indian name meaning “trout.”

Namegososis; lake, west of Namegos lake, northern boundary of Montcalm county, Que. (Not Nemegosis.)

Indian name meaning “little trout.”

Nameiben; lake, north of Kagianagami lake, Thunder Bay district, Ont.

Indian name meaning “sucker.”

Nameins; rapids, Kanuchuan river, below Badesdawa lake, Patricia district, Ont.

Indian name meaning “little sturgeon.”

Nameukan. See Namakan.

Namew; lake, northeast of Cumberland lake, Sask and Man. (Not Sturgeon.)

Indian name meaning “sturgeon.”
Namiska. See Nemiskau.
Namoukan. See La Croix.

Namaimo; harbour, river and town, Vancouver island, B.C.
Indian name of the locality and the home of a confederacy (Namaimo) of five bands.

Nankika; lake, northwest of Attawapiskat lake, Patricia district, Ont.

Nankivell; islands, Blunden harbour, Queen Charlotte sound, Coast district, B.C.

Nankivell; point, NanOOSE harbour, east coast of Vancouver island, B.C.
See Nankivell islands.

Napetipi; river, flowing into the gulf of St. Lawrence above Eskimo river, near eastern boundary of Saguenay county, Que.
Probably same as Nabisipi, which see.

Naquagami. See Nakwagami.

Narchilla; brook, emptying into McPherson lake, north of Frances lake, Yukon.
Named, 1893, by the late Warburton Pike, after his Indian guide.

Nares; lake, connecting Bennett and Tagish lakes, Yukon.
After Admiral Sir George S. Nares, Arctic explorer.

Nares; mount, east of north end of Bennett lake, Yukon.
See Nares lake.

Nares; point, Departure bay, east coast of Vancouver island, B.C. (Not Boulder.)

Narrow. See Bagot.

Narrow. See Oboshkegan.

Narrow. See Wallace.

Narrows. See Washi.

Nasoga; gulf, Portland inlet, Cassiar district, B.C. (Not Nasoka.)

Nass; river and bay, Cassiar district, B.C. (Not Naas nor Nasse.)
Tlingit Indian word meaning "food depot."

Natashkwan; harbour, point, and river, Saguenay county, Que. (Not Englishman's nor Natashquan nor Little Natashquan.)

Nation; river, tributary to Yukon river, international boundary, Yukon.

Nation. See Petite-Nation.

Nation. See South Nation.

Natla; river, tributary to Gravel river, Mackenzie river, N.W.T.
Indian name meaning "to go quickly."

Naufrage. See Refuge.

Naumulthen; mountain, east of head of Lower Arrow lake, opposite the mouth of Whatshan river, Kootenay district, B.C.

Nauyats; island, southeast shore of Ungava bay, N.W.T.
Eskimo name meaning "seagulls."

Navy; group of Islands, St. Lawrence river, Lansdowne township, Leeds county, Ont.
Because individual islands are named after naval officers who distinguished themselves during the war of 1812–14.

Navy; island, Bedford basin, Halifax harbour, Halifax county, N.S. (Not Stephens nor Stevens.)
Prior to 1866 the Admiralty had a lease of the island for rifle practice.

Navopitechin. See Villemontel.

Neal. See Neil.
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Neale; lake, Tp. 50, R. 27, W. 3 M., Sask.

Maiden name of woman homesteader.

Nechako; river, tributary to Fraser river, Coast and Cariboo districts, B.C. (Not Nechaco nor Nechacoo.)

Nechigona; lake, headwaters of Berens river, Patricia district, Ont. (Not Hair.)

Neck; point north of Hammond bay, which is north of Departure bay, southeast coast of Vancouver island, B.C.

Nedlik; lake, west of Koksoak river, and draining into it below Kaniapiskau river, New Quebec territory, Que.

Eskimo name meaning "calves of the legs."

Needle; mountain, lat. 60° 20', long. 134° 58', Yukon.

Needles Eye; island, Brock group, St. Lawrence river, Leeds county, Ont.

So called from the narrow steamboat channel between the island and mainland.

Negik; lake, east of Nemei river, tributary to Churchill river, Sask.

Indian name meaning "otter."

Negro; harbour and cape, southeast extremity of Cape Negro island, Shelburne county, N.S.

From a rock resembling a negro; named by Champlain in 1604.

Negro. See Cape Negro.

Neil; harbour, Victoria county, N.S. (Not Neal, Neals nor Neil's.)

After one Neil McLennan.

Neilson; island, southeast of Stone island, Clayoquot sound, Vancouver island, B.C.

After Charles Neilson, owner.

Nelles; hamlet, Rainham township, Haldimand county, Ont. (Not Nelles Corners nor Nelles' Corner.)

After a general merchant named Nelles, murdered in his home about 1860.

Nelles Corners. See Nelles.

Nelly; point, northwest point of Princess Royal island, Coast district, B.C.

After Helen (Nelly), wife of Joseph W. McKay, Hudson's Bay Co. officer.

Nelson; lake, Churchill river, Man.

After Horatio, Viscount Nelson (1758-1805).

Nelson; lake, draining through Edgar lake and Hale creek into the south end of Taku arm, Tagish lake, Cassiar district, B.C.

After prospector.

Nelson; mount, west of outlet of Windermere lake, Kootenay district, B.C. (Not Hammond.)

On David Thompson's map, 1813-4. See Nelson lake

Nelson; river, flowing from lake Winnipeg into Hudson bay, Man. The two channels by which it drains the lake are East channel and West channel.

Named by Button, 1612; "Northwest Foxe," says: "which river he named Port Nelson after the name of his (sailing) master," whom he buried there.

Nelson. See Port Nelson.

Nemaia; lake and valley, northeast of Chilko lake, Coast and Lillooet districts, B.C. (Not Na-a-ma.)

Nemegos. See Namegos.

Nemegosis. See Namegosis.

Nemei; river, flowing into Churchill river below Reindeer river, Sask. (Not Sturgeon.)

Indian name meaning "sturgeon."

Nemeiben; lake and river flowing into bay of same name, lac La Ronge, Saskatchewan.

Indian name meaning "sucker."

Nemeibennuk; lake, southeast of Eagle lake, Kenora district, Ont. (Not Sucker.)

Indian name meaning "sucker."
Nemeigusabins; lake, draining into Ashewig river, Patricia district, Ont.
    Indian name meaning "small trout."

Nemikachi; lake, head waters of Lièvre river, St. Maurice and Maskinonge counties, Que.
    (Not Nemicachingue.)

Nemiskau; lake, expansion of Rupert river, Mistassini territory, Que.  (Not Namiska.)
    Indian name meaning "where there are fish."

Nemo; creek, flowing into west side of Slocan lake, Kootenay district, B.C.

Ne-na-tik-go.  See Ninatigo.

Nepigon.  See Nipigon.

Nepihjee.  See Leaf.

Nepisiguit.  See Xipisiguit.

Nepopekum; creek, tributary to Skagit river, from east, Yale district, B.C.

Neptuak; mountain, northwest of Deltaform mountain, Tp. 27 R, 17 W. 5 M., Rocky mountains, Alberta, and Kootenay district, B.C.
    Stoney Indian for "nine."

Neptune; head, Hudson strait, New Quebec territory, Que.
    After the whaling steamer, Neptune, Dominion Government expeditions, 1884 and 1903-4.

Nequaqvon.  See La Croix.

Nesham; glacier, flowing north into Klutlan, glacier, lat. 61° 26', long. 140° 50', Yukon.
    After E. W. Nesham, D.L.S.

Nesto.  See Hippa.

Neston; lake, west of lake Devizes, 9 miles south of Savant lake, Thunder Bay district, Ont.

Net; lake, Strathy township, Nipissing district, Ont.

Netley; creek and lake, south of lake Winnipeg, Man.  (Not Nettty nor Nipuwin.)
    Netley creek is referred to in Hudson's Bay Co. Council minutes, 1825.

Netley; island, Lake Fleet group, St. Lawrence river, Leeds county, Ont.
    After the Netley (formerly, "General Beresford") schooner, launched at York, U.C., July; 1812.

Net Setting.  See Setting.

Nettie L.; mountain, northeast of Ferguson, Kootenay district, B.C.
    After the "Nettie L." mine, located on it.

Neutral; hills, west of Sounding lake, Alberta.
    The hills were neutral ground between the northern and southern tribes of Indians.

Neuz.  See Auneuse.

Nevin; mount, south of Kusawa lake, Cassiar district, B.C., and Yukon.

Newagama; lake, Cadillac township, Timiskaming county, Que.

Newburg; village, Carleton county, N.B.  (Not Newburgh Junction.)
    Descriptive.

New Canaan; hamlet, Kings county, N.S.  (Not Canaan.)
    Biblical.

Newell; sound, southwest shore of Frobisher bay, Baffin island, N.W.T.  (Not Kangerflung.)
    Named by Hall, 1862, after Thomas W. Newell, Cincinnati.

New Galloway.  See Galloway.

New Galway.  See Galloway.

New Liskeard.  See Liskeard.

Newman; peak, lat. 49° 11', long. 114° 05', Alberta.  (Not Newman's.)
    After Edward Newman (1801-75), naturalist.
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Newmarket; village, York county, N.B. (Not New Market.)

New Richmond; lightstation, township and village, Bonaventure county, Que. (Not Richmond)
After Charles Lennox, 4th Duke of Richmond (1764-1819), Governor General of Canada, 1818-19.

Newross; hamlet, Matilda township, Dundas county, Ont. (Not New Ross.)

Newton; fiord, northeast shore of Frobisher bay, Baffin island, N.W.T. (Not Tornait.)
Named by Hall, 1861, after O. E. Newton, M.D., Cincinnati.

Newton; mount, lat. 60° 19', long. 140° 52' northeast of mount St. Elias, also glacier, south of mountain, Yukon.
After Henry Newton, U.S. geologist.

Newtown; village, Guysborough county, N.S. (Not Newton nor New Town.)

Newtown; village, Kings county, N.B.
Named in 1858; descriptive.

New Wiltshire. See Wiltshire.

Niagara; island, Lake Fleet group, St. Lawrence river, Leeds county, Ont.
After the Niagara, launched at Kingston, July, 1809.

Niagara. See Crossman.

Nibinamik; lake, Winisk river, west of Winisk lake, Patricia district, Ont.
Indian name meaning “spring beaver.”

Niblock; mount and pass, west of lake Louise, Alberta and Kootenay district, B.C.
After Superintendent Niblock Canadian Pacific Ry.

Nicholas; islets, northeast of Vansittart island, between Hope and Niger islands, north of Vancouver island, Coast district, B.C. (Not Nicolas.)
After Captain Nicholas Vansittart, R.N.

Nicholson. See Parrott.

Nickadow. See Nigadu.

Nicoamen; plateau and river, tributary to Thompson river, Kamloops district, B.C. (Not Nicomen.)
Indian name related to the word for “wolf.”

Nicol; lake, Lorrain township, Timiskaming district, Ont.
After Win. Nicol, professor of mineralogy, Queen’s University, Kingston.

Nicola; mountain, plateau, town, valley, lake and river, above and below the lake, Kamloops district, B.C.
After famous Indian chief, grand uncle of present chief at Douglas lake. His own name was Nwistes-meekin, “walking grizzly bear,” but the French speaking fur traders gave him the name Nicolas and spoke of the district and river as Nicolas’ country and Nicolas’ river.

Nicolas. See Nicholas.

Nicomen. See Nicoamen.

Nictau; settlement, at forks of Tobique river, Victoria county, N.B.
Maliseet Indian name meaning “confluence.”

Nictor; lake, headwaters of Tobique river, Restigouche county, N.B.
Maliseet Indian name meaning “confluence.”

Nictor. See Tobique.

Niddry; islands, St. Lawrence river, Lansdowne township, Leeds county, Ont.
After John (Hope), 4th Earl of Hopetoun (1765-1823); created Baron Niddry, 1814.

Nidhe; brook, tributary to Gravel river, above Ekwi river, N.W.T.
Indian name meaning “tamarack.”
Nigadu; river and village, Gloucester county, N.B. (Not Nickadow, Nigado nor Nigadoo.) Nigadu occurs as an Indian family name in an early census.

_Niganishe_. See Ingonish.

_Nigei_; island, north of Vancouver island, B.C. (Not Galiano.) Hereditary name of the principal chief of the Nahwiatti tribe of Indians.

_Nigger_; island, and narrows, bay of Quinte, between Belleville and Trenton, Hastings and Prince Edward counties, Ont.

_Nikabau_; lake and river, emptying into lake Ashuapmushuan, Lake St. John county, Que. Montagnais Indian name meaning "where there is hay."

_Nikanassin_; range of mountains, extending from the upper end of Brulé lake, Athabaska river to Brazeau river, Alberta. Name suggested by geologist, meaning the "first or front range" when approaching the Rockies from the east.

_Niles_; mount, Tp. 29, R. 18, W. 5 M., head of Sherbrooke creek, Kootenay district, B.C. After Prof. W. H. Niles, Boston.

_Nimkipsh_; lake and river, flowing into Broughton strait, Vancouver island, B.C. (Not Karmutsen lake nor Kla-anch river.) After an Indian tribe; they derived their name from a mythical halibut, which caused a tide-rip off the point of the bay."

_Nimrod_; lake, near height-of-land, south of Separation lake, Kenora district, Ont.

_Ninatigo_; lake, Stanthope township, Haliburton county, Ont. (Not Ne-na-tik-go.) Indian name meaning "maple."

_Ninemile_; point, also Ninemile Point, lightstation, southwest end of Simcoe island, St. Lawrence river, Frontenac county, Ont. (Not Gage.) Descriptive.

_Ninette_; island, Navy group, St. Lawrence river, Leeds county, Ont. (Not Mink.)

_Niord_; mountain, west of Slocan lake, Kootenay district, B.C.

_Nipigon_; bay, lake, river, and village, Thunder Bay district, Ont. (Not Nepigon nor Neepigon.) Indian name meaning "deep clear-water lake."

_Nipisiquit_; lake, river and bay, Gloucester county, N.B. (Not Nepisiguit, Nipisiquit nor Nipisigt.) Micmac Indian name meaning "the river that dashes roughly along."

_Nipmenanni_; river, tributary to Shoshokwan river, tributary to upper Ottawa river, Pontiac county, Que. (Not Nipmenane.) Indian name meaning "where there are high bush cranberries."

_Nipple_; mountain, lat. 61° 24', long. 129° 07', east of Frances lake, Yukon.

_Nipuwin_. See Netley.

_Nisconlith_. See Niskonlith.

_Niskainlith_. See Niskonlith.

_Niskilogisew_. See Kiskittogisuw.

_Niskonlith_; Indian reserve, lake and river, southwest of Little Shuswap lake, Kamloops district, B.C. (Not Nisconlith nor Niskainlith.)

_Nisling_; river, tributary to Donjek river, Yukon. (Not Tahite.)

_Nistowasis_. See Threepoint.

_Nisutlin_; river, emptying into Teslin lake, southern Yukon.

_Nith_; river, tributary to Grand river, Waterloo, Oxford and Brant counties, Ont. (Not Smith's creek.) Probably after river Nith, Scotland.

_Niut_; range of mountains, west of Tatlayoko lake, west of Chilko lake, Coast district, B.C.

_Nixon_. See Towineut.
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Noddaway. See Nottaway.

Nodway. See Nottaway.

Noels. See Auneuse.

Noel; harbour, Crooks inlet, Hudson strait, N.W.T.
   Named, 1897, after Admiral Sir Gerard Henry M. Noel.

Noel. See Nowell.

Nohomin; creek and Indian reserve, near Lytton, Kamloops and Yale districts, B.C. (Not No-ho-meen.)

Noire (rivière); river, flowing into the St. Lawrence below St. Siméon, Charlevoix county, Que.

Noix (lîle aux); island, Richelieu river, Iberville county, Que. (Not Fort Lennox.)
   From the abundance of walnuts (noix).

Nolin; island, junction of Attawapiskat and Boulder rivers, Patricia district, Ont.
   After a member of survey party, 1886.

Nomining; lake and village, Loranger township, Labelle county, Que. (Not Nominingue.)
   Descriptive Indian name meaning "red paint."

Nonwatin; lake and river, flowing into the lake, Black Sturgeon river, Thunder Bay district, Ont. (Not Nonwatan.)
   Indian name meaning "calm."

Nonwatinose; lake, Black Sturgeon river, south of lake Nipigon, Thunder Bay district, Ont.
   Indian name meaning "a series of calm and rough waters."

Noolki. See Nulki.

Noores. See Bath.

No-Point. See Glacier.

Norbury; lakes (2), east of Fenwick railway station, Kootenay district, B.C. (Not Fish.)
   After F. Paget Norbury, rancher.

Nordegg; river, tributary to Brazeau river, Alberta. (Not Little Brazeau.)
   After Martin Nordegg, manager, Brazeau collieries.

Nordensköld; river, flowing from Hutshi lakes into Lewes river, Yukon. (Not Hutshi nor Schwatka.)
   The rivers known as the Hutshi and Schwatka are portions of the river, not tributaries to it.
   Named by Schwatka, 1883, after Baron N. A. E. Nordensköld (1832-1901), Swedish Arctic explorer and geologist.

Norman; settlement and Hudson's Bay Co. post, confluence of Great Bear river and Mackenzie river N.W.T. (Not Fort Norman.)

Normand; township and lake, Champlain county, Que. (Not Wakaumekonke.)
   After Dr. Normand, mayor of the city of Three Rivers.

Norns; mountains, west of Slocan river, below Little Slocan river, Kootenay district, B.C.
   In Norse mythology, Norn was one of the Fates.

Norquay; mount, northwest of Banff, Alberta.
   After Hon. John Norquay, sometime Premier of Manitoba, who climbed the mountain in 1887 or 1888.

Norris. See Morris.

Norse; lake, Wauchope township, Kenora district, Ont. (Not Nurse.)

North; bay, Hudson strait, N.W.T.
   Descriptive.

North; channel, between Manitoulin island and mainland, Ont.
   Descriptive.

North; lake, Harburn township, Haliburton county, Ont.

North; lake, international boundary, Thunder bay district, Ont.
   The first lake "north" of the height-of-land.
North. See Factory.
North. See Garibaldi.
North. See Gladys.
North. See Hall.
North. See Langara.
North. See Long.

North Albert; peak, southwest of Albert Cañon railway station, Selkirk mountains, Kootenay district, B.C.
   See Albert cañon.
North Antler. See Gainsborough.
North branch of Kicking Horse. See Amiskwi.
North branch of North fork of Fraser. See Herrick.
North Corner. See Norths.
North Cornwall. See Cornwall.
North Devon. See Devon.

   (Not Duck river North.)
Northfield. See Hennigar.

North Fork; pass, west of Gould Dome mountain, Alberta, and Kootenay district, B.C.
   At head of what was, formerly, designated North fork of Oldman river.
North Fork. See Yoho.
North fork of Bridge. See Yalakom.
North fork of Cooper. See McKian.
North fork of Cross. See Mitchell.
North fork of Dutch. See Benabel.
North fork of Fraser. See McGregor.
North fork of Fry. See Carney.
North fork of Horsethief. See Stockdale.
North fork of Kettle. See Granby.
North fork of Lardeau. See Ferguson.
North fork of Michel. See Alexander.
North fork of Nass. See Bell-Irving.
North fork of Toby. See Delphine.
North Lizard. See Rowe.
North Miminigash. See Miminegash.
North Mya. See Miscou.
North Nation. See Petite-Nation.
North of Halfway. See Meule.
North Porpoise. See Ridley.

North Fowl; lake, second above Pigeon river, international boundary, Thunder Bay district, Ont. (Not Hen.)

North Head; harbour, port of entry and village, northern portion of Grand Manan island, Charlotte county, N.B. (Not Flag, Flag's, Flagg's cove, Grand Manan harbour, nor North Road village.)
   Descriptive.

North Kootenay; pass, Tp. 5 R. 5 W. 6 M., Rocky mountains, Alberta and Kootenay district, B.C.
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**Northport;** shoal and village, Sophiasburg township, Prince Edward county, Ont.  
Descriptive.

**North Road.** See North Head.

**North Rustico;** lightstation and village, Queens county, P.E.I. (Not Grand Rustico.)  
Rustico is probably a corruption of Racicot, name of an early settler.

**Norths;** village, Kings county, N.S. (Not North Corner.)  
After North family.

**North Skeena.** See Inverness.

**North Somerset.** See Somerset.

**North Star;** hill, west of Kimberley, Kootenay district, B.C.

**North Tacla.** See Takla.

**Northumberland;** channel between Gabriola and Vancouver islands, B.C.  
After Algernon Percy, 4th Duke of Northumberland, 1st Lord of the Admiralty, 1852

**Northumberland.** See Cumberland.

**North Vermilion;** settlement, north side of Peace river, Alberta.

**Northwest Angle;** inlet, lake of the Woods, international boundary, Man., Ont., and U.S.  
At the head of the inlet is the point accepted by Great Britain and the United States  
as the northwestern-most point of the lake of the Woods.

**North Wiltshire.** See Wiltshire.

**North Wind;** lake, southeast of Humboldt bay, lake Nipigon, Thunder Bay district, Ont. (Not  
North Wing.)

**North Wing.** See North Wind.

**Norway;** island, Trincomali channel, southeast coast of Vancouver island, B.C. (Not Indian.)  
After Horatio F. Norway, R.N. master, H.M.S. Trincomalee, on Pacific station,  
1853–56.

**Nose.** See Ribstone.

**Notikewin;** river, tributary to Peace river, Alberta. (Not Battle.)  
Indian name meaning “Iroquois.”

**Notre-Dame-de-Pontmain:*** parish, Labelle county, Que. (Not Notre-Dame du Port Main.)

**Notre-Dame-des-Laurentides;*** parish, Quebec county, Que.

**Notre-Dame-du-Portage;*** village, Temiscouata county, Que.  
From its positon at one end of the old portage road from Madawaska to Rivière-du-Loup.

**Nottaway;** river, flowing from Mattagami lake into James bay, Abitibi territory, Que. (Not  
Noddawai nor Nodway.)  
Indian name meaning “Iroquois.”

**Notukeu;*** creek, flowing into Wood river in Tp. 11, R. 4, W. 3 M., Sask.

**Novelist.** See Palmer.

**Nowell;*** channel, easterly portion of Queen Charlotte sound, Coast district B.C. (Not Noel.)  
After Captain (later Admiral of the Fleet) Nowell Salmon, R.N.V.C., who as a midshipman of the Thetis, made an exploration in 1852 of the interior of Moresby island with Lieutenant John Moresby.

**Noyes;*** mount, Tp. 33, R. 19, W. 5 M., east of Mistaya river, Rocky mountains, Alberta.  
After Rev. C. L. Noyes.

**Nozheiatik;*** lake, east of Anzhekumming lake, Kenora district, Ont.  
Indian word meaning “doe.”

**Nubble;*** mount, Goschen island, Hecate strait, Coast district, B.C.

**Nulki;*** lake, draining through Tachick lake into Nechako river, above Stuart river, Coast dis-  
trict, B.C. • (Not Noolki.)
Number 2. See Forster.
Number 3. See Frances.
Numnekaning. See Nunikani.
Nunikani; lake, Sherborne township, Haliburton county, Ont. (Not Numnekaning.)
Nuns; island, St. Lawrence river, near Montreal, Laval county, Que. (Not Nun nor St. Paul.
French usage: Sœurs (île des).
Owned by the Grey Nuns, Montreal.
Nurse. See Norse.
Nusheth. See Hill Island.
Nut; lake and mountain, eastern Sask.
       Descriptive.
Nut Mountain; post office, Tp. 37, R. 10, W. 2 M., Sask.
       Descriptive.
Nutt; village, Missisquoi county, Que. (Not Nutt’s Corners.)
       After David Nutt, first postmaster.
Nutt’s Corners: See Nutt.
Nyaring; river, draining through Little Buffalo river into Great Slave lake, N.W.T.

O

Oak; lake, English river, above Maynard lake, northern boundary of Kenora district, Ont.
       Descriptive.
Oak; lake, Methuen township, Peterborough county, Ont.
       Descriptive.
Oak; point, east shore of lake Manitoba, Man.
       Descriptive.
Oakbank; village, east of Winnipeg, Man. (Not Oak Bank.)
       Descriptive.
Oak Point; village, east shore of lake Manitoba, Man.
Oakland. See Slaughenwhite.
Oakville; town and creek, flowing into lake Ontario, Halton county, Ont. (Not Sixteen mile.)
       Descriptive.
Obabika; lake, west of Timagami lake, also river flowing into Sturgeon river in Sheppard
township, Sudbury district, Ont.
Obadowagishing. See Dasserat.
Obalski; lake, Harricanaw river, Castagnier township, Timiskaming county, Que.
       After J. Obalski, inspector of mines, Quebec.
Obashi; lake, northwest of Attawapiskat lake, Patricia district, Ont.
Obashing; lake, draining into Ottawa river, below lake Timiskaming, Timiskaming county,
       Que. (Not Big Obashing.)
Obashkong; lake, Cassels township, Nipissing district, Ont.
Obaska; lake, Bell river, Pescalis township, Timiskaming county, Que. (Not Obiska.)
       Indian name meaning “shut in by rushes.”
Obatawagush; lake, west of lake Chikobi, Guyenne township, Abitibi territory, Que.
Obatogamau; lake, height-of-land south of Chibougamau lake, Abitibi territory, Que.
       Indian name meaning “lake of bushy narrows.”
Obiduan; lake, headwaters of St. Maurice river, Champlain county, Que.
       Algonquin Indian name meaning “obstructed.”
Obikoba; lake, Rémigny and Désandroins townships, Timiskaming county, Que.
       Indian name meaning “shut in by rushes.”
Obikunimaga. See Opikinimika.
Obiska. See Obaska.

Obonga; lake, northwest of Kainash bay, lake Nipigon, Thunder Bay district, Ont. Indian name meaning “sand narrows.”

Oboshkegan; lake, north of Onaman lake, Thunder Bay district, Ont. (Not Narrow.)

Obowanaa. See Kopka.

O'Brien; creek, tributary to Forty mile creek from the north, Yukon.

Observation; butte, near Gun lake, north of Nahlin river, Cassiar district, B.C.


Descriptive of view from summit.

Observation. See Jupiter.

Ochig; lakes, north of lake St. Joseph, Patricia district, Ont.

O'Connor. See Kaskawulsh.

O'Conor; island, Navy group, St. Lawrence river, Leeds county, Ont. (Not O'Connor.)

After Commander Sir Richard James Lawrence O'Conor, R.N.; present at Oswego, 1814; retired rear-admiral, 1846.

Octave; river, tributary to Harricanaw river, Timiskaming county and Abitibi territory, Que. (Not Shi-shi-shi.)

After Octave Mousseau, sometime member of Quebec Legislature.

Octopus; islands, between Quadra and Maurelle islands, Coast district, B.C.

Odaray; mount, southeast of Field railway station, Kootenay district, B.C.

Stoney Indian for “brushy.”

Odaray; pass, between mounts Duchesnay and Odaray, Yoho park, Rocky mountains, Kootenay district, B.C.

See Odaray mount.

Odei; river, flowing into Burntwood river, about 8 miles above Split lake, Man. (Not Sahpoochaway.)

Indian name meaning “heart.”

Odelach; river, tributary to Tobique river, Victoria county, N.B. (Not Otelloch.)

Possibly Indian name meaning “hunting ground.”

Odin; mount, west of Upper Arrow lake, Kootenay district, B.C.

O'Donnel; river, emptying into east side of Atlin lake, Cassiar district, B.C. (Not Dixie.)

After Major O'Donnel, early traveller.

O'Drain's. See Wemps.

Oesa; lake, draining through lake O'Hara into Cataract brook, tributary to Kicking Horse river from south, Kootenay district, B.C.

Stoney Indian for “ice.”

Ogani; lake, Wenasaga river, tributary to lac Seul, Patricia district, Ont. (Not Oganie nor Powingow.)

Ogden; mount, Tp. 29, R. 18, W. 5 M., west of Sherbrooke creek, Rocky mountains, Kootenay district, B.C.

After J. G. Ogden, vice president, Canadian Pacific Ry.

Ogilvie; creek, emptying into north end of lake Laberge, Yukon.

After William Ogilvie, sometime commissioner, Yukon territory.

Ogilvie; post, Yukon river, opposite mouth of Sixtymile river, Yukon.

See Ogilvie creek.

Ogilvie; valley, north of lake Laberge, Yukon.

See Ogilvie creek.

Ogilvie; range of mountains, north of Dawson, Yukon.

See Ogilvie creek.

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Ogoki; lake and river, tributary to Albany river, Thunder Bay district, Ont. (Not Tiernan.)

Indian name meaning "swift river".

Ogre; peak, Tp. 30, R. 20, W. 5 M., Rocky mountains, Kootenay district, B.C.

Descriptive.

O'Hara; lake, head of Cataract brook, tributary to Kicking Horse river from south, Rocky mountains, Kootenay district, B.C. (Not Cascade.)

After Lieut.-Col. O'Hara, R.A. frequent visitor.

Oies; (cap aux); cape, below Coudres island, St. Lawrence river, Charlevoix county, Que. English usage: Goose.

Oiseau; lake and river, draining into Winnipeg river, Man. (Not Bird.)

French translation of Indian name.

Oil. See Cameron.

Okawakenda; lake, Churchill township, Sudbury district, Ont. (Not Okawukenda nor Upper Okawukenda.)

Oke; mount, northern portion of Tp. 26, R. 17, W. 5 M., Yoho park, Rocky mountains, Kootenay district, B.C.

After Wm. T. Oke, prospector.

O'Keefe; mount, southeast of lake Atlin, between Sloko and Silver Salmon rivers, Cassiar district, B.C.

Okemasis; lake, Tp. 45, Rs. 2 and 3, W. 3 M., Sask. (Not Stony.)

Okikodosik; river, flowing into Abitibi lake, Ont. and Que. (Not Okidosec.)

Okisollo; channel, between Quadra and Sonora islands, Coast district, B.C. (Not Okishollow.)

Okotoks; mountain and town, south of Calgary, Alberta.

Indian name meaning "stony crossing," referring to a ford of Sheep river.

Old Bluff. See Yeo.

Old Factory. See Factory.

Oldfield. See Hays.

Old Fort; bay, point and river, lake Athabaska, Alberta.

After old fort Chipewyan, which was situated at the mouth of the river.

Oldman; river, rising on the interprovincial boundary in Sec. 11, Tp. 14, R. 6, W. 5 M., and flowing eastward till it joins the Bow river to form the South Saskatchewan, Alberta.

The river takes its name from the playing ground of the Old Man of Cree mythology, which is near the eastern end of the gap through which the river issues from the Livingstone range.

Oldman; rock, west side of Yukon river, below Fortymile river, Yukon.

Oldwoman; rock, east side of Yukon river, below Fortymile river, Yukon.

Olga; lake, southeast of Mattagami lake, Abitibi territory, Que.

Olga; river, flowing into Hudson strait, N.W.T.

Olive; mountain, northern portion of Tp. 30, R. 18, W. 5 M., Rocky mountains, Alberta and Kootenay district, B.C.

Oliver; mount; north of Incomappleux river, Tp. 25, R. 26, W. 5 M., Selkirk mountains, Kootenay district, B.C.

After A. Oliver Wheeler, D. L.S.

Olivine; mountain, south of Tulameen river, above Slate creek, Yale district, B.C.

Olomanoshibo; river, flowing into the gulf of St. Lawrence about 50 miles below Natashkwan, Saguenay county, Que. (Not Olomanosheebou nor Olomonasheebou.)

Indian name meaning "paint river."

Omanek; island, east shore of Ungava bay, N.W.T.

Eskimo name meaning "lively."

Omatuwi; lake, north of Split lake, Nelson river, Manitoba. (Not O-Ma-Tou-Wi.)
Ombabika; bay, island, entrance to bay and river, lake Nipigon, Thunder Bay district, Ont.

Omenica. See Omineca.

Omineca; mountains and river, tributary to Finlay river, Peace river, Cassiar, B.C. (Not Omenica, Ominica nor Omeneca.)

Onamakawash; lake, Lookout river, Thunder Bay district, Ont. (Not Onamanisagi.)

Onaman; lake and river, emptying into Humboldt bay, lake Nipigon, Thunder Bay district, Ont. (Not Onamanisagi.)

Onamanisagi. See Onaman.

Onatamini; brook, flowing into Wikaniska lake, Grass river, Man.

Onderdonk; point, Ameliasburg township, Prince Edward county, Ont.

Onamakawash; lake, Lookout river, Thunder Bay district, Ont. (Not Onamanisagi.)

Onaman; lake and river, emptying into Humboldt bay, lake Nipigon, Thunder Bay district, Ont. (Not Onamanisagi.)

Onamanisagi. See Onaman.

Onatamini; brook, flowing into Wikaniska lake, Grass river, Man.

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Onamakawash; lake, Lookout river, Thunder Bay district, Ont. (Not Onamanisagi.)

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Onamanisagi. See Onaman.

Onatamini; brook, flowing into Wikaniska lake, Grass river, Man.

Onderdonk; point, Ameliasburg township, Prince Edward county, Ont.

Onamakawash; lake, Lookout river, Thunder Bay district, Ont. (Not Onamanisagi.)

Onaman; lake and river, emptying into Humboldt bay, lake Nipigon, Thunder Bay district, Ont. (Not Onamanisagi.)

Onamanisagi. See Onaman.

Ontawan; lake, English river, below Separation lake, Kenora district, Ont. (Not Lone Man’s nor One Man’s.)

One Mile. See Allison.

Onkamis; lake, headwaters of St. Maurice river, Champlain county, Que.

Oosilinka. See Osilinka.

Ooskoolim. See Wuskwatim.

Ootsa; lake, south of Francois lake, Coast district, B.C. (Not Ootsabunket.)

Opabin; creek, flowing into Brazeau river in Tp. 42, R. 20, W. 5 M., Alberta. (Not Boulder nor Rocky.)

Opachuanau; lake, Churchill river, above Southern Indian lake, Man. (Not Pachewanow.)

Opal; mountains, Tp. 21, R. 9, W. 5 M., east of Kananaskis river, Alberta. Quartz crystals, with film of opal found here.

Opemisca. See Opemiska.

Opama; river, north of Pontaix river, Rupert bay, Mistassini territory, Que. (Not Trout.)

Opasatika; lake, Dufay township, Timiskaming county, Que.

Opatawaga; lake, northwest of Mattagami lake, Abitibi territory, Que. (Not Opwajakan.)

Opemisko; lake, Chibougamau river, Abitibi territory, Que. (Not Opemisko.)

Opeongo; lake, Algonquin National park and river, tributary to Madawaska river, Nipissing district, Ont. (Not Great Opeongo lake.)

Opekwanne. See Opikwan.

Opequon. See Opikwan.

Ophir; creek, tributary to Indian river, Yukon.

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Opichuan; river, flowing into Nameiben lake, near Albany river, Thunder Bay district, Ont. (Not Opichewan.)

Opikelogen; lake, chain of lakes draining into Albany river by Eabamet river, Patricia district, Ont.

Indian name meaning "rib."

Opikinimika; lake, Moffat township, also river flowing from the lake into Nabakwasi lake, Sudbury district, Ont. (Not Obikunimagi, Opickinimika nor Seven Mile.)

Opikwan; lake, upper Ottawa river, Pontiac county, Que. (Not Opequanne nor Opequon.)

Algonquin Indian name meaning "shut in by grasses."

Opinaka. See Opinaka.

Opinika; river, tributary to Eastmain river, New Quebec territory, Quebec. (Not Opinaca nor Straight.)

Indian name meaning "straight."

Opinnigau; river, emptying into James bay, Patricia district, Ont. (Not Upinnakaw.)

Indian name meaning "straight."

Opitsat; Indian village, southwest end of Meares island, Clayoquot sound, Vancouver island, B.C. (Not Clayoquot.)

Opiwatakann. See Opatawaga.

Oponask; lake, Sachigo river, tributary to the Severn, Patricia district, Ont. (Not Little Sachigo.)

Orange; creek, tributary to Black river, international boundary, Yukon.

Orchard; point, entrance to lake Couchiching from lake Simcoe, Simcoe county, Ont.

Oak Orchard was the original designation of the land at the point.

Orchay; river, flowing from north into Pelly river, below Ross river, Yukon.

Ord; lake, north of Ladysmith township, Kenora district, Ont. (Not Long.)

After L. R. Ord, C.E., National Transcontinental Ry.

Orford; lake, southwest of Orford mountain, Brome county, Que.

Orford Lake; railway station, Brome county, Que.

Orford. See Stukely.

Orient. See Pijitawabik.

Original; bay and cape, Rimouski county, Que. (Not Arignole.)

Originaux (pointe aux); point, St. Lawrence river, Kamouraska county, Que.

French translation of Indian name meaning "moose."

Orleans; village, Gloucester township, Carleton county, Ont. (Not St. Joseph d'Orleans.)

After Orleans, France.

Orme; (anse à l'); (cap à l'); (rivière à l'); bay, cape and river, Jacques-Cartier county, Que. (Not Tortue nor St. Jacques.)

Ormonde; lake and creek, flowing into north side of Fraser lake, Coast district, B.C. (Not Canyon.)

After Frank Ormonde Morice, surveyor general's office, Victoria, B.C.

Oromocto; island, lake, river and village, Sunbury and York counties, N.B. (Not Oronocto.)

Maliseet Indian name meaning "good river," i.e., easy for canoe navigation.

Oronocto. See Oronocto.

Ortell; mount, Tasin mountains, between Stewart river and Lansing river, Yukon.

After George Ortell, prospector.

Osborn; bay, Stuart channel, Vancouver island, B.C.

After Rear-Admiral Sherard Osborn, R.N. (1822-75).

Osborn; cove, upper portion of Prince Rupert harbour, Coast district, B.C.

Osbourne; bay, southern arm of Eagle lake, Kenora district, Ont. (Not Osbourne's.)
Osgoode; mount, north of mount Selous, between forks of Macmillan river, Yukon.

After member of Biological Survey, U.S.

Osier. See Hosier.

Osilinka; river, tributary to Omineca river, above Mesilinka river, Cassiar district, B.C. (Not Oosilinka, Osilinca nor Ozalinea.)

Indian name meaning "the river on which wild rhubarb grows."

Osipašinni; lake, east of Kakagi lake, Kenora district, Ont. (Not Boulder.)

Indian name meaning "boulder."

Osisko; lake, Rouyn township, Timiskaming county, Que.

Oskelaneo; lake, headwaters of St. Maurice river, Champlain county, Que.

Osnabruck; township, Stormont county, Ont. (Not Osnabruck.)

After Osnabruck, town and province in Hanover.

Osnabruck Centre; village, Stormont county, Ont. See Osnabruck township.

Osoyoos; lake, international boundary, Similkameen district, B.C. (Not Osoyoos.)

Ospika; river, tributary to Finlay river from north, above Omineca river, Cassiar district, B.C. (Not Ospica nor Spica.)

Ospwagan; lake, Tp. 76, R. 4, W. P. M., Man. (Not Pipe nor Pipestone.)

Indian name meaning "pipe."

Ostrander; point, Marysburg, South township, Prince Edward county, Ont. (Not Gravelly.)

O'Sullivan; lake, near headwaters of Ottawa river, Montcalm county, Que.

After Henry O'Sullivan, inspector of surveys, Quebec.

O'Sullivan; river, flowing through Puskitamika lake into Waswanipi lake, Abitibi territory, Que.

See O'Sullivan lake.

O'Sullivan; settlement, York township, York county, Ont. (Not O'Sullivan's Corners.)

After M. O'Sullivan, early settler.

Otakus; lake, north of Lobstick bay, Whitefish bay, lake of the Woods, Kenora district, Ont. (Not Otakoose.)

Otanabi; lake, Jourdan township, Timiskaming county, Que.

Otawau; river, southern tributary to Lesser Slave river, below Saulteux river, Alberta. (Not O-Tow-Wow.)

After Indian band.

Ottawa; lake, tributary to Waswanipi river, from south, below Opawika river, Abitibi territory, Que.

See Ottawa river.

Ottawau; lake and river, Attawapiskat River watershed, Patricia district, Ont.

Indian name meaning "elbow."

O-Tow-Wow. See Otawau.

Ottawa; capital city of Canada, Ontario, and river, Ontario and Quebec.

From "adawe," "to trade," a term applied to the Ottawa Indians, because they were noted as traders. The Ottawas claimed exclusive control of the present Ottawa river.

Ottawa; lake, headwaters of Ottawa river, Joliette county, Que.

See Ottawa river.

Otter; point, Juan de Fuca strait, Vancouver island, B.C.

After Commander Henry Charles Otter, R.N., surveying officer; died, 1876.

Otter. See Big Otter.

Otter. See Captain.

Otter. See Fantail.
Otterhead; river, tributary to Kicking Horse river, Kootenay district, B.C.

Ottertail; river, tributary to Kicking Horse river from east, mountain range and railway station, Kootenay district, B.C.
Translation of Indian name.

Ottertail; falls, Ottertail river, Rocky mountains, Kootenay district, B.C.

Otty; island, Navy group, St. Lawrence river, Leeds county, Ont.
After Lt. Allen Otty, R.N., who commanded the "Star" on lake Ontario during the war of 1812-14; commanded "Montreal" and "Charwell" during 1816 and 1817; retired captain, 1854.

Ouasienska. See Washimeska.

Oulac. See Aulac.

Outer. See Henry.
Outer bay of Long point. See Long Point.

Outer Duck; island, southernmost of Duck group off south side, west end of Manitoulin island, Manitoulin district, Ont.

Outer Sturgeon. See McCreary.

Oval. See Kawawia.

Overflow; lake, Olga river, north shore of Hudson strait, N.W.T.

Overflowing; river, emptying into northwest end of lake Winnipegosis, Man.
Translation of Indian name.

Owen; bay, Okisollo channel, Sonora island, Coast district, B.C.
After mate of D.G.S. "Quadra", 1902.

Owen; channel and island, between Manitoulin and Fitzwilliam islands, Manitoulin district, Ont.
After Captain (later Vice Admiral) William Fitzwilliam Owen, (1771-1857); in charge of survey of Great lakes, March 1815 to May 1816.

Owen; island, Navy group, St. Lawrence river, Leeds county, Ont.

Owen; mount, between Float creek and Ottertail river, Rocky mountains, Kootenay district, B.C.
Named by J. J. McArthur, 1886, after Frank Owen, member of his survey party.

Owen; point, between Athol and Wellington bays, Prince Edward county, Ont. (Not West.)

Owun. See Awun.

Owl; river, flowing from Heart lake to lac La Biche, central Alberta.

Ox; point, western extremity of point Anne, Thurlow township, Hastings county, Ont.

Oxbow; lake, Hincks township, Ottawa county, Que.

Oxdrift; railway station, Kenora district, Ont.
The name was given by labourers on railway construction work after seeing some oxen fording a small stream.

Oxstall. See Eestall.

Oxtongue; lake and river, McClintock township, Haliburton county, Ont. (Not Ox Tongue nor North branch of Muskoka.)

Oyster; peak, Tp. 29, R. 15, W. 5 M., head of Red Deer river, Rocky mountains, Alberta.
From limestone formations resembling oysters found at the base.

Oyster. See Ladysmith.

Ozalinca. See Osilinka.

Ozhiski; lake, Kanuchuan river, southwest of Attawapiskat lake, Patricia district, Ont.
Indian name meaning "mud."

Ozhuskans; rapids, Kanuchuan river, below Badesdawa lake, Patricia district, Ont.
Indian name meaning "little muskrat."

Oznabruck. See Osnabruck.
Pabelognang; lake and river, tributary to Vermilion river, Champlain county, Que.  
    Algonquin Indian name meaning “pembina country.”

Pachena; bay and point, south of Barkley sound, Vancouver island, B.C. (Not Beegadoss nor Beeghadoss.)
    After Indian tribe.

Pachowau.  See Opachuanau.

Packhoon.  See Pakhoan.

Paddle; river, tributary to Pembina river, in Tp. 59, R. 2, W. 5 M., Alberta.

Paddle.  See Boyer.

Paddling; lake, Tp. 46, R. 7, W. 3 M., Sask.

Pagato; lake and river, flowing into Churchill river, near boundary of Sask and Man.
    Indian name meaning “where they play ball.”

Page; lagoon, south of Hammond bay, which is north of Departure bay, southeast coast of Vancouver island, B.C.

Page; point, Ladysmith harbour, Vancouver island, B.C.
    After the owner of oyster grounds in the vicinity.

Paget; peak, northwest of Hector railway station, Rocky mountains, Kootenay district, B.C.
    After Very Rev. Dean Paget of Calgary, who made the first recorded ascent.

Pagwachuan; lake and river, tributary to Kenogami river, Thunder Bay and Algoma districts, Ont. (Not Bagutchuan, Pawgutchewan river, Powgulchuan nor Pagwitchewan.)
    Indian name meaning “shallow.”

Pagwutchewan.  See Pagwachuan.

Paincourt; village, Dover East township, Kent county, Ont. (Not Dover South nor Pain Cour.)
    Descriptive of the hardships of the early settlers for whom often “bread was short.”

Painsé; village, Westmorland county, N.B. (Not Painsec Junction.)
    Said to be French pin see, meaning “dry pine.”

Paint; river and lake, Grass river, Man. (Not Manuminan.)
    Translation of Indian name.

Paint-hills; bay, north of Moar bay, James bay, New Quebec territory, Que. (Not Paint Hills.)
    After the Paint hills to which pyrite gives a rusty colour.

Paint-hills; islands, Paint-hills bay, James bay, N.W.T. (Not Paint Hills.)
    See Paint-hills bay.

Paisley; point, Douglas channel, west of Maitland island, Coast district, B.C.
    After Paisley, Scotland, where the D.G.S. “Quadra” was built, 1891.

Pakhoan; lake, Kishikas river, tributary to Severn river, Patricia district, Ont. (Not Little Cedar nor Packhoon.)

Pakonigans; river, upper waters of Manuan river, St. Maurice county, Que.

Pakowagaming.  See Pakowkami.

Pakowkami.  See Pakowkami.

Pakowkami; lake, Gladstone township, Algoma district, Ont. (Not Pakowagaming nor Pakowcaming.)

Pakowki; lake, southeastern Alberta. (Not Pakokee, Pak-oghkee nor Peekopec.)
    Blackfoot Indian name meaning “bad water lake.”
Pakwa; lake, Grass river, Tps. 67 and 68, R. 10, W. P. M., Man. (Not Pakwahigan, Paquehigan nor Sandy.)

Indian name meaning "chip."

Pakwahigan. See Pakwa.

Pakwash; lakes, northwest of lac Seul, discharging into English river, Patricia district, Ont. (Not Little Shallow, Paquash nor Shallow.)

Palisade; mountain, northwest of Sir Sandford range, Selkirk mountains, B.C.

Descriptive.

Paliser; mountain range, Tps. 28 and 29, R. 12, W. 5 M., Alberta; river, tributary to Kootenay river and railway station, Kicking Horse river, Kootenay district, B.C.

After Captain John Palliser (1807-87), sent by British Government, 1857, to explore British North America between lat. 49° to 50° and long. 100° to 115°.

Palmer; mount, eastern termination of Sir Sandford range, creek, tributary to Gold river, also glaciers in the Selkirk mountains, Kootenay district, B.C. (Not Novelist creek and mountain, nor West branch of Gold river.)

After Howard Palmer, who explored the locality, 1908-12.

Palmer Bar; creek; tributary to Moyie river, Kootenay district, B.C.

Pantage; lake, Telegraph trail, south of Blackwater river, Cariboo district, B.C. (Not Pelican.)

Panther; river, tributary to Red Deer river in Tp. 31, R. 10, W. 5 M., Rocky mountains, Alberta. Translation of Indian name which signifies "the river where the mountain lion was killed."

Papaonga; river, tributary to Wenasaga river, tributary to lac Seul, Patricia district, Ont. (Not Pagaonga.)

Papineau; brook and lake, Wicklow township, Hastings county, Ont.

Papineau; lake, Labelle county, Que. (Not Commandant.)

Papineau-d'Abbotsford; village, Rouville county, Que.


Paquash. See Pakwash.

Paquehigan. See Pakwa.

Paquin; lake, Tp. 61, R. 5, W. 3 M., Sask. (Not Cross.)

After Jos. Paquin, member of survey party, 1909.

Paradise; peak, south of Sloko river, Cassiar district, B.C.

Paradise. See Lodestone.

Paradise; valley, north of mount Temple, Alberta.

Descriptive.

Parisian. See Parisienne.

Parisienne (lle); island, Whitefish bay, lake Superior, Algoma district, Ont. (Not Parisian Island.)

Parizeau; point, on east coast of Digby island, Prince Rupert harbour, Coast district, B.C.

After H. D. Parizeau, assistant on hydrographic survey, 1906.

Park; mount, head of Misko creek, Tp. 27, R. 17, W. 5 M., Rocky mountains, Kootenay district, B.C.

From the "park"-like nature of the surrounding country.

Parker; island and landing, east shore of Stokes bay, Bruce county, Ont.

Parkhill; village, Williams West township, Middlesex county, Ont. (Not Park Hill.)

Parkins; cape, west entrance to Quatsino sound, Vancouver island, B.C.

Named, 1786, by Captain Hanna of the fur trading vessel "Sea Otter."

Parks; lake, 20 miles east of Pijitawabik bay, lake Nipigon, Thunder Bay district, Ont.

After Dr. W. A. Parks, geologist.

Parrott; point, Ernestown township, Lennox and Addington county, Ont. (Not Nicholson.)
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Parboro; parish, river, and town, Cumberland county, N. S.  (Not Parrsborough.)
After Vice-Admiral John Parr, governor of Nova Scotia, 1782-91.

Parry; bay, southwest of Esquimalt, Vancouver island, B. C.
After Rear-Admiral Sir William Edward Parry (1790-1855), Arctic explorer.

Parson; rock, Active pass, strait of Georgia, B. C.
Near the church in Miners bay.

Partipique. See Portapique.

Parton; river, tributary to Tatshenshini river, Alsek river, Cassiar district, B. C.
After G. F. Parton, member of British Columbia-Yukon boundary survey party, 1908.

Partridge; falls, Pigeon river, near Grand portage, international boundary, Thunder Bay district, Ont.

Partridge; pass and creek, tributary to Wheaton river, southern Yukon.
After O. H. Partridge, local mining man.

Partridge Crop. See Pineimuta.

Pas; town, Saskatchewan river, Man.  (Not Le Pas nor The Pas.)

Pasayten; river, tributary to Similkameen river, Similkameen and Yale districts, B. C.  (Not Pasayton.)

Pashashibu; bay, about 25 miles above Natashkwan, gulf of St. Lawrence, Saguenay county, Que.  (Not Pashasheeboo.)
Indian name meaning "pointed rock."

Pashkokogan; lake and river, tributary to Albany river, Thunder Bay district, Ont.  (Not Pushkogon.)

Pasiminikana; lake, near source of St. Maurice river, Champlain county, Que.

Paskagama; lake, Migiskan river, Pontiac county, Que.

Pasbekegan. See Piskahegan.

Pasquia; range of hills, Sask., also river tributary to the Saskatchewan, Sask. and Man.  (Not Basquia nor Basquian.)
Cree Indian name meaning "narrow between wooded banks."

Pass. See Blakiston.

Patauguin. See Petauguin.

Patience; lake, east of Saskatoon, Sask.

Patricia; lake, north of Jasper, Ja-per park, Alberta.

Patterson; bay and point, St. Lawrence river, Yonge township, Leeds county, Ont.  (Not Chimney Island point.)

Paudash; brook, lake and village, Cardiff township, Haliburton county, Ont.
After Captain Paudash, Indian chief; died about 1880.

Paugh; lake, Burns township, Renfrew county, Ont.
Indian name meaning "pipe."

Pauktorvik; island, southwest shore of Ungava bay, N W. T.

Paul; creek and lake, tributary to North Thompson river, north of Kamloops, Kamloops district, B. C.  (Not Reservation.)
After Paul, Indian chief.

Paul; mount, north of Maligne lake, near southeast end, Rocky mountains, Alberta.
After Paul Sharples, first white child to visit the lake.

Pawgutchewan. See Pagwachuan.

Payne; lake and river, emptying into Ungava bay, New Quebec territory, Que.  (Not Tasurak.)
After F. F. Payne, Meteorological Service, Toronto.

Payoonan. See Peonan.

Peace; hills, south of Edmonton, Alberta.
Translation of Indian name.
Peace; river, B.C. and Alberta.

After Peace point, one of the angles in its course, where the Indians were persuaded by the traders to terminate their wars and feuds.

Peach; island, outlet of lake St. Clair, Essex county, Ont. (Not isle aux Péches.)

Named before 1821.

Peak; lake, near height-of-land, southwest of Diorwic lake, Kenora district, Ont.

Pear. See Dromedary.

Pearce; mount, west side of Beaver river, between Alder and Sixmile creeks, Selkirk mountains, Kootenay district, B.C.

Pearl; island, with lightstation thereon, outside of entrance to Mahone bay, Lunenburg county, N.S.

After the Pearl family, Albert Pearl being lightkeeper, 1873-1903, and M. B. Pearl since 1903; named 1914 to avoid duplication of name “Green.”

Pearson; island, smaller of two, east of Greene island, Manitoulin district, Ont. (Not Little Grant.)

After officer in fishery protection service.

Pearson; ridge between Bridge river and Tyaughton creek, Lillooet district, B.C.

After prospector.

Pearson’s. See Ferguson.

Peashteebee. See Piashti.

Peavine; creek, tributary to Moj’ie river, Kootenay district, B.C.

Peches. See Peach.

Pebble. See Lowes.

Peck; lake, Tps. 53 and 57, R. 25, W. 3 M., Sask. (Not Little Fishing.)

After Geo. Peck, member of survey party.

Peckagomique. See Becaguimec.

Pedder; bay, south coast of Vancouver island, B.C.

Named by Captain Kellett, 1846.

Peechee; mount, south of lake Minnewanka, Rocky mountains, Alberta.

After Sir Geo. Simpson’s guide, 1841.

Pee-pee-ke-wah-be-kung. See Pipikwabi.

Peerless; lake, Tps. 87 and 88, Rs. 4 and 5, W. 5 M., Alberta. (Not Trout.)

Descriptive.

Peeshabo. See Pishabo.

Pegamasai; lake, Montgomery township, Algoma district, Ont. (Not Pegamasay.)

Peggy Cove; village, Halifax county, N.S. (Not Peggy’s Cove.)

Locally said to be named after a woman named Peggy, an early settler.

Pe-kange-kum. See Pikangikum.

Pekisko; creek, tributary to Highwood river, Bow river, Alberta. (Not Middle branch of Highwood.)

Indian name meaning “high rolling hills.”

Pelee; island and point, lake Erie, Essex county, Ont. (Not Pele nor pointe Pelee.)

Descriptive French name meaning “bare.”

Pelerin; settlement, Kent county, N.B. (Not Pelering nor Puellering.)

After a family of Acadians.
Pèlerins (Les); islands, St. Lawrence river, Kamouraska county, Que. English usage: Pilgrim.

From the number of “pilgrims” who camp there on the way to Ste. Anne-de-Beaupré from the gulf.

Pelican. See Chitek.

Pelican; lake, English river, below Minnitaki lake, Kenora district, Ont.

Named in 1872 by Dr. R. Bell, after a pelican seen on the lake. To find a pelican so far east of lake Winnipeg is very unusual.

Pelican. See Pantage.

Pelican. See Primeau.

Pelican. See Lavallée.

Pelletier; lake, Rouyn township, also creek flowing from the lake to Kekeko lake, Timiskaming county, Que. (Not Lorenzo.)

After Sir Charles Alphonse Pelletier, lieutenant governor of Quebec.

Pelly; mountains, lakes and river, Yukon.

The lakes were named by Campbell, 1840, after Sir John Henry Pelly (1772-1852), governor, Hudson’s Bay Co., 1822-52.

Pemberton; meadows, on Lillooet river, above Lillooet lake, also pass, portage and post office between Anderson and Lillooet lakes, B.C.

After Joseph Despard Pemberton, sometime surveyor general, B.C.

Pembina; mountain and river, tributary to Red river, Manitoba.

Indian name meaning “the fruit of the cranberry bush.”

Pembina; river, tributary to Athabaska river, Alberta.

See Pembina mountain.

Pembina. See Christina.

Pembroke. See Allumette.

Pemichangan; lake, Blake and Hincks townships, Ottawa county, Que. (Not Mushonga, Pemichangau, Penichangaw nor Penichangan.)

Pemonka; river, flowing into Ashunpamuchuan river in Dufferin township, Lake St. John county Que. (Not Plamorganne.)

Montagnais Indian name meaning “sandy.”

Pen; lake, Nightingale township, Haliburton county, Ont.

After lone pine tree (French, pin.)

Penassai; lake and river, northeast of Kakagi lake, Kenora district, Ont.

Indian word meaning “bird.”

Pencil; lake, Cavendish township, Peterborough county, Ont.

From a surveyor having lost his pencil in it.

Pend-d’Oreille; river, flowing into Columbia river near international boundary, Kootenay district, B.C. (Not Bitter Root, Clark, Deer Lodge, Hellgate, Missoula, Pend Oreille nor Silver Bow).

After the Kalispel (popularly known as the Pend d’Oreille) a Salish tribe.

Pender; island, southern portion of strait of Georgia, B.C.

After Captain Daniel Pender, who arrived on the Pacific coast as second master of H.M. surveying vessel “Plumper” in 1857, and carried on hydrographic work till 1870; died 1891.

Pender. See Brabant.

Pender. See Walkem.

Penetangore; river, emptying into lake Huron at Kincardine, Bruce county, Ont.

Corruption of Indian name “nahbahnahtahngah,” meaning “a stream with gravel on one side and sand on the other.”

Penetanguishene; town, Georgian bay, Simcoe county, Ont. (Not Penetang.)

Indian name meaning “the place of the white rolling sands.”
Pengelly; mount, lat. 49° 30', long. 114° 30', Alberta and B.C.

After assistant on Interprovincial Boundary survey.

Penichangan. See Penichangan.

Penitentiary; shoal, southwest of Kingston, St. Lawrence river, Frontenac county, Ont. (Not Prince Regent.)

Opposite provincial penitentiary at Kingston.

Penny. See Cumberland.

Penrose; mount, south of Bridge river, above Hurley river, Lillooet district, B.C.

After hunter from Philadelphia who ascended it.

Pentamerus; point, Crane bay, lake Manitoba, Man.

After a palaeozoic fossil, pentamerus conis, found at this point.

Pentecôte; river, flowing into the St. Lawrence about 34 miles below pointe des Monts, Saguenay county, Que. (Not Pentecost.)

Peonan; creek, tributary to Saskatchewan river, near fort à-la-Corne, Sask.

Indian name meaning "waiting place."

Peonan; point, lake Manitoba, Man. (Not Payoonan.)

Indian name meaning "waiting place," originally applied to "Cherry Island harbour."

Pepechakau. See Pipishkau.

Pepin; point, east entrance to Tuck narrows, Prince Rupert harbour, Coast district, B.C.

After George Pepin, draughtsman, Grand Trunk Pacific Ry.

Pequaket. See Pkwaket.

Perang. See Perrang.

Perault. See Perrault.

Perch; island, St. Lawrence river, Lansdowne township, Leeds county, Ont. (Not Reed.)

Percy; lake, Harburn township, Haliburton county, Ont.

Pereault. See Perrault.

Pereleshin; mountain, east of Stikine river, below Seul river, Cassiar district, B.C.

After Russian naval officer, leader of exploratory party up Stikine river, 1863.

Peribonka; river, flowing between Chicoutimi and Lake St. John counties and emptying into lake St. John, Que. (Not Peribonca.)

Indian name meaning "which makes its way across the sand."

Perkins; peak and creek, Annie lake, north of big bend of Wheaton river.

Perkins; rock, entrance to Key harbour, Parry Sound district, Ont.

After engineer on Canadian Northern Ry. survey.

Perley (rock); a mountain spur, eastern edge of icefall of Illecillewaet glacier, Selkirk mountains, Kootenay district, B.C.

After the manager of the Glacier hotel, Glacier.

Perpisiewick. See Petpeswick.

Perrang; cove, east shore of St. Margaret bay, Halifax county, N.S. (Not Perrin nor Perang.)

Named by Captain P. F. Shortland, R.N., 1864.

Perrault; lake, west of McIntyre bay, lac Seul, Kenora district, Ont. (Not Perault nor Perin.)

Perrin. See Perrang.

Perry; creek, tributary to St. Mary river, Kootenay district, B.C.

Perry; ridge, west of Sloean river, Kootenay district, B.C. (Not Perry’s.)

Perseverance; island, opposite middle of west side of Fitzwilliam island, Manitoulin district, Ont.

After gunboat "Perseverance" on Great lakes, 1822.

Persil (port au); bay, Charlevoix county, Que.
Perther's. See Perthes.

Perthes; point, Tagish lake, Yukon. (Not Perther's.)
After Justus Perthes, German geographer.

Petitsikapau. See Petitsikapau.

Petauguin; lake, Galbraith township, Algoma district, Ont. (Not Patauguin.)

Petawawa; military reserve, river, township and village, Renfrew county, Ont. (Not Petawawa.)
Named by Alexander Murray, Geological and Natural History Survey of Canada, after an Indian whose principal camping place was at the mouth of the river.

Petcoudiac. See Petitcoudiac.

Peter; rock, north shore of lake Ontario, between Cobourg and Port Hope, Northumberland county, Ont. (Not Gale island nor Gull rock.)

Peter's. See Petrie.

Peterson; lake, southeast of Cobalt, Coleman township, Timiskaming district, Ont.
After August Peterson, Swedish pioneer prospector.

Peterson; range of mountains, west of lake Laberge, Yukon.
After "Ramps" Peterson, "old timer."

Peters Road; village, Kings county, P.E.I. (Not Peter's Road.)
After James H. Peters, landowner, Charlottetown, later, assistant judge of the Supreme Court of Prince Edward island.

Petawawa. See Petawawa.

Pethick; point, Fern passage, northeast of Prince Rupert, Coast district, B.C.

Pethinue; peninsula, Great Slave lake, N.W.T. (Not Peth-the-nu-eh.)
Indian name meaning "owl island."

Petishikupau. See Petitsikapau.

Pétit. See Amory.

Petit Chicot. See Chicot.

Petitcoudiac; river, Albert and Westmorland counties, N.B. (Not Petécoudiac nor Petit Coudiac.)
Miemac Indian name meaning "the river that bends around back."

Petitdegret; inlet, island and hamlet, Richmond county, N.S. (Not Petit Degrat nor Petit de Grat.)

Petite. See Matamek.

Petite. See Walton.

Petite île aux Cygnes. See Sévigny.

Petite-Nation; river, tributary to the Ottawa, Labelle county. (Not Nation nor North Nation.)
The river traversed the hunting-grounds of the Weskarini or Petite Nation, an Algonquin tribe.

Petite Nation. See South Nation.

Petit-Rocher; village, Gloucester county, N.B. (Not Petite Roche nor Petite Rocher.)
At low tide the shore is a mass of "rocky" ledges.

Petitsikapau; lake, headwaters of Hamilton river, Ashuanipi territory, Quebec. (Not Petitsikapau, Petishikapau nor Petshikapati.)
Indian name meaning "willow-fringed."

Petpeswick; harbour, inlet, lake, and post office, Halifax county, N.S. (Not Perpisawick nor Petpiswick.)

Petrie; reef, east entrance to Sydney harbour, Cape Breton county, N.S. (Not Peter's, Petre nor Petrie's.)
After a family named Petrie which is still in the district.
**DEPARTMENT OF THE INTERIOR**

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**Petroia;** town, Enniskillen township, Lambton county, Ont. (Not Petrolea.)

After its oil product; name so spelled in act of incorporation, 17th Sept., 1873.

**Petshikapau.** See Petitsikapau.

**Peveril;** peaks, lat. 59° 33', long. 132° 36', Cassiar district, B.C.

**Peyto;** glacier and lake, head of Mistaya river, Alberta. (Not Peyto's nor Glacier lake.)

After Bill Peyto, guide.

**Pheasant;** creek and hills north of Qu'Appelle river, Sask.

Pheasant berries grow profusely on the hills.

**Phelan;** railway station, north shore of Skeena river, Coast district, B.C.

**Philip;** creek, tributary to Nation river, Parsnip river, Cariboo district, B.C.

After Philip Nation, killed at Ypres, 24 April, 1915.

**Philip;** river, emptying into Northumberland strait, Cumberland county, N.S. (Not Phillip.)

The first mention of the river is in a record in the Crown Lands office, Halifax, of a grant of land made on 2 Feb. 1787 to Moses Deslormier and children, in which the land is described as being bounded on one side by river "Philip."

**Philips;** cove, north shore of Prince Rupert harbour, Coast district, B.C.

After Henry Philips, secretary, Grand Trunk Pacific Ry.

**Philips;** point, east coast of Digby island, Prince Rupert harbour, Coast district, B.C.

See Philips cove.

**Phillip.** See Philip.

**Phillipps;** creek, flowing across the international boundary, east of Gateway, Kootenay district, B.C. (Not Phillips.)

After Michael (Michel) Phillipps, Elko, B.C., Hudson's Bay Co. clerk, Fort Shepherd, 1864: in charge of post at mouth of Wild Horse river, 1865; died 1916.

**Phillipps;** mount, lat. 49° 40', long. 114° 39', Alberta.

See Phillipps creek.

**Phillips;** shoal, entrance to Key harbour, Georgian bay, Parry Sound district, Ont.

After Wm. Phillips, general freight agent, Canadian Northern Ry.

**Philmonro;** settlement, Kings county, N.B. (Not Philmaro nor Philomaro.)

After a resident named Phil. Monro.

**Phoebé;** point, northwest point of Fitzwilliam island, Manitoulin district, Ont.

After schooner "Phoebé."

**Photograph;** mountain, head of Kitimat arm, Coast district, B.C.

**Piapot;** creek, flowing into Crane lake, southwestern Sask.

After an Indian chief, prominent in the rebellion of 1885.

**Piashti;** bay and river, flowing into the St. Lawrence, about 48 miles above Natashkwian, Saguenay county, Que. (Not Peashtee-bai, Piastre nor Peashteebee.)

**Piasstre.** See Piashti.

**Piché;** lake, Fournièvre township, Timiskaming county, Que. (Not High Water nor Kamou-kakwiti.)

After G. C. Piché, chief of forestry service of Quebec, who explored the region in 1911.

**Pichenniniss;** brook, flowing into Butler lake, south of Wabigoon lake, Kenora district, Ont.

**Pichinamei;** lake, southwest of Attawapiskat lake, Patricia district, Ont.

Indian name meaning "inland sturgeon."

**Pickering.** See Frenchman.

**Pickitigouching.** See Pikitigushi.

**Pickle;** lake, watershed of southwestern tributaries to Attawapiskat river, Patricia district, Ont.

**Pickwaket.** See Pikwaket.

**Piènic.** See Cockburn.

**Piénic.** See Stovin.
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Picture Narrows; lake, northeast of Kakagi lake, Kenora district, Ont.

Piegan; creek, flowing into Sevenpersons coulée, Alberta.

Pikangikum; river, emptying into Kempt lake, St. Maurice county, Que.

Pikatikou; river, emptying into Kempt lake, St. Maurice county, Que.

Pikawak; mountain, Tp. 24 R. 9, W. 5 M., south of Bow river, Rocky Mountains park, Alberta.

Pigeon; bay, falls, point and river, flowing into bay and forming part of international boundary, Thunder Bay district, Ont.

Pigeon; mountain, Tp. 24 R. 9, W. 5 M., south of Bow river, Rocky Mountains park, Alberta.

Pijutawikit; bay, southeast bay of lake Nipigon, Thunder Bay district, Ont. (Not Orient, Pijutawibekong, Pijutawibikong nor Pitiawibikong.)

Pijitawabikong. See Pijitawabik.

Pijuwaganissi. See Meteor.

Pijuweyan; lake and river, tributary to Waswanipi river from north, above Opawika river, Abitibi territory, Que.

Pik; peak, northeast of Lake Louise railway station, Rocky mountains, Alberta.

Pikangikum; Indian reserve and lake, Berens river, Patricia district, Ont. (Not Pe-kange-kum nor Pekangikum.)

Pikapao; river, tributary to Moisie river, Saguenay county, Que. (Not Pikapao.)

Pikauba; lake, headwaters of Chicoutimi river, Charlevoix county, Que. (Not Upikauba.)

Pike; lake and river, flowing into Atlin lake in lat. 59° 19', long. 133° 37', Cassiar district, B.C.

Pikiwigushi; river, emptying into Windigo bay, lake Nipigon, Thunder Bay district, Ont. (Not Piekigouching nor Muddy.)

Pikapao. See Pikapao.

Pikawaket; brook and mountain, Kings county, N.B. (Not Pequaket nor Pikewaket.)

Pilgrim; islands, (“The Pilgrims”) and shoal, St. Lawrence river, Kamouraska county, Que.

Pilgrims. See Pilgrims.

Pilkington; mount, north of Blueberry river, between mounts Freshfield and Wallace, Rocky mountains, Alberta and Kootenay district, B.C.

Pilsbury; cove, north shore of Prince Rupert harbour, Coast district, B.C.

Pilot; bay, Gabriola island, southeast coast of Vancouver island, B.C.

Pilot; bay and point, and Pilot Bay, settlement, east shore of Kootenay lake, opposite West arm, Kootenay district, B.C. (Not cape Horn nor Pirate bay.)

Pilot; island, east of Grenadier island, St. Lawrence river, Leeds county, Ont.
Pilot; lake, Burleigh township, Peterborough county, Ont.

Pilot; point, southeast corner of Gribbell island, Coast district, B.C.

Pimbury; point, Departure bay, Vancouver island, B.C. (Not Pinbury.)

After Edwin Pimbury, Nanaimo.

Pinched-neck; lake, Rupert river, north of Mistassini lake, Mistassini territory, Que.

Pine; island, near Key harbour, Georgian bay, Parry sound district, Ont.

Pine; lake, second one east of Saganaga lake, international boundary, Thunder Bay district, Ont. (Not Island Portage.)

Pine; point, Weller bay, opposite Bald head, Ameliasburg township, Prince Edward county, Ont.

Pine; river and bay, Crooks township, Thunder Bay district, Ont.

Pine. See Clark.

Pine. See Kapikik.

Pine. See Mermaid.

Pine. See Minago.

Pine. See Shingvawak.

Pineimuta; lake, between lake St. Martin and lake Manitoba, Man. (Not Partridge Crop.)

Indian name meaning "partridge crop."

Pine Island. See Cumberland.

Pineroot; river, emptying into Athapapuskow lake, Man.

Pine Tree; harbour and point, 15 miles southeast of cape Hurd, Bruce county, Ont.

Two pine trees formerly stood near the harbour.

Pine Wood. See Frederick.

Pingston; creek, flowing into west side of Upper Arrow lake, Kootenay district, B.C

Pink; river, flowing into Reindeer lake, Sask. (Not Vermilion.)

Pinnacle; mountain, southwest of mount Temple, Alberta.

Descriptive.

Pinnacle. See Cathedral.

Pintendre; parish, Levis county, Que.

The local name of the white pine, abundant here.

Pinto; butte and creek, flowing into Wood river in Tp. 8, R. 6, W. 3 M., Sask. (Not Pinto Horse.)

The stream is known to the Indians as Pinto (piebald) Horse creek.

Pipe (rivière à la); river, flowing into lake St. John, Taillon township, Lake St. John county, Que.

Pipe. See Oswagam.

Pipe. See Pipestone.

Pipestone; lake, East channel of Nelson river, Man.

Descriptive.

Pipestone; pass and river, tributary to Bow river, near lake Louise railway station, Rocky mountains, Alberta. (Not Pipe creek.)

Descriptive.

Pipestone. See Oswagam.

Pipikwabi; lake, Stanhope township, Haliburton county, Ont. (Not Pee-pee-ke-wah-be-kung.)

Pipishikau; river, headwaters of Manikuagan river, Saguenay county, Que. (Not Pepechekau.)

Pipmakan; lake, Chicoutimi county, Que. (Not Pipmakin nor Pitmuakan.)

Indian name meaning "spear," referring to an Indian battle.

Pirate. See Pilot.
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Pisarine. See Lorneville.

Pishabo; lake, Cassels township, Nipissing district, Ont. (Not Peeshabo.)

After an Indian canoean.

Pishidgi; lake, 3 miles southwest of Wabinosh lake, Thunder Bay district, Ont.

Piskahegan; river, tributary to Maguagadavic river, Charlotte county, N.B. (Not Paskekegan nor Piskelhagan,)

Indian name meaning "branch" of a river.

Pita; lake, Churchill river, below Reindeer river, Sask.

Corruption of Peter, name of Indian who lived near it.

Pitchpine; island, Admiralty group, St. Lawrence river, Leeds county, Ont.

Descriptive.

Pitmuakan. See Pipmakan.

Pitopiko; lake, expansion of Manuan river at its junction with St. Maurice river, Champlain county, Que. (Not Pitopieco.)

Algonquin Indian name meaning "expansion."

Pitt; creek, tributary to St. Mary river, Kootenay district, B.C.

Pitiewabikong. See Pijitawabik.

Pitts; mount, southwest of confluence of Lewes and Pelly rivers, Yukon.

Named in 1898 by J. J. McArthur, after Harold H. Pitts, Selkirk, Yukon.

Pizeau; point, north shore of the St. Lawrence, 2 miles above Quebec, Quebec county, Que.

After De Puiseaux, sieur de Montrenault, who owned it in 1637.

Pizustigwan; river, northwest of Attawapiskat lake, Patricia district, Ont.

Indian name meaning "lynx head."

Plamondon; hill and river, tributary to Harricanaw river, Abitibi territory, Que.

After mother of H. O'Sullivan, P.L.S.

Plamorganne. See Pemonka.

Plaster Core. See Balache.

Plat. See St. Ours.

Plateau; creek, flowing into Torres channel, Atlin lake, Cassiar district, B.C.

Plateau; mountain, head of Livingstone river, southern Alberta.

Pleasant; point, east point of Prince Edward county, Ont. (Not Indian.)

Descriptive.

Plover; islands, west shore of Ungava bay, N.W.T.

Plum; island, St. Lawrence river, below Verchères, Verchères county, Que. French usage: Prunes (ile aux).

Plum; lake and creek, flowing into Souris river, at Souris, Man.

Plumb. See Robinet.

Plumbbob; creek, tributary to Kootenay river, from west, above Elk river, Kootenay district, B.C.

Plumper; passage, between Discovery and Chain islands, Haro strait, B.C. (Not Discovery.)

Named by Captain Richards, R.N., when in command of the "Plumper," 1857-61.

Plumper's. See Active.

Poboktan; pass and creek, flowing from southeast into Sunwapta river, Alberta.

From the "owls" seen on the trees.

Pocahontas; village, Athabaska river, Rocky mountains, Alberta.

Named by W. H. Morris, manager of coal mine, after town in Virginia.

Pockmouche. See Pokemouche.

Pocovagamia. See Pokowaganis.

Pogamasi; lake and river, west of upper Spanish river, Sudbury district, Ont. (Not Pogamasing)
Pohenagamuk; lake and village, Pohenegamook township, Kamouraska county, Que.

- (Not Pohenagamooke nor Pohenegamook.)
  Malecite Indian name, meaning “mockery.”

Point; river, flowing into Sagemece bay, lake Winnipegosis, Man.

Point de Bute. See Pont-à-Buot.

Pointe-à-la-Garde; village, Bonaventure county, Que. (Not Pointe la Garde.)

After a guard of French soldiers stationed here, 1760, to give notice of the advance of the English fleet.

Pointe-au-Maquerneau; fishing station and Indian village, Bonaventure county, Que.

Pointe-au-Pic; village, Charlevoix county, Que.

Descriptive French name meaning “peak point.”

Pointe-aux-Trembles; shoals, north shore of St. Lawrence river, Portneuf county, Que.

Pointe-Bleue; village, on pointe Bleue, west side of lake St. John, Lake St. John county, Que.

Pointe-des-Monts; hamlet, Saguenay county, Que. (Not Pointe de Monts.)

Pointe-du-Lac; shoal and village, north shore of St. Lawrence river, St. Maurice county, Que.

Point Edward; town, entrance to St. Clair river, Lambton county, Ont.

After Prince Edward Augustus, Duke of Kent, father of Queen Victoria.

Pointe-Gatineau; village, at the mouth of Gatineau river, Ottawa county, Que. (Not Gatineau Point.)

After the river which after Nicolas Gastineau (d. about 1683) whose descendants traded on the St. Maurice river.

Pointe-Platon; settlement, Lotbinière county, Que. (Not Point Platon.)

Descriptive; platon is a corruption of “plateau.”

Point Fortune; village, Vaudreuil county, Que.

After Col. Wm. Fortune, land surveyor, grantee in 1788; known by this name since 1796.

Point Platon. See Pointe-Platon.

Point Sapin; village, Kent county, N.B.

French name meaning “fir point.”

Point Wolf; town, Albert county, N.B. (Not Point Wolfe.)

After the point, which was so called because of its fancied resemblance to a wolf.

Pokemouche; river, Gloucester county, N.B. (Not Poekmouche nor Pocmouche.)

Micmac Indian name meaning “salt water extending inward.”

Poker; creek, crossing international boundary, west of Dawson, Yukon.

Pokesudi; island, west entrance to Shippigan harbour, Gloucester county, N.B. (Not Poc Sudie, Poksudi, Pokesudie, Pokesoudie, nor Pokesoudie.)

Micmac Indian name meaning “narrow passage between rocks.”

Pokiok; river, tributary to St. John river and village, York county, N.B. (Not Pokiock nor Poquiok.)

Indian name meaning “the river that runs out through narrows.”

Pokkatawagan. See Pukkatawagan.

Pokowaganis; lake, and river tributary to Eel river, tributary to St. John river, York county, N.B. (Not Pocowaganis nor Pocowaganis.)

Indian name meaning “shallow water,” understood as having a muddy bottom.

Pollinger; mount, President range, Rocky mountains, Kootenay district, B.C.

After one of E. Whymper’s guides.

Pollux; mount, south of mount Castor, Selkirk mountains, Kootenay district, B.C.

Descriptive; twin peak.

Ponass; lake, Tp. 38, R. 14, W. 2, M., Sask.

After Indian belonging to Nut Lake Indian reserve.
Pont-à-Buot; village, Westmorland county, N.B. (Not Point de Bute nor Pointe de Bute.) French name meaning "Buot's bridge," which here crossed the Missaquash river and which figured prominently in the struggle between the French and English, 1755.

Pontax; river, emptying into James bay, Mistassini territory, Que. (Not Pontiac.)

Pontbriand; parish and village, Megantic county, Que. After Mgr. Henri-Marie Dubreuil de Pontbriand, 6th Roman Catholic bishop of Quebec; died 1760.

Pontiac. See Pontax.

Pontleroy; lake, Pontleroy township, Timiskaming county, Que. (Not Eel.) After Lieut.-Col. Pontleroy, ingénieur-en-chef du Canada during French regime 1760.

Pooh-bah; lake, Hunter island, Rainy River district, Ont. (Not Pooh-Bah.) After the character in the comic opera "Mikado."

Pool. See Poole.

Poole; creek, tributary to Birkenhead river, Lilooet district, B.C. (Not Pool.) After Thomas Poole who, with his two children, was murdered here in 1885.

Poole; island, St. Lawrence river, Escott township, Leeds county, Ont. After Robert Poole, granted a patent of the island in 1875.

Pooles Resort; summer resort on the St. Lawrence, Escott township, Leeds county, Ont. (Not Poole's Resort.) See Poole island.

Pope's; peak, lat. 51° 25', long. 116° 17', Rocky mountains, Alberta and Kootenay district, B.C. (Not Pope's nor Boundary.) After late Hon. John Henry Pope, Minister of Agriculture, 1871-73 and 1878-85; Minister of Railways and Canals, 1885-89; named by order in council, 1887.

Popham; island, Navy group, St. Lawrence river, Leeds county, Ont. After Captain Stephen Popham, R.N. (1780-1842); in the "Montreal," 22 guns, assisted at the capture of Oswego, 1814.

Poclar; creek, tributary to Larder lake, Bulkley district, B.C.

Poplar. Named in 1791, by Jose Maria Narvaez, commanding the Spanish schooner "Saturnina."

Porcupine; river, northwestern Yukon.

Portier; pass, between Galiano and Valdes islands, strait of Georgia, B.C. (Not Portier.) Named in 1791, by Jose Maria Narvaez, commanding the Spanish schooner "Saturnina."

Porphyr; creek, tributary to Bulkley river, Cassiar district, B.C. Descriptive.

Porphyry; inland, point and reef, south of Edward island, Thunder Bay district, Ont. Descriptive.

Porpoise; harbour and channel, between Lelu and Ridley islands, Coast district, B.C. 25c—14½
Portage; bay and point, west entrance to bay, Mills township, Manitoulin island, Manitoulin district, Ont.
    Descriptive.

Portage; bay, east of Peonan point, lake Manitoba, Man.
    Descriptive.

Portage; lake, east one of three small lakes west of Knife lake, international boundary, Rainy River district, Ont.

Portage. See Whitecap.

Portage-la-Prairie; town, Assiniboine river, Man.
    Descriptive French name referring to the portage across the prairie from the Assiniboine to Lake Manitoba.

Portal; peak, west of Bow lake, south of mount Thompson, Alberta
    Descriptive.

Portaripiquue; river and village, Colchester county, N.S. (Not Partipique nor Port au Pique.)
    Descriptive French name meaning "port under a hill."

Port Arthur; lakeport city, Thunder Bay district, Ont.
    The original name was Prince Arthur's Landing, proposed by Col. Wolseley on the occasion of the landing of the troops of the Red River expedition in 1870. This was in honour of Prince Arthur, Duke of Connaught, then serving with the Rifle Brigade in Montreal. In 1883, to mark the eastern end of the Canadian Pacific railway and to correspond with Port Moody, the then-accepted western end, the name was changed to Port Arthur. Incorporated as the town of Port Arthur, 1884.

Port-au-Persil; village, Charlevoix county, Que. (Not Port au Persil.)

Port-au-Saumon; village, Charlevoix county, Que. (Not Port Salmon.)
    Named by Champlain.

Port Beckerton. See Port Beckerton.

Port Bickerton; village, Guysborough county, N.S. (Not Port Beckerton.)
    After Vice-Admiral Sir Richard Bickerton (1727-92), sometime on the West Indian station.

Port Borden; port and car-ferry terminal, Northumberland Strait, P.E.I.
    After Sir R. L. Borden, Prime Minister of Canada since 1911.

Port Burwell; lightstation and village, Bayham township, Elgin county, Ont. (Not Big Otter Creek light-station.)
    Named about 1832 after Mahlon Burwell, Ontario land surveyor, who died in 1845.

Port Daniel; harbour and village, Bonaventure county, Que. (Not Port Daniel East nor St. George Port Daniel.)
    After Captain Daniel, contemporary of Champlain.

Port Darlington; harbour, at Bowmanville, Darlington township, Durham county, Ont.

Poit Ebert. See Port Hebert.

Port Elgin; town on Saugeen river, 3 miles south of Southampton, Bruce county, Ont.
    After Lord Elgin (1811-1863), Governor General of Canada, 1840-54.

Porter; lake, between Carter and McIntosh peaks, about 20 miles northeast of Atlin, Cassiar district, B.C.

Porter; landing, at outlet of Dease lake, Cassiar district, B.C. (Not Porter's.)
    After James Porter, who in the early days of Cassiar gold rush, had a trading post here; afterwards gold commissioner of the district; died in Victoria, about 1912.

Port Essington. See Essington.

Port Hebert; village, Shelburne county, N.S. (Not Port Ebert, Big Port le Bear, Big Port l'Hebert nor Port L'Hebert.)
    After Louis Hébert, De Monts' apothecary.
Port Hood; harbour, island, and seaport town, Inverness county, N.S. (Not Smith's.)
After Admiral Samuel Hood (1724-1816), appointed commander-in-chief in North America in 1767.

Port Hood Island; post office, Port Hood island, Inverness county, N.S.
See Port Hood harbour.

Portier. See Porlier.

Port Joli; village, Queens county, N.S. (Not Port Jolie.)
See Joli.

Portland; island, south of Salt spring island, southeast coast of Vancouver island, B.C.
After H.M.S. Portland, flagship of Rear Admiral Fairfax Moresby, commander-in-chief, Pacific station, 1850-53.

Port Latour; village, Shelburne county, N.S. (Not Port la Tour nor Port Letour.)
After old fort Claude de la Tour erected at this place.

Port Letour. See Port Latour.

Port Lewis; post office, Huntingdon county, Que. (Not Port Louis.)
After Joshua Lewis, merchant.

Port L'Hebert. See Port Hebert.

Port Loraine; post office and lighthouse station, Annapolis county, N.S. (Not Marshall Cove nor Port Williams.)
After Marquis of Lorne (now Duke of Argyll), Governor General of Canada, 1878-83.

Port Louis. See Port Lewis.

Port Maitland; lightstation and village, bay of Fundy, Yarmouth county, N.S. (Not Green Cove nor Maitland.)

Port Maton. See Port Mouton.

Port Medway. See Medway.

Port Morien; village, west side of Morien bay, Cape Breton county, N.S. (Not Cow Bay nor Morien Bay.)
From a sheep leaping overboard during De Monts's voyage of 1604.

Portobello; stream, emptying into French lake, Sunbury county, N.B. (Not Porto Bello nor Portobella.)
Named before 1789.

Port Salmon. See Port-de-Saunon.

Port Williams. See Port Lorne.

Possession; point, east end of Sooke inlet, south coast of Vancouver island, B.C.

Pot-à-l'eau-de-vie. See Brandyport.

Potato; lake and river, emptying into southwest portion of lac La Ronge, Sask.

Pothole; creek, tributary to St. Mary river in Tp. 21, R. 7, W. 4 M., Alberta. (Not Pot Hole.)
From appearance of a hole in the side of a hill.

Potter; point, Amelia'sburg township, Prince Edward county, Ont.

Pottersburg; village, London township, Middlesex county, Ont. (Not London Junction.)

Pouce-Coupé; river, tributary to Peace river, Alberta. (Not Echafaud.)
May be corruption of paseopee meaning "blind man," name of Indian chief.

Poulamaun; bay, Richmond county, N.S. (Not Poulaumond nor Poulamond.)
Acadian name of the "tomcod."

Poverty; lake, Monmouth township, Haliburton county, Ont.

Povoas; mountain, east of the north end of lake Laberge, Yukon.
After a Mr. Povoas.
Power; lake, close east of Anzhekumming lake, Kenora district, Ont.  
Powgulchuan.  See Pagwachuan.  
Powingow.  See Ogani.

Pratt; island and reef, entrance to Key harbour, Georgian bay, Parry Sound district, Ont.  
After terminal engineer, Canadian Northern Ry.

Prejevalsky; point, south of West arm of Bennett lake, Yukon.  (Not Prejevalski.)  
Named by Schwatka, 1883, after Russian explorer.

Presbyterian; river, tributary to Leather river, tributary to Carrot river, eastern Sask.

President; range of mountains and pass, west of Yoho valley, Rocky mountains, Kootenay district, B.C.  (Not Emerald.)  
After Lord Shaughnessy, president, Canadian Pacific Ry.

Prevost; island, west of Active pass, strait of Georgia, B.C.  

Prevost; mount, northwest of Duncan, southeast coast of Vancouver island, B.C.  
See Prevost island.

Prevost.  See Kunghit.

Priam; lake, northeast of Kakagi lake, Kenora district, Ont.  
After the Trojan king.

Price; township, Frontenac county, Que.  

Prim; point, entrance to Annapolis basin, Digby county, N.S.  (Not Rogers.)  
Name of lighthouse on the point since 1817.

Primeau; lake, expansion of Upper Churchill river, Sask.  (Not Pelican.)  
On Franklin’s map, 1823.

Primrose; lake, Alberta and Sask.  (Not Goose.)  
Surveyed on Primrose day, 19 April, 1909.

Prince Albert; peninsula, northern portion of Victoria island, N.W.T.  (Not Prince Arthur land.)  
After Prince Albert (1819-61); married Queen Victoria, 1840.

Prince Alfred; island, Brock group, St. Lawrence river, Leeds county, Ont.  
Probably after Prince Alfred, Duke of Edinburgh (1844-1900).

Prince Arthur.  See Prince Albert.

Prince Edward; bay and point, Prince Edward county, Ont.  (Not South nor South Bay.)  
After Edward Augustus, Duke of Kent and Strathearn, father of Queen Victoria.

Prince Edward.  See Peel.

Prince Henry.  See Hopes Advance.

Prince of Wales.  See Wales.
Prince of Wales; island, N.W.T.  
After Albert Edward, Prince of Wales (1841–1910), later King Edward VII.

Prince Patrick; island, N.W.T.  

Prince Regent; island, Lake Fleet group, St. Lawrence river, Leeds county, Ont.  
(Not Little Stave nor McDonald’s.) After the “Prince Regent,” 56 guns, launched at Kingston, U.C., April, 1814.

Prince Regent. See Penitentiary.

Prince Rupert; harbour and town, Kaien island, Coast district, B.C.  
Named in 1906 by the Grand Trunk Pacific Ry. Co., after Prince Rupert, first govern- 
or of the Hudson’s Bay Co.

Princess Charlotte; island, Lake Fleet group, St. Lawrence river, Leeds county, Ont.  
The “Princess Charlotte,” frigate, formed part of Sir James Yeo’s fleet in May, 1814; launched at Kingston, 14 April, 1814.

Princetown; village, Prince county, P.E.I.  
(Not Prince Town.) After Prince Edward, Duke of Kent, father of Queen Victoria, who was in command of the troops at Halifax in 1799.

Prinyer; cove, Marysburg North township, Prince Edward county, Ont.  
(Not McDonnel.)

Pritzler; harbour, Hudson strait, N.W.T.  
(Not Pritzler’s nor Jackman sound.)

Privateer; mountain, Tp. 25, R. 32, W. 5 M., Rocky mountains, Kootenay district, B.C.

Procter; creek and village, west side of Kootenay lake, Kootenay district, B.C.  
(Not Proctor.) After Thomas G. Procter, Nelson.

Promise; island, at entrance to Douglas channel, Coast district, B.C.

Prophet; river, flowing from south into Muskwa river, Fort Nelson river, Peace River district, B.C.  
Translation of Indian name.

Protection; island, east of Nanaimo harbour, Vancouver island, B.C.  
(Not Douglas.) Descriptive.

Protection; mountain, Tp. 28, R. 15, W. 5 M., east of Baker creek, Rocky mountains, Alberta.  
Descriptive.

Protectionville. See Maple Glen.

Proud-sitting; lake, headwaters of St. Maurice river, Champlain county, Que.

Providence; bay and point, Carnarvon township, south shore of Manitoulin island, Manitoulin district, Ont.

Provided; settlement and Hudson’s Bay Co. post, Mackenzie river, below the outlet of Great Slave lake, N.W.T.  
(Not Fort Providence.) Expressive of the trust felt in building the post.

Provoking; lake, Canisbay township, Algonquin National park, Nipissing district, Ont.

Pruden; bay, south end of lake Winnipeg, Manitoba.  
(Not Pruden’s.)

Prud’homme; lake, west of Lorrain township, Timiskaming district, Ont.

Prud’homme; lake, Blake township, Labelle county, Que.  
(Not Prudhomme.)

Prunes (île aux); island, St. Lawrence river, below Verchères, Verchères county, Que.  
English usage: Plum.

Psyche; island, Lake Fleet group, St. Lawrence river, Leeds county, Ont.  
After the “Psyche;” on lake Ontario during war of 1812-14; her frames were sent out from England; launched at Kingston, 25 Dec., 1814.

Ptarmigan; creek, flowing into large lake of Pelly group, Yukon.  
Descriptive name given by the late Warburton Pike, 1893.
Ptarmigan; peak and lake, Tp. 29, R. 15, W. 5 M., west of Baker creek, Rocky mountains, Alberta.
  Frequented by ptarmigan.

Ptarmigan. See Titkana.

Ptolemy; mount, lat. 49° 33', long. 114° 38', and pass, lat. 49° 33', long. 114° 41', Alberta and Kootenay district, B.C.; also creek flowing from mountain into Crowsnest creek, Alberta.
  The peak resembles a man sitting with arms folded.

Puce; hamlet, Maidstone township, Essex county, Ont.
  See Puces river.

Puces (rivière aux); river, flowing into lake St. Clair, Essex county, Ont.
  French name meaning "insects."

Pudding; burn, tributary to St. Mary river, Kootenay district, B.C.

Puellering. See Pelerin.

Pugh; peak, long. 60° 17', lat. 135° 06', Yukon.


Pukkatawagan; river and lake, Churchill river, Man. (Not Pokkattawagan nor Puk-a-taw-gan.)
  Indian name meaning "fishing with a net."

Pulpit; peak, Tp. 30, R. 17, W. 5 M., south of Hector lake, Rocky mountains, Alberta.
  Descriptive.

Pulpwood; point, east of Smith point, southwest coast of Cockburn island, Manitoulin district, Ont.
  Descriptive.

Pulsatilla; mountain, Tp. 28, Rs. 14 and 15, W. 5 M., Rocky mountains, Alberta.
  After flower.

Pulteney; point, southwest point of Malcolm island, entrance to Broughton strait, Coast district, B.C. The lighthouse established in 1905 is on this point.
  After Admiral Sir Pulteney Malcolm (1778-1838.)

Pulton; bay and point, north coast of Quadra island, Coast district, B.C.
  After lumberman.

Punichuan; bay, southwest bay of Mistassini lake, Mistassini territory, Que.
  Indian name meaning "where the current stops."

Punk; island, 3 miles southeast of Grindstone point, lake Winnipeg, Man. (Not Deer nor Reindeer.)

Punk. See Deer.

Purden; lake, east of the bend of Bowron river, Cariboo district, B.C. (Not Great Bear.)
  After H. Purden-Bell, Canadian Pacific Ry. engineer, who made surveys in the district, 1875.

Purity; mountain and glacier, head of Van Horne and Battle creeks, Selkirk mountains, Kootenay district, B.C. (Not Lardo glacier.)
  Descriptive.

Purvis; bank, northwest of Greene island, Manitoulin district, Ont.
  After lighthouse, Great Duck island.

Puskitamika; lake, O'Sullivan river, tributary to Waswanipi river, Abitibi territory, Que.
  Algonguin Indian word meaning "highland."

Puslinch; lake, village and township, Wellington county, Ont. (Not Schaw.)
  After the place in Devonshire where Sir John Colborne, Lieut. governor of Upper Canada, 1829-35, married.

Pyramid; creek, tributary to St. Mary river, Kootenay district, B.C.

Pyramid; mountain, east of Wheaton river, about 6½ miles above its mouth, Yukon.
Pyramid; mountain, north-northeast of Jasper and lake southeast of mountain, Jasper park, Alberta. 
Descriptive; name on Palliser Expedition map, 1865.

Q

Quaco; bay, head, ledge and shoal, St. John county, N.B. 
Indian name meaning “point of rock resembling a human head and neck.” 

Quaco. See St. Martins.

Quadacha. See Kwadacha.

Quadra; hill, Galliano island, strait of Georgia, B.C. 
After Juan Francisco de la Bodega Quadra, Spanish naval officer, who made exploratory excursions along the coast of British Columbia and Alaska in 1775 and 1779; died 1794.

Quadra; island, between Vancouver island and the mainland, Coast district, B.C. The southern portion of what was formerly Valdes island. 
See Quadra hill.

Quamichan; lake and river, tributary to Cowichan river, Vancouver island, B.C. 

Quaneca. See Kwadacha.

Qu'Appelle; lake, expansion of Qu'Appelle river, highest of the Fishing lakes, Sask. (Not Upper Fishing.) 
See Katepwe.

Qu'Appelle; river, tributary to Assiniboine river, Sask. and Man.; also town, Sask. 
See Katepwe.

Quarry; point, Manitoulin island, 1 mile east of Greene island, Manitoulin district, Ont. 
Descriptive.

Quarry. See Forsyth.

Quartet; lakes, near international boundary, Yale district, B.C. 

Quatwamkedgewick. See Kedgwick.

Quebec; head, northeast end of Wolfe island, St. Lawrence river, Frontenac county, Ont. (Not East point.) 

Queen; point, forming western boundary of Walkhouse bay, Manitoulin island, Ont. 
After tug "Queen".

Queen Elizabeth; foreland, southeast point of Loks land, Frobisher bay, Baffin island, N.W.T. (Not North.) 
Named by Frobisher, 1576, after Queen Elizabeth.

Queensport; harbour, Chedabucto bay, Guysborough county, N.S. (Not Queen's Port nor Crow.) 
Named after Queen Victoria in 1897, being Diamond Jubilee year.

Queenston; village and heights, Niagara township, Lincoln county, Ont. (Not Queenstown.) 
After Charlotte Sophia (1744-1818), wife of George III.

Quenotte. See Cugnet.

Quesnel; lake, mining division, river and village, Cariboo district, B.C. (Not Quesnell.) 
The river was named by Simon Fraser after Jules Maurice Quesnel, North West Co. clerk who accompanied him when he descended the Fraser river in 1808.

Quetachoo; bay, east of Pinasti bay, Saguenay county, Que. (Not Quetachoo.) 
Indian name meaning “it discharges itself.”

Quiet; lake, Big Salmon river, Lewes river, Yukon. 
Descriptive.

Quill; lakes, southern Sask. (Not Big Quill and Little Quill.) 
From the number of wild fowl that moult here.
Quintsa. See Kwinita.

Quinte; bay of, lake Ontario, almost separating Prince Edward county from the mainland of Ontario. (Not Quint.)

Indian name meaning “meadow.”

Quintino Sella; glacier, crossing international boundary from east, lat. 60° 36’, and flowing south to Columbus glacier, Yukon and Alaska.

Named by Duke of the Abruzzi, 1907 expedition, after “the illustrious pioneer of Italian Alpinism.”

Quinze; (lae des); lake, expansion of upper Ottawa river, Timiskaming county, Que.

From the “fifteen” rapids in it.

Quio. See Quyon.

Quispansis; village, Kings county, N.B. (Not Quispansis.)

Named by railway officials; meaning “little lake.”

Quiock. See Kwoiek.

Quyon; village and river, Onslow township, Pontiac county, Que. (Not Quio).

R

Rabbit; mountain and river, east of Lake Evans, Abitibi territory, Que.

Rabbit; mountain, Scoble and Paiponge townships, Thunder Bay district, Ont.

Rabbit; mount and creek, flowing into Tulameen river from north, Yale district, B.C.

After Thomas Rabbitt, rancher.

Race; passage and rocks opposite south point of Vancouver island, B.C. (Not Race islands.)

Descriptive of tide-rips.

Rae; mount, Misty range, east of Kananaskis lakes, Alberta.

After Dr. John Rae, Arctic explorer; discovered fate of Franklin’s expedition.

Raft; narrows, north of Hill island, St. Lawrence river, Leeds county, Ont.

Ragged; bight, 2 miles northeast of cape Hurd, Bruce county, Ont.

Ragged; lake, Peck township, Algonquin National park, Nipissing district, Ont.

From its irregular shape.

Ragged; mountain, east of Sooke river, South coast of Vancouver island, B.C. (Not Saddle.)

Ragged. See Locke.

Ragged Island. See Lockeport.

Rainy; creek, tributary to Elbow river, Alberta.

Rainy; creek, tributary to Moyie river, Kootenay district, B.C.

Rainy; lake and river, international boundary, Rainy River district, Ont.

The river takes its name from the lake which appears on early maps as "Tekamamoaun," (written "Tekamamihouenne" by Verendrye, 1738), and also as lac la Pluie, probably derived from the Indian name which means "it is raining all the time," and refers to the spray from the Koochiching falls at the outlet. "Rainy is not a corruption of René, "name of its discoverer," nor of Reine, "queen of waters."

Rainy Hollow; mineral section, Klehini river, Cassiar district, B.C.

Raisin; river, Stormont and Glengarry counties, Ont. (Not Black, au Raisin nor aux Raisins) tributary to the St. Lawrence.

From the wild "grapes" on its banks.

Raley; point, north of Clio bay, Kitimat arm, Coast district, B.C.

After Rev. George Henry Raley, who took charge in 1893 of the Methodist mission at Kitimat.

Ram; creek, flowing from southwest into North Saskatchewan river, Alberta. (Not Sheep.)

Name on David Thompson’s map, 1813-14.

Ramsay; river, emptying into Crooks inlet, Hudson strait, N.W.T.
Ramsden; island, Lake Fleet group, St. Lawrence river, Leeds county, Ont. Probably after Jesse Ramsden, (1735-1800), an English manufacturer of scientific instruments.

Ranch; point, Nanoose harbour, east coast of Vancouver island, B.C. Descriptive.

Randolph; lake, west of Jojo lake, Whitesand river, Thunder Bay district.

Rapide-de-Femme; village, Victoria county, N.B. (Not Rapid de Femme nor Rapide des Femmes.) From the “rapid” here having been ascended by a “woman.”

Randalls; point, Nanadimkum harbour, east coast of Vancouver island, B.C. Descriptive.

Rapide; river, Vaudreuil county, Que.

Rat; lake, between South lake and Rose lake, international boundary, Thunder Bay district, Ont.

Rat. See Alcott.

Rat. See Taggart.

Rathbun; bay, 5½ miles southeast of Providence point and point, west of bay, Manitoulin island, Manitoulin district, Ont. After Rathbun Co., owners of timber limits.

Rat Portage. See Kenora.

Rat Portage. See Manigotagan.

Rattlesnake. See Bagot.

Ravelin; mountain, northwest of mount Sir Sandford, Selkirk mountains, Kootenay district, B.C. Descriptive.

Raven; lake and river, McFadden township, Timiskaming district, Ont.

Raven; river, tributary to Red Deer river, above Medicine river, Alberta. Translation of Cree Indian name.

Rawson; island and harbour, north shore of Hudson strait, N.W.T. (Not Harbour island.) Named 1897, after Admiral Sir H. H. Rawson, K.C.B.

Raymond; passage, south from Seaforth channel, Coast district, B.C. (Not Hecate channel.) After Captain Raymond, skipper of an American trading brig, which arrived at fort McLoughlin (now, Bellabella) from sea by this channel.

Reader; lake, northwest of Pas, Man. (Not Clear Water nor Reeder.) After Reader family, settlers.

Reception; lake, Grasett township, Algoma district, Ont. (Not Kaikaquabick.)

Red; bay, 7 miles north of Chief’s point, Bruce county, Ont. From a large red stone on the beach.

Red; lake, English river basin, northwest of lac Seul, Patricia district, Ont. (Not Vermilion.)

Red. See Mackay.

Red. See Mikkwa.

Redan; mountain, northwest of Sir Sandford range, Selkirk mountains, Kootenay district, B.C. Descriptive.

Redberry; lake, southwest of Prince Albert, Sask.
Redburn; peak and creek, tributary to Blaeberry river from southeast, Rocky mountains, Kootenay district, B.C.

From red rocks in valley of the stream.

Red Dan; reef, southeast of Birch point, 2 miles west of South Baymouth, Manitoulin island, Manitoulin district, Ont.

After South Baymouth fisherman.

Red Deer; lake and river, emptying into lake Winnipegosis, Man.

Translation of Indian name.

Red Deer; town and river, southern Alberta.

Translation of Indian name.

Red Deer lakes. See Anerley, Coteau and Stockwell.

Red Deer. See La Biche.

Red Deer. See Waskeisiu.

Redding; creek, tributary to St. Mary river, Kootenay district, B.C.

Redflag; mountain, east of Sooke basin, south coast of Vancouver island, B.C.

Redhorse; rock and lighthouse, west of Beaurivage island, Admiralty group, St. Lawrence river, Leeds county, Ont. (Not 7a.)

Rednersville; village, Ameliasburg township, Prince Edward county, Ont.

After Henry Redner (1769-1852), farmer.

Redoubt; lake and mountain, northeast of Lake Louise railway station, Rocky mountains, Alberta.

Descriptive.

Redstone; brook and lake, Guilford township, Haliburton county, Ont.

Redwater; river, tributary to the North-Saskatchewan, Alberta. (Not Red Water.)

Reed; lake, near head of Grass river, Man.

Translation of Indian name.

Reed. See Perch.

Reeder. See Reader.

Reef. See Bonnet.

Reed. See Reid.

Reesor; lake, Whitchurch township, York county, Ont. (Not Middletons.)

After Peter Reesor, immigrant from Pennsylvania; in 1839 was owner of land which included part of the lake.

Reeves; harbour, Big island, Hudson strait, N.W.T.

Named by Dr. R. Bell, 1897, after Capt. Reeves, "who sailed my yacht when surveying the north shore of Hudson strait."

Refuge; cove, east of Shipwreck point, Kings county, P.E.I. (Not Naufrage.)

Descriptive.

Refuge. See Conran.

Refugee. See Stovin.

Reid; island, Trincomali channel, southeast coast of Vancouver island, B.C.

After Captain James Murray Reid (1802-1868), Hudson's Bay Co.

Reid; mount, between Watson and Wheaton rivers, southern Yukon.

After Percy Reid, sometime mining recorder, Conrad mining division.

Reid; mount, southeast of lake Evans, Abitibi territory, Que.

Reid: point, 6 miles north of Chiefs point, Bruce county, Ont.

After settler.
Reid; rock, south of George island, Halifax harbour, Halifax county, N.S. (Not Reed.)

In 1752, a "Solomon Reed" was living in the south suburbs of Halifax, and as the rock is a very short distance from the south end of the town, it is possible this Reed or Reid owned the adjoining land; Bayfield's spelling, 1852-53 is Reed.

Reid Mills; hamlet, Mountain township, Dundas county, Ont. (Not Reid's Mills.)

Reindeer; creek, tributary to Yukon river above Indian river, Yukon.

Reindeer; lake, and river emptying into Churchill river, Man. and Sask.

Translation of Indian name.

Remic; rapids, Ottawa river, Carleton county, Ont. and Ottawa county, Que. (Not Remicks, Remix nor Remous.)

After Isaac Remic, grantee, in 1806, of lot 9, range 3, township of Hull, Ottawa county, Quebec.

Remous. See Remic.

Renny; island, St. Lawrence river, Yonge township, Leeds county, Ont. (Not Bush.)

So named on Captain W. F. Owen's chart, 1818.

Renò; creek, tributary to Duncan river from east, Kootenay district, B.C.

Rent. See Bent.

Reservation. See Paul.

Reserve; point, Active pass, strait of Georgia, B.C.

The extreme limit of the Indian Reserve.

Resolution; island, entrance to Hudson strait, N.W.T. (Not Tujakdjuan.)

Probably named by Button after his ship, 1612.

Resolution. See Warwick.

Resolution; settlement and Hudson's Bay Co. post, Great Slave lake, near the mouth of Slave river, N.W.T. (Not Fort Resolution.)

Suggestive of hardships overcome in establishing the post.

Rent. See Dufay.

Restigouche; county and river, northern New Brunswick. (Not Restigouche.)

Rev. Father Pacifique derives the name of the river from the Indian "elistegei," to struggle.

Restigouche. See Restigouche.

Retreat; cove, Galiano island, Trincomali channel, southeast coast of Vancouver island, B.C.

Revelstoke; mount and town, Kootenay district, B.C.

After the first Lord Revelstoke, head of the British banking firm of Baring Bros., whose taking over of $15,000,000 of the first bond issue of the Canadian Pacific Ry. was an important event in its financial history; name first applied to Canadian Pacific Ry. station.

Rex; peak, Shulaps mountain, Lillooet district, B.C.

Rexton; town, Kent county, N.B. (Not Kingston.)

Prior to 1901 known as Kingston; name changed to Rexton, to avoid confusion with other Kingstons.

Riall; island, Brock group, St. Lawrence river, Leeds county, Ont. (Not Millar's nor Smith's.)


Rib; lake, north of Cassels township, Nipissing district, Ont.

Ribbon; river, flowing into St. Maurice river, through Pitopiko lake, Champlain county, Que. (Not Ruban.)

Descriptive of its narrowness.

Ribstone; creek, tributary to Battle river, Alberta. (Not Nose.)

Translation of Indian name; a large stone bears marks resembling a man's ribs.

Rice. See Muldrew.
Rich; island, Navy group, St. Lawrence river, Leeds county, Ont.
After Captain Charles Rich, R.N., appointed, 24 March, 1815, to command of gunboats on the St. Lawrence.

Richard; point, Nansoos harbour, east coast of Vancouver island, B.C.
After Richard Pateman Wallis, owner of Notch Hill peninsula, at time of Admiralty survey.

Richard; point, north of the narrows, lake Manitoba, Man.
After surveyor's French canoe man named Richard.

Richards; mount, lat. 49° 01', long. 113° 56', Alberta.
After Capt. (late Admiral) G. H. Richards, R.N. second commissioner, British Boundary Commission, Pacific to the Rockies; made hydrographic surveys of British Columbia coast, 1856-63.

Richards; mount, southwest of Osborn bay, Stuart channel, southeast coast of Vancouver island, B.C.
See Richards' mount.

Richardson; lake, also river, emptying into the Athabaska near its mouth, Alberta. (Not Jackfish.)
After member of survey party.

Richardson; mount, northeast of Lake Louise railway station, Rocky mountains, Alberta.
After Sir John Richardson (1757-1866), surgeon and naturalist.

Richelieu; county, and river, Que.

Richelieu; islet and rapid, St. Lawrence river, Lotbinière county, Que.

Richelieu; village, Richelieu river, Rouville county, Que. (Not Village Richelieu.)
After Armand Jean du Plessis, Cardinal and Duc de Richelieu (1585-1642.)

Richmond; gulf, Hudson bay, New Quebec territory, Que.

Richmond; village, Carleton county, N.B. (Not Richmond Corner.)
The early settlers came from Richmond, New York.

Richmond. See Malpeque.

Richmond. See New Richmond.

Richthofen; island and valley, lake Laberge, Yukon. (Not Richtofen.)
After Freihern von Richthofen, Leipzig, German geographer.

Rickett; harbour, east coast of Cockburn island, Manitoulin district, Ont.

Rickley; harbour, Manitoulin island, north of Western Duck island, Manitoulin district, Ont.

Riddell; mount, between Macmillan and Ross rivers, also river tributary to Macmillan river, Yukon.

After R. B. Riddell, trapper.

Riddell; mount and creek, flowing into Otter lake, north of Tulameen, Yale district, B.C.
After rancher.

Rider; mount, about 6 miles northeast of Fraser river, opposite Goat river, Cariboo district, B.C.
After Sir Rider Haggard, who travelled from Vancouver to Edmonton by the Grand Trunk Pacific Ry. which the mountain overlooks, July, 1916.

Ridgeway; creek, tributary to Moyie river, Kootenay district, B.C.

Riding; mountain, southwestern Man.

Ridley; island, south of Kaien island, Chatham sound, Coast district, B.C. (Not Flat nor North Porpoise.)
After Right Rey. William Ridley, D.D., first bishop of the diocese of Caledonia, 1879.

Rigaud; river, tributary to Ottawa river, Glengarry and Prescott counties, Ont., and Vaudreuil county, Que. (Not rivière à la Graisse.)
After Pierre François Rigaud and Pierre Rigaud, sons of the Marquis of Vaudreuil, granted the seigniory of Rigaud, 1732; name suggested by G. Boyer, M.P., in 1905.
Right Hand branch of Tobique. See Campbell.

Rigolet; settlement, narrows of Hamilton inlet, New Quebec territory, Que. (Not Rigoulette.)

Riley; brook, tributary to Tobique river, Victoria county, N.B.

Rind; after an early millowner.

Rinda; spur, Valhalla mountains, west of Slocan lake, Kootenay district, B.C.

After Rind, in Norse mythology, one of the wives of Odin, personifying the crust of the earth.

Ringnes; islands, southwest of Axel Heiberg island, N.W.T.

After Ringnes Bros., patrons of the Sverdrup expedition, 1898-1902.

Rink; rapid, Lewes river, below Tatchun river, Yukon.

Riordan; point, Boxer reach, Coast district, B.C.


Rip; point, Active pass, strait of Georgia, B.C.

From the tide-rips usually prevailing on the shoal off this point.

Ripple; reef, off west point of Lyal island, Stokes bay, Bruce county, Ont.

Riske; creek, tributary to Fraser river from west, above Chilcotin river, Cariboo and Lillooet district, B.C.

After prospector.

Restigouche. See Restigouche.

Restigouche; township, Bonaventure county, Que. (Not Restigouche.)

See Restigouche.

Ritchie; point, north point of Kaien island, Coast district, B.C. (Not Hays.)

After Joseph Frederick Ritchie, who made the first survey of Kaien island, 1903-04.

River. See Lewes.

River Dennis. See River Denys.

River Denys; post office, Inverness county, N.S. (Not River Dennis.)

See Denys river.

River Denys Road; post office, Inverness county, N.S.

River Denys Station; post office, Inverness county, N.S.

River John; village, Pictou county, N.S.

Rivers; lake of the, south of Moosejaw, Sask.

Descriptive; there are springs on the shore.

Rivière-à-la-Martre; village, also light, signal and telegraph station, Christie township, Gaspe county, Que. (Not Martin River nor Rivière à la Marte.)

Rivière-à-Pierre; parish and village, Portneuf county, Que. (Not Rivière à Pierre.)

Rivière-des-Caches; village, Northumberland county, N.B. (Not River de Cache nor Rivière du Cache.)

Tradition derives the name of the river Cache from its supposed use as a hiding place at the time of the expulsion of the Acadians.

Rivière-des-Chutes; village, Carleton county, N.B. (Not River de Chute.)

From the falls on a small stream that empties into St. John river at this place.

Rivière-des-Fèves; hamlet, Chateauguay county, Que. (Not Rivière des Fèves.)

See Fèves.

Rivière-des-Prairies; village, Laval county, Que. (Not Rivière des Prairies.)

See des Prairies river.

Rivière-du-Loup; town, Temiscouata county, Que. Official name Fraserville.

Rixon; rock, north entrance to Tobermory harbour, entrance to Georgian bay, Bruce county, Ont.

After member of Maitland, Rixon & Co., Owen Sound.
Roach. See Roche.

Roaring; river, flowing into Swan river in Tp. 37, R. 26, W. P. M., Man. (Not Rolling.)

Roberson; point, northshore of Venne passage, Coast district, B.C.

After H. L. Roberson, employee of Grand Trunk Pacific Ry. at time of survey; now in charge of mine sweeper in the North sea.

Robert; island, west of Peel island, St. Lawrence river, Yonge township, Leeds county, Ont. (Not Cherry nor Sumac.)

After Sir Robert Peel (1788-1850).

Robert; lake, Marten river, Mistassini territory, Que.

Robert; point, Markham bay, Hudson strait, N.W.T.

Roberts; bay, southeast corner of South bay, Manitoulin island, Manitoulin district, Ont.

After Field Marshal Lord Roberts (1832-1914).

Robertson; cove 1½ miles north of Lizard islands, Lake Superior, Algoma district, Ont. (Not Jackson.)

Robertson; creek, draining into Little Slocan river, Kootenay district, B.C.

Robertson; lakes, Privat township, Timiskaming county, Que.

After district engineer, Transcontinental railway.

Robertson; mount, east of Stikine river, north of Iskut river, Cassiar district, B.C.

Robertson; village, Thetford township, Megantic county, Que. (Not Robertson Station.)

After Hon. J. G. Robertson, Provincial treasurer of Quebec, 1869-87, and president, Quebec Central railway.

Robinet; island, St. Lawrence river, opposite Repentigny, L'Assomption county, Que. (Not Plumb.)

Robinson; cove, north of Big island, bay of Quinte, Prince Edward county, Ont.

Robinson; island, St. Lawrence river, Yonge township, Leeds county, Ont. (Not Raspberry.)

Robinson; lake and river, east of Ombabika river, Thunder Bay district, Ont.

Robinson; sound; north of Cumberland Sound, Baffin island, N.W.T. (Not Robinson's.) Named by Hall, 1882, after Capt. Henry Robinson, Newbury, N.Y.

Robson; mount, headwaters of Fraser river, Cassiar district, B.C.


Robson; pass, north of Mount Robson, Rocky mountains, Alberta and Cassiar district, B.C.

See Robson mount.

Robson; town, Columbia river, Kootenay district, B.C.

After John Robson, premier of B.C.

Roche; lake, Tp. 17, R. 16, W. 6 M., Kamloops district, B.C. (Not Roach.)

Roche; mount, lat. 49° 13', long. 114° 01', Alberta.

After Lt. Roche, R. N., British Boundary Commission, Pacific to the Rockies.

Rochelle; hamlet, Stukely township, Shefford county, Que. (Not Ste. Anne-de-Stukely.)

Roche-Perceé; railway station, Souris river, southeastern Sask. (Not Roche Percé.) Descriptive French name, meaning "pierced rock."

Roche-Perceé; reef, St. Lawrence river, opposite Cacouna, Timesiscouata county, Que.

Rocher. See Talton.

Rocher Déboulé; mountains, Hazelton, Cassiar district, B.C. (Not Rochers Déboulés.)

From the Rocher Déboulé (fallen rock) eaton on the Bulkley river; the legend is that the salmon formerly went a long way up the Bulkley, but that this rock, falling into the river, blocked the passage of the salmon, as it does to-day.

Rochers (pointe des); point, at cape Salmon, Charlevoix county, Que.

Roches (lac des); lake, head of Nehalliston creek, tributary to North Thompson river, Kamloops and Lillooet districts, B.C.
Rock; lake, Nightingale township, Haliburton county, Ont.
Rock. See Lazy.
Rock. See Taltson.
Rockcliffe; police village, Gloucester township, Carleton county, Ont. (Not Rockcliffe.)
Descriptive.
Rockcliffe. See Stonediff.
Rocksprings; post office, Elizabethtown township, Leeds county, Ont. (Not Rocksprings.)
Descriptive.
Rocky; river, tributary to Athabaska river from southeast, below Jasper lake, Jasper park, Alberta.
Rocky. See Descanso.
Rocky. See Opabin.
Rocky. See Tinson.
Roes Welcome; sound, northwestern portion of Hudson bay, N.W.T. (Not Rowe's Welcome nor Sir Thomas Rowe's Welcome.)
After Sir Thomas Roe (1580-1644).
Corruption of Indian name meaning “fishing weir.”
Roger; lake, northwest of Expanse lake, Timiskaming county, Que. (Not Rogers.)
After settler.
Rogers; glacier, pass and peak, western and highest peak of Hermit range, Selkirk mountains, Kootenay district, B.C.
After Albert B. Rogers (1829-89), who, in 1883 explored the pass that bears his name and by which the Canadian Pacific Ry. crosses the Selkirk mountains.
Rogers. See Prim.
Rogersville; parish, Northumberland county, N.B. (Not Rogerville.)
After Bishop Rogers of Chatham.
Roggan; river, emptying into James bay, New Quebec territory, Que. (Not Bishop Roggan nor Great Bishop Roggan.)
Rogue; river, tributary to Hess river, Stewart river, Yukon.
Rolleston; island, north of Grenadier island, St. Lawrence river, Escott township, Leeds county, Ont.
After Lieut. James Rolleston, R.N., who served in the “Perseus” in Mediterranean, Newfoundland, Halifax, etc., 1813-16.
Rolling. See Roaring.
Rollingdam; village, Charlotte county, N.B. (Not Rolling Dam.)
After a dam.
Romaine; river, flowing into the St. Lawrence, opposite Mingan islands, Saguenay county, Que.
Corrupted form of the Indian name Oloman meaning “paint.”
Rond (cap); cape, east end of Madame island, Richmond county, N.S. (Not La Ronde nor Round.)
Rondeau; harbour and village, lake Erie, Kent county, Ont. (Not Rond Eau.)
Form the “circular” form of the harbour.
Root; river, flowing southwesterly into lac Seul, Kenora and Patricia districts, Ont.
Root. See Carrot.
Rory; creek, tributary to Howser creek, Kootenay district, B.C.
Rosamond; lake, Wauchope township, Kenora district, Ont. (Not Rosamund.)
Rose; island, St. Lawrence river, Yonge township, Leeds county, Ont. (Not Grape nor Grass.)
On Captain W. F. Owen’s chart, 1818.
Rose; lake and river, headwaters of Nisutlin river, Yukon.
   After miner.
Rose; lake, international boundary, Thunder Bay district, Ont. (Not Mud.)
   May have been originally Roseau (Reed) lake.
Rose; pass, head of St. Mary river, Kootenay district, B.C.
Roseau; river, flowing into Red Deer river from southeast, Man.
Rosebud; creek, tributary to Stewart river, Yukon.
Rosebud; river, tributary to Red Deer river, Alberta. (Not Arrowhead.)
   Descriptive.
Rosenfeld; rock, northeast of East point, Saturna island, strait of Georgia, B.C. (Not Rosen- 
   felt.)
   The ship "John Rosenfeld" was totally wrecked on the rock, 1886.
Roseville; village, Prince county, P.E.I. (Not Little nor South Miminigash nor Minimegash.)
   Descriptive.
Rosiers (cap des); cape north of cape Gaspé, Gaspé county, Que. (Not Rosier.)
   After wild rose bushes on the shore; on Champlain map, 1632.
Ross; creek, flowing into South Saskatchewan river at Medicine Hat, Alberta.
Ross; island, between East and West channels, Nelson river, Man.
   After Alexander Ross, Hudson's Bay Co., for some time in charge of Norway House; later, first sheriff of Red River settlement; died 1856.
Ross; isthmus and peninsula, northwest portion of Franklin isthmus, N.W.T. (Not James 
   Ross.)
   After Rear Admiral Sir John Ross (1777-1856).
Ross; lake, south of Stephen railway station, Kootenay district, B.C.
Ross; lake, Wauchope township, Kenora district, Ont.
Ross; peak, west side of Loop brook at confluence with Illecillewaet river, Selkirk mountains, 
   Kootenay district, B.C.
   After Sir James Ross, Montreal, superintendent of construction, Canadian Pacific Ry.,
   1884.
Ross; river, tributary to Pelly river, Yukon.
   Named by R. Campbell, 1843, after Donald Ross, chief factor, Hudson's Bay Co.
Rossmore; village, Ameliasburg township, Prince Edward county, Ont.
Rouge; lake, Wolfe township, Terrebonne county, Que.
Rouge; river, flowing into lake Ontario, Ontario and York counties, Ont. (Not Big Rouge.)
   The river cut through a hill of "red" clay.
Rough; island, St. Lawrence river, Yonge township, Leeds county, Ont. (Not Hamilton nor- 
   Little.)
Rougie. See Salisbury.
Round; lake, Qu'Appelle river, Sask.
   Probably descriptive.
Round. See Felice.
Round. See Francis.
Round. See Campbell.
Round. See Ghost.
Round. See Joubert.
Round. See Lacroix.
Round. See Rond.
Round. See Skelton.
Rousseau. See Arosen.
Rousselet; island, north end of lake Timiskaming, Timiskaming district, Ont.

Roussin. See Arosen.

Rouville. See St. Hilaire.

Rouyn; lake, Rouyn township, Timiskaming county, Que. (Not Stewart.)

After de Rouyn, Croix de St. Louis, régiment de Royal-Roussillon, New France, 1759.

Route; lake, east of Kakagi lake, Kenora district, Ont.

Routhier; lake, Rouyn township, Timiskaming county, Que. (Not Stewart.)

After de Rouyn, Croix de St. Louis, régiment de Royal-Roussillon, New France, 1759.

 route; lake, east of Kakagi lake, Kenora district, Ont.

Routhier; lake, Rouyn township, Timiskaming county, Que. (Not Stewart.)

After Sir A. B. Routhier, president, Admiralty Court of Quebec.

Rove. See Watap.

Rowan; lake, northeast of Kakagi lake, Kenora district, Ont.

Rowe; island, Lizard group, lake Superior, Algoma district, Ont. (Not North Lizard.)

Rowe; mount, lat. 49° 03', long. 114° 03', Alberta.

After Lieut. Rowe, R.E., surveying officer, British Boundary Commission, lake of the Woods to the Rockies.

Rowe’s Welcome. See Roes Welcome.

Rowley; island, Navy group, St. Lawrence river, Leeds county, Ont.


Rowlinson; creek, tributary to Nordenskiöld river, Yukon.

After Seymour Rowlinson, Victoria, B.C.

Roxburgh; settlement, Albert county, N.B. (Not Roxborough.)

After Roxburgh, Scotland.

Roxton East; hamlet, Sheффord county, Que.

Roxton township was erected in 1893.

Royal; island, Brock group, St. Lawrence river, Leeds county, Ont. (Not Bathing.)

In proximity to Prince Alfred island.

Royal; roads, south of Esquimalt harbour, Vancouver island, B.C. (Not Royal bay.)

In proximity to Victoria city and Albert head.

Royal George. See Myles.

Ruban. See Ribbon.

Ruby; creek, flowing south into Surprise lake, east of Atlin, also mountain, west of creek, Cassiar district, B.C.

The mountain is red and scoriaceous.

Ruby; mountains, east of Columbia river, between the Arrow lakes, Kootenay district, B.C.

Ruby; ridge, lat. 49° 05', long. 114° 00', Alberta.

Descriptive.

Rudyard; reef, 1½ miles west of Walkhouse point, Manitoulin island, Manitoulin district, Ont.

After Rudyard Kipling.

Ruel; shoal, entrance to Key harbour, Georgian bay, Parry Sound district, Ont.

After official of Canadian Northern Ry.

Rugged. See Locke.

Rugged Island. See Lockeport.

Rundle; mount, between Bow and Spray rivers, Rocky Mountains park, Alberta.


Rupert; bay and river, Mistassini territory, Que.

After Prince Rupert (1619-82), first governor, Hudson’s Bay Co., 1670-82.

Rusagonis; river and village, Sunbury county, N.B. (Not Rusagornis nor Rushagornis.)

Maliseet Indian name meaning “meeting with the main stream.

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Ruscom; village and river, Rochester township, Essex county, Ont. (Not Ruscomb nor Ruscom Station.)
After Ruscombe, village, Berkshire, England.
Rush. See Routhier.
Rushagornis. See Rusagonis.
Russel; creek, tributary to Little Slocan river, Kootenay district, B.C.
Russell; island and reef, 1 ¼ miles southeast of Cove island, Bruce county, Ont.
Russell; arm and point, north shore of Prince Rupert harbour, Coast district, B.C.
After E. G. Russell, first representative, Grand Trunk Pacific Ry., Pacific coast; died 1907.
Russell; col, about one mile north of mount St. Elias, Yukon.
After Israel Cook Russell; made an unsuccessful attempt to climb mount St. Elias.
Ruth; island, Nanoose harbour, east coast of Vancouver island, B.C.
Saanich; inlet, southeast coast of Vancouver island, B.C.
Saanichton; bay and village, east side of Saanich peninsula, opposite James island, Vancouver island, B.C. (Not Cordova.)
Sabaskong; bay, southeastern portion of lake of the Woods, Kenora district, Ont.
Indian name, meaning “fish-net” or “fish weir” place.
Sable; river, emptying into lake Huron, south of Chiefs point, Bruce county, Ont.
Sable. See Ausable.
Sachigo; lake, and river tributary to Severn river, Patricia district, Ont. (Not Aehigo.)
Sachawatsi. See Sassawatsi.
Sacré-Cœur-de-Marie; village, Thetford township, Megantic county, Que. (Not Sacré Cœur de Marie.)
Saddle; hill, south of Satellite channel, Vancouver island, B.C. (Not Arbutus.)
Descriptive.
Saddle; lake, Tp. 58, R. 12, W. 4 M., Alberta.
Mistranslation of Indian name which means “a dark object sitting on the ice” as the Indians did in fishing.
Saddle Lake; post office, Tp. 58, R. 12, W. 4 M., Alberta.
See Saddle lake.
Saddle; mountain, north of Anuk river at confluence with Stikine river, Cassiar district, B.C.
Saddle; mountain, south of lake Louise, Alberta. (Not The Saddle.)
Descriptive.
Saddle. See Ragged.
Saddleback; island, north shore of Hudson strait, N.W.T.
Descriptive.
Saganaga; lake, international boundary, Rainy River and Thunder Bay districts, Ont. (Not Seiganagah, Seiganagan nor Seiganagaw.)
Sagemace; bay, southwest bay of lake Winnipegosis, Man.
After surveyor’s Indian canoe man Charlie Sagemace.
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Sagiminnis; lake, southwest of Wapikopa lake, Winisk river basin, Patricia district, Ont.
Indian name meaning "islands."

Sahpoochaway. See Odei.

Sak-wah-mish-she. See Sawamissi.

Sain; cape, above Pointe-au-Pic, St. Lawrence river, Charlevoix county, Que.

Ste. Agathe-des-Monts; village, Terrebonne county, Que. (Not St. Agathe des Monts.)
Situated in the Laurentian mountains.

Ste. Agnès-de-Dundee; hamlet, Huntingdon county, Que. (Not Ste. Agnès nor Ste. Agnès de Dundee.)

St. Alexandre; parish and village, Iberville county, Que. (Not St. Alexander.)
Adjoins St. Athanase parish; Athanasius succeeded Alexander as bishop of Alexandria.

St. Alphonse-de-Granby; village, Shefford county, Que. (Not St. Alphonse de Granby.)

St. André; hamlet, parish, point, and village, Kamouraska county, Que.

St. André-de-Ristigouche; hamlet, Bonaventure county, Que. (Not St. André de Restigouche)
After Mgr. André Albert Blais, R. C. bishop of Rimouski. See also Restigouche.

St. Andrew; channel, southeast of Bouarderie island, Cape Breton and Victoria counties, N.S.

St. Andrew; lake, Tps. 31 and 32, R. 1 E.P.M., Man. (Not Long.)
In proximity to St. David, St. George and St. Patrick lakes.

St. Andrews; town, Charlotte county, N.B. (Not St. Andrew's.)

St. Andrews; village, Argenteuil county, Que. (Not St. Andrews East.)

St. Andrews; village, Cornwall township, Stormont county, Ont. (Not St. Andrews West.)
After Scotland's patron saint.


Ste. Angèle-de-Rimouski; village, Matane county, Que. (Not Ste. Angèle de Mercié.)
After Angèle Drapeau sometime seignior. Rimouski, Indian name meaning "dog house" or "haunt of dogs."

St. Ann; bay, harbour and village, Victoria county, N.S.

St. Ann; lake, northwest of Edmonton, Alberta.

St. Ann; village, Gainsborough township, Lincoln county, Ont. (Not St. Anne nor St. Anne's.)

Ste. Anne-des-Monts; village, Tourcelle township, Gaspé county, Que. (Not Ste. Anne de Monts.)
After Ste. Anne-de-la-Pocatière from which parish the first settler came and the Notre Dame mountains in which the Ste. Anne river rises.

Ste. Anne-de-Stukely. See Rochelle.

St. Anne; island, mouth of St. Clair river, Lambton county, Ont. (Not St. Anne's nor St. Ann's.)

Ste. Anne-de-Bellevue; village, Jacques-Cartier county, Que. (Not Ste. Anne de Bellevue nor Ste. Anne du bout de l'Ile.)
Bellevue, descriptive.


St. Anthony; lake, Skead township, Timiskaming district, Ont. Probably after St. Anthony Lumber Co.

St. Antoine-de-Pontbriand; village, Thetford township, Megantic county, Que. (Not St. Antoine de Pontbriand.)
After Mgr. Henri-Marie Dubreuil de Pontbriand, R.C. bishop of Quebec.

St. Antoine-de-Tilly; village, Lotbinière county, Que. (Not St. Antoine, Lotbinière.)
After Pierre Noel le Gardeur de Tilly, who purchased the seigniory 31 Oct., 1700.

St. Augustin; river, flowing into the gulf of St. Lawrence about 70 miles from eastern boundary, Saguenay county, Que. (Not St. Augustine.)
Pigouatchiou ou de St. Augustin on D'Anville map, 1755.
St. Augustin; shoal, north shore of St. Lawrence river, also seigniory and village, Portneuf county, Que. Probably after Augustin Saffray de Mésy, governor of New France.

St. Barnabé-Rivière-Yamaska; settlement, St. Hyacinthe county, Que. (Not St. Barnabé river Yamaska.) Yamaska is the Indian name of a river and means "where there is grass at the bottom of the water."

St. Basile-de-Portneuf; parish and village, Portneuf county, Que. (Not St. Bazile de Portneuf.)

St. Bernard; island, mouth of Chateauguay river, Chateauguay county, Que. (Not île des Sœurs.)

St. Bernard-Sud; hamlet, St. Johns county, Que. (Not St. Bernard nor St. Bernard South.)


St. Casimir; parish and village, Portneuf county, Que. After Casimir Dury, notary of Ste.-Anne-de-la-Pérade.

St. Catharines; city, Lincoln county, Ont. (Not St. Catharines.) After wife of Hon. Robert Hamilton, merchant of Niagara and a member of the 1st Executive Council of Upper Canada; who married, first, Catharine Akin, second, Catharine McLaren. Previous to 1809, known as Shipman Corners.

Ste. Cécile-de-Levrard; parish, Nicolet county, Que. (Not St. Cécile de Levrard.)

Ste. Cécile-de-Milton; village, Shefford county, Que.

St. Charles-de-Caplan; village, Bonaventure county, Que. (Not St. Charles Caplin.)

St. Clair; river, flowing from lake Huron and lake, enlargement of river, discharging by Detroit river into lake Erie. Reached by La Salle and Hennepin on 12 August, 1679—St. Clare's day.

St. Columban; village, Two Mountains county, Que. (Not St. Columban nor St. Columbin.) Settled by Irish, 1837, and named after Saint Columban (543-615).

Ste. Croix; bar, north shore of St. Lawrence river, also village, Lotbinière county, Que.

St. Croix; lake, Hants county, N.S. (Not St. Croix River lake.)

St. Croix. See Ponhook.

Saint-Cyr; mount, north of Quiet lake, Yukon. After A. Saint-Cyr who surveyed Nisutlin river, 1898.

St. David; lake, Tps. 31 and 32, R. 1, W. P. M., Man. In proximity to St. Andrew, St. George and St. Patrick lakes.

St. David. See David.

St. David; village, Niagara township, Lincoln county, Ont. (Not St. David's.) After Major David Secord of Butler's Rangers, who, about 1786, built a mill near the head of Four-mile creek.

St. Denis; cove, parish, point and village, Kamouraska county, Que. (Not St. Denis de la Bouteillerie.) The fief was granted by Frontenac, 1679, to Nicolas Juchereau de St. Denis for and on behalf of his son Joseph Juchereau.

St. Denis de la Bouteillerie. See St. Denis.

St. Dominique-de-Bagot; village, Bagot county, Que. (Not St. Dominique de Bagot.)

St. Edmond; parish, Humqui township, Matane county, Que.

Ste. Edwidge; village, Clifton township, Compton county, Que. (Not St. Edwidge)
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St. Eleuthère; parish, Kamouraska county, Que.
   It was cut off St. Denis; St. Eleuthère and St. Denis suffered martyrdom at the same
time.

St. Elias; mount, lat. 60° 17' 50", long. 140° 56', Yukon and Alaska.

Ste. Emmélie; parish and village, Lotbinière county, Que. (Not Ste. Emelie nor Ste. Emilie.)
St. Étienne; parish, Charlevoix county, Que.
St. Étienne. See Baillargeon.
St. Étienne-de-Beauharnois; village, Beauharnois county, Que. (Not St. Etienne nor St.
Étienne de Beauharnois.)
St. Eugène; mission, St. Mary river, Kootenay district, B.C.
   After patron saint of Oblate order in charge of mission.
St. Eugène-de-Guigues; hamlet, Guigues township, Timiskaming county, Que. (Not Ste.
Eugene de Guigues.)
St. Fidèle; settlement, Charlevoix county, Que.
   After Fidèle Morissette, first parish priest.
Ste. Florence; parish and village, Matane county, Que.
Ste. Foy; parish and village, Quebec county, Que. (Not St. Foy.)
St. Francis; lake, Frontenac county, and river, flowing from the lake into the St. Lawrence
in Yamaska county, Que. French usage: St. François.
   After François de Lauzon, granted, in 1635, a large tract of land bounded on one side by
the river; the name St. François applied to the river is first used in 1638 in the act of Governor
Montmagny putting Lauzon in possession.
St. François (lac et rivière); lake, Frontenac county and river, flowing from the lake into the
St. Lawrence in Yamaska county, Que. English usage: St. Francis.
   See St. Francis.
Ste. Geneviève; group of islands, northeast of île Perrot, St. Lawrence river, Vaudreuil county,
Que.
St. George; cape, St. Peter inlet, Richmond county, N.S. (Not George.)
St. George; lake, Tps. 31, 32 and 33, R. 1 E. P. M., Man. (Not St. George's.)
   In proximity to St. Andrew, St. David and St. Patrick lakes.
St. George. See George.
St. George Port Daniel. See Port Daniel.
St. Germain; parish and village, Kamouraska county, Que.
   The parish church was built on the St. Germain road which was named after a farmer
whose land it crossed.
St. Grégoire. See Mount Johnson.
St. Hector; hamlet, Bagot county, Que. (Not St. Hector de Bagot.)
St. Helen; island, St. Lawrence river, near Montreal, Laval county, Que. (Not St. Helen's.)
Named by Champlain, 1611, after his wife Hélène Bouillé.
Ste. Hélène (île); island, St. Lawrence river, near Montreal, Laval county, Que. English
usage: St. Helen.
   See St. Helen island.
St. Helena; island, St. Lawrence river, Yonge township, Leeds county, Ont. (Not Cherry nor
Goulbourne.)
   After island in South Atlantic to which Napoleon was banished.
Ste. Hélène-de-Bagot; village, Bagot county, Que. (Not Ste. Hélène de Bagot.)
Hélène was the Christian name of the mother of M. Ramezay, seignior of St. Hugues and of Ste. Hélène. Sir Charles Bagot was Governor General of Canada, 1842-43.

St. Henri; village, Lévis county, Que. (Not St. Henri Station.)
After Mgr. Levis county, Que. (Not St. Henri Station.)

St. Hilaire; mountain, near St. Hilaire, Rouville county, Que. (Not Beloeil nor Rouville.)

St. Hilary; mount, south of mount Braeburn, west of north end of lake Laberge, Yukon.
After St. Hilary, Bishop of Poitiers; died 368 A.D.

St. Irénée; parish and village, Charlevoix county, Que.

St. Jacques. See Orme.

St. Jean Deschaillons. See Deschaillons.

St. Joachim; hamlet, Rochester township, Essex county, Ont. (Not St. Joachim River Ruseom.)

St. Joachim-de-Shefford; village, Shefford county, Que.
Ste. Anne, titular saint of the adjoining parish, was wife of St. Joachim.

St. John; island, Melville lake, Ashuanipi territory, Que. (Not St. Johns.)

St. John; mount, west shore of Windigo bay, lake Nipigon, Thunder Bay district, Ont.

St. John; ridge and creek, tributary to Beaverdell creek, Westkettle river, Similkameen district, B.C.
After the St. John mineral claim.

St. Johns; county and town, Richelieu river, Que. (Not St. John's.)
Probably after Jean Frédéric Phélypeaux, Comte de Pontchartrain, Minister of Marine, France, when the fort was constructed, 1748.

St. Joseph. See Grosbois.

St. Joseph; village, Hay township, 23 miles south of Goderich, Huron county, Ont.
Biblical.

St. Joseph-de-St. Hyacinthe; village, St. Hyacinthe county, Que. (Not St. Joseph de St.
Hyacinthe.)
St. Hyacinthe seignior after Hyacinthe Simon Delorme, who purchased it in 1753.

St. Joseph d'Orleans. See Orleans.

St. Lambert; village, Chambly county, Que. (Not St. Lambert, Chambly.)
After RaphaeL Lambert Cloise, noted Indianighter; killed, 1632.

St. Laurent; village, Jacques-Cartier county, Que. (Not St. Laurent, Montreal.)

St. Lawrence; island, Lake Flet group, St. Lawrence river, Leeds county, Ont.
After the "St. Lawrence," ship of the line launched at Kingston, 10 Sept., 1814.

St. Louis-de-Chambord; parish, Lake St. John county, Que.

St. Marc-des-Carrières; parish and village, Portneuf county, Que. (Not St. Marc des Carrières.)
After limestone quarries.

St. Margaret; bay, Halifax county, N.S. (Not St. Margaret's.)

Ste. Marguerite; river, tributary to Saguenay river, Chicoutimi and Saguenay counties, Que.
(Not St. Margarett.)

Ste. Marguerite. See Marguerite.

St. Martin; lake, between lakes Manitoba and Winnipeg, Man. (Not St. Martin's.)
On map of Assiniboia, 1811.

St. Martins; lightstation, parish and village, St. John county, N.B. (Not Quaco.)

St. Martin. See Martin.

St. Mary; bay and cape, Digby county, N.S.
Named by Champlain, 1604.

St. Mary; lake, and river tributary to Kootenay river, B.C. (Not Torrent.)
After mission station, "Holy Head of Mary."
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St. Mary; lake, Ridout township, Muskoka district, Ont.

St. Mary; lake, SaltSpring island, southeast coast of Vancouver island, B.C.

St. Mary; river, Guysborough county, N.S.

St. Mary; river, joining lakes Huron and Superior, international boundary line between Canada and United States. (Not St. Mary's.)

The head of the river is at a line drawn between Gros Cap and point Iroquois. The mouth of the South channel is at a line drawn from old fort St. Joe to Sweet point, and that of the North channel at a line joining Bowker point and Gravel point.

After the virgin.

St. Mary; river, tributary to Oldman river, south of Lethbridge, Alberta. (Not St. Mary's.)

St. Marys; town, Perth county, Ont. (Not St. Mary's.)

After Mary, wife of Thomas Mercer Jones, Canada Land Co.

St. Mary; village, Kent county, N.B.

St. Maurice; county and river, tributary to St. Lawrence river, Que.

Probably after Maurice Poulin, seigneur de la Fontaine, who was granted the seigniory in 1668.

St. Michel-de-Rougemont; village, Rouville county, Que. (Not St. Michel de Rougemont.)

After M. de Rougemont, commander at fort Ste. Thérèse during winter of 1666.

Ste. Monique; hamlet, Two Mountains county, Que. (Not Ste. Monique des Deux Montagnes.)

The parish was cut off from St. Augustin parish; Ste. Monique was the mother of St. Augustin.


St. Nicholas; peak, southwest of Bow lake, Rocky mountains, Alberta and Kootenay district, B.C.

From a rock formation like Santa Claus.

St. Nora; lake, Sherborne township, Haliburton county, Ont. (Not St. Nora's.)

St. Onge; post office, near Embrun, Russell township, Russell county, Ont.

After C. St. Onge, sometime postmaster.

St. Ours; island, St. Lawrence river, above Richelieu river, Verchères county, Que. (Not Plat.)

After the Sieur de St. Ours, captain in the Carignan regiment.

St. Pamphile; village, L'Islet county, Que.

After Pamphile Verrault, notary, St. Jean-Port-Joli; M.P. for L'Islet when parish of St. Pamphile was formed.

St. Patrick; channel, arm opening to westward from Great Bras d'Or, Inverness and Victoria counties, N.S.

St. Patrick; lake, Tps. 32 and 33, R. 1, W. P. M., Man.

In proximity to St. Andrew, St. David and St. George lakes.

St. Patrick's. See San Josef.

St. Paul. See Nuns.

St. Paul; village, Kent county, N.B. (Not St. Pauls.)

St. Paul-du-Boton; parish and hamlet, Montminy township, Montmagny county, Que. (Not St. Paul de Buton.)

St. Paul's Bay. See Baie-St.-Paul.

St. Peter; bay, river and village, Kings county, P.E.I. (Not St. Peter's nor Head of St. Peter's Bay.)

St. Peter; island, Hillsborough bay, Queens county, P.E.I. (Not St. Peter's.)

A 1761 map shows present Governor island as "St. Petre" island.
St. Pierre-les-Becquets; parish and hamlet, Nicolet county, Que. (Not St. Pierre des Becquets nor St. Pierre les Bequets.)

The seigniory was granted in 1683 to Sieur Louis Lévrard who, in 1703 married one of the daughters of Romain Becquet who had received the seigniory in 1672.

St. Piran; mount, west of Lake Louise railway station, Alberta.

After birthplace, Cornwall, England, of W. J. Astley, manager of Lake Louise chalet.

St. Raphael; post office, Charlottenburg township, Glengarry county, Ont. (Not St. Rafael nor St. Raphael West.)

St. Regis; hamlet, Huntingdon county, Que. (Not St. Régis.)

After St. Jean François Regis (1597-1640), canonized about the same date as the founding of the village, 1752.

St. Roch-des-Aulnaies; village, L'Islet county, Que. (Not St. Roch des Aulnay.)

After patron saint, St. Roch de Montpellier; des Aulnayes, because the river Ferrée is bordered by “alders.”

Ste. Rosalie; island, Ottawa river, near Montebello, Labelle county, Que.

St. Siméon; parish and village, Charlevoix county, Que.

St. Simon-de-Yamaska; village, Bagot county, Que. (Not St. Simon d'Yamaska.)

The parish adjoins the parish of St. Jude; Simon and Jude were massacred at Smanyr; Yamaska from the river on which situated.

St. Sixte; lake and river, tributary to Petite-Nation river, Labelle county, Que. (Not Sincique.)

St. Stanislas-de-Kostka; village, Beaufort county, Que. (Not St. Stanislas.)

St. Stephen; town, Charlotte county, N.B. (Not St. Stephens.)

After Sir Charles St. Stephen to whom among others, letters patent were granted by Cromwell of lands in America called Acadia and part of the country called Nova Scotia, 1656.

St. Théodore-d'Acton; village, Bagot county, Que.

Ste. Thérèse-de-Blainville; village, Terrebonne county, Que. (Not Ste. Thérèse.)

Ste. Thérèse, after daughter of first grantee, Sidrac Dugué; de Blainville, after her daughter’s husband.

St. Urbain-de-Chateauguay; parish and village, Chateauguay county, Que. (Not St. Urbain de Chateauguay nor St. Urbain en haut.)

St. Urbain parish was cut off from Ste. Martine parish. Ste. Martine suffered martyrdom when Urban I was pope.

St. Valentin; parish and village, St. Johns county, Que. (Not St. Valentine.)

Name given in 1878 on the occasion of the first mass, celebrated on St. Valentine’s day.

Sakwatamau; river, tributary to Athabaska river, opposite McLeod river, Alberta. (Not Eagle nor Sa-kwa-ta-mow.)

Indian name meaning “sparrow hawk.”

Salem; village, Cumberland county, N.S. (Not Salent.)

Salent. See Salem.

Salisbury; bay, Albert county, N.B. (Not Rougie.)

On Des Barres chart, 1781.

Salmo; river, flowing southerly into Pend-d'Oreille river, Kootenay district, B.C. (Not Salmon.)

Salmon; arm, southern portion of Shuswap lake, also river emptying into arm from south, Kamloops district, B.C.

Quantities of “salmon” were caught here by the Indians.

Salmon; cape, above pointe des Rochers, Charlevoix county, Que. French usage: Saumon (cap au).

Salmon; island, Big bay, Hastings county, Ont.

Salmon. See Amory.
Salmon; river, rising in Frontenac county and flowing through Lennox and Addington county into bay of Quinte in Hastings county, Ont. Descriptive.

Salmon. See Kinonge.
Salmon. See Salmo.
Salmon. See Templeton.
Salmon. See Wicked.

Salmon Arm; village, Salmon arm, Shuswap lake, Kamloops district, B.C. See Salmon; arm.

Salone; lake, Manuan river, Champlain county, Que. (Not Antikamish nor Kapitoukamiek.) After Émile Salone, vice president of l’Alliance Francaise.

Salt; point, Presqu’île peninsula, Brighton township, Northumberland county, Ont. See Salt.

Saltspring; island, southeast coast of Vancouver island, B.C. (Not Admiral nor Chuan.) Descriptive.

Salvail; settlement and river, tributary to Yamaska river, St. Hyacinthe county, Que. (Not Salvaille nor Salvayle.) After family named Salvail.

Salvage. See Salvail.

Salvus; railway station, north shore of Skeena river, Coast district, B.C.

Samson; peak, north of narrows of Maligne lake, Rocky mountains, Alberta. After Samson Beaver, a Stony Indian who drew a sketch that enabled Mrs Schaffer to reach Maligne lake.

Sand; bay, outlet of Rainy lake, international boundary, Rainy River district, Ont.

Sand; creek, tributary to Kootenay river from east, about 8 miles below Elk river, Kootenay district, B.C.

Sand. See Desert.
Sand. See Hyndman.

Sanderson; point, west side of Lower Arrow lake, Kootenay district, B.C.

Sanderson. See Inonoaklin.

Sandilands; island, south of Maude island, Skidegate channel, between Graham island and Moresby island, Coast district, B.C. (Not South.) After gold commissioner for Queen Charlotte islands.

Sand Point; lake, international boundary, Rainy River district, Ont.

Sandy. See Pakwa.
Sandy. See Tramping.

Sandy-beach; lake, headwaters of St. Maurice river, Champlain county, Que.

Sanford; mount, lat. 59° 29', long. 132° 48', Cassiar district, B.C. Christian name of member of survey party, 1899.

Sangrida; peak, Valkyr mountains, east of Lower Arrow lake, Kootenay district, B.C.

San Josef; bay, near northwest end of Vancouver island, B.C. (Not San Joseph nor St. Patrick’s.)

On Eliza’s chart, 1791.

San Juan; river, flowing into Juan de Fuca strait, Vancouver island, B.C.

San Miguel; group of islands, entrance to Friendly cove, Nootka sound, Vancouver island, B.C. One island of the group was so named by Don Estevan Jose Martinez, Spanish naval officer who took possession of Friendly cove on 24 May, 1789.
Sansum; narrows, between Saltspring island and Vancouver island, B.C.

After Arthur Sansum, R.N., first lieutenant, H.M.S. "Thetis"; on Pacific station, 1851-53; died, 1853.

Sapasook. See Saposuk.

Saposoose. See Saposuk.

Sapasuk; lake, on National Transcontinental railway, east of lake Nipigon, Thunder Bay district, Ont. (Not Saposook nor Saposoose.)

Sapphire; col, between The Dome and Castor, Selkirk mountains, Kootenay district, B.C.

Name suggested by a frozen tarn of the deepest blue.

Sarbach; mount, west of Mistaya river, Tp. 34, R. 20, W. 5 M., Rocky Mountains, Alberta.

After Peter Sarbach, Swiss guide.

Sarcee; butte and Indian reserve, Elbow river, Alberta.

After the Sarsi, a tribe of the northern division of the Athapascan family.

Sasaginaga; lake, northwest of Cobalt, Coleman township, Timiskaming district, Ont. (Not Clear.)

Indian name meaning "lake of the island."

Sasakwei; lake, north of Anzhekumming lake, Kenora district, Ont. (Not Summit.)

Indian name meaning "warwhoop."

Saskatchewan; mount, Tp. 36, R. 22, W. 5 M., headwaters of North Saskatchewan river, Rocky mountains, Alberta.

After the Saskatchewan river, which Cree name meaning "swift current."

Saskatchewan. See Turnagain.

Saskeram; lake, west of Pas, Man. (Not Indian Pear Island.)

Sass; river, draining through Little Buffalo river into Great Slave lake, N.W.T. (Not Sassetessi.)

Sassaganaga; lake, northeast of Kipawa lake, Timiskaming county, Que.

Indian name meaning "many islands."

Sassawatisi; lake, Manuan river, Champlain county, Que. (Not Sackawatisi nor Chisaouataisi.)


Satasha; lake, draining into Nordenskiöld river, Yukon.

After Indian doctor, Wesketahin.

Satellite; channel, between Saltspring island and Saanich peninsula, southeast coast of Vancouver island, B.C.

After H.M.S. Satellite, on Pacific station, 1857-60.

Saturn; rock, 1½ miles west of Lyal Island light, Stokes bay, Bruce county, Ont.

After steamer "Saturn."

Saucer; hills, south of Wawagosik lake, neat southern boundary of Abitibi territory, Que. Descriptive.

Saugeen; peninsula, the northwestern portion of Bruce county, Ont.

Indian name meaning "river mouth."

Saugeen; river, emptying into lake Huron at Southampton, Bruce county, Ont. (Not Saugin.) See Saugeen peninsula.

Saugum; creek, east of Kootenay river, north of Steele, Kootenay district, B.C. (Not Six mile.)

Chinook name meaning "six."

Sault-au-Cochon; river, flowing into the St. Lawrence, about 50 miles below Tadoussac, Saguenay county, Que. (Not Saut de Cochon.)
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Saulteux; river, tributary to Lesser Slave river, Alberta. (Not Sauter nor Sauteux.)
   A variant name of the Chippewa, one of the largest tribes in Canada or the United
   States; part of the Algonquin family.

Saumon (cap au); cape, above pointe des Rochers, Charlevoix county, Que. English usage:
   Salmon.

Saunders; reef, southeast of Misery bay, 6 ½ miles east of Walkhouse point, Manitoulin island,
   Manitoulin district, Ont.
   After settler.

Sauteur. See Saulteux.


Saut de Mouton. See Mille-Vaches.

Sauteux. See Saulteux.

Savage; hamlet, Shefford township, Shefford county, Que. (Not Savage’s Mills.)
   Captain John Savage settled in Shefford county in 1793.

Savage; island, St. Lawrence river, Yonge township, Leeds county, Ont.
   So named on Captain W. F. Owen’s chart, 1818.

Savage. See Upper Savage.

Savage’s Mills. See Savage.

Savant; lake, south of lake St. Joseph, Thunder Bay district, Ont.
   From the “marshes” (French savannes) in the vicinity.

Savasse Berry. See Serviceberry.

Sawamilishi; lake, Stanhope township, Haliburton county, Ont. (Not Sah-wah-mish-sha.)
   Indian name meaning “beech.”

Sawback; range of mountains, north of Bow river, Rocky mountains, Alberta.
   Descriptive.

Sawbill. See Sheldrake.

Sawyer; pass, head of St. Mary river, Kootenay district, B.C.

Sawyerville; parish and village, Compton county, Que.
   After Josiah Sawyer, settler, about 1792.

Saxon; island, south of Shute point, east shore of Stokes bay, Bruce county, Ont.

Sayabec; river and village, Matane county, Que. (Not Sebec.)
   Micmac Indian name meaning “filled up river.”

Sayia. See Sayyea.

Sayunei; range of mountains, west of Tigonankweine range, Gravel river, N.W.T. (Not Sayune.)
   Indian name meaning “rocks of the bighorn.”

Sayyea; creek, tributary to Liard river, Yukon. (Not Sayia.)

Scalping Knife; mountain, east of Columbia river, between Arrow lakes, Kootenay district,
   B.C.

Scatari; island, east coast of Cape Breton island, N.S. (Not Scattarie nor Scatary.)
   In a pamphlet on Cape Breton, dated 1746, it is called Scatari, formerly little Cape
   Breton, and on a very old copy of Arrowsmith’s map, probably early 18th century, of Cape
   Breton, it is called “Secétere,” meaning presumably “dry land.”

Scentgrass; lake, Tp. 40, R. 15, W. 3 M., Sask. (Not Scent Grass.)

Schaffer; mount, south of lake O’Hara, Rocky mountains, Kootenay district, B.C.
   After Dr. Schäffer of Philadelphia; Mrs. Schäffer (now Mrs. Warren), is authoress of
   “Old Indian Trails.”

Schau. See Puslinch.

Schist; lake, northeast of Minnitaki lake, near the eastern boundary of Kenora district, Ont.
Schnabel; creek, Annie lake, north of big bend of Wheaton river, southern Yukon.
   After W. F. Schnabel, prospector.

Schnare; point, north shore of St. Margaret bay, Halifax county, N.S. (Not Snares.)
   Family name.

Schnarr; lake, Melick township, Kenora district, Ont.

Schreiber; point, north shore of Prince Rupert harbour, Coast district, B.C.
   After Sir Collingwood Schreiber, consulting engineer, Department of Railways and
   Canals of Canada.

Schooner; See Miles.

Schroeder; creek, flowing into west side of Kootenay lake, about 8 miles south of Lardeau,
   Kootenay district, B.C.

Schwatka. See Nordenskiold.

Scorch; creek, tributary to Groundhog river, Sudbury district, Ont. (Not Sturgeon.)
   From scorched trees in the valley.

Scorpion; island, Lake Fleet group, St. Lawrence river, Leeds county, Ont.
   After the “Scorpion,” formerly the U.S. Surprise, captured on lake Huron, 6 Sept, 1814.

Scotch Bonnet; island and lighthouse, west of Wellington bay, Prince Edward county, Ont.
   (Not Egg.)

Scotchie; reef, South Baymouth, Manitoulin island, Manitoulin district, Ont.
   After Duck Island fisherman.

Scotia; lake, Dunbar and Scotia townships, Sudbury district, Ont. (Not Long nor Upper
   Wanapitei.)

Scotsman; bay, Kings county, N.S. (Not Scots, Scot’s nor Scotsman’s.)

Scott; inlet, Metlakatla bay, Coast district, B.C.

Scott; mount, south of Broadback river, about 20 miles east of lake Evans, Abitibi territory,
   Que.
   After Dr. J. Scott Keltie, sometime secretary, Royal Geographical Society.

Scott; point, north entrance to baie du Dore, Bruce county, Ont.
   After resident, Kincardine.

Scott. See Wright.

Scougall; bank, 2½ miles southwest of MacGregor point, Bruce county, Ont.
   After resident, Kincardine.

Scout; reef and spit, 4½ miles north-northwest of Chiefs point, Bruce county, Ont.
   Descriptive.

Scratching. See Morris.

Scroggie; creek, tributary to Stewart river, Yukon.
   After miner.

Seud; river, tributary to Stikine river from east, Cassiar district, B.C.

Sea; lake, Murchison township, Nipissing district, Ont.

Seagram; lake, Tps. 41 and 42, R. 24, W. 3 M., Sask.

Seal; cove, southeast of Ritchie point, Kaien island, Coast district, B.C.

Seal. See Dog.

Seal. See Tisiriuk.

Sealion; mountain, south of Blueberry river, above Split creek, Rocky mountains, Kootenay
   district, B.C.
   Descriptive.

Seals Home. See La Motte.
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Seaman; reef, entrance to Carroll Wood bay, east of Walkhouse point, Manitoulin island, Manitoulin district, Ont.
   After tug “A. Seaman.”

Seashell; rock, 1 mile west of Lyal Island light, Stokes bay, Bruce county, Ont.
   After tug “Seashell.”

Seaton; creek, tributary to Carpenter creek, northeast of Slocan lake, Kootenay district, B.C.
   *Seaton.* See Seton.

Secretary; islands, Trincomali channel, southeast coast of Vancouver island, B.C.
   Named by Capt. Richards, 1859, on account of their vicinity to Southey point. J. L. Southey, R.N., was secretary to Rear Admiral Sir R. L. Baynes, V.C.B., commander-in-chief, Pacific station, 1857-60.

Secretary. See Donaldson.

Seechelt; inlet, New Westminster district, B.C. (Not Sechelt.)
   After a Salish tribe on Jervis and Seechelt inlets.

Seed; lake, west one of three small lakes west of Knife lake, international boundary, Rainy River district, Ont.

Seeley Bay; village, Elizabethtown township, Leeds county, Ont.
   After settlers in the early part of the nineteenth century.

Seepanock. See Sipanok.

Seggemak; lake, east of Anzhekumming lake, Kenora district, Ont. (Not Black Bird.)
   Indian name meaning “black bird.”

Segum Sega. See Kejimkujik.

Seiganagah. See Saganaga.

Seiganagan. See Saganaga.

Seiganagaw. See Saganaga.

Sekulmun; lake, southwestern Yukon.

Sekwi; brook, canyon and mountain, Gravel river, above Natla river, N.W.T.
   Indian name meaning “Indian boy.”

Selby; lake, close east of Anzhekumming lake, Kenora district, Ont. (Not Lynx.)

Selkirk; mount, east of Kootenay river, near its head, below Vermilion river, Kootenay district, B.C.
   After Thomas Douglas, 5th Earl of Selkirk (1771-1820).

Selkirk; village confluence of Lewes and Pelly rivers, Yukon. (The site of the old fort of the Hudson’s Bay Co. is between the rivers.) (Not Fort Selkirk.)
   See Selkirk mount.

Selous; mount, between forks of Macmillan river, Yukon.
   After F. C. Selous, celebrated African lion hunter, who hunted in the Macmillan river country; killed while serving with British forces in East Africa, 1916.

Selwyn; island, 2 miles south of Murchison island, lake Nipigon, Thunder Bay district, Ont.
   After Dr. A. R. C. Selwyn (1824-90), director, Geological Survey of Canada.

Selwyn; mount, east of mount Dawson, Tp. 25, R. 25, W. 5 M., Selkirk mountains, Kootenay district, B.C.
   See Selwyn island.

Selwyn; river, tributary to Yukon river below Selkirk, Yukon.
   See Selwyn island.

Semenof; hills, at confluence of Lewes and Big Salmon rivers, Yukon. (Not Semenow.)
   Named by Schwatka after the president of the Imperial Geographical Society, Russia.

Semiamu; bay, international boundary, New Westminster district, B.C. (Not Semiahmoo.)
Senelles (pointe aux); point, south shore of the St. Lawrence, below Ste. Flavie, Matane county, Que. (Not Snelles.)

Sentinel; mountain, above junction of Cline and North Saskatchewan rivers, Rocky mountains, Alberta. Descriptive.


Sentry; mountain, south of Crowsnest lake, southern Alberta. (Not Sentinel.) Descriptive.

Separation; lake, English river, northern boundary of Kenora district, Ont.
In 1872, Dr. A. R. Selwyn and Dr. R. Bell, Geological Survey, of Canada, separated at this lake to go west and southwest, respectively.

Separation; point, north entrance point to Cowichan harbour, Vancouver island, B.C. (Not Cowichan.) Descriptive.

Sepewesk. See Sipiwesk.

Sept-Iles; group of islands, bay and village, St. Lawrence river, Saguenay county, Quebec.
English usage: Seven Islands.
Descriptive; so named on Jaillot's map, 1685.

Seraph; mountain, Tp. 30, R. 27, W. 5 M., Selkirk range, Kootenay district, B.C.

Sergent (lac); lake, Portneuf county, Que.

Serpentine; lake, Anstruther township, Peterborough county, Ont. Descriptive.

Serviceberry; creek, tributary to Rosebud river, Red Deer river, Alberta. (Not Savasse Berry.) Descriptive.

Seseganaga; lake, east of Sturgeon lake, Thunder Bay district, Ont.
Indian name meaning "full of islands."

Sesikinaga; lake and river, headwaters of Wenasaga river, tributary to lac Seul, Patricia district, Ont.
Indian name meaning "full of islands."

Setidgi. See Sitidgi.

Seton; lake and creek, flowing into Cayoosh creek, Lillooet district, B.C. (Not Seaton.)
After wife of A. C. Anderson, Hudson's Bay Co., officer.

Setting; river and lake, Grass river, Man. (Not Net Setting nor Puke-lowogein.)
Translation of Indian name, meaning literally "net setting."

Seul (lac); lake, Kenora and Patricia districts, Ont.
French name meaning "lonely."

Seven Acre. See Melville.

Seven Islands; group of islands, bay and Hudson's Bay Co. post, St. Lawrence river, Saguenay county, Que. French usage: Sept-Iles.
Descriptive.

Seven Mile. See Opikimika.

Sevenpersons; coulee and river, southwest of Medicine Hat, Alberta. (Not Seven Persons.)
Translation of Indian name; seven Blackfoot Indians were killed here by the Assiniboines.

Seven Pines. See Bass.

Severn; lake and river, emptying into Hudson bay; also Hudson Bay Co. post at mouth of river, Patricia district, Ont. (Not Fort Severn.)
The river was named by James, 1631, "New Severn" after Severn river, England.
Sévigny; island, St. Lawrence river, Soulanges county, Que. (Not Petite île aux Cygnes.)
Seymour; arm, northwestern portion of Shuswap lake, Kamloops district, B.C.
   After Frederick Seymour, governor of British Columbia, 1864-69.
Seymour; creek, flowing into Burrard inlet, New Westminster district, B.C.
   See Seymour arm.
Shabogama; lake and river, Timiskaming and Pontiac counties, Que. (Not Shabokoma.)
Shabumeni; lake and river, northwest of lake St. Joseph, Patricia district, Ont. (Not Shaboo-
   mene.)
Shad. See Shag.
Shaft; point, Departure bay, east coast of Vancouver island, B.C.
   After an old coalpit shaft.
Shag; bay and head, Halifax county, N.S. (Not Shad.)
   From a wild sea bird which frequented the bay.
Shagamew; lake and river flowing into Hudson bay, Patricia district, Ont. (Not Shagamew nor
   Shakaneh.)
Shakanash; island, 4 miles northeast of point Magnet, Thunder Bay district, Ont.
Shakaneh. See Shagamew.
Shakes; creek, tributary to Stikine river from west, below Telegraph Creek, Cassiar district,
   B.C.
   After Indian chief.
Shakespeare; island, southeast of Kelvin island, lake Nipigon, Thunder Bay district, Ont.
   After the only Shakespeare.
Shakwak; valley, west of Dezadeash lake, southwestern Yukon.
Shallof; creek, south side of Anticosti island, Saguenay county, Que. (Not Chaloupe.)
Shallow; lake, southeast of Bennett lake, Cassiar district, B.C.
Shallow. See Mennin.
Shallow. See Pakwash.
Shamattawa; river, tributary to Winisk river, Patricia district, Ont. (Not Matawa nor
   Sha-mat-tay-wah.)
   Indian name meaning "where routes diverge."
Shames; railway station and river, tributary to Skeena river, Coast district, B.C.
Shamrock; bank, southeast of Gatacre point, 11 miles east of Walkhouse point, Manitoulin
   island, Manitoulin district, Ont.
   After Sir Thomas Lipton's yacht.
Shamus; river, emptying into Matchimanito lake, headwaters of Bell river, Pontiac county,
   Que.
Shanakani. See Donnegana.
Shangoina; island, 4 miles east of Thunder cape, lake Superior, Thunder Bay district, Ont.
Shanks; lake, Tp. 1, R. 21, W. 4 M., Alberta.
   After Thomas Shanks, D.L.S.
Shanly; hamlet, Edwardsburg township, Grenville county, Ont. (Not Shanley.)
Shannonville; post office, Tyendinaga township, Hastings county, Ont.
Shantier. See McMahon.
Shanty. See McMahon.
Sharbau; island, south entrance to Rivers inlet, Coast district, B.C. (Not Sharban.)
   After Henry Sharbau, draughtsman, Hydrographic office, Admiralty, 1865.
Sharp; lake, northwest of Cobalt, Timiskaming district, Ont.
   After fireranger.
Sharp; mount, southwestern portion of Tp. 26, R. 17, W. 5 M., Rocky mountains, Kootenay district, B.C.
   Descriptive.
Sharp. See Jack.
Sharpe; creek, flowing into Bulkley river, below Moricetown, Cassiar district, B.C. (Not Boulder.)
   After Hudson's Bay Co. employé.

Sharp Mountain. See Elizabeth.

Shaughnessy; mount, west of Beaver river, Tp. 28, R. 26, W. 5 M., Selkirk mountains, Kootenay district, B.C.
   After Lord Shaughnessy, president, Canadian Pacific Ry.

Shaver; river, flowing into Primrose lake, Alberta and Sask.
   After P. A. Shaver, D.L.S., assistant on survey.

Shawanaga; inlet, river and township, Parry Sound district, Ont. (Not Franklin nor Shawanaga.)
   Indian name meaning "a long bay or strait."

Shawatlan; lake, draining into Fern passage, northeast of Prince Rupert, Coast district, B.C.
   (Not Shawatlans nor Shoo-wah-tans.)

Shawatun; mountain, north of Nepopekum creek, tributary to Skagit river from east, Yale district, B.C. (Not Steamboat.)

Shawinigan; lake and river, tributary to St. Maurice river, St. Maurice county, Que. (Not Shawenegan.)
   Indian name meaning, in part, "portage."

Shawinigan Falls; town, St. Maurice county, Que. (Not Shawenegan Falls.)
   See Shawinigan.

Shawinigan; creek and lake, southeastern portion of Vancouver island, B.C.

Shawinigan Lake; village, Vancouver island, B.C.

Sheaffe; island, Brock group, St. Lawrence river, Leeds county, Ont. (Not Black Charlie nor Brush.)
   After General Sir Roger H. Sheaffe (1763-1851); administrator of Upper Canada, 1812-13.

Sheek. See Sheek.

Sheba; two-peaked mountain, forks of Gun creek, Bridge river, Lilooet district, B.C.

Shebeshekong; bay, also channel between Franklin island and the mainland, Carling township, Parry Sound district, Ont.
   Indian name meaning "at the place of leaves."

Shecatica. See Shekatika.

Sheedui. See Deception.

Sheechan; lake, north of Pennant harbour, Halifax county, N.S. (Not Shehea.)
   Family name.

Sheek; island, St. Lawrence river, west of Cornwall, Stormont county, Ont. (Not Sheek's, Sheik's, Shieck nor Shieck's.)
   After David Sheek, whose name is so written on a lease of land from the St. Regis Indians in 1806.

Sheep; lake and mountain, east of Tatonduk river, Yukon.

Sheep; mountain, lat. 49° 02', long. 113° 51', east of Waterton lake, Alberta.

Sheep; river, flowing into Highwood river in Tp. 20, R. 28, W. 4 M., Alberta. The name extends to the head of the South branch.
   Descriptive; formerly a favourite haunt of the bighorn.

Sheep. See Lussier.

Sheep. See Miatikush.
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Sheep. See Ram.

Sheepshank. See Shesheeb.

Shesheeb. See Shesheeb.

Sheffield Vault; a brook, flowing into Minas channel, Kings county, N.S.
Sheffield Vault and Wheaton Vault are comparatively waterless channels (called vaults)
cut by geologically ancient streams flowing into the Bay of Fundy depression.

Shegumia; river, flowing from west into Skeena river, above Hazelton, Cassiar district, B.C.
(Not She-gun-ya.)

Sheik's. See Sheek.

Shekatika; bay, west of the strait of Belleisle, Saguenay county, Que. (Not Shekaticha.)
Indian name meaning "there are bushes round the water."

Shelburne; bay, harbour, and town, Shelburne county, N.S. (Not Shelburne Harbour)
After Lord Shelburne, Secretary of State for Colonies, 1782.

Sheldon; lake, Lutterworth township, Haliburton county, Ont. (Not Sheldon's.)

Sheldon; lake, lat. 62° 41', long. 131° 00', Ross river and mount, north of lake, Yukon.

Sheldrake; river, Saguenay county, Que. (Not Sawbill.)
Favourite resort of sheldrakes.

Shell; lake and brook, tributary to North Saskatchewan river, Sask.

Shell; river, tributary to Assiniboine river, Man.
Translation of Indian name.

Shellbrook; post office, Tp. 49, R. 3, W. 3 M., Sask. (Not Shell Brook.)

Shemogue; harbour and town, Westmorland county, N.B. (Not Great Shemogue nor Bristol.)
Indian name meaning "horns," originally applied to the bay and descriptive of the
remarkable branching.

Shemong. See Chemung.

Shogomoe. See Shogomoe.

Sheol; mountain, south of lake Louise, Alberta.

Shepherd; mount, north of Sooke basin, south coast of Vancouver island, B.C.

Sherbrooke; city and county, Que. (Not Sherbrook.)
After General Sir John Coape Sherbrooke (1764-1830), lieutenant governor of Nova
Scotia, 1811-16; Governor General of Canada, 1816-18.

Sherbrooke; creek and lake on creek, west of Hector railway station, Kootenay district, B.C.
After Sherbrooke, Quebec.

Sherbrooke; islands, St. Lawrence river, Lansdowne township, Leeds county, Ont.
See Sherbrooke city.

Sherbrooke; township, Haldimand county, Ont. (Not Sherbrook.)
See Sherbrooke city.

Sherbrooke; village, Guysborough county, N.S. (Not Sherbrook.)
See Sherbrooke city.

Sheridan; lake, 17 miles south of Canim lake, Lillooet district, B.C. (Not Eagle.)
After James Sheridan, owner of first pre-emption on the lake.

Sheringham; point, west of Sooke inlet, Vancouver island, B.C. (Not Sherringham.)
After Commander (later Vice Admiral) William Louis Sheringham, R.N., in charge of
various surveys; died, 1873.

Sherrick; hill, east entrance to Rupert bay, Mistassini territory, Que.

Sherwood Spring; village, Elizabethtown township, Leeds county, Ont. (Not Sherwood
Springs.)
After early settler.

25c—16½
Sherwood; point, Presqu'ile bay, Northumberland county, Ont. (Not Sherwood's.)

Shesheeb; bay and point, 17 miles northeast of point Magnet, Thunder Bay district, Ont. (Not Sheepshank, Sheesheeb nor Shesheep.)

Indian name meaning "duck."

Shesheinquann. See Shoshokwan.

Sheslay; river, tributary to Inklon river, Taku river, Cassiar district, B.C.

Shezal; cañon, Gravel river, below Natla river, X.W.T.

Indian name meaning "crooked."

Shesheinqitann. See Shoshokwan.

Sheslay; river, tributary to Inklon river, Taku river, Cassiar district, B.C.

Shezal; cañon, Gravel river, below Natla river, N.W.T.

Indian name meaning "crooked."

Shidahawk. See Shiktahawk.

Shieck. See Sheek.

Shields; landing, west side of Lower Arrow lake, Kootenay district, B.C.

Shiktahawk; river, tributary to St. John river, Carleton county, N.B. (Not Shiktahawk, Shikatahawk nor Shikitihawk.)

Indian name meaning "runs out in flatland."

Shingwak; lake, north of Kakagi lake, Kenora district, Ont. (Not Pine.)

Indian name meaning "pine."

Shinimikas; river, flowing into Northumberland strait, Cumberland county, N.S. (Not Chinimicash, Shinemecas, Shinemakas, Shinimecas nor Shinimecas.)

Indian name meaning "shining river."

Ship; bank, Owen channel, Manitoulin district, Ont.

Shippigan; harbour, island and village, Gloucester county, N.B. (Not Shippegan.)

Micmac Indian name meaning "duck road," there is a small passage through which ducks fly from one place to another.

Shipwreck; point, Kings county, P.E.I.

Descriptive.

Shi-shi-shi. See Octave.

Shoal; point, Presqu'ile bay, Brighton township, Northumberland county, Ont.

Shoe; island, St. Lawrence river, Escott township, Leeds county, Ont.

Shoemaker. See Ingall.

Shogomoc; lakes and river tributary to St. John river, York county, N.B. (Not Sheogomoc nor Shogamoc.)

Maliseet Indian name said to mean "still water lake," i.e., without rapids near its outlet.

Sholiaban; creek and fishing station, west of Mekattina cape, Saguenay county, Que. (Not Choniaban, Souribon nor Sourilaban.)

Montagnais Indian name meaning "silver mine."

Shongwashu; lake, near height-of-land, southeast of Dinorwic lake, Kenora district, Ont. (Not Shongwashoucheneibwin.)

Indian name meaning "watching mink."

Shonyo. See Chagnon.

Skookum. See Skookum.

Shoo-wah-tlans. See Shawatlan.

Shoshokwan; lake and river tributary to upper Ottawa river, Montmagnes and Pontiac counties, Que. (Not Shoshoquon nor Shesheinquann.)

Indian name meaning "where the ice cracks."

Shotbolts. See Gonzales.

Shoulie. See Shulie.

Showshwapi. See Shuswap.
Shovel; pass, Maligne mountains, from Athabaska river to Maligne lake, Jasper park, Alberta. Name suggested by Mrs Schäffer, who found snow shovels in the pass.

Shubenacadie; lake, Halifax and Hants counties, N.S. (Not Grand nor Shubenacadie Grand.) Indian name meaning "ground nut place."

Shulaps; mountain, between Yalakom river and Bridge river, Lillooet district, B.C.

Shulie; river and village, Cumberland county, N.S. (Not Shoulie.)

Shunda; creek, tributary to North Saskatchewan river in Tp. 40, R. 13, W. 5 M., Alberta. (Not Mire.)

Shuswap; lake, river, flowing into lake and railway station, Kamloops district, B.C. (Not Shonshwap lake nor Spallumcheen river.)

Shuswap; mountains, east of Shuswap lake, Kamloops district, B.C. After Indian tribe.

Shute; passage, south of Portland island, leading into Satellite channel, Vancouver island, B.C. After Captain James Shute, Royal Marines, H.M.S. "Topaze", on Pacific station, 1859-63.

Shute; point, east shore of Stokes bay, Bruce county, Ont. After postmaster, Stokes Bay.

Sibbald; creek, tributary to Jumpingpond creek, Bow river, Alberta. After Frank Sibbald, rancher.

Sibell; bay, Ladysmith harbour, Vancouver island, B.C. After sister of Lieutenant V. R. Brandon, Admiralty survey, 1903-04.

Sibert; point, southeast entrance to Pine Tree harbour, Bruce county, Ont. After Mr. Sibert, Southampton Lumber Co.

Sicannie Chief. See Sikanni Chief.

Sidney; channel, island and town, southeast coast of Vancouver island, B.C. (Not Sydney.) The island is so named on the chart of Captain Richards' survey, 1859.

Sidney; township, Hastings county, Ont. After Thomas Townshend, Viscount Sidney (1732-1800).

Siffleur; mountain, south of junction of North Saskatchewan and Siffleur rivers, Rocky mountains, Alberta. After the siffleur or whistling marmot.

Siffleur; river, tributary to North Saskatchewan river in Tp. 36, R. 18, W. 5 M., Alberta. See Siffleur mountain.

Sifton; lake, headwaters of Bell river, Pontiac county, Que. After Sir Clifford Sifton, Minister of the Interior of Canada, 1896-1905; chairman, Commission of Conservation.

Sifton; mount, between Rogers peak and mount Grizzly, Selkirk mountains, Kootenay district, B.C. See Sifton lake.

Sifton; mountains, south of Peters range, west of lake Laberge, Yukon. See Sifton lake.

Sigiga. See Haven.

Sikanni. See Muskwa.

Sikanni Chief; river, tributary to Fort Nelson river, Peace River district, B.C. (Not Sicannie Chief.)

Silm compress. Named by Walter Moberly, who met the Sikanni Indians at the river. Sikanni means "dwellers on the rocks."

Silver; creek, flowing from south into Fraser river, below Hope, Yale district, B.C.

Silver; islet, lake Superior, 6 miles east of Thunder cape Thunder Bay district, Ont. From silver mines.
Silver; lake, east of Pettypiece township, Kenora district, Ont. (Not Manitou.)

Silver; mountain, Lybster township, Thunder Bay district, Ont.
From the silver mined here.

Silver. See Eastman.

Silver. See Lowes.

Silver Bow. See Pend-d’Oreille.

Silvercup; mountains, east of Trout lake, Kootenay district, B.C. (Not Silver Cup.)

Silverhorn; mountain, north of Bow lake, Alberta.
Descriptive.

Silver Islet; settlement, 6 miles east of Thunder cape, Thunder Bay district, Ont.
See Silver islet.

Silver Salmon; river, tributary to Nakina river, Taku river, Cassiar district, B.C.

Silvertip; glacier, mountain, névé and pass, northwest of Sir Sandford range, Selkirk mountains, Kootenay district, B.C.
Descriptive of mountain.

Simcoe; bank and point, west entrance to Providence bay, Manitoulin island, Manitoulin district, Ont.
A vessel of this name foundered in the locality.

Simcoe; county and lake, southeast of Georgian bay, Ont.
The county was named after John Graves Simcoe (1752-1806), first Lt. governor of Upper Canada, 1791-96. The lake was named by Governor Simcoe after his father, Capt. John Simcoe, R.N., one of Wolfe’s captains killed at Quebec, 1759.

Simcoe; island, west of Wolfe island, St. Lawrence river, Frontenac county, Ont. (Not Gage).
Its proximity to Wolfe island indicates that it was named after Capt. John Simcoe.
See Simcoe lake.

Similkameen; river, Similkameen and Yale districts, B.C. (Not South Similkameen.)

Simmons; creek, tributary to Stewart river, near its confluence with Yukon river, Yukon.
See Sims.

Simon; bay, north of Greenough point and point, north of bay, Bruce county, Ont.

Simon; lake, Louvicourt township, Timiskaming county, Que.
After chief of Algonquin Indians at Grand lake Victória.

Simonette; river, tributary to Smoky river, Peace river, Alberta.

Simonhouse; lake, south of Cranberry lake, Man.

Simpson; lake and mountains, between Liard and Frances rivers, Yukon.
After Sir George Simpson (1792-1860), governor of Hudson’s Bay Co. in Canada, 1822-60.

Simpson; mount, east of Duncan lake, Kootenay district, B.C.

Simpson; pass, and river, headwaters of Kootenay river, Alberta and Kootenay district, B.C.
See Simpson lake.

Simpson; rock, Southgate group, Queen Charlotte sound, Coast district, B.C.

Simpson; settlement and Hudson’s Bay Co. post, confluence of Liard and Mackenzie rivers, N.W.T. (Not Fort Simpson.)
See Simpson lake.

Simpson Tower; a mountain, Frances lakes, Yukon. (Not Simpson’s.)

Sims; bay and island, west shore of South bay, Manitoulin island, Manitoulin district, Ont. (Not Simms.)
After Robert Sim, settler.
Sincennes; township and lake, Champlain county, Que. (Not Kawachikamick nor Kawash-ekamick.)
After Montreal business man.

Sineique. See St. Sixte.

Sinclair; creek, tributary to Columbia river from east below Windermere lake, Kootenay district, B.C.
After James Sinclair; in 1854, he conducted a party of emigrants to the Columbia river.

Sinclair; pass, at the head of Sinclair creek, tributary to Columbia river from east below Windermere lake, Kootenay district, B.C.
See Sinclair creek.

Singush; lake, Tp. 31, R. 24, W. P. M., Man. (Not Singoosh.)
Indian name meaning "weasel."

Sinking; lake, Tps. 59 and 60, R. 6, W. 4 M., Alberta.

Sinkut; lake and creek, flowing into Nechako river from south, near eastern boundary of Coast district, B.C. (Not Tsinkut.)

Sipanok; channel, between Carrot and Saskatchewan rivers, Sask. (Not Seeapanok nor See-panock.)
Cree Indian name meaning "channel."

Sipiwich; lake, long. 97° 30', Nelson river, Man. (Not Sepewesik.)
Indian name meaning "lake of channels."

Sir Alexander; mount, about lat. 54, long. 120° 15', Cariboo district, B.C.
After Sir Alexander Mackenzie (1755-1820), who crossed the Rockies to the Pacific in 1793 near this mountain.

Sir Donald; mount, east of Glacier railway station, also glacier and range of mountains, Selkirk mountains, B.C.
Named by order in council in 1885 after Lord Strathcona, then Sir Donald A. Smith.

Sir E. Home's. See Home.

Sir Robert; mount, lat. 54° 47', long. 128° 08', Coast district, B.C.

Sir Sandford; mount, glacier and range of mountains, running northeast to southwest from mount Palmer to Citadel mountain, west of Gold river, Selkirk mountains, Kootenay district, B.C.
See Fleming peak.

Sir Thomas Rowe's Welcome. See Roos Welcome.

Sir William; island, St. Lawrence river, Lansdowne township, Leeds county, Ont.
After Admiral Hon. Sir William Cornwallis.

Sisipuk; lake, Churchill river, Sask. and Man. (Not Duck.)

Sisson; lake and river, tributary to Tobique river, Victoria county, N.B. (Not Little Tobique nor West branch of Tobique.)
Probably after lumberman.

Sisters; islands, St. Lawrence river, Leeds township, Leeds county, Ont.
Descriptive.

Sitidgi; lake, north of Great Bear lake, N.W.T. (Not Setidgi.)

Siwiti; rock, Blunden harbour, Queen Charlotte sound, Coast district, B.C.
After Siwiti, chief of the Indians of Blunden harbour, in 1903.

Six-mile. See Saugum.

Sixteen Mile. See Oakville.

Sixty-mile; river, tributary to Yukon river, Yukon.

Skagit; range of mountains and river, Yale district, B.C.

Skaloo. See Skelu.
Skeena; river, emptying into Pacific ocean, Cassiar and Coast districts, B.C. (Not Skena.)
From Indian "iksh," out of, and "shean" or "shyen," "the clouds," indicating the clouds as the source of the river.

Skelton; island, Brock group, St. Lawrence river, Leews county, Ont. (Not Big nor Round.)
After Brevet Major Henry Skelton, 19th L.D., appointed major of brigade in Canada, 22 August, 1813.

Skelu; inlet, west coast of Graham island, opposite Hippa island, Queen Charlotte islands, Coast district, B.C. (Not Skaloo.)

Skemo. See Skeena.

Skidegate; inlet and channel, between Graham and Moresby islands, Queen Charlotte islands Coast district, B.C.
An adaptation of a Haida Indian word meaning "red paint stone," and a name of the principal chief residing here.

Skinner; bluff, Cowichan harbour, Vancouver island, B.C.

Skinner; brook, flowing into Middle river, Pictou county, N.S. (Not McLeod.)

Skinner Pond; village, Prince county, P.E.I. (Not Skinner's Pond.)
The pond was known in 1816 as "l'étang des Peaux," which was translated later to "Skin pond," and changed later still to "Skinner pond."

Skirmish. See Wild Horse.

Skirt; mountain, west of Esquimalt, Vancouver island, B.C.

Skoki; mountain and valley, northwest of Fossil mountain, Rocky mountains, Alberta and Kootenay district, B.C.
Indian for "marsh" or "swamp."

Skonun; point, McIntyre bay, about 6 miles east of Masset harbour, Graham island, Coast district, B.C. (Not Skon-un nor Tchow-un.)

Skonun; river, tributary to Sangan river and point, east of Masset harbour, Graham island, Coast district, B.C. (Not West branch of Sangan river.)

Skookum; lake, Galbraith township, Algoma district, Ont. (Not Shookum.)
Chinook word meaning "strong."

Slade; mountain, lat. 50° 30', long. 116° 21' and creek, tributary to Horsethief creek, Kootenay district, B.C. (Not Boulder.)
After prospector.

Slate; lake, Wenassaga river, tributary to lac Seul, Patricia district, Ont.

Slatechuck; mountain, northwest of Kagan bay, Skidegate inlet and creek flowing into bay, Graham island, Coast district, B.C. (Not Slatechuck.)

Slaughenwhite; point, northeast of Head harbour, St. Margaret bay, Halifax county, N.S. (Not Oakland.)
Named by Captain P. F. Shortland, R.N., 1864; a common family name about St. Margaret bay.

Slave. See Lesser Slave.

Slave. See Sleeve.

Sleepy; river, Louvicourt township, Timiskaming county, Que.

Sleeve; lake, Tp. 24, R. 4, W. P. M., Man. (Not Slave.)

Slipper; mount, lat. 65° 16', near international boundary, Yukon.
After E. S. Slipper, member of Geological Survey party, 1912.

Slocoh. See Sloko.

Slokan; lake, river and town, Kootenay district, B.C. (Not Slocan City.)

Sloko; inlet and island Atlin lake, mountain, east of inlet, lake and river, tributary to Taku river, Cassiar district, B.C. (Not Slocoh.)
Small. See Little Bow.

Small Trout. See Meggisi.

Smart; mount, west of Mount Bonney, head of Loop brook, Selkirk mountains, Kootenay district, B.C.

After James A. Smart, Deputy Minister, Dept. of the Interior of Canada, 1897-1905.

Smith; creek, flowing into Blackstone river, from south in Tp. 42, R. 19, W. 5 M., Alberta.

After member of coal prospecting party.

Smith; point, southwest point of Cockburn island, Manitoulin district, Ont.

Smith; rock, south of McLelan rock, Fitzwilliam channel, entrance to Georgian bay, Manitoulin district, Ont.

After William Smith, Deputy Minister of Marine and Fisheries.

Smith. See Wynott.

Smiths Falls; town, Montague township, Lanark county, Ont. (Not Smith's Falls.)

After Thomas Smith who settled about 1845.

Smoke; lake, Peck township, Algonquin National park, Nipissing district, Ont.

Smoke; point, Weller bay, east of Pine point, Ameliasburg township, Prince Edward county, Ont.

Smoke. See Aubrey.

Smoke. See Hickey.

Smokehouse; circular island, 2 miles north of Chiefs point, Bruce county, Ont.

Site of fish smokehouse.

Smoking. See Smoky.

Smoky; lake, Tps. 59 and 60, R. 18, W. 4 M., Alberta.

Smoky; river, tributary to Peace river, Alberta. (Not Smoking.)

Translation of Indian name; explained by smouldering coal beds along the river banks.

Smooth pond. See Fraser lake.

Smoothrock; lake, northwest of lake Nipigon, Thunder Bay district, Ont. (Not Smooth Rock Island.)

Smoothrock; lake, south of Manitou lake, southern portion of Kenora district, Ont. (Not Clear.)

Snake; island, bay of Quinte, east of Belleville, Hastings county, Ont.

Snake; island, Departure bay, east coast of Vancouver island, B.C. (Not Lighthouse.)

Descriptive.

Snake; island, southern and larger of the two islands in lake Simcoe, off Gwillimbury North township, York county, Ont.

Family name of Indian chiefs.

Snake. See Bloomfield.

Snake. See McCallum.

Snake. See Matheson.

Snake. See Sylvan.

Snake Indian; river, tributary to Athabaska river from west, below Jasper lake, Jasper Park, Alberta. (Not Stoney nor Stone Indian.)

After Indian tribe; name on Palliser Expedition map, 1865.

Snape; point, east entrance to Rupert bay, Mistassini territory, Que.

Snares. See Schnare.
Snaring; river, tributary to Athabaska river from west, above Jasper lake, Jasper park, Alberta. After an extinct Indian tribe; they subsisted on animals captured in snares of green hide; name on David Thompson's map, 1813-14.

Snelles. See Senelles.

Snider; hamlet, Trafalgar township, Halton county, Ont. (Not Snider's Corners.)

Snider; rock, southwest coast of Digby island, Coast district, B.C. After inventor of the rifle.

Snider's Corners. See Snider.

Snowcap; mountain, west of Stikine river, about 9 miles south of Kates Needle, Cassiar district, B.C.

Snowdon; range of mountains, southeast of Gladys lake, Cassiar district, B.C.

Snowslide; creek, branch of Caribou creek, Kootenay district, B.C.

Snowy; mountain, east of Stikine river, near the elbow, Cassiar district, B.C.

Sockeye; railway station, north shore of Skeena river, Coast district, B.C. Corruption of Indian word "sookai," meaning "the fish of fishes"—the finest species of salmon.

Sodalite; valley, east of Ice river, Rocky mountains, Kootenay district, B.C. Descriptive.


Sogakwa; portage, head of Pizustigwan river, northwest of Attawapiskat lake, Patricia district, Ont.

Solitude; mountain, east of Columbia river, north of Bush lake, Rocky mountains, Kootenay district, B.C.

Solmes; island, east of Telegraph island, bay of Quinte, Prince Edward county, Ont.

Solmesville; village, Sophiasburg township, Prince Edward county, Ont.

Solomons Temples; islands, west of Moar bay, James bay, N.W.T. (Not Solomon Temple.) Descriptive.

Somass; river, flowing into head of Alberni canal, Vancouver island, B.C. (Not Somas, Somos., Sumas nor Sumass.)

Somenos; lake and settlement, north of Cowichan river, Vancouver island, B.C.

Somerset; island, northwest of Baffin island, N.W.T. (Not North Somerset.) Named by Parry, 1820, after his native county in England.

Sonata; mountain and nève, Tp. 30, R. 28, W. 5 M., Selkirk mountains, Kootenay district, B.C.

Sonora; island, between Vancouver island and the mainland, Coast district, B.C. The northern portion of what was formerly Valdes island. After the Spanish schooner "Sonora" on the coast, 1775.

Sooke; basin, bay, harbour, inlet, lake and river, south coast of Vancouver island, B.C. The inlet was named by Hudson's Bay Co. officers after a tribe of Indians.

Sophia; mountain, near international boundary, Kootenay and Similkameen districts, B.C.

Sophiasburg; township, Prince Edward county, Ont. (Not Sophiasburgh.) After Princess Sophia (1777-1848), daughter of King George III.

Sorcerer; glacier and mountain, headwaters of North fork of Illecillewaet river, Selkirk mountains, Kootenay district, B.C.

Soskumika; lake, Nottaway river, Abitibi territory, Que.
Soulanges. See Dondaine.

**Sounding**; creek and lake, eastern Alberta.

The Indian tradition is that an eagle with a snake in its claws flew out of the lake making a rumbling noise like thunder.

**Source**; lake, Peek township, Algonquin National park, Nipissing district, Ont.
At the headwaters of the Madawaska river.

**Souriban.** See Sholiaban.

**Sourilaban.** See Sholiaban.

**Souris**; river, tributary to Assiniboine river, Sask. and Man.
Called "Mouse" by David Thompson, 1797; probably translation of Indian name.

**Souris**; town, Kings county, P.E.I. (Not East Souris.)
From a plague of "mice" which destroyed everything in a night.

**South**; bay, Manitoulin island, Manitoulin district, Ont. (Not Manitoulin gulf.)
Descriptive.

**South**; lake, international boundary, Thunder Bay district, Ont.
The first lake "south" of the height-of-land.

**South.** See Algeron.

**South.** See Koksoak.

**South.** See Prince Edward.

**South.** See Sandilands.

**Southampton**; town, lake Huron, mouth of Saugeen river, Bruce county, Ont.

**South Antler.** See Antler.

**South Bay.** See Prince Edward.

**South Baymouth**; village, entrance to South bay, Manitoulin island, Manitoulin district, Ont.
Descriptive.

**South branch of Highwood.** See Stimson.

**South branch of Little.** See Flemming.

**South branch of Michel.** See Leach.

**South branch of Moose.** See Mattagami.

**South branch of Petawawa.** See Barron.

**South branch of Sheep.** See Sheep.

**South Duck**; river, flowing into Duck bay, lake Winnipegosis in Tp. 37, R. 20, W. P. M., Man.
(Not Duck river South.)

**Southern Indian**; lake, Churchill river, Man. (Not Indian nor South Indian.)
The lake of the Southern Indians or Crees.

**Southesk**; river, western tributary to Brazeau river, Alberta.
After James Carnegie, Earl of Southesk (1807-1905), who visited it in 1859 on a hunting expedition in western Canada, undertaken in search of health: author of "Saskatchewan and Rocky Mountains."

**South fork of Beaver.** See Crystal.

**South fork of Bridge.** See Hurley.

**South fork of Findlay.** See Lavington.

**South fork of Gold.** See Caven.

**South fork of Grave.** See Harmer.

**South fork of Horsethief.** See Farnham.

**South fork of Oldman.** See Castle.

**South fork of Salmon.** See Dunbar.
South fork of Middle fork of Spillmaccheen. See Vowell.

South Fowl; lake, source of Pigeon river, international boundary, Thunder Bay district, Ont. (Not Cock.)

Southgate; river, flowing into head of Bute inlet, Coast district, B.C.
   After J. J. Southgate, merchant, Victoria, B.C.

South Heart. See Heart.

South Joggins. See Joggins.

South Mimickingash. See Roseville.

South Mya. See Mya.

South Nation; river, tributary to Ottawa river, Grenville, Dundas, Stormont, Russell and Prescott, counties Ont. (Not Little Nation, Nation nor Petite Nation.)
   After the "Petite Nation des Algonquins."

South Portawawa. See Petawawa.

South Porpoise. See Lelu.

South Rideau. See Kemptville.

South Similkameen. See Similkameen.

South Thompson; river, flowing from Shuswap lakes to Kamloops lake, Kamloops district, B.C.
   After David Thompson (1770-1857), who explored the river.

South Turtle. See Hillerest.

South Wellington; settlement, south of Nanaimo, Vancouver island, B.C.
   South of Wellington, which after Arthur Wellesley, Duke of Wellington (1769-1852.)

Southwest; bay, lake Evans, Abitibi territory, Que.

Southwest; point, Anticosti island, Saguenay county, Que. (Not South West.)
   Descriptive.

Southwest branch of Halfway. See Graham.

Soyers; lake, Minden township, Haliburton county, Ont.

Spallumcheen. See Shuswap.

Spanish; river, flowing from Biskotasi lake into North channel of lake Huron, Algoma and Sudbury districts, Ont.

Spar; lake, near height-of-land, south of Separation lake, English river, northern boundary of Kenora district, Ont.
   After fluor spar found in the vicinity.

Sparidan. See Ferguson.

Sparrow; island, Brock group, St. Lawrence river, Leeds county, Ont.

Spearing; mount, about 7 miles northwest of Tulameen, Yale district, B.C.
   After trapper.

Spectacles; islands (2), north of Wolfe island, St. Lawrence river, Frontenac county, Ont.
   Descriptive.

Spectacles; rocks, 1 ½ miles west of Gananoque, St. Lawrence river, Leeds county, Ont.
   Descriptive.

Spence; lake, Tps. 29 and 30, R. 16, W. P. M., Man.

Spencer; creek, tributary to Bow river from north, east of Radnor railway station, Alberta.

Spica. See Ospika.

Spicer; harbour and island, north shore of Hudson strait, N.W.T.
   Named 1897, after Capt. Spicer, New Bedford.

Spike; peak, head of Otterhead river, Rocky mountains, Kootenay district, B.C.
   Descriptive.
Spillimacheen; river tributary to Columbia river, Kootenay district, B.C. (Not Spill En Mee Chene nor Spillimacheen.)

Spilsbury; island, Navy group, St. Lawrence river, Leeds county, Ont. After Captain Francis Brockell Spilsbury, R.N., distinguished himself on the Great lakes during the war of 1812-14.

Spire; island and ledge, entrance to Prince Rupert harbour, Coast district, B.C. (Not Ghost).

Spirit; creek, tributary to Wild Horse river, Kootenay river, Kootenay district, B.C.

Spirit; river, tributary to Peace river, below Dunvegan, Alberta. (Not Ghost.)

Spirit River; settlement, south of Dunvegan, Alberta.

Spirit. See Beauchamp.

Spit; head, west extremity of Howe island, St. Lawrence river, Frontenac county, Ont.

Split; cape, Kings county, N.S. (Not Spitt.) Descriptive.

Split; lake, Nelson river, Man.

Translation of Indian name a string of islands “split” it.

Spong; island, St. Lawrence river, Yonge township, Leeds county, Ont.

So named on Captain W. F. Owen's chart, 1818.

Spray; mountains and river, tributary to Bow river at Banff, Alberta.

The mountains after the river, which descriptive.

Spring; cove, southwest side of entrance to Ucluelet arm, Barkley sound, Vancouver island, B.C.

After William Spring, who established a trading station in the vicinity, 1869.

Springer; point, Sonora island, opposite northwest point of Maurelle island, Coast district, B.C.

After lumberman.

Springhill; settlement, west of Fredericton, York county, N.B. After the name of the residence of Chief Justice Ludlow who named it after Springhill, the residence of Governor Colden of New York.

Springhill; village, Frontenac county, Que. (Not Spring Hill.)

Sproat; mount, north of Upper Arrow lake, Kootenay district, B.C.

After G. M. Sproat, gold commissioner for West Kootenay, 1885–90.

Spruce; river, flowing into the Saskatchewan, at Prince Albert, Sask. (Not Little Red.) Descriptive.

Sprucegrove; hamlet, west of Edmonton, Alberta. (Not Spruce Grove.) Descriptive.

Spyglass; mountain, west of mount Keen, west of Lardreau river above Poplar creek, Kootenay district, B.C.

Squakum. See Cahill.

Squally; reach, Saanich inlet, Vancouver island, B.C.

Squamish; pass, river entering the head of Howe sound, and post office, New Westminster district, B.C.

Square; bay, 6 miles northwest of Providence point, Manitoulin island, Manitoulin district, Ont.

Descriptive.

Square; brook, flowing into Minas channel, Kings county, N.S. (Not Square Cove.)

Square; lake, northeast of lac La Biche, central Alberta.

Descriptive.

Square. See Squire.

Square. See Squire.

Squaw. See Brock.
Squire; point, south shore of Call creek, between Johnstone strait and Knight inlet, Coats district, B.C. (Not Square.)


Squirrel. See Footprint.

Srigley; bay, southeast of Portage bay, Manitoulin island, Manitoulin district, Ont.

After Robert Manuel Srigley, settler.

Stafford; rock, north of Western Duck island, Manitoulin district, Ont.

After steamer "Alice Stafford."

Stainforth. See Staniforth.

Stanawan; lake, southwest of Dinorwic lake, Kenora district, Ont. (Not Grassy River.)

Indian name meaning "main route."

Stanford; range of mountains, between Columbia and Kootenay rivers, Kootenay district, B.C.


Staniforth; point, entrance to Gardner canal, Coast district, B.C. (Not Stainforth.)

Named by Joseph Whidbey, Vancouver's shipmaster, 1793.

Stanjkicoming; bay, Rainy lake; east of Miscampbell township, Rainy River district, Ont. (Not Stangekoming nor Stanjicoming.)

Stanley; creek, tributary to Tatshenshini river, Alsek river, Cassiar district, B.C.

Stanley; island, St. Lawrence river, south of Summerstown, Charlottenburg township, Glengarry county, Ont. (Not Craigs.)

Stanley; spur, Valkyr mountains, east of Lower Arrow lake, Kootenay district, B.C.

Stanley; village, York county, N.B. (Not Stanley Village.)

After Lord Stanley, 14th Earl of Derby (1799-1869), president of a British company, whose agents were sent out in 1834 to form a settlement in Nova Scotia and New Brunswick.

Stanley Corners; hamlet, Goulbourn township, Carleton county, Ont. (Not Stanley's Corners.)

After Jonathan Stanley, postmaster.

Stanley Mills; hamlet, Toronto gore, Peel county, Ont. (Not Stanley's Mills.)

After Stanley Mills, miller, early settler.

Stanzhikimi; lake, southwest of Schist lake, Kenora district, Ont.

Stapledon; island, east of Lelu island, east of entrance to Prince Rupert harbour, Coast district, B.C.

After manager of cannery.

Starbird; ridge, between Horsethief and Forster creeks, Kootenay district, B.C.

After rancher on Horsethief creek.

Starnesboro; hamlet, Huntingdon county, Que. (Not Starnesborough.)

After Henry Starnes, M.L.A., Quebec.

Starr; creek, tributary to Pelly river, below Hoole river, Yukon.

After prospector.

Starvation; creek, crossing the international boundary in long. 114° 19', Kootenay district, B.C.

Starvation. See Strawberry.

Stave; island, Navy group, St. Lawrence river, Leeds county, Ont. (Not Big Stave.)

Steamboat; mountain, west of Columbia river, below Forster creek, Kootenay district, B.C.

Steamboat. See Shawatum.

Stee. See Hayes.

Steele; town, Kootenay district, B.C. (Not Fort Steele.)

After General Sir Sam Steele, late of the Royal North West Mounted Police.
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Steep; creek, tributary to Beaverfoot river, from east, above confluence with Kicking Horse river, Rocky mountains, Kootenay district, B.C.
Descriptive.

Steepbank; river, emptying into lake Claire, lake Athabaska, Alberta. (Not Steep Bank nor Steep-bank.)

Steeprock; lake, Tp. 30, R. 15, W. P. M., Man. (Not Steep Rock.)

Steeprock; point, Tp. 28, R. 10, W. P. M., Man.
Descriptive.

Steeprock; river, flowing into lake Winnipegosis in Tp. 44, R. 25, W. P. M., Man. (Not Steep Rock.)
Translation of Indian name.

Steevens; island, between Greene island, and Manitoulin island, Manitoulin district, Ont. (Not Cariboo nor Little Green.)
After G. W. Steevens (1869-1900), war correspondent.

Stelako. See Stellako.

Stella; village, Stellako river, west of Fraser lake, Coast district, B.C.
Contraction of Stellako.

Stellako; river, flowing from François lake to Fraser lake, Coast district, B.C. (Not Stelako.)

Stephen; lake, north of Kakagi lake, Kenora district, Ont.

Stephen; mount, east of Field railway station, also railway station, Kootenay district, B.C.
After Sir George Stephen, Baron Mount Stephen, first president, Canadian Pacific Ry. 1881-88.

Stephens. See Navy.
Sterling. See Stirling.

Stevens; creek, draining through Whatshan lake and river into Lower Arrow lake, Kootenay district, B.C.

Stevens; island, Southgate group, Queen Charlotte sound, Coast district, B.C.

Stevens; mountain, south of Wheaton river, southern Yukon.
After Robert Stevens, prospector.
Stevens. See Navy.

Stewart; cañon, Cascade river, north of Banff, Rocky Mountains park, Alberta.
After George A. Stewart, D.L.S., former superintendent of Rocky Mountains park.

Stewart; lake, west of Vermilion bay, Eagle lake, Kenora district, Ont.

Stewart; river, tributary to Yukon river, Yukon.
Named by Robert Campbell, Hudson’s Bay Co., after a friend and assistant, James G. Stewart, son of Hon. James Stewart, Que.

Stewart. See Rouyn.

Stewart; rock, Owen channel, Manitoulin district, Ont.
After W. J. Stewart, chief hydrographer, Department of Naval Service.
Stewart. See Stuart.
Stick-al-din. See Stikyardin.
Stickeen. See Stikine.
Stickelahn. See Stikelan.

Stikelan; creek, flowing into Tatlayoko lake, from east, Coast district, B.C. (Not Stick elan.)

Stikine; river, Cassiar district, B.C. (Not Stickeen, Stikeen, etc.)
Indian name meaning “great river.”
Stikyadin; lake and mountains, at junction of Bulkley and Skeena rivers, Cassiar district, B.C.  
(Not Stiek-ah-din.)  
Indian name meaning "mountains with steep sides."

Stimson; creek, tributary to Highwood river, Bow river, Alberta.  
(Not South branch of Highwood.)  
After Fred Stimson, rancher.

Stimukoktok; cape, east shore of Ungava bay, New Quebec territory, Que.  
Eskimo name meaning "large cave."

Stirling; lake and village, southeast of Lethbridge, Alberta.  
(Not Sterling nor Eighteen Mile.)  
After Stirling, town, Scotland.

Stittville; hamlet, Goulbourn township, Carleton county, Ont.  
(Not Stittsville.)  
After Jackson Stitt, military settler, 1818.

Stockdale; creek, tributary to Horsethief creek in lat. 50° 33', long. 116° 30'; also mount,  
south of creek, Kootenay district, B.C.  
(Not North fork of Horsethief.)  
After prospector, Invermere.

Stockham; island, opposite southwest end of Meares island, Clayoquot sound, Vancouver  
After storekeeper.

Stockmer; mount, between Palmer creek and Columbia river, Selkirk mountains, Kootenay  
B.C.

Stockwell; lake, Tps. 27 and 28, Rs. 8 and 9, W. 3 M., Sask.  
(Not Red Deer.)

Stokes; bay and river, lake Huron, Eastnor township, Bruce county, Ont.

Stone; island, about midway between southwest portion of Meares island and southern main-  
land, Clayoquot sound, Vancouver island, B.C.  
After William John Stone, owner.

Stone.  See Lapierre.

Stone.  See Mirond.

Stoneberg; cove, Weller bay, Northumberland county, Ont.  
(Not Stoneburgh's.)  
Stoneburgh's.  See Stoneberg.

Stonecliff; village, Head township, Renfrew county, Ont.  
(Not Rockcliffe.)  
Descriptive.

Stonehouse; creek, flowing east into Kelsall river, Cassiar district, B.C.  
(Not Clear.)  
Stonehouse.  See Glengarry.

Stone Indian.  See Snake Indian.

Stoney; creek, Saltfleet township, Wentworth county, Ont.  
(Not Stony.)  
After Edmund Stoney, early settler.

Stoney.  See Snake Indian.

Stoney Creek; village, Saltfleet township, Wentworth county, Ont.  
See Stoney creek.

Stony; islet, lake Huron, north of Kincardine, Bruce county, Ont.

Stony; lake, Burleigh township, Peterborough county, Ont.  
Descriptive.

Stony; point, 3 miles northwest of Corbeil point, Batchawana bay, Algoma district, Ont.

Stony; point, Presqu'ile bay, Brighton township, Northumberland county, Ont.  
(Not Stoney)

Stony.  See Barrie.

Stony.  See Blake.

Stony.  See Melfort.

Stony.  See Okemasis.
Stonyplain; hamlet, west of Edmonton, Alberta. (Not Stony Plain.)
Formerly part of Stoney Indian reserve.

Stoplog; lake, Burleigh township, Peterborough county, Ont. (Not Stop Log.)

Storm; creek, tributary to Highwood river in Tp. 18, R. 7, W. 5 M., Alberta.
Descriptive.

Storm; mountain, Tp. 26, R. 15, W. 5 M., west of Twin lakes, Alberta and Kootenay district, B.C.
A storm was raging on it when named.

Stormy; lake, Glamorgan township, Haliburton county, Ont.
Descriptive.

Stouffville; village, Whitchurch township, York county, Ont. (Not Stouffville Junction.)
After Abraham Stouffer, settler, from Pennsylvania, U.S., 1804; died, 1851.

Stovel; peak, lat. 59° 54', long. 134° 07', Cassiar district, B.C.

Stovin; island, Brock group, St. Lawrence river, Leeds county, Ont. (Not Picnic nor Refugee.)
After Major General Richard Stovin, commanded Montreal district during the war of 1812-14.

Straggle; lake, Harcourt township, Haliburton county, Ont.
Descriptive.

Stragglers. See Wenkchemna.

Straight. See Opinaka.

Stranger; lake, southwest of Schist lake, Kenora district, Ont.
Stranger. See Mesilinka.

Stratford; township, Wolfe county, Que.

Stratharbo; settlement, Northumberland county, N.B. (Not Strathabo.)
After settlers named Arbo.

Strathcona; island, north shore of Hudson strait, N.W.T.
After Lord Strathcona.

Strawberry; island, lake Simcoe, Mara township, Ontario county, Ont. (Not Starvation.)

Stuart; channel, southeast coast of Vancouver island, B.C.
After Captain Charles Edward Stuart (1817-63), Hudson’s Bay Co., some time in charge of the company’s post at Nanaimo.

Stuart; lake and river, tributary to Nechako river, Fraser river, Coast district, B.C. (Not Stewart.)
After John Stuart, North West Co., who accompanied Simon Fraser when he ascended the river in 1806 and established a trading post at the lake.

Stukely; lake, north of Orford mountain, Shefford and Sherbrooke counties, Que. (Not Benllar, Brunella nor Orford.)

Stupart; bay, Hudson strait, New Quebec territory, Que.

Sturgeon. See Chalk.

Sturgeon. See Namew.

Sturgeon. See Nemei.

Sturgeon. See Chalk.

Sturgeon. See Scorch.

Sturgeon-weir; river, flowing into Cumberland lake, Sask. (Not Sturgeon Weir.)
Translation of Indian name; correctly, “place where sturgeon stop.”

Stutfield; peak, lat. 52° 15', long. 117° 29', headwaters of Athabaska river, Rocky mountains, Alberta.
After Hugh E. M. Stutfield, member of the English Alpine Club; joint author, with Collie of “Climbs and Explorations in the Canadian Rockies.”
Stutzer; mount, east of Nordenskiöld river, Yukon.

After Dr. O. Stutzer, Freiburg, Saxony, member of Geological Survey party.

Sucker. See Fergusson.

Sucker. See Garden.

Sucker. See Gladys.

Sucker. See Nemeibennuk.

Suetje. See De Smet.

Sugar. See Mulcaster.

Sugarbush; lake, Addington and Labelle townships, Labelle county, Que. (Not Sugar Bush.)

Sugarloaf; mountain, east of Stikine river, north of Iskut river, Cassiar district, B.C.

Sugarloaf; mountain, northwest of Beaver mountain, Selkirk mountains, Kootenay district, B.C.

Suggi; lake, Grassberry river, Sask. (Not Little Pelican.)

Indian name meaning "pelican."

Sullivan; hill, north of Kimberley, Kootenay district, B.C.

Sullivan; lake, lat. 52°, long. 112°; Alberta. (Not Sullivan's.)

Sullivan; mount, southeast of mount Lyell, headwaters of North Saskatchewan river, Rocky mountains, Alberta.

After John W. Sullivan, secretary, Palliser expedition, 1857.

Sullivan; mount, west of Dease lake, Cassiar district, B.C.

After J. M. Sullivan, first gold commissioner of the district; lost in the wreck of the "Pacific," 1875.

Sulphur; creek, tributary to Indian river, Yukon.

Sulphur; mountain, south of Banff, Alberta.

From sulphur springs at its base.

Sumac. See Robert.

Sumallo; river, tributary to Skagit river, Yale district, B.C. (Not Sumall.)

Sumas; lake, river and village, south of Fraser river, New Westminster district, B.C. (Not Sumass.)

Summit; lake, north of White pass, Cassiar district, B.C.

Summit. See Sasakwei.

Sunday; lake, Rowell township, Kenora district, Ont.

Sunday; mountain, north end of lake Laberge, Yukon.

Sunday; peak, lat. 59° 45', long. 134° 06', Cassiar district, B.C.

Sunny Brae; post office, Westmorland county, N.B.

Descriptive.

Sunshine; creek, flowing into east side of Lower Arrow lake, Kootenay district, B.C.

Sunshine; lake, east of Anzhecumming lake, Kenora district, Ont.

Sunwapta; river, tributary to Athabaska river, Jasper park, Alberta.

Stoney Indian for "turbulent river."

Superior; lake (Fr. Lac Supérieur). The largest body of fresh water in the world and highest of the five great lakes of the St. Lawrence system.

Supply. See Depot.

Surge; narrows, between Quadra island and south point of Maurelle island, Coast district, B.C.

Surprise; lake, east of Atlin, Cassiar district, B.C. (Not Kusiwah.)

Surprise; lake, expansion of upper Broadback river, Abitibi territory, Que.

Surprise; lake, south of Onamakawash lake, Lookout river, Thunder Bay district, Ont.

Surprise; mountain, west of north end of lake Laberge, Yukon.
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Survey; mountain, headwaters of Leech river, tributary to Sooke river, Vancouver island, B.C. Descriptive.

Surveyor; island, north of Hill island, St. Lawrence river, Leeds county, Ont. (Not Surveyor's.)

Named by Charles Unwin, who surveyed the islands in 1573.

Suskwa; river, tributary to Bulkley river, near Hazelton, Cassiar district, B.C. (Not Bear nor Susqua.)

Indian name meaning "bear."

Susqua. See Suskwa.

Sutherland; river, tributary to Inverness river, Swan river, south of Lesser Slave lake, Alberta. After Robert Sutherland, member of survey party.

Sutil; cape, west entrance to Goletas channel, northern coast of Vancouver island, B.C. (Not Commerell.)

Named by Galano and Valdes, 1792, after the Spanish exploring schooner "Sutil."

Sutton; bay, north end of lake Timiskaming, Timiskaming district, Ont. (Not Sutton's.) After settler.

Sutton; lake and river, emptying into Hudson bay, Patricia district, Ont. (Not Sutton Mill nor Trout.)

Named Sutton Mill lake by Thomas Bunn, Hudson's Bay Co. officer 1803.

Swamp; lake and portage, west of Saganaga lake, international boundary, Rainy River district, Ont.

Swan; island, Columbia river, between Arrow lakes, B.C.

Swan; river and lake, west of lake Winnipegosis, Man.

Swan; river, flowing from south into Lesser Slave lake, Alberta.

Swan. See Garson.

Swan River; village, Tp. 36, R. 27, W. P. M., Man.

Swanson; channel, between Saltspring island and Pender island, southeast coast of Vancouver island, B.C.

After Captain John Swanson (1827-72), Hudson's Bay Co.

Swanzey; mount and glacier, head of Loop brook, between mount Bonney and The Dome, Selkirk mountains, Kootenay district, B.C.


Sweathouse; creek, tributary to Little Smoky river in Tp. 69, R. 20, W. 5 M., Alberta. (Not Sweat House.)

Swede; creek, tributary to Yukon river, above Dawson, Yukon.

Named by Swedish miner.

Swede; island, lake Superior, largest of group, 9½ miles northeast of point Magnet, Thunder Bay district, Ont.

Sweet Herb. See Wekusko.

Swedl-tcha. See Cultus.

Swell; bay, Rainy lake, south of Halkirk township, Rainy River district, Ont. (Not Sewell.)

Named from the heavy swell when the wind is from the west.

Swetman; island, eastern of False Ducks islands, lake Ontario, Prince Edward county, Ont. After Frederick Swetman, lightkeeper, 1863-86.

Swiss; peaks, Hermit range, Selkirk mountains, Kootenay district, B.C.

Named by Carl Sulzer of the Swiss Alpine Club, 1890.

Sydney. See Sidney.

Sylvan; lake, west of Red Deer, Alberta. (Not Snake.)

Sylvia Grinnell; river, emptying into head of Frobisher bay, Baffin island, N.W.T.

After Sylvia, daughter of Henry Grinnell. See Grinnell.
Syncline; mountain, lat. 49° 21', long. 114° 27', Alberta.

Syringa; creek, tributary to Columbia river, south of Lower Arrow lake, Kootenay district, B.C.

After plant of this name.

T

Tabasintac. See Tabusintac.

Tabasokwia; river, western channel of Winisk river, Patricia district, Ont. 

Indian name meaning ‘low forest.’

Tabernacle; mountain, Selkirk range, Kootenay district, B.C.

Tabisintac. See Tabusintac.

Table; mountain, headwaters of Skeena river, lat. 57°, long. 128° 15', Cassiar district, B.C.

Table; mountain, Tp. 4, R. 2, W. 5 M., Alberta.

Table. See Distingué.

Tabusintac; river and village, Northumberland county, N.B. 

Micmac Indian name meaning ‘a pair of them.’

Taché; railway station, Kenora district, Ont.

Tachick; lake, draining into Nechako river above Stuart river, Coast district, B.C.

Tacho. See Tatsho.

Tackle; creek, tributary to Wild Horse river, Kootenay river, Kootenay district, B.C.

Tadoussac; township and village, Saguenay county, Que. (Not Tadousac.) The spelling adopted is that of the township proclamation. 

Possibly Montagnais Indian name meaning ‘at the breasts.’

Taggart; creek and lake, flowing into Cowan river in Tp. 61, R. 10, W. 3 M., Sask. (Not Rat.) After C. H. Taggart, assistant on topographical survey, 1909.

Tagish; lake, Cassiar district, B.C., and Yukon.

After Indian tribe.

Tahini; river, flowing from Duff lake, Cassiar district, B.C., into Chilkat river, Alaska. 

Indian name meaning ‘king salmon.’

Tahltan; lake and river, tributary to Stikine river, Cassiar district, B.C.

After a division of the Nahane Indians of the Athapascan family.

Talaloos. See Campbell.

Taibi; lake, Bell river, Abitibi territory, Que.

Takakkaw; falls, Yoho river, Rocky mountains, Kootenay district, B.C.

Indian name meaning ‘magnificent.’

Takameshau. See Eau Doree.

Takhini; river, tributary to Lewes river, Yukon.

Takipy. See Kississing.

Takia; lake, north of Babine lake, Cassiar district, B.C. (Not North Tacla nor Tacla.)

Taku; arm, Tagish lake, Cassiar district, B.C. and Yukon.

Taku; river, Cassiar district, B.C.

After Indian tribe.

Taku. See Graham.

Talaha; bay, east shore of Taku arm, Tagish lake, Yukon.

Talbot; lake, Redditt township, Kenora district, Ont.

Tallan; lake, Chandos township, Peterborough county, Ont. (Not Tallan's.)
Tallon; creek, tributary to Beaverfoot river from east above Steep creek, Kootenay district, B.C.
   After L. Tallon, P.L.S.

Taltmain; lake, south of Pelly river, below Macmillan river, Yukon.

Taltson; river, flowing from height-of-land at southeast into Great Slave lake, N.W.T. (Not Copper Indian, Rocher, Rock, T’altsan nor Yellow Knife.)
   Indian name meaning “between high rocks.”

Tamagaming. See Timagami.

Tamihy; creek, tributary to Chilliwack river, Yale and New Westminster districts, B.C. (Not Tummeahai.)

Tangamong; lake, Lake township, Hastings county, Ont. (Not Tangamongue.)

Tangier; harbour, island, lake and town, Halifax county, N.S. (Not Tangier Grand.)
   After a schooner wrecked on the coast about 1830.

Tantalus; butte, north of confluence of Nordenskiöld and Lewes rivers, Yukon.

Tanzilla; river, tributary to Stikine river, Cassiar district, B.C.

Tapani; lake and river, tributary to Lièvre river, Montcalm county, Que. (Not Tapanee nor Teepanee.)
   Indian name meaning “sledge” or “toboggan.”

Tar; island, St. Lawrence river, Escott township, Leeds county, Ont.

Tarte; bay, Kitimat arm, Coast district, B.C.
   After Hon Joseph I. Tarte (1848-1907), Minister of Public Works of Canada, 1896-1902.

Tartigou; river, flowing into the St. Lawrence in northwest corner of Matane township, Matane county, Que. (Not Tartigo.)

Tasseco. See Taseko.

Taseko; lakes (2), and river tributary to Chilko river, Lillooet district, B.C. (Not Taseco nor Whitewater.)

Tasheigama. See Asheigamo.

Tashka; rapids, 192 miles above mouth of Winisk river, Patricia district, Ont.
   Indian name meaning “splitrock.”

Tasin; mountains, between Stewart river and Lansing river, Yukon.
   Indian name meaning “dark.”

Tasso; lake, Finlayson township, Nipissing district, Ont.

Tasurak. See Payne.

Tatay. See Tatei.

Tatchun; river, tributary to Lewes river, from east, below Nordenskiöld river, Yukon. (Not Tatchum.)

Tatei; ridge, east of Robson pass, Rocky mountains, Alberta. (Not Tatay.)
   Named suggested by geologist; Stoney Indian for “wind.”

Tatla; lake, headwaters of Chilanko river, Coast district, B.C.

Tatlaho. See Tatlayako.

Tatlayako; river, tributary to Bellakula river, Coast district, B.C. (Not Tatlahoo nor Tatlayoo.)

Tatlayoco. See Tatlayoko.

Tatlayoko; lake, west of Chilko lake, Coast district, B.C. (Not Tatlayoco.)

Tatlow; mount, east of Chilko lake, Lillooet district, B.C.
   After Hon. Robert Garnet Tatlow, finance minister, B.C.; accidentally killed about 1909.
Tatonduk; river, tributary to Yukon river, Yukon. (Not Tatonduc.)

Tatshenshini; river, tributary to Alsek river, Cassiar district, B.C. and Yukon.

Tatsho; mountain and creek, tributary to Tanzailla river, Stikine river, Cassiar district, B.C. (Not Taeho nor Eightmile.)

Tatliki. See Graham.

Tawagadik; river, tributary to Matane river, Matane county, Que. (Not Taouagadec nor Towagodi.)

Tawatinaw; river, flowing into Athabaska river, at Athabaska, Alberta.

Indian name meaning “valley.”

Tawatinaw; lake and river, south of Schist lake, northeastern portion of Kenora district, Ont.

Indian name meaning “valley.”

Tawina; creek, flowing into Silver Salmon river, from north, at Kuthai lake, Cassiar district, B.C.

Taxes; river, tributary to Miramichi river, York county, N.B. (Not Taxis, Taxous nor Texas.)

After an Indian named Tax.

Taxis. See Taxes.

Taxous. See Taxes.

Tay; river, tributary to Pelly river, Yukon.

After Scottish river.

Taye; lake, southeast of Hutshi lakes, Yukon.

Taylor; island, south of Port Dover, Halifax county, N.S. (Not Dover nor Taylor’s.)

Named by Captain P. F. Shortland, R.N., 1864.

Taylor; mountain, between forks of South branch of Michel creek, east of Fernie, Kootenay district, B.C.

Taylor; reef, south of Misery bay, 6½ miles east of Walkhouse point, Manitoulin island, Manitoulin district, Ont.

After settler.

Taynton; mount and creek flowing into Toby creek, Kootenay district, B.C. (Not Johnson.)

After rancher.

Taysen; lake, draining through Ruth lake and creek into Nakina river, Cassiar district, B.C.

Tazin; lake and river, draining through Taltson river into Great Slave lake, N.W.T.

Indian name meaning “black.”

Tchork-back. See Chorkbak.

Tchow-un. See Skonun.

Tchuletzca. See Tutisika.

Tea; creek, tributary to Howser creek, Kootenay district, B.C.

Tea; lake, Peck township, Algonquin National park, Nipissing district, Ont.

Teal; lake, Grass river, Tps. 78 and 79, R. 4, E. P. M., Man.

Tecumseh; cove, 2½ miles south southeast of Cove island light, north point of the island, Bruce county, Ont.

After schooner wrecked near cove.

Tegart. See Windermere.

Teggau; lake, west of Eagle lake, Kenora district, Ont. (Not Clearwater.)

Indian name meaning “billow” or “wave.” The lake is a large sheet of open water.

Tekarra; mount, about 6 miles east southeast of Jasper, Jasper park, Alberta.

Named by Hector, 1859, after his Iroquois hunter.

Telegraph; creek, tributary to Stikine river, Cassiar district, B.C.

The Western Union Telegraph Co.’s projected line to connect the Old world and the New by way of Bering strait, 1866, crossed the Stikine at this point.
Telegraph: island and narrows, bay of Quinte, Hastings and Prince Edward counties, Ont.

Telegraph Creek: village, Stikine river, Cassiar district, B.C.

Telkwa: river, tributary to Bulkley river, Skeena river, Coast district, B.C. (Not Tel-kwa nor Telqua.)

Temagami: See Timagami.

Temiscaming: See Timiskaming.

Temiscamingue: See Timiskaming.

Temiskaming: See Timiskaming.

Tempest: lake, National Transcontinental railway, 5 miles east of Lookout river, Thunder Bay district, Ont.

After Grand Trunk Pacific Ry. engineer.


After Sir Richard Temple, leader of the British Association excursion party to the Rockies, 1884.

Templeman: mount, west of Duncan river, between Stevens and Hall creeks, Kootenay district, B.C.

After late Hon. Wm. Templeman, Minister of Inland Revenue and Mines of Canada.

Templeton: river, flowing into Columbia river from west, about 13 miles above Spillimacheen river, Kootenay district, B.C. (Not Salmon.)

Tenants. See Terence.

Tenderfoot: creek, tributary to Larder river from west, Kootenay district, B.C.

Tendinenda: lake, Mack and Scarf townships, Algoma district, Ont. (Not Madendanada, Matinatinda nor Tendinendan.)

Tenny: cape, Hants county, N.S. (Not Teny.)

Tennycapre: river and village, Hants county, N.S. (Not Tenecape nor Tennycape.)

Ten; mountain, lat. 49° 33', long. 114° 43', and pass, north of mountain, Alberta and Kootenay district, B.C.

Descriptive.

Teny. See Tenny.

Tennycape. See Tennycape.

Ten Peaks; valley of, Tp. 27 R. 16 W. 5 M., Alberta. (Not Desolation nor Lonely.)

There are ten peaks in the mountain encircling the head of the valley.

Tent; mountain and pass, south of Crowsnest, Alberta and Kootenay district, B.C.

Descriptive.

Tent. See Murray.

Tent. See Peel.

Tepanee. See Tapani.

Terence: basin, bay, river and rock, Halifax county, N.S. (Not Tenants bay, Tern bay, Turner bay nor Turnerbay rock.)

Terence Bay: settlement, Halifax county, N.S.

Teresa: island, Atlm lake, Cassiar district, B.C. (Not Goat.)

Terminal: peak, southwest shoulder of mount Sir Donald, Selkirk mountains, Kootenay district, B.C. (Not Green's.)

Descriptive.

Tern. See Terence.

Terrace: ridge, Porcupine river, northeast of mount Dewdney, Yukon.

Terrahina: creek, flowing into Sucker river in lat. 59° 36', long. 132° 49', Cassiar district, B.C (Not Terra Heena.)
Terry; point, southeast entrance to Johnston harbour, about 4 miles northwest of Pine Tree harbour, Bruce county, Ont.

   After owner of yacht "Huntress."

Tesycau. See Tesekau.

Tesekau; lake, Marten river, Mistassini territory, Que. (Not Tesaycau.)

Teslin; lake and river, B.C. and Yukon. (Not Hootalinqua nor Teslin-too.)

Tesse-Clewee. See Klewi.

Tetagouche; river, Gloucester county, N.B. (Not Teteagouche nor Tete à Gouche.)

   Miemae Indian name meaning "squirrel."

Tetagouche. See Tetagouche.

Tête-à-la-Baleine; post office, Céry township, Saguenay county, Que.

Tethsah. See Tetsa.

Tétérauville; hamlet, Laval county, Que. (Not Tétreaultville.)

Tetsa; river, flowing from west into Muskwa river, Fort Nelson river, Peace River district, B.C. (Not Teth-tsah.)

   Indian name meaning "tar river."

Texas. See Taxes.

The Beehive; mountain, west of lake Louise, Alberta.

   Descriptive.

The Bishops; range, Selkirk mountains, Kootenay district, B.C.

   Named "Mitre" range, 1890, from its appearance from mount Donkin, but changed 1902, owing to duplication.

The Coteau; the eastern edge of a prairie steppe, southern Saskatchewan.

   Descriptive.

The-cul-thi-li. See Thekulthili.

The Dome; mountain, west side of Asulkan valley, between Castor and The Rampart, Selkirk mountains, Kootenay district, B.C.

   Descriptive.

The Goat's Looking Glass. See Agnes.

The Grove; hamlet, London township, Middlesex county, Ont.

   Descriptive.

The Knob; a mountain, east of Stikine river, north of Iskut river, Cassiar district, B.C. (Not Knob.)

Thekulthili; lake and river, northwest of Hill Island, lake N.W.T. (Not The-cul-thi-li.)

   Indian name meaning "flowing out over flat rocks."

Thelew. See Thelon.

Thelon; river, tributary to Dubawnt river, N.W.T. (Not Ark-e-leenik nor Thelew.)

The Mitre; mountains, east of mount Lefroy, Alberta.

   Descriptive.

The Monarch; mountain, about lat. 51° 03', long. 115° 51', Rocky mountains, Kootenay district, B.C.

   Descriptive.

The Narrows; in South bay, 4 miles from South Baymouth, Manitoulin island, Manitoulin district, Ont.

   Descriptive.

The Needles; narrows, Lower Arrow lake, Kootenay district, B.C.

   Formed by two sharp sand spits that in approaching either way apparently block the passage.
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The Overlook; mountain, extending southerly between Uto and Eagle peaks, Selkirk mountains, Kootenay district, B.C. 
Overlooks Illecillewaet glacier.

The Pas. See Pas.

The President; mountain, President range, Rocky mountains, Kootenay district, B.C. 
After Lord Shaughnessy, president, Canadian Pacific Ry.

The Punts; islands, Lake Fleet group, St. Lawrence river, Leeds county, Ont. 
In proximity to “Barge,” “Dinghy,” “Gig,” and “Jolly” islands, all named after types of boats.

The Rampart; ridge between mount Afton and The Dome, west side of Asulkan brook, Selkirk mountains, B.C. 
Descriptive.

The Ridge; bar in Owen channel, connecting Manitoulin and Fitzwilliam islands, Manitoulin district, Ont. 
Descriptive.

Thérlen; lakes, Tp. 57, Rs. 9 and 10, W. 4 M., Alberta. 
After Roman Catholic missionary.

The Steeples; mountains, east of Kootenay river, above Bull river, Kootenay district, B.C. 
Descriptive.

Thetford; river, township and city, Megantic county, Que. (Not Thetford Mines.) 
After Thetford, town, Norfolk, England.

The Three Guardsmen; mountains, south of Aishihik lake, southwestern Yukon.

Thetis; island, Stuart channel, southeast coast of Vancouver island, B.C. 

The Vice President; mountain, President range, Rocky mountains, Kootenay district, B.C. (Not Angle peak.) 
After David McNicoll, 1st vice president Canadian Pacific Ry.

The Wart; hill, at mouth of Koksoak river, New Quebec territory, Que.

The Whistlers; mountain, west of Athabaska river, above Miette river, Jasper park, Alberta. (Not Goat. 
There are colonies of the hoary marmot or whistler on the mountain.

Thibault; shoal, running south from Manitoulin island to Inner Duck island, Manitoulin dis- trict, Ont.

Thibert; creek, flowing from west into north end of Dease lake, Cassiar district, B.C. 
After H. Thibert, who discovered gold on it, 1873.

Thickwood; hills, central Sask. 
Descriptive.

Thirty-one mile; lake, Ottawa county, Que. (Not Grand lac du Commissaire.) 
Thirty-one miles long.

Thistle; creek, tributary to Yukon river, above White river, Yukon.

Thistle; reef, in Portage bay, Manitoulin island, Manitoulin district, Ont. 
After British yacht “Thistle,” defeated by Volunteer in America Cup contest, 1867.

Thléwëchédëzhë. See Backs.

Thom; mount, north of Dartmouth, Halifax county, N.S. (Not Tom.) 
After Thomas Troop; Troop and Ephraim Howard, while travelling in 1767 to Pictou harbour from Truro named mount Thom and mount Ephraim after themselves.

Thomas; point, 3 miles east of South Baymouth bay, east of point, Manitoulin Island, Mani- toulin district, Ont. Namely by Bayfield about 1822.

Thomas; river, emptying into north end of Frances lake, Yukon. (Not Too-tlas.)
Thomas Green. See Tommy.

Thomason. See Tomasine.

Thompson; cove, east of cape Spencer, St. John county, N.B.

Thompson; creek, tributary to Watson river, southern Yukon. After prospector.

Thompson; lake, east of David lake, tributary to Sand Point lake, Rainy River district, Ont. After David Thompson (1770-1857), pioneer geographer of the North west.

Thompson; mount, north of Portal peak, west of Bow lake, Alberta. (Not Thompson's.) After C. S. Thompson, Appalachian Club, Boston.

Thomson; lake, Lake township, Hastings county, Ont. (Not Thompson's.)

Thor; mount, west of Upper Arrow lake, Kootenay district B.C.

Thorn. See Maple.

Threefork; river, flowing into Wabigoon lake from the south, Kenora district, Ont. (Not Three Fork.)

Threehills; creek, draining into Red Deer river above Kneehills creek, Alberta. (Not Three Hills.) Descriptive.

Threemile Plains; village, Hants county, N.S. (Not Three Mile Plains.) Three miles from Windsor.

Threemount; bay and point, east of McIntyre bay, lake Nipigon, Thunder Bay district, Ont. (Not Three Mount nor Three Mountain.) Descriptive.

Threepoint; lake, Burntwood river, long. 99°, Man. (Not Nistowasis.) Translation of Indian name.

Threepoint; mountain and creek, tributary to North branch of Sheep river, Alberta.

Three Sisters; mountain peaks, south of Canmore, Rocky Mountains park, Alberta.

Thron-diuck. See Klondike.


Thrumcap; shoal, entrance to Halifax harbour, Halifax county, N.S. Probably from the "thrumming" noise of the surf on the "cape."

Thumb. See Galena.

Thunder; bay, and cape, east entrance point to bay, Thunder Bay district, Ont. Translation of Indian name of cape.


Thunder; lake, north of Wabigoon lake, Zealand township, Kenora district, Ont.

Thunder; mountain, Livingstone range, south of Oldman river, southern Alberta.

Thunderhill; settlement, west side of Columbia lake, Kootenay district, B.C. (Not Thunder Hill.)

Thurlow; township, Hastings county, Ont. After Edward, Baron Thurlow (1732-1806), Lord Chancellor, 1778.

Thustetzeza. See Tutziika.

Thutade; lake, headwaters of Finlay river, Cassiar district, B.C. (Not Thudade nor Thutage.)

Thwartway; island, Admiralty group, St. Lawrence river, Leeds county, Ont. (Not Leak nor Leek.)

On Captain W. F. Owen's chart, 1818; probably so named because it lies "athwart" the channel.

Tian; point, west coast of Graham island, Queen Charlotte islands, Coast district, B.C. (Not Tiahn.)
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Ticouabi. See Tikuape.

Tidds; island, Admiralty group, St. Lawrence river, Leeds county, Ont.

Tide; lake, English river, between Maynard lake and Ball lake, northern boundary of Kenora district, Ont.

Tide; rock, Southgate group, Queen Charlotte sound, Coast district, B.C.
A base for tidal data.

Tieren. See Ogoki.

Tiger; brook, tributary to rivière des Quinze, Timiskaming county, Que.

Tigonankweine; range of mountains, Gravel river, N.W.T. (Not Tigenankwe.)
Indian name meaning "backbone of the earth."

Tikouape. See Tikuape.

Tikuape: post office and river flowing into Lake St. John in Parent township, Lake St. John county; Que. (Not Ticouabi, Tikouabie, Tikouabee, Tikouape, nor Tikouapee.)
Montagnais Indian name meaning "caribou man."

Til-e-i-tsho. See Tillei.

Tillei; lake, north of Frances lake, Yukon. (Not Til-e-i-tsho.)

Tilley; mount, southwest of Revelstoke, between mount Begbie and mount MacPherson, Kootenay district, B.C.
After late Sir S. Leonard Tilley, Lieut-Governor of New Brunswick, 1873-78 and 1885-93; Minister of Customs 1867-73; Minister of Finance 1878-1885.

Tillsonburg; town, Dereham township, Oxford county, Ont. (Not Tilsonburg.)
After George Tillson, land owner and resident of the town from 1831 until his death in 1864.

Tilted: mountain, east of Baker creek, east of Ptarmigan lake, Rocky mountains, Alberta.
Descriptive.

Timagami; lake, Nipissing district, Ont. (Not Tamagaming nor Temagami.)
Indian name meaning "deep water."

Timber; bay, east of Providence bay, Manitoulin island, Manitoulin district, Ont.

Timber Bay, shoal, Manitoulin island, Manitoulin district, Ont.

Timber; island, western of False Ducks islands, lake Ontario, Prince Edward county, Ont.

Timiskaming; lake, Ontario and Quebec. (Not Temiscaming, Temiscamingue nor Temis-
kaming.)
Indian name meaning "at the place of deep, dry water"; doubtless referring to the
clay flats in the northeastern portion of the lake which are dry at low water.

Tinson; point, north coast of Gabriola island, strait of Georgia, B.C. (Not Rocky.)
After Lieutenant Charles Wills Tinson, Admiralty survey, 1903-4.

Tintina; valley, central Yukon. A great depression occupied successively by Pelly, Kalzas
Stewart, and Klondike rivers, and extending to Yukon river.
Indian name meaning "chief."

Tisiuk; lake, draining through Leaf river into Ungava bay, New Quebec territory, Que. (Not
Seal.)
Eskimo name meaning "first lake."

Titkana; peak, east of Robson pass, Rocky mountains, Alberta. (Not Ptarmigan.)
Stoney Indian word meaning "bird."

Tlehini. See Klehini.

Tlet-lalan-a-tsoots. See Finlayson.

Tobermory; harbour and village, northeast of Cape Hurd and 5½ miles southeast of Cove
Island light, north point of island, Bruce county, Ont.
After Tobermory, Argyllshire, Scotland
Tobey; point, west shore of Prince Rupert harbour, Coast district, B.C.
   After W. H. Tobey, assistant engineer, Grand Trunk Pacific Ry.

Tobique; river, flowing from Nictor lake into St. John river, Restigouche and Victoria counties
   N.B. (Not Nictor nor Little Tobique.)
   Probably after Indian chief.

Tobique. See Trousers.

Toby; creek, flowing from west in Columbia river, at Athalmer, Kootenay district, B.C. (Not Toba.)
   After Dr. Toby, prospector, 1864, from Colville, Stevens county, Washington, U.S.

Toby; mount, east of Toby creek, at Earl Grey pass, Kootenay district, B.C.

Tod; creek and inlet, southeast portion of Saanich inlet, Vancouver island, B.C.
   After John Tod (1790-1882), chief trader, Hudson’s Bay Co.

Todman; reef, mouth of Thomas bay, 3½ miles east of South Baymouth, Manitoulin island, Manitoulin district, Ont.
   After schooner Todman.

Todnustook. See Talnustuk.

Tofino; inlet and townsite, Low peninsula, Clayoquot sound, Vancouver island, B.C.
   The inlet was named by Galiano and Valdes in 1792.

Tokumm; creek, rising near Deltaform mountain and flowing southeast into Vermilion river,
   Kootenay district, B.C.
   Stoney Indian for “red fox.”

Tolmie; reef, 5 miles southwest of Kincardine, Bruce county, Ont.
   After John Tolmie, member of Parliament for West Bruce, 1896-1909.

Tom. See Thom.

Tomasine; river, draining through Desert river into Gatineau river, Pontiaie county, Que. (Not Thomasine nor Tomassino.)

Tombstone; mountain, northeast of Kananaskis lakes, Alberta.
   Descriptive.

Tomifobia; river, flowing into Massawippi lake, Stanstead county, Que. (Not Tomfobia, Tomefobi, Tomifobi nor Tomifoby.)

Tomkinson; point, Ursula channel, Coast district, B.C. (Not Tomkinsin.)

Tomlinson; point, Blunden harbour, Queen Charlotte sound, Coast district, B.C.

Tommy; creek, tributary to Bridge river from the south, above Alexander creek, Lillooet disstrict, B.C. (Not Green, Thomas Green, nor Tommy Green.)
   After Tommy Green, local character.

Tongue; creek, flowing from west into Highwood river, Alberta. (Not Tongue-flag.)
   Translation of Indian name.

Tongueflag. See Tongue.

Tonkawatla; river, tributary to Columbia river from west, below Revelstoke, Kootenay district, B.C. (Not Tonca Watla.)

Toochi. See Tutshi.

Toohoolitas. See Tuhulitas.

Toonkwas. See Tunklitas.

Toonkwa. See Tunkwa.

Tootizeca. See Tutizika.

Tootlas. See Thomas.

Tootsho. See Logan.

Tooya. See Tuya.
Topham; mount, southeast of mount Macoun, west of Beaver river, Selkirk mountains, Kootenay district, B.C.

Torch; lake, west of Candle lake, central Sask. (Not Little Candle.)

Torch; river, tributary to Saskatchewan river, Sask. (Not Big Sturgeon.)

Tornado; mountain, lat. 49° 58', long. 114° 39', Alberta and Kootenay district, B.C.

Tornait. See Newton.

Torres; channel, between Teresa and Copper islands and west shore of Atlin lake, Cassiar district, B.C.

Tortue; river, flowing into the St. Lawrence, about 30 miles below Moisie river, Saguenay county, Que. (Not Fall.)
From the abundance of turtles in it.

Tortue. See Orme.

Tory. See Torres.

Totogan; lake, southwest of Kabania lake, head of Attawapiskat river, Patricia district, Ont.
Indian name meaning "quaking bog."

Touchwood; hills, southern Sask.
Descriptive.

Toussaint; island, above Iroquois point, St. Lawrence river, Dundas county, Ont.
Not Toussaint's, Toussaint's nor Toussons.
After Captain Toussaint, lessee.

Toussons. See Toussaint.

Towagodi. See Tawagadik.

Tower; creek, tributary to St. Mary river, Kootenay district, B.C.

Tower of Babel; mountain, Tp. 28, R. 16, W. 5 M., east of Moraine lake, Alberta.
Descriptive.

Tower; peak, north of Quiet lake, Yukon.
Descriptive.

Towincut; mountain and creek, flowing into south side of Cowichan lake, Vancouver island B.C. (Not Nixon.)
Indian name.

Toyehill; hamlet, Matilda township, Dundas county, Ont. (Not Toy's Hill.)
After Toye family, settlers from Ireland, one of whom became postmaster.

Toy's Hill. See Toyehill.

Tracy; creek and hamlet, east of Kootenay river, north of Steele, Kootenay district, B.C.

Trade; lake, Churchill river, above Reindeer river, Sask.
Descriptive.

Trading; lake, Ridout township, Muskoka district, Ont.
Descriptive.

Traffic; mountain, north of Pelly lakes, Yukon.

Trail. See Chungo.

Tramping; lake, below Reed lake, Grass river, Man. (Not Sandy.)

Tramping; lake, southwest of Battleford, Sask.
A long, narrow lake, said to have been named from the long walk to get round it.

Tranquille. See Bridge.

Trap; mountain, headwaters of Demaniel creek, south coast of Vancouver island, B.C.
Descriptive of the rock.
Trapper; creek, tributary to Westkettle river, Similkameen district, B.C. (Not East fork of West fork of Kettle.)
   After E. G. Smith, pioneer trapper.

Travers (lac de); lake, headwaters of St. Maurice river, Champlain county, Que.

Traverse; bay, mouth of Winnipeg river, Man.

Traverse; lake, Storrington township, Frontenac county, Ont. (Not Little Cranberry.)

Tremayne; bay, in southwest portion of Digby island, Coast district, B.C.
   After doctor at Metlakatla.

Trent; river, flowing into the bay of Quinte, Hastings and Northumberland counties, Ont.
   After Trent, river, England.

Trenton; town, west end of bay of Quinte, Hastings county, Ont.
   From its location on the Trent river.

Trepanege; plateau and river, west of Okanagan lake, Osoyoos district, B.C. (Not Deep creek nor Trepanier river.)

Trepanier. See Trepanege.

Triangle; lake, 16 miles east of Pijitawabik bay, lake Nipigon, Thunder Bay district, Ont.
   Descriptive.

Trident; mountain, southwest of Kinbasket lake, Kootenay district, B.C.
   Descriptive.

Trident; point, southwest point of Tyendinaga township, Hastings county, Ont. (Not Long.)

Trincomali; channel, between Galiano and Saltspring islands, southeast coast of Vancouver island, B.C. (Not Trincomalee nor Trincomalie.)

Trivett; point, north point of Princess Royal island, Coast district, B.C.
   After Captain John Frederick Trivett, Hudson's Bay Co.

Trodely; island, north of Charlton island, James bay, N.W.T. (Not Little Charlton.)

Trois Bras. See Holden.

Trolltinder; mountain, east of Yoho river, near its head, Kootenay district, B.C.
   After peak in Norway which it resembles.

Troughton; island, Lake Fleet group, St. Lawrence river, Leeds county, Ont.

Trouser; lake, Victoria county, N.B. (Not Tobique.)
   Descriptive.

Trout; lake, northwest of Kootenay lake, Kootenay district, B.C.

Trout. See Buntzen.

Trout. See Crean.

Trout. See Hayes.

Trout. See Matamek.

Trout. See Opamwastik.

Trout. See Sutton.

Truax; creek, tributary to Bridge river, from the south, opposite Tyaughton creek, Lillooet district, B.C. (Not Truaxe.)
   After rancher.

Truda; peaks, Hermit range, Selkirk mountains, Kootenay district, B.C.

Tschilkat. See Kelsall.

Tsetelouli; lake, headwaters of Inklin river, Cassiar district, B.C. (Not Tseteloui.)

Tshensagi. See Chensagi.
Tsuchu; river, tributary to Gravel river, N.W.T. (Not Tsi-Choo.)

Tsiskut. See Sinkut.

Tsu; lake, expansion of Talton river, tributary to Great Slave lake, N.W.T.

Tuck; inlet, narrows and point, north of Prince Rupert harbour, B.C. (Not Tuck's.)

Tucker; lake and creek, emptying into Chalk bay, Renfrew county, Ont.

Tudjakdjuan. See Resolution.

Tudjakdjudusirn. See Gabriel.

Tugwell; creek, flowing into Juan de Fuca strait west of Otter point, Vancouver island, B.C.

Tuk; island, Blind bay, Halifax county, N.S. (Not Tuns.)

Tun; island, Blind bay, Halifax county, N.S. (Not Tuns.)

Turn. See Dryad.

Turquoise; lake, at P. 30, Rs. 17 and 18, W. 5 M., east of mount Balfour, Alberta.

Turret; peak, between Adamant and Austerity mountains, Adamant range of the Selkirks, Kootenay district, B.C.
Turtle; mountain, south of Frank railway station, Alberta.
Turtle; mountain, southwestern, Man.
Descriptive.
Turtle; point, north point of Gil island, Coast district, B.C.
Turtle. See Jarvis.
Tusket; island, Yarmouth county, N.S. (Not Great Tusket.)
Miicmae name meaning "broad, tidal river."

Tusket Wedge. See Wedgeport.

Tustles; lake, north of Frances lake, Yukon. (Not Tus-tles-tu.)

Tutchi. See Tutshi.

Tutesheta; creek, tributary to Tahltan river, Cassiar district, B.C. (Not Tuteshita.)

Tutizika; river, the south branch of Mesilinka river, Cassiar district, B.C. (Not Tchutetzeca, Thustetzeca nor Tootizeca.)
Indian name meaning "crooked river."
Tutizzi; lake, expansion of Tutizika river, Cassiar district, B.C.

Tutshi; point, Hudson strait, New Quebec territory, Que.

Tuvalik; Indian village, west coast of Ungava bay, New Quebec territory, Que.

Tuya; lake and river, tributary to Stikine river, Cassiar district, B.C. (Not Tooya.)

Tuzo; mount, east of Deltaform mountain, Alberta and Kootenay district, B.C.
After Miss Henrietta L. Tuzo, Warlingham, Surrey, England, first to climb it, 1906.

Twelve Mile. See Bronte.

Twelve O'clock; point, east entrance to Murray canal, Murray township, Northumberland county, Ont.

Twenty-five Mile. See Harvey.

Twenty Mile. See Hedley.

Twilight; lake, north of Redvers township, Kenora district, Ont.

Twin; falls, upper part of Yoho river, tributary to Kicking Horse river, Kootenay district, B.C.

Twin; peaks, Tp. 37, R. 25, W. 5 M., Rocky mountains, Alberta. (Not The Twins.)
Descriptive.

Twin. See Dunsmuir.

Twin. See Vrooman.

Twin Sisters; islands, Brock group, St. Lawrence river, Leeds county, Ont.
Descriptive.

Twitya; river, tributary to Gravel river, N.W.T. (Not Twityeh.)
Indian name meaning "river flowing from lakes."

Two-bit; creek, flowing into east side of Lower Arrow lake, Kootenay district, B.C.

Two Rivers; lake of, Canisbay township, Algonquin National park, Nipissing district, Ont.
Descriptive.

Tyaughton; mountains and creek, flowing into Bridge river, Lillooet district, B.C.
Indian name.

Tyeec. See Maclure.

Tyendenaga; township, Hastings county, Ont.
From Indian name of Mohawk chief, Joseph Brant.

Tyers; river, tributary to Frances river, Yukon.
Tyne; point, Newcastle island, Departure bay, east coast of Vancouver island, B.C.  
Name suggested by that of the island.

Tyrrell; lake, Tp. 5, Rs. 17 and 18, W. 4 M., Alberta. (Not Tyrrell's.)  

Tzuhalem; mountain and settlement, Cowichan harbour, Vancouver island, B.C.  
(Not Tzouhalem.)  
After an Indian chief.

Uivaksoak; cape, east shore of Ungava bay, New Quebec territory, Que.  
(Not Uibvaksoak.)  
After an Indian chief.

Unahini; river, tributary to Tatshenshini river, Yukon.  
Unamininnikan.  
See Manomin.

Ungava; bay, Hudson strait, New Quebec.  
Eskimo word meaning "far away."

Unger; island, bay of Quinte, mouth of Napanee river, Lennox and Addington county, Ont.  
(Not Unger's.)  
After Sidney Unwin, guide.

Uphill; lake, northeast of Manitou lake, southern portion of Kenora district, Ont.  
(Not Moonshine nor Kasakachewewiak.)  
Upika; river, tributary to Chicoutimi river, Montmorency county, Que.  
(Not Upsika.)  
Upikaua.  
See Pikauba.  
Upinnakau.  
See Opinnagau.

Upper Arrow; lake, expansion of Columbia river, Kootenay district, B.C.  
"We passed under a perpendicular rock, where we beheld an innumerable number of 
arrows sticking out of the fissures. The Indians, when they ascend the lake, have a custom 
of lodging each an arrow into these crevices. This is the reason why the first voyageurs 
called these lakes the Arrow lakes."  
(De Smet, 1846.)  
Upper Bow.  
See Bow.  
Upper Columbia.  
See Columbia.  
Upper Emerald.  
See Yoho.  
Upper Fishing.  
See Qu'Appelle.  
Upper Gull.  
See Chensagi.  
Upper Kootanie.  
See Duncan.  
Upper Lahave; village, Lunenburg county, N.S.  
(Not Upper La Have.)  
See Lahave.  
Upper Manitou.  
See Anzhekumming.  
Upper Rock; lake, Storrington township, Frontenac county, Ont.  
(Not Blunder.)  
Upper Savage; islands, east of Big island. Hudson strait, N.W.T.  
(Not Savage.)  
See Lower Savage.  
Upper Wanapitei.  
See Scotia.  
Upper White Fish.  
See Jarvis.  
Upsika.  
See Upika.

Urd; peak, Valhalla mountains, west of Slocan lake, Kootenay district, B.C.  
Ursula; channel, east of Gribbell island, Coast district, B.C.
Ursus Major; mountain, north side of divide between Bear and Cougar creeks, Hermit range, Selkirk mountains, Kootenay district, B.C.

From proximity to Bear creek.

Ursus Minor; mountain, north of Bear creek, Hermit range, Selkirk mountains, Kootenay district, B.C.

From proximity to Bear creek.

Usatzes; point, northeast extremity of Low peninsula, Clayoquot sound, Vancouver island, B.C. Indian name.

Uto; peak, north of mount Sir Donald, Selkirk mountains, Kootenay district, B.C.

After the name of the Zurich section of the Swiss Alpine Club.

Uztlius; river, tributary to Anderson river, Fraser river, Yale district, B.C. (Not Uz-tli-hoos nor Uzvioos.)

V

Vadso; rock, opposite the southwest point of Larrcom island, Observatory inlet, Cassiar district, B.C.

After steamer "Vadso," that found it by striking it, 1910.

Val-Brillant; post office, Matane county, Que. (Not Val Brillant.)

Valcartier; village, Quebec county, Que. (Not Val Cartier.)

In the valley of Jacques-Cartier river.

Valdes; island, strait of Georgia, B.C.

After Commander Cayetano Valdes, of the Spanish navy, commanding the "Mexicana," 1792.

Valdes. See Maurelle, Quadra and Sonora.

Valhalla; mountains, west of Slocan lake, Kootenay district, B.C. (Not Val Halla.)

In Norse mythology, the abode of Odin.

Valkyr; mountains, east of Lower Arrow lake, Kootenay district, B.C. (Not Valkyriur.)

After "Die Walküre," the Wagnerian opera.

Valley; river, flowing into Dauphin lake from east, Man.

Translation of Indian name.

Valleyview; hamlet, Qu'Appelle river, northeast of Regina, Sask. (Not Valley View.)

Descriptive.

Valois; village, Jacques-Cartier county, Que. (Not Valoisville.)

After Dr. M. F. E. Valois, Hon. Lieut.-Colonel of the Canadian Veterans.

Valoisville. See Valois.

Vananda; cove and settlement, Texada island, strait of Georgia, B.C. (Not Van Anda.)

After Vananda, son of Edward Blewitt, capitalist and miner.

Van Buren; island, St. Lawrence river, Escott township, Leeds county, Ont.

Possibly after Martin Van Buren (1782-1862), eighth President of the United States.

Vancouver; creek, tributary to McQuesten river, Yukon.

Van Horne; glacier and brook, tributary to Incomappleux river, Kootenay district, B.C.

After Sir William Van Horne, chairman, Canadian Pacific Ry.

Van Horne; range, northeast of Ottertail railway station, Rocky mountains, Kootenay district, B.C.

See Van Horne glacier.

Van Houten; creek, flowing into east side of Lower Arrow lake, Kootenay district, B.C. (Not Van Hooven.)

Vankoughnet; bay, east of the narrows, lake Manitoba, Man.

After former Deputy Superintendent General of Indian Affairs.
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Vansittart; island, northeast of Grenadier island, St. Lawrence river, Yonge township, Leeds county, Ont.

Vaudray; lake, Vaudray township, Timiskaming county, Que. (Not Long.)
   After Capt. de Vaudray, régiment de Langueoc, New France.

Vaudreuil; bay, rapids and village, also Vaudreuil Station, post office, Vaudreuil county, Que. (Not Dorion.)
   After Marquis de Vaudreuil, Governor General of Canada, 1703-14 and 1716-25.

Vaux; mount and glacier, east side of Kicking Horse river, opposite Porcupine creek, Kootenay district, B.C.
   On Palliser Expedition map, 1865.

Vedder; mountain, international boundary, New Westminster district, B.C.
   After pioneer settler.

Veillons. See Alberon.

Venn; passage between Metlakatla bay and Prince Rupert harbour, Coast district, B.C.
   After Rev. Henry Venn (1796-1873), honorary secretary, Church Missionary Society, 1841-73.

Ventadour; lake, Lescarbot township, Quebec county, Que. (Not Kakiskasagamak.)

Ventego; mountain, Selkirk range, about 8 miles west of confluence of Beaver and Columbia rivers, Kootenay district, B.C.
   Esperanto word meaning "windy."

Vents (rivière des); river, tributary to Liard river from south, Cassiar district, B.C.

Verdigris; coulée and lake, north of Milk river, Alberta.
   Descriptive; the lake is deep and looks green.

Vermilion; bay, northwestern arm of Eagle lake, Kenora district, Ont. (Not Vermillion.)

Vermilion; river, flowing from Lampman township into Spanish river in Foster township, Sudbury district, Ont.

Vermilion; river, tributary to Kootenay river, Kootenay district, B.C.
   Descriptive.

Vermilion; range of mountains between Kootenay and Vermilion rivers, above their confluence Kootenay district, B.C.
   See Vermilion; river.

Vermilion. See Little Vermilion.

Vermilion. See Pink.

Vermilion. See Red.

Verney; passage, between Hawkesbury and Gribbell islands, Coast district, B.C.

Vernon; creek and lake, headwaters of Nimpkish river, Vancouver island, B.C.
   After Hon. Forbes George Vernon, sometime chief commissioner of Lands and Works of British Columbia.

Vers (île aux); island, St. Lawrence river, Verchères county, Que. (Not Vert nor Worm.)

Vertebral; mountain, north of Bush river, Rocky mountains, Kootenay district, B.C.
   Descriptive.

Verte-Vallée; hamlet, Vaudreuil county, Que. (Not Green Valley.)

Vertical; mountain, near headwaters of Wild Horse river, northeast of Steele, Kootenay district, B.C.
   Descriptive.

Vesuvius; bay, Stuart channel, Saltspring island, southeast coast of Vancouver island, B.C.
   After H. M. paddle sloop "Vesuvius," Commander Sherard Osborne, employed in Black sea during Russian war, 1854-6.
Viccontent. See Auneuse.

Victor; island, Muchalat arm of Nootka sound, Vancouver island, B.C. After Captain F. Victor Longstaff, F.R.G.S., owner of the island.

Victoria; creek, tributary to Wild Horse river, Kootenay district, B.C.

Victoria; island, Broek group, St. Lawrence river, Leeds county, Ont. (Not Mile.) Probably after Queen Victoria (1819-1901).

Victoria; island, Arctic ocean, N.W.T. Portions of this island have been known as “Victoria land,” “Prince Albert land” and “Wollaston land.” After Queen Victoria (1819-1901.)

Victoria; lake, Northfield township, Ottawa county, Que.

Victoria; peak, central portion of Vancouver island, B.C. After Queen Victoria (1819-1901.)

Victoria; lake, Northfield township, Ottawa county, Que. Probably after Queen Victoria (1819-1901.)

Victoria; peak, lat. 51° 23', long. 116° 18', also glacier. Bow range of the Rockies, Alberta and Kootenay district, B.C. (Not Green.) See Victoria island.

Victoria; peak, lat. 49° 18', long. 114° 08', Alberta. After Queen Victoria (1819-1901.)

Victoria. See Broadback.

Vidette; peak, between Citadel mountain and mount Sir Sandford, Selkirk mountains, Kootenay district, B.C. Descriptive.

Vigilant; island, north of Prince Rupert, Coast district, B.C. (Not Bacon.) After D.G.S. “Vigilant,” 1896.

Vigilant; rock, 5 miles east of South Baymouth, Manitoulin island, Manitoulin district, Ont. After America Cup defender “Vigilant.”

Village Bélanger. See Bélanger.

Villanova; village, Townsend township, Norfolk county, Ont. (Not Villa Nova.)

Villemontel; river, flowing into Kinojevis river in Villemontel township, Timiskaming county, Que. (Not Nawapitechin.) After de Villemontel, capitaine des grenadiers, régiment de Berry, New France.

Vingolf; mount, west of head of Slocan lake, Kootenay district, B.C.

Violadale; village, Tp. 14, R. 23, W. P. M., Man. (Not Viola Dale.)

Voisin (lac); lake, Tp. 60, R. 9, W. 3 M., Sask.

Volcano; creek, tributary to North branch of Sheep river, Alberta.

Volunteer; spit, 2½ miles west of South Baymouth, Manitoulin island, Manitoulin district, Ont. After America Cup defender “Volunteer.”

Vowell; creek, tributary to Bobbie Burns creek, Kootenay district, B.C. (Not South fork of Middle fork of Spillimacheen.) After resident.

Vowle; mount, lat. 61° 26' long. 136° 03', west of Nordenskiöld river, Yukon. After member of R.N.W. Mounted Police.

Vrooman; islands, MacGregor cove, about 5 miles south of Agawa point, lake Superior, Algoma district, Ont. (Not Twin.) After engineer of “Bayfield.”

Vulture; col, between mounts Gordon and Olive, southwest of Bow lake, Rocky mountains, Alberta and Kootenay district, B.C.

Vulture. See Winnange.

Waagan. See Wagan.
Waagoosh. See Waugush.

Wabakimi; lake, draining into Ogoki river, Thunder Bay district, Ont.

Wabamun; lake, draining into North Saskatchewan river, above Edmonton, Alberta. (Not White Whale.)
   Indian name meaning "mirror."

Wabanoni; river, emptying into Obaska lake, Pascalis township, Timiskaming county, Que. (Not Wabinoni.)
   Indian name meaning "medicine man."

Wabascan. See Wabiskaw.

Wabaskoutyunk. See Kempt.

Wabaskus; lake, Joanne township, Timiskaming county. Que. (Not Wabinoni.)
   Indian name meaning "medicine man."

Wahascan. See Wabiskaw.

Wabaskus; lake, Joanne township, Timiskaming county. Que. (Not Wabinoni.)
   Indian name meaning "medicine man."

Wabasso; bay and creek, lake Timiskaming, Timiskaming district, Ont.

Wabi; bay and creek, lake Timiskaming, Timiskaming district, Ont.

Wabigoon; lake, river, tributary to English river and village, Kenora district, Ont. (Not Wabigwunn.)
   Indian name meaning "white feather." Indians say that when the lake was first seen it was covered with white feathers, which were probably lilies.

Wabigwunn. See Wabigoon.

Wabinoni. See Wabanoni.

Wabinosh; river, lake and bay, west shore of lake Nipigon, Thunder Bay district, Ont.
   Indian name meaning "I have lived till Spring."

Wabishkook; lakes, draining into Athapapuskow lake through Pineroat river, Man.
   Indian name meaning "steep rock.

Wabiskaw; lakes and river, tributary to Peace river, Alberta. (Not Loon, Wabascan or Wabiscaw.)
   Indian name meaning "white."

Wabooze. See Wapus.

Waddell; bay, northeast shore of Frobiisher bay, Baffin island, N.W.T. (Not Dyer sound.)
   Named by Hall, 1861, after William Coventry H. Waddell, New York.

Wadopi; brook, tributary to Winisk river from the east, above entrance of Tabasokwia river, Patricia district, Ont.
   Indian name meaning "alder."

Wadsworth; lake, Tudor township, Hastings county, Ont.

Wagabkedei; lake, north of Attawapiskat lake, Patricia district, Ont.

Wagan; river, tributary to Restigouche river, Madawaska county, N.B. (Not Waagan.)
   From the Micmac Indian word for "portage."

Wagner; mountain, west of Duncan river, Kootenay district, B.C.

Wagosh; bay and reef, east of Smith point, Cockburn island, Manitoulin district, Ont. (Not Wahtoosh.)

Wagwabeya. See Wagwabika.

Wagwabika; lake, at headwaters of Lièvre river, St. Maurice county, Que. (Not Wagwabeya.)

Wahcomatagaming. See Wakamata.

Wahnapiate. See Wanapitei.

Wahquekobing. See Wakwekobi.

Wahwanichi. See Wakonichi.

Waiatt; bay, Quadra island, opposite Maurelle island, Coast district, B.C. (Not Wi-yat nor Wyatt.)
   Indian name.
Wai-nusk. See Winisk.

Wainwright: basin, between southeast end of Kaien island and mainland, Coast district, B.C. After Wm. Wainwright, 2nd vice president, Grand Trunk Pacific Ry.

Waitabit: creek, flowing into Columbia river from east, below Donald, Kootenay district, B.C. Near its mouth, travellers descending the Columbia rest and adjust the loads in their canoes before entering the rapids.

Wajabakoute. See Chartier.

Wakamagaming. See Wakami.

Wakami; lake, river and railway station, Sudbury district, Ont. (Not Wakamagaming.)

Indian name meaning "the water is clean or clear."

Wakaumekonke. See Normand.

Wakaw; lake, head of Carrot river, tributary to Saskatchewan river, central Sask. (Not Crooked.)

Indian name meaning "crooked."

Wakeham; bay, Hudson strait, New Quebec territory, Que. After William Wakeham, Department of Marine and Fisheries of Canada, Diana expedition, 1897.

Wakinichi. See Wakonichi.

Wakomata; lake, north of Gould township, Algoma district, Ont. (Not Clear nor Wahcomagaming.)

Wakonichi; lake, south of Mistassini lake, Mistassini territory, Que. (Not Wahwanichi nor Wakinichl.)

Wakwakobi; lake, Day township, Algoma district, Ont. (Not Wahbiquekobing nor Wahquokbing.)

Walbran; point, north end of Loretta island, Coast district, B.C.

After Captain J. T. Walbran, Marine and Fisheries Department of Canada, author of "British Columbia Coast Names"; died 1913.

Wales; cape and sound, Hudson strait, New Quebec territory, Que. (Not Prince of Wales.)

After Albert Edward, Prince of Wales, later, King Edward VII.

Wales; island, south shore of Hudson strait, N.W.T. (Not Prince of Wales.)

Walkem; islands, Johnstone strait, Coast district, B.C. (Not Pender.)

After Hon. George Anthony Walkem (1834–1908), judge of the Supreme Court of British Columbia.

Walker; hamlet, Metcalfe township, Middlesex county, Ont. (Not Walker's.)

After family.

Walker; mount, north of Blaeberry river, east of mount Pilkington, Rocky mountains, Alberta and Kootenay district, B.C.


Walker; point, 3 miles west of South Baymouth, Manitoulin island, Manitoulin district, Ont.

Walkhouse; bay and point, the south point of Robinson township, Manitoulin island, about 3 miles northeast of Inner Duck island, Manitoulin district, Ont.

Wallace; island, Trincomali channel, southeast coast of Vancouver island, B.C. (Not Narrow.)


Wallace; island, St. Lawrence river, Lansdowne township, Leeds county, Ont.

Probably after Baron Wallace of Knaresdale (1768–1844); Lord of the Admiralty, 1797–1800.

Wallace; mount and river, south of Lesser Slave lake, Alberta.

After J. N. Wallace, D. L. S.

Wallace; mount, southeast of Beaverdell, Westkettle river, Similkameen district, B.C.
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Wallace; rock, south of South Baymouth, Manitoulin island, Manitoulin district, Ont.
After South Baymouth fisherman.

Wallbridge; point, 2 miles west of Massasagua point, Ameliasburg township, Prince Edward county, Ont.
After family, Belleville, Ont.

Wallenger; creek, tributary to Wild Horse river, Kootenay river, Kootenay district, B.C.
After N.S.A. Wallenger, Government agent, Cranbrook, B.C.

Wall-eye; lake, south of Eagle lake, Kenora district, Ont.

Wallis; point, NanOOSE harbour, east coast of Vancouver island, B.C.
After Richard Wallis, owner of Notch Hill peninsula in 1903-4.

Walsh; glacier, flowing west from mount Walsh, across international boundary, lat. 60° 55' and
joining Logan glacier, Yukon and Alaska.
After Major Walsh, R. N. W. Mounted Police; resigned 1883.

Walsh; lake, Wauchope township, Kenora district, Ont.

Walters; point, Sonora island, Okisollo channel, Coast district, B.C.

Walton; river and village, Hants county, N.S. (Not La Tete nor Petite.)
Wamikassibic. See Briand.

Wanapitei; lake, railway station and river, Sudbury district, Ont. (Not Wahnapitae.)
Indian name meaning "hollow (molar) tooth."

Wanderer; shoal, 1 mile southwest of Lyal Island light, Stokes bay, Bruce county, Ont.

Wanipigow; river, emptying into east side of lake Winnipeg, Man. (Not Hole.)

Wanogu; lake, Ledger township, Thunder Bay district, Ont. (Not Wanogoooh.)

Wapageisi; lake, east of Manitou lake, southern portion of Kenora district, Ont.
Indian name meaning "red sucker."

Wapateehk. See Waputik.

Wapaweika; lake and hills, southeast of lac La Ronge, central Sask. (Not Bear lake nor
Great Bear Sand hills.)
Descriptive Indian name meaning "white sand."

Wapiabi; creek, branch of George creek, Blackstone river, Alberta. (Not Grave.)
Named by surveyor; meaning "grave."

Wapichtigow. See Wapishtigau.

Wapikik. See Kapikik.

Wapikopa; lake and river, upper waters of Winisk river, Patricia district, Ont.

Wapishtigau; brook, tributary to Burntwood river in lat. 55° 35', long. 98° 10', Man. (Not
Wapichtigow.)
Indian name meaning "thicket."

Wapiti; river, tributary to Smoky river, Peace river, Alberta.
Descriptive.

Wapitotem; river, flowing from south into Winisk lake, Patricia district, Ont.
Indian name meaning "white friend."

Wapoos. See Wapus.

Wapoos. See Wapus.

Wapta; glacier, north of Yoho peak, mountain, west of Yoho river and lake, head of Kicking
Horse river, Rocky mountains, Kootenay district, B.C.
Stoney Indian for "river."

Wapta. See Kicking Horse.

Wapus; creek, flowing into Montreal river in Tyrrell township, Timiskaming district, Ont.
(Not Waboos nor Wapoose.)
Wapus; lake and river, southeast of Reindeer lake, Sask. (Not Wapoos.)
Indian name meaning "rabbit."

Wapus; lake and river, northwest of Kakagi lake, Kenora district, Ont. (Not Wapoose.)
Indian name meaning "rabbit."

Wapusanan; lake, Granet township, Timiskaming county, Que.
Algonquin Indian name meaning "rabbit."

Wapustagamu; lake, West branch of St. Augustin river, Saguenay county, Que. (Not Wapustaganoo.)

Waputik; mountains and snowfield, running northwest of the railway, near the divide, Rocky mountains, Kootenay district, B.C. (Not Wapateehk, Wap-ut-teehk, Waputehk nor Waputehk.)
Stoney Indian name meaning "white goat."

Ward; bay, Aylmer lake, Wolfe county, Que. (Not Ward's.)

Ward; inlet, northeast shore of Frobisher bay, Baffin island, N.W.T. (Not A. H. Ward.)
Named by Hall, 1862, after Augustus H. Ward, New York.

Ward; lake, Rattray township, Timiskaming, district, Ont.
After manager of White River Lumber Co.

Ward; mount, lat. 49° 45', long. 114° 38', Alberta.
After Captain Ward, R.E., secretary, British Boundary Commission, lake of the Woods to the Rockies.

Ward; mount, south of Wheaton river, southern Yukon.
After Joseph Ward, prospector.

Wardner; village, Kootenay river above Bull river, Kootenay district, B.C.

Ware; mount and creek, tributary to North branch of Sheep river, Alberta.
After John Ware, negro rancher.

Wark; channel, northeast of Tsimpsean peninsula, Coast district, B.C. (Not Work.)
After John Wark (1792-1861), chief trader, Hudson's Bay Co.

Wark; island, Fraser reach, northeast of Princess Royal island, Coast district, B.C. (Not Warke.)
See Wark channel.

Wark; mount, head of Saanich inlet, Vancouver island, B.C. (Not Big Saanich nor Work.)
See Wark channel.

Wark; point, Victoria harbour, B.C. (Not Work.)
See Wark channel.

Warneford; river, tributary to Kwadaeoch river from north, Cassiar district, B.C.
After Reginald John Warneford, V.C., who brought down a Zeppelin single-handed, 7th June, 1915, and was killed ten days later, aged 23.

Warner; bay and point, 5 miles southeast of Cape Hurd, Bruce county, Ont.
After settler.

Warpath; river, emptying into west side of lake Winnipeg, Man. (Not War-Path.)
After the Indian "war path" between Dauphin and the river.

Warren; island, 1 1/2 miles northwest of Burke island, Bruce county, Ont.
After Jos. Warren, surveyor.

Warren; mount, south of southeast end of Maligne lake, Rocky mountains, Alberta.
After guide, Field, B.C.

Warwick; cape, eastern cape of Resolution island, Hudson strait, N.W.T. (Not Resolution.
Named by Davis, 1587, after his patron, Ambrose Dudley, Earl of Warwick.

Wasawakasik; lake, Churchill river, below Nemei river, Sask., near eastern boundary of Sask.
Indian name meaning "sandy bay."

Wascana. See Waskana.
Washademoak; lake, Queens county, N.B. (Not Washademoac nor Washedemoak.)

Washagami; river, tributary to Ekwan river, Patricia district, Ont. (Not Washegummy.)

Washagomis; lake, south of Shabumeni lake, Patricia district, Ont. (Not Lower Clearwater.) Washedemoak. See Washademoak.

Washebemaga; lake, east of Anzhekumming lake, Kenora district, Ont. (Not Kawasheibe magagamak.)

Indian name meaning "bright bushes."

Washeka; lake, north of Kukabonga lake, Pontiac county, Que. (Not Waskega.)

Algonquin Indian name meaning "shadow."

Washi; lake, Albany river, below Makikibatan lake, Patricia district, Ont. (Not lake of the Narrows.)

Washikuti; river and bay, about 40 miles below Natashkwan, Saguenay county, Que. (Not Washsheecootai.)

Indian name meaning "river which falls into the bay."

Washkuk. See Washikuti.

Washineska; river, tributary to Mistassini river, Lake St. John county, Que. (Not Ouasimentsa nor Wasienska.)

Montagnais Indian name, meaning "it is bright at the bottom."

Washikuk. See Washeka.

Waskan; creek, flowing past Regina into Qu’Appelle river, Sask. (Not Wascana.)

Indian name meaning "where the bones lie."

Waskatowaka; lake, at headwaters of Little Churchi. river, Man. (Not Waskaiowaka.)

Waskega. See Washeka.

Waskesiu; lake and creek, tributary to Montreal lake, Sask. (Not Red Deer.)

Indian name meaning "red deer."

Waskik; lake, Tp. 64, R. 9, W. P.M., Man. (Not Waskiktepigo.)

Indian name meaning "water lily."

Waskiktepigo. See Waskik.

Wasp; lake, Redditt township, Kenora district, Ont.

Wassenska. See Washimeska.

Waswanipi; Hudson’s Bay Co. post, lake and river, flowing through Gull and Olga lakes to Mattagami lake, Abitibi territory, Que.

Algonquin Indian name meaning “water where they fish with torches.”

Watap; lake, west of Mountain lake, international boundary, Thunder Bay district, Ont. (Not Rove.)

Indian name meaning “the root of the tamarac.”

Watch; island, north of Hill island, St. Lawrence river, Escott township, Leeds county, Ont. Watcheeshoo. See Watishishu.

Watchi; bay, Reader lake, Man. (Not Mountain.)

Indian name meaning “hill.”
Waterfall; valley, head of Yoho river, Rocky mountains, Kootenay district, B.C.
   After twin falls.

Waterfowl; lakes, Mistaya river, Rocky mountains, Alberta.
   Descriptive.

Waterfowl. See Kagan.

Waterhen; lake and river, emptying into north end of lake Manitoba, Man.
   Translation of Indian name.

Waterton; lake and river, tributary to Belly river, Oldman river, Alberta. (Not Chief Mountain
   nor Kootenai.)
   After Charles Waterton (1782–1865), naturalist.

Watthus; island, southern portion of Masset inlet, Graham island, Coast district, B.C. (Not
   Young nor Wat-hoo-us.)

Watsheeshoo. See Watshishu.

Watshishu; river, flowing into the gulf of St. Lawrence about 40 miles above Natashkwan,
   Saguenay county, Que. (Not Watsheeshoo nor Watshishu.)
   Montagnais Indian name meaning "little mountain."

Watson; island, between south end of Kitain island and mainland, Coast district, B.C.

Watson; railway station, east side of lake Bennett, Yukon.

Watson; river, flowing into north end of lake Bennett, also ridge, west of river, Yukon.

Watt; railway station, Charlotte county, N.B. (Not Watt Junction.)
   After Thomas Watt, sometime resident of St. Andrews, owner of land at the station.

Wauth; creek, tributary to Goldstream river, Vancouver island, B.C.

Wauhgs; river, Colchester county, N.S. (Not Wough's.)
   After Wellwood Wauh, who settled in Nova Scotia about 1776.

Wauquash. See Kaniapiskau.

Waguush; lake, Spragge township, Algoma district, Ont. (Not Waagoosh.)

Wave. See Wavey.

Wavey; lake, Tp. 14, R. 15, W. 4 M., Alberta. (Not Wave.)
   From the snow geese (waveys) that frequent it in spring.

Wawagosik; lake, west of Harecanaw river, Abitibi territory, Que. (Not Wawagosic nor
   Wawa-gosie.)
   Algonquin Indian name meaning "winding."

Waweig; lake, Wabinosh river, 3 miles northwest of Wabinosh lake, Thunder Bay district, Ont.

Wawiang; river, Thunder Bay and Rainy River districts, Ont. (Not Kawawiagamak.)
   Indian name meaning "round."

Wawong; lake, near source of Kenogami river, Thunder Bay district, Ont.

Way; point, southwest of Potter point, Ameliasburg township, Prince Edward county, Ont.
   (Not Salt.)
   After the owner of the land.

Wayagamak; lake, Malhiot township, Champlain county, Que. (Not Wayagamack.)
   Indian name meaning "round lake."

Weaver; creek, tributary to Moyie river, Kootenay district, B.C.

Weaver. See McGregor.

Wedding; river, tributary to Bell river, Abitibi territory, Que.
   Reached by Henry O'Sullivan, surveyor, on anniversary of his wedding.

Wedge; island, entrance to Key harbour, Georgian bay, Parry Sound district, Ont.
   Descriptive.

Wedge; point, Ladysmith harbour, east coast of Vancouver island, B.C.
   Descriptive.
Wedgeport; village, Yarmouth county, N.S. (Not Tusket Wedge.)

Wedgewood; mount, northeast of mount Assiniboine, Rocky mountains, Kootenay district, B.C.

After Mrs. Katherine Wedgewood (née Longstaff), first woman to climb it.

Wedlock; island, Admiralty group, St. Lawrence river, Leeds county, Ont.

Weed; hills, southeastern Sask.

Weenusk; lake, Grass river, Man. (Not Herb nor Sweet Herb.)

Weir. See Footprint.

Weir. See Hennigar.

Weiseieno; lake, northeast of Kakagi lake, Kenora district, Ont.

Indian name meaning "windfall."

Wekusko; lake, Grass river, Man. (Not Herb nor Sweet Herb.)

Indian name of a mint (mentha canadensis) which grows on its shores.

Welchpool. See Welshpool.

Welcome; lake, Lawrence township, Haliburton county, Ont.

Welland; river, Welland county, Ont. (Not Chippewa.)

So named by proclamation of Governor Simcoe, in 1792, after Welland river, Lincolnshire, England.

Wellandport; post office, Gainsborough township, Lincoln county, Ont. (Not Welland Port.)

After the river, which after Welland river, Lincolnshire, England.

Weller; bay, lake Ontario, Prince Edward county, Ont. (Not Weller's.)

After man named Weller who hauled the bateaux to or from the bay of Quinte over the carrying place.

Wellesley; lake, west of White river, Yukon.

Wellington; bay and village, Prince Edward county, Ont. (Not Big Sandy.)


Wells; shoal, 4½ miles south of Lyal Island light, Stokes bay, Bruce county, Ont.

After schooner "Hattie Wells."

Welsh; bank, north of Scott point, north entrance to baie du Doré, Bruce county, Ont.

After resident of Kincardine.

Welshpool; village, Friar bay, Campobello island, Charlotte county, N.B. (Not Campo Bello, Welchpool nor Welsh-pool.)

Named by Capt. Wm. Owen, R.N., a Welshman, original grantee of Campobello island, after Welshpool, Wales.

Wemistagosew; river, draining into Chibougamau river, near height of land, Abitibi territory, Que.

Wemps; bay, west end of Amherst island, Lennox and Addington county, Ont. (Not O'Drain's)

Wenasaga; river, flowing into Iac Seul, Patricia district, Ont.

Wendigokan. See Windigokan.

Wenckchemna; peaks, Bow range of the Rockies, Alberta, and Kootenay district, B.C. (Not Desolation range nor the Stragglers.)

Stoney Indian for "ten," the tenth of the Ten peaks.

Wepiskow. See Burntwood.

Weese; creek, emptying into Presqu’le bay, Northumberland county, Ont. (Not Weese's.)

Wesketahin; village, Tatshenshini river, Yukon.

Weslemkoon; lake, Lennox and Addington county, Ont.

West; bay, lake Evans, Abitibi territory, Que.

Descriptive.
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West; channel, one of the outlets of lake Winnipeg, Man. (Not West river.)
Descriptive.

West; river, Bonaventure county, Que. (Not West Port Daniel.)
Descriptive.

West; river, Pictou county, N.S.
Descriptive.

West; river, tributary to Fraser river above Quesnel, Cariboo district, B.C.
Descriptive.

West. See Owen.

West. See Torres.

West Arrowwood; creek, tributary to Bow river, Alberta. (Not West Arrow-wood.)
Translation of descriptive Indian name.

West Belanger. See Belanger.

Westboro; village, Nepean township, Carleton county, Ont. (Not Westborough.)
Descriptive; west of Ottawa.

Westbourne; bay, Hudson strait, N.W.T.
After residence, Glasgow, Scotland.

Westbourne; settlement, Tp. 13, R. 9, W. P.M., Man.

West branch of Castle. See Carbondale.

West branch of Don. See Don.

West branch of Gold. See Palmer.

West branch of Sangan. See Skonun.

West branch of Tobique. See Sisson.

West Dog Head. See Whiteway.

West Duck; reef, northwest of Western Duck island, Manitoulin district, Ont.

Western; river, emptying into Coronation gulf, Arctic ocean, N.W.T. (Not Back's Western.)
Named by Franklin, 1821 Back's river; later called Backs Western river, to distinguish it from Backs river, after Admiral Sir George Back.

Western Duck; island, Duck group, off south side, west end of Manitoulin island, Manitoulin district, Ont.

Westfall; river, tributary to Duncan river, Kootenay district, B.C. (Not West fork of Duncan.)
After prospector.

West Flamborough. See Flamboro West.

West fork of Bull. See Galbraith.

West fork of Chilkat. See Kelsall.

West fork of Duncan. See Westfall.

West fork of Kettle. See Westkettle.

West fork of Oldman. See Dutch.

West Fox. See Fox.

Westholme; village, southeast portion of Vancouver island, B.C.

Westkettle; river, tributary to Kettle river, Similkameen district, B.C. (Not Westfork of Kettle.)
See Kettle.

West McGillivray. See McGillivray.

West Niskitogisew. See Kiskitto.

West Passage. See Barrington Passage.
West Port Daniel. See West.

West Road. See Blackwater.

West Sister; shoal, south of Yeo island, entrance to Georgian bay, Manitoulin district, Ont.
   In proximity to East Sister shoal.

West Winisk. See Asheweig.

Wetetnagami; lake and river, tributary to Opawika river, Pontiac county and Abitibi territory, Que.
   Algonquin Indian name meaning "mountain lake."

Wettigo; lake, south of Nemiskau lake, Mistassini territory, Que.

Weymontachi; Indian village, confluence of Manuan and St. Maurice rivers, Champlain county, Que. (Not Weymontachingue.)
   Indian name meaning "crop" (of a bird).

Whale; river, emptying into Ungava bay, New Quebec territory, Que.

Whaleback; mountain, west of Yoho river, Rocky mountains, Kootenay district, B.C. (Not Whalesback.)
   Descriptive.

Whaler; bay, Active pass, strait of Georgia, B.C.
   Small whaling vessels are said to have used the western end for anchorage.

Wharton; harbour, Hudson strait, N.W.T.
   After Rear-Admiral Sir W. J. L. Wharton, Hydrographer to the Admiralty at date of survey, 1897.

Whatshan; lakes and river, flowing into head of Lower Arrow lake, Kootenay district, B.C.

Wheaton; mount, in the big bend of Wheaton river, southern Yukon.
   See Wheaton river.

Wheaton; river, emptying into the west side of Bennett lake, Yukon.

Wheaton Vault; a brook, flowing into Minas channel, Kings county, N.S.
   See Sheffield Vault.

Wheeler; creek, tributary to South branch of Michel creek, Kootenay district, B.C.
   After A. O. Wheeler, D.L.S.

Wheeler; mount, southeast portion of Tp. 25, R. 25, W. 5 M., Selkirk mountains, Kootenay district, B.C.
   See Wheeler creek.

Wheeler; reef, southwest of Kitchener island, west of Cockburn island, Manitoulin district, Ont.
   After engineer, Sault Ste. Marie, Michigan, U.S.

Whetstone; lake, Lake township, Hastings county, Ont.
   Descriptive.

Whiffin; spit, Sooke inlet, south coast of Vancouver island, B.C.

Whipple; mount, east of the elbow of Stikine river, Cassiar district, B.C.

Whipsaw; creek, tributary to Similkameen river, Yale district, B.C.
   Early placer miners "whipped" lumber for their sluice-boxes here.

Whirlpool; river, tributary to Athabasca river, Alberta.
   Descriptive.

White; cliff, 3 miles northeast of Hungerford point, Manitoulin island, Manitoulin district, Ont.
   Descriptive.

White; mount, north end of Little Atlin lake, Yukon.
   After Hon. Thomas White, Minister of the Interior, 1885-8.
White; pass, head of Skagway river, Cassiar district, B.C.
   See White mount.

White; river, tributary to Kootenay river, below Palliser river, Kootenay district, B.C.

White; river, tributary to Yukon river, above Stewart river, Yukon.
   Named 1850, by Robert Campbell, Hudson's Bay Co., from its colour.

White. See Ketch.

White; strait, north of Big island, Hudson strait, N.W.T.

White Bear; bay, Hudson strait, N.W.T.

White Bear; lake and river, headwaters of Gatineau river, Champlain county, Que.

White Bear. See Cassels.

Whitcap; mountain and creek, flowing from west into the creek connecting Anderson and Seton lakes, Lillooet district, B.C. (Not Portage.)

Whiteclay; lake, Ogoki river, east of Whitewater lake, Thunder Bay district, Ont.

Whitefish. See David.

Whitefish. See Garson.

Whitefish. See La Sarre.

Whitefish. See Meacham.

Whitefish Spawning. See Chukuni.

Whitefox; river, flowing into Torch river in Tp. 52, R. 14, W. 2 M., Sask. (Not White Fox.)
White Goat. See Cline.

Whitegoose; river, tributary to Migiskan river, Pontiac county, Que. (Not White Goose.)

White Grouse; creek, draining through Whatshan lake and river into Lower Arrow lake, Kootenay district, B.C.

Whitehorn; mountain, northwest of mount Robson, Cariboo district, B.C. (Not Turner nor White Horn.)
   Descriptive.

Whitehorse; town and rapid, Lewes river, Yukon. (Not White Horse.)

White Man; pass, Tp. 21, R. 11, W. 5 M., Rocky mountains, Alberta and Kootenay district, B.C. (Not White Man's.)
   Translation of Indian name; crossed by party of "emigrants," 1841 and by De Smet, 1845.

Whitemouth; lake and river, tributary to Winnipeg river, also village, Man. (Not White Mouth.)

Whitemud; river, flowing into south end of lake Manitoba, Man. (Not White Mud nor White-mud.)
   Descriptive.

White Mud. See Frenchman.

Whiterock; hamlet, Kings county, N.S. (Not White Rock Mills.)
   Descriptive.

White Rock Mills. See Whiterock.

Whites; hamlet, Huntingdon county, Que. (Not White's.)
   After John White, sometime resident.

Whites; hamlet, Kings county, N.S. (Not White's Corner.)
   After David White, sometime postmaster.

White's. See Geikie.

Whitesand; lake and river, emptying into north end of lake Nipigon, Thunder Bay district, Ont.
   Descriptive.
Whitesand; lake and river, tributary to Assiniboine river, southeastern Sask. (Not White Sand.)
   Descriptive.
White's Corner. See Whites.
Whiteshore; lake, Tp. 30, Rs. 16 and 17, W. 3 M., Sask. (Not White Shore.)
   Descriptive; an alkaline lake.
Whitestone; lake, north of Cat lake, Patricia district, Ont.
Whiteshore; lake, Tp. 36, Rs. 16 and 17, W. 3 M., Sask. (Not White Shore.)
   Descriptive; an alkaline lake.
Whitestone; lake, north of Cat lake, Patricia district, Ont.
Whiteswan; river, emptying into head of Teslin lake, Cassiar district, B.C. (Not White Swan.)
Whitestone; river, tributary to Tatshenshini river, southwestern Yukon.
Whitewater; lake, southwest Man.
   Descriptive.
Whitewater. See Taseko.
Whiteway; point, west side of north entrance to narrows of lake Winnipeg, Man. (Not Dog's Head nor West Dog Head.)
   Probably after trader.
White Whale. See Wabamun.
Whitewolf; lake, Tp. 29, R. 17, W. 2 M., Sask.
   Descriptive.
Whitewoods. See Basswood.
Whitford; post office and lake, Tp. 56, Rs. 15 and 16, W. 4 M., Alberta.
   After Archibald Whitford, sometime postmaster.
Whitley; bay, Hudson strait, New Quebec territory, Que.
   After Captain Whitley, sailing master, "Diana" expedition, 1897.
Whiteman; lake, Smellie township, Kenora district, Ont.
Wholdaia; lake, expansion of Dubawnt river, N.W.T. (Not Wholdiah.)
   Indian name meaning "white partridge."
Whymper; mount, near head of Chemainus river, Vancouver island, B.C.
   Named by Dr. R. Brown, 1864, after Frederick Whymper, artist, traveller and explorer, who accompanied him on an exploring expedition on Vancouver island.
Whymper; mount, western portion of Tp. 26, R. 16, W. 5 M., Rocky mountains, Kootenay district, B.C.
   After Edward Whymper, who made the first ascent.
Whymper. See Kiwetinok.
Whyte; mount, west of lake Louise, Alberta.
   After late Sir Wm. Whyte, 2nd vice president, Canadian Pacific Ry.
Wiachuan; river, flowing into Richmond gulf, New Quebec territory, Que. (Not Wiachewau nor Wiachouan.)
   Indian name meaning "brilliant falls."
Wicked; point, Athol township, Prince Edward county, Ont. (Not Salmon.)
Wickeens; lake, Britton township, Kenora district, Ont.
Wickham; post office, Drummond county, Que. (Not Wickham West.)
Wickham West. See Wickham.
Wicksteed; rock, entrance to Key harbour, Georgian bay, Parry sound district, Ont.
   After H. K. Wicksteed, chief engineer, Canadian Northern Ry.
Wigwam; river, tributary to Elk river, Kootenay river, Kootenay district, B.C.
   After camping ground.
Wigwas. See Eva.
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Wigwasan; lake, 11 miles west of Wabinosh lake, Thunder Bay district, Ont.

Indian name meaning "small birches."

Wigwasikak; lake, extreme south of Severn River watershed, Patricia district, Ont. (Not Birch.)

Wikwasash. See Mikwasach.

Wikwaskapauk. See Mourier.

Wilcocks; lake, Whitechurch township, York county, Ont. (Not Wilcox nor Willcocks.)

After Col. Wm. Wilcocks, settler about 1802.

Wilcox; lake, English river, Kenora and Patricia districts, Ont.

Wilcox; pass and peak, Tp. 38, R. 23, W. 5 M., Rocky mountains, Alberta.

After Walter Dwight Wilcox, author of "The Rockies of Canada."

Wild; bight, west side of Fitzwilliam island, Manitoulin district, Ont.

From appearance in gale.

Wild Horse; river, tributary to Kootenay river, at Steele, Kootenay district, B.C. (Not Skirmish.)

From abundance of horses in the district.

Wilkie; mount, south end of Trout lake, Kootenay district, B.C.

Wilkinson; creek, tributary to the Westkettle river, above Carmi, Similkameen district, B.C.

After pioneer.

Willard; lake, north of Hawk Lake, Canadian Pacific Railway station, Kenora district, Ont.

Willcocks. See Wilcocks.

Willet; mount, east of upper portion of Kootenay lake, Kootenay district, B.C.

William; head, south entrance to Parry bay, southwest of Esquimalt, Vancouver island, B.C.

After Rear Admiral Sir William Edward Parry, Arctic navigator and explorer.

Williams; bay, lac Seul, Kenora district, Ont.

Williams; lake, Attawapiskat river watershed, Patricia district, Ont.

Williams; lake, east of Fraser river, in the southern portion of Cariboo district, B.C.

Probably after Jack Williams, a Cornish settler; possibly after chief William, grandfather of present chief of Sugar Cane Reserve Indians.

Williams. See John.

William Smith; cape, northeast shore of Ungava bay, New Quebec.

After late William Smith, Deputy Minister of Marine and Fisheries of Canada, 1868-69.

Willoughby; island, St. Lawrence river, Yonge township, Leeds county, Ont.

Probably after Commander James Beautine Willoughby, R.N.; served as mate on the "Niagara," 20 guns, on the Great lakes.

Willoughby; ridge, Tps. 6 and 7, R. 4, W. 5 M., Alberta.

Willowbank; mountain and creek, Tp. 29, R. 22, W. 5 M., Rocky mountains, Kootenay district, B.C.

Descriptive.

Willowbunch; hamlet and lake, southern Sask. (Not Willow Bunch.)

Descriptive.

Willowgrove; hamlet, Oneida township, Haldimand county, Ont. (Not Willow Grove.)

Descriptive.

Wilmer. See Bruce.

Wilson; creek, flowing into Slocan lake, at Rosebery, Kootenay district, B.C.

Wilson; hamlet, Gower South township, Grenville county, Ont. (Not Wilson's Bay.)

Wilson; hamlet, southeast of Ladysmith, Vancouver island, B.C. (Not Wilson's Crossing.)


After Tom Wilson, guide, Banff.
Wilson; mount and lake, north of Itsi lakes, Ross river, Yukon. 
After Charles Wilson, prospector.

Wilson; range of mountains, Alberta, Canada, and Montana, U.S. 
After Lieut. C. W. Wilson, R.E., secretary to British Boundary Commission, Pacific to the Rockies, 1858–62.

Wilson; river, flowing into Dauphin lake from east, Man.

Wilton. See Dennis.

Wilson Corners; hamlet, Wakefield township, Ottawa county, Que. (Not Wilson's Corners.)

Wilson's Bay. See Wilson.

Wilton; creek, flowing southwesterly from Frontenac county into Hay bay, Lennox and Addington county, Ont. (Not Big.)

Wiltse; lake, Yonge township, Leeds county, Ont. (Not Wiltz nor Wiltze.) After settlers.

Wiltshire; village, Queens county, P.E.I. (Not New Wiltshire nor North Wiltshire.) After Wiltshire, county, England.

Wimapedi; brook, flowing into Burntwood river above Threepoint lake, Man.

Winawash; lake, southwest of Grand lake Victoria, Timiskaming county, Que.

Wind; mountain, Tp. 23, R. 9, W. 5 M., Rocky Mountains park, Alberta. (Not Windy.) Descriptive.

Windermere; creek, lake and town, headwaters of Columbia river, Kootenay district, B.C. (Not Lower Columbia lake, nor Marigeau nor Tegart creek.) After Windermere, England.

Windigo; bay and islands, lake Nipigon, Thunder Bay district, Ont. Indian name meaning "devil."

Windigo; lake and river, tributary to Severn river, Patricia district, Ont. 

See Windigo bay.

Windigokan; lake, 10 miles east of lake Nipigon, and east of north point of Shakespeare island, Thunder Bay district, Ont. (Not Wendigokan.)

Windsor; mountain, lat. 49° 17', long. 114° 14', Alberta. (Not Castle nor Turret.)

Windy; arm, Tagish lake, Yukon.

Windy; lake, Hayes river; Man.

Winefred; lake and river, tributary to Christina river, eastern Alberta. Named by R. E. Young, D.L.S. after his wife.

Winging; point, east headland of Fourchu bay, opposite Guyon island, Cape Breton county, N.S. (Not Wining nor Winning.) Said by a resident to be so called owing to many wild duck being shot there on the wing.

Wining. See Winging.

Winisk; river, flowing from Misamikwash lake into Hudson bay, Patricia district, Ont. (Not Wai-nusk nor Weenisk.) See Winisk; lake.

Winisk; lake, Winisk river, Patricia district, Ont. (Not Weibikwei.) Indian name meaning "woodchuck."

Winiskisisis; river, eastern channel of Winisk river, Patricia district, Ont. Indian name meaning "little woodchuck."

Winnange; lake, west of Vermilion bay, Eagle lake, Kenora district, Ont. (Not Vulture.) Indian word meaning "vulture."

Winning. See Winging.

Winnipegoosis; lake, Manitoba. (Not Winnipegoos nor Winnipegoosis.) Meaning "little Winnipeg"; Winnipeg means "muddy water."
Winonitikameg; lake, northwest of Attawapiskat lake, Patricia district, Ont.
    Indian name meaning "fat whitefish."

Wintawanan; lake, Marten-drinking river, southwest of Attawapiskat lake, Patricia district, Ont.

Wintego; lake, expansion of Churchill river, below Reindeer river, Sask.
    Indian name meaning "devil."

Wintering; lake, on canoe route from Sipiwesk lake to Grass river, Man.

Witchai; lake, Grass river, Tp. 80, R. 4, E. P.M., Man.

Witchekan; lake, Thickwood hills, west of Prince Albert, Sask.
    Indian name meaning "stinking."

Wiwa; creek, flowing into Wood river in Tp. 12, R. 4, W. 3 M., Sask.
    Indian name meaning "winding."

Wiwaxy; peaks, east of Cataract brook, near lake O'Hara, Rocky mountains, Kootenay district, B.C.
    Stoney Indian for "windy."

Wi-yat. See Waiatt.

Wizida; lake, below Wizidans lake, Kanuchuan river, branch of Attawapiskat river, Patricia district, Ont.
    Indian name meaning "crow foot."

Wizidans; lake, above Wizida lake, Kanuchuan river, branch of Attawapiskat river, Patricia district, Ont.
    Indian name meaning "little crow foot."

Woden; peak, Valhalla mountains, west of Slocan lake, Kootenay district, B.C.

Wolf; cañon, Pelly river, above Woodside river, Yukon.

Wolf. See Muhigan.

Wolf. See Grimsthorpe.

Wolfe; island, St. Lawrence river, Frontenac county, Ont. (Not Long.)
    Named in 1792 after General James Wolfe, killed at Quebec, 1759.

Wolfe; island, south of De Stein point, north shore of Prince Rupert harbour, Coast district, B.C.

Wolfe Island; township and village, Wolfe island, Frontenac county, Ont. (Not Marysville.)
    See Wolfstown.

Wolf strand. See Muhigan.

Wolfestown; township and village, Wolfe county, Que. (Not Wolfstown.)
    See Wolfe island.

Wollaston; peninsula, southwest portion of Victoria island, N.W.T. (Not Wollaston land.)
    Named by Franklin, 1821, after Dr. W. H. Wollaston (1766–1828), English chemist and physicist.

Woman; Lake and river, draining through Trout Lake river and Pakwash lakes into English river, Patricia district, Ont.

Wonder; pass and peak, south of mount Assiniboine, Rocky mountains, Alberta and Kootenay district, B.C.

Wood; mount, west of Saanich inlet, Vancouver island, B.C.

Wood; mountain and river, flowing into Johnston lake, southern Sask. (Not Wood Mountain river.)
    Descriptive.

Wood. See Jacob.
Woodbury; creek and point, west side of Kootenay lake, south of Kaslo, Kootenay district, B.C. (Not Woodberry.)

After Charles J. Woodbury, of Boston, U.S., who, with George Ainsworth, explored the creek in 1883.

Woodley; range of mountains, east of Ladysmith harbour, Vancouver Island, B.C.

Wood Mountain; post office and R. N. W. M. Police station, Tp. 4, R. 3, W. 3 M., Sask.

See Wood mountain.

Woodroffe; village, Nepean township, Carleton county, Ont. (Not Woodrooqf nor Woodruff.

After farm.

Woods; island, Ladysmith harbour, Vancouver island, B.C. (Not Long.)


Woods; lake of the, international boundary, Kenora and Rainy River districts, Ont.

The islands in the lake are wooded, but the name is probably a mistranslation of the Indian name Pikwedina Sagaigan, meaning "the inland lake of the hills," referring to the range of sand hills along the south shore.

Woods. See Carroll Wood.

Woodside; river, tributary to Pelly river, Yukon.

After Major Henry Woodside, census commissioner, 1901.

Woodtick; island, St. Clair river, Lambton county, Ont. (Not Fawn.)

Entirely covered with oak in which woodticks thrive.

Woody; river, flowing from southwest into Swan lake, Sask. and Man.

Work. See Wark.

Worm. See Vers.

Worthington; creek, flowing into west side of Lower Arrow lake, below Inonoaklin creek Kootenay district, B.C.

Wotan; mount, Adamant range, Selkirk mountains, Kootenay district, B.C.

Anglo-Saxon name of the deity called by the Norse Odin.

Wotinimata; lake, Migiskan river, Pontiac county, Que.

Wough's. See Waugh.

Wreck; point, 1 mile southwest of Tobermory harbour, Bruce county, Ont.

Schooner "China" was wrecked here.

Wrench; lake, Tp. 45, R. 3, W. 3 M., Sask.

Descriptive of shape.

Wright; bay, north shore of Amherst island, Lennox and Addington county, Ont. (Not Scott nor Wrights.)

Wright; creek, tributary to Blanche river, Timiskaming district, Ont.

Wright; creek, flowing north into west end of Surprise lake, east of Atlin, Cassiar district, B.C.

Wright; point, 4 miles north of Goderich, Huron county, Ont.

After sometime owner.

Wright; sound, between Gil and Gribbell islands, Coast district, B.C.

Wrigley; settlement and Hudson's Bay Co. post, Mackenzie river, N.W.T. (Not Fort Wrigley.)

After Commissioner Joseph Wrigley, Hudson's Bay Co.

Wunnummin; lake, upper waters of Winisk river, Patricia district, Ont.

Indian name meaning "redpaint."

Wuskatasko; brook, flowing into Grass river in Tp. 69, R. 14, W. P. M., Man.

Indian name meaning "carrot."

Wuskwatim; brook and lake, Burntwood river, lat. 55° 35', long. 98° 35'. (Not Beaver-dam Ooskootim nor Waswatim.)

Indian name meaning "beaver-dam."

25c—19½
Wyatt. See Waiatt.

Wynott: point, northeast of Head harbour, St. Margaret bay, Halifax county, N.S. (Not Smith.)

Named by Captain P. F. Shortland, R.N., 1864.

X

Yschwan. See Granby.

Y

Yahk; mountain and river, tributary to Kootenay river, Kootenay district, B.C.

Yalakom; game reserve, between Yalakom and Fraser rivers, Lillooet district, B.C.

Indian name meaning "the ewe of the mountain sheep."

Yalakom; river, flowing into Bridge river, Lillooet district, B.C. (Not North fork of Bridge.)

See Yalakom game reserve.

Yarrell; mount, north of Kishinena creek, opposite Akamina brook, in southeastern portion of Kootenay district, B.C.

After Wm. Yarrell (1784-1856), zoologist.

Yarrow; creek, flowing into Drywood river in Tp. 4, R. 29, W. 4 M., Alberta.


From a cliff resembling a face with wide-open mouth.

Yellow; point, Trineomali channel, Vancouver island, B.C.

Yellow. See Dorvilliers.

Yellow Knife. See Talston.

Yeo; island, 2 miles south of Fitzwilliam island, entrance to Georgian bay, channel, south of island, and spit, north of island, Manitoulin district, Ont.

After Commodore Sir James Lucas Yeo (1782-1819), commander-in-chief on Great lakes, 1813-14.

Yeo; island, St. Lawrence river, Escott township, Leeds county, Ont. (Not Bluff nor Old Bluff.)

After Sir James Lucas Yeo (1782-1819).

Yethi; creek, tributary to Inklin river, above its confluence with Taku river, Cassiar district, B.C.

Yoho; park, peak, glacier and river, tributary to Kicking Horse river, also lake and pass, west of river, Rocky mountains, Kootenay district, B.C. (Not Collie glacier, Glacier creek, North Fork river, Upper Emerald lake nor Wapta lake and pass.)

Cree exclamation of surprise.

York; river, tributary to Madawaska river, Hastings and Renfrew counties, Ont.

York; sound, southwest shore of Frobisher bay, Baffin island, N.W.T.

After Gilbert York, captain of the "Gabriel," Frobisher expedition, 1577.

Yorke; island, Admiralty group, St. Lawrence river, Leeds county, Ont. (Not Boss Dick.)

After Rt. Hon. Chas. Philip Yorke, First Lord of the Admiralty, 1811; born, 1764.

Youell; island, east of Hopkins point, 4 miles southeast of cape Hurd, Bruce county, Ont.

After schooner "Clara Youell."

Young; lake, Dalton township, Victoria county, Ont. (Not Montgomery.)

After James A. Young, early settler.

Young. See Wathus.

Youngs; point; west point of Ameliasburg township, north of Weller bay, Prince Edward county, Ont.

Young's. See Limestone.

Yukness; mount, southwest of mount Lefroy, Kootenay district, B.C.

Sioux Indian for "sharpened, as with a knife."
Yukon; river and territory. (Not Youcon, Youkon nor Kwichpak.)
Indian name meaning "the river."

Z

Zachariah; point, near Dodd narrows, east coast of Vancouver island, B.C.

Zanardi; rapids, between Kaien island and Watson island, Coast district, B.C.

Zenazie; creek, draining into south end of Gladys lake, Cassiar district, B.C.

Zero; rock, Haro strait, northeast of Gordon head, southeast coast of Vancouver island, B.C.
From its small size.

Zinc; mountain and valley, east of Ice river, Rocky mountains, Kootenay district, B.C.
Descriptive.

Zikan; island, Pine Tree harbour, Bruce county, Ont.
After Southampton family.

Zwick; island, bay of Quinte, near Belleville, Hastings county, Ontario. (Not Zwick’s.)
After local landowner.

Ymoetz; river, tributary to Skeena river, Coast district, B.C. (Not Copper.)
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(Names arranged by Land Districts.)

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North fork of Fraser
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Pantage
Pence
Pelican
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Purden
Quesnel
Riske
Robson
Siskut
Sir Alexander
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Tsiskut
Turner
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Bear
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Boofus
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Brown Dome
Buck
Buckley
Bulkley
Bulkley
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Egnell
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Ewing
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Flummer
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Glave
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Inkin
Iskut
Jennings
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Pulteney
Pulteney
Pulteney
Qu'star
Quinatsa
Quinitsa
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Ridley
Riordan
Ritchie
Roberson
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Schreiber
Scott
Seal
Shames
Sharbau
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Squire
Stainforth
Stanforth
Stapleford
Stelako
Stella
Stellako
Stevens
Stewart
Stickelaha
Stikelan
Stuart
Surge
Tachick
Tarte
Tatla
Tatlayako
Tatlayako
Tatlayako
Tatlayoo
Tehose-un
Telkwa
Tiahn
Tian
Tide
Tobey
Tomkinson
Tomlinson
Tremayne
Trivett
Tuck
Tullin
Turn
Turtle
Tye
Ursula
Valdes
Venn
Verney
Vigilant
Waiatt
Coast—Con.
Wainwright
Walbran
Walkem
Walkem
Walters
Wark
Wathus
Watson
West branch of Sangan
West Road
W-get
Wolfe
Work
Wright
Wyatt
Young
Zanardi
Zymoetz

Kamloops—
Adams
Anesty
Angie
Anstey
Anstony
Bastion
Chipooin
Chipuin
Connauith
Coultlee
Fraser
George
Gold
Gorge
Griffina
Hunters
Ida
Joes
Little Shuswap
Mabel
Mara
Monte
Murtle
Myrtle
Nicoamen
Nicol
Nicocon
Niskainlith
Niskonlith
Niscomin
Paul
Reservation
Roach
Roche
Salmon
Salmon Arm
Scymour
Shushwap
Shuswap
South Thompson
Spallumcheen
Toonkwa
Tunkwa

Kootenay—
Abbot
Abbott
Adamant
Afton
Ainsworth
Airy
Akamina
Akolkolex
Akotkolex
Albert
Aldridge
Alexander
Alexandra
Allison
Amiskwi
Angle Peak
Ann
Anstey
Argentine
Argonaut
Argyle
Arroypark
Assinboine
Assulkan
Athalmer
Augustine
Austerity
Avalanche
Aye
Ayesha
Asinuth
Bad
Badshot
Bagheera
Bain
Baker
Bald
Baldur
Balfour
Bannock
Barbour
Barnes
Battle
Bear
Beatrice
Beaver
Beaverfoot
Beatport
Bedlington
Begbie
Behrman
Beavon
Biddle
Bident
Bingay
Bitter Root
Blackfriars
Blackwater
Blueberry
Blue
Blueberry
Blue-Course
Bobbie Burns
Bonanza
Bonney
Booth
Boss
Bor
Bosworth
Boulder
Boulder
Boundary
Bow
Bowman
Brenner
Brewer
Brewery
Brisco
Broadwood
Bruce
Bruns
Bryce
Bugaboo
Bull
Burgess
Burton
Bush
Butwell
Cabin
Cahill
Calder
Campbell
Canber
Canyon
Cape Horn
Caribou
Caribou
Carnarvon
Carney
Carpenter
Carroll
Cartier
Cascade
Castor
Catalan
Cataract
Cathedral
Caven
Cedar
Centurion
Chancellor
Chaperon
Cheops
Cherub
Christy
Cinnamon
Citadel
Clachnacudain
Clark
Clarke
Clear
Coal
Cockle
Cogle
Collie
Collie
Columbia
Comb
Ceny
Cooper
Copeland
Coppercrown
Coral
Corbin
Cornice
Corsair
Cougur
Couldey
Cranberry
Cranbrook
Creston
Cross
Crownest
Cupola
Curtis
Cyprian
Dago
Dainard
Daly
Darrah
Davis
Dawson
Deer Lodge
Deer Park
Delphine
Deltaform
Demers
Dennis
Dent
Denver
Desolation
Despatch
Devil
Dibble
Dispatch
Doctor
BRITISH COLUMBIA—Continued.

Kootenay—Con.
Dogtooth
Dolly Yarden
Dolomite
Donkin
Duchesnay
Dunbar
Duncan
Duplex
Dutch
Eagle
Earl Grey
E. F. Wilson
Ego
Elk
Emerald
Emerald
Ennis
Erickson
Eris
Esplanade
Evans
Falls
Faraham
Fay
Felceen
Ferguson
Fernie
Ferro
Feuz
Field
File
Findlay
Fire
First North fork of Fitzstubs
First West fork of Wilson
Fish
Fisher
Fitzstubs
Flat
Flanhead
Fluming
Float
Fording
Forster
Fortress
Fort Steele
Foxtail
Four-mile
Fox
Frances
Fred
Freshfield
Freya
Frigate
Fritz
Fry
Gainer
Galbraith
Galen
Gaiton
Garnet
Gateway
Geikie
Gibraltar
Giegerich
Gillis
Gimli
Glacier
Glacier Crest
Gladsheim
Gladstone
Glenogle
Goat
Goatfell
Gold
Goldie
Goldstream
Goodsir
Gothics
Grace
Graham
Grand
Granite
Grant
Grave
Grays
Gray Wolf
Green
Green
Greens
Green's
Greys
Grizzly
Grundy
Guardsman
Habel
Hadow
Haig
Haleyton
Hall
Haly
Hamill
Hammond
Hanbury
Hansen
Harmer
Harvey
Haskins
Häser
Hawkins
Haygarth
Healy
Heart
Hector
Heindal
Heu
Helgate
Helmet
Henretta
Hermit
Hidden
Hilda
Holson
Hoder
Hogg
Holway
Hoodoo
Hooker
Horn
Horn
Horsethief
Hosmer
Hospital
House
Howell
Howse
Hosmer
Hosmer
Huber
Hughes
Hungabee
Hungry
Hunter
Hard
Hutchison
Ice
Ionoaclast
Illecillewaet
Incognappleux
Indian
Ingersoll
Inoosaklin
Invermere
Insulated
Irishman
Iron
Isolated
John
Johnson
Johnston
Jordan
Joseph
Jumbo
Kanasaskis
Kaslo
Kate
Kaufmann
Keen
Kerr
Kicking Horse
Kid
Kikomun
Kilharney
Kilpatrick
Kinbasket
Kinbasket
King
Kingsgate
Kirby & Spence
Kishinena
Klamin
Kiwtinook
Kokakun
Koos-ka-nax
Kootenay
Kuskanax
Kuskonook
Ladybird
La France
Lake
Lakit
Lamb
Lardeau
Lardo
Laussedat
Lavina
Lavington
Law
Lazy
Leach
Leancoil
Leda
Lefroy
Leon
Leon Hot Springs
Lewis
Lily
Linda
Line
Linklater
Linkwater
Little
Little North fork of Dutch
Little Slocan
Lizard
Lludmor
Lodgepole
Lonely
Lonc Tree
Lookout
Loop
Loop
Lower Arrow
Luke
Lussier
Lyall
Lyell
McArthur
MeBean
Kootenay—Con.
McCormick
McDonald
Macdonald
McDougall
McEoy
McGregor
Mackenzie
McKean
McMullen
McNicoll
Macoun
Macpherson
Manganese
Marigeau
Marion
Mark
Marpole
Marten
Martins
Matthew
Maus
Mencham
Meadow
Meek
Michael
Michaud
Middle fork of Findlay
Middle fork of Gold
Middle fork of Spillimacheen
Minaret
Mineral
Misko
Misoula
Mista
Mitchell
Mobbs
Moberly
Mohican
Moloch
Monroe
Monument
Moosie
Morrissey
Mosquito
Mosque
Moyie
Mud
Mud
Mulvey
Mummery
Nakimu
Nakusp
Naumalton
Nelson
Nemo
Neptuak
Nettie L
Niblock
Niles
Niord
Norbury
Norns
North Albert
North branch of Kicking Horse
North Fork
North fork of Cooper
North fork of Cross
North fork of Fry
North fork of Horseshief
North fork of Larderou
North fork of Michel
North fork of Toby
North fork of Yoho
North Kootenay

North Star
Novelist
Number 3
Number 3
Odaray
Odin
Oesa
Ogden
Ore
O'Rear
Oke
Oliver
Otterhead
Ottertail
Owen
Paget
Palisade
Palisser
Palmer
Palmer Bar
Park
Pearee
Peavine
Pend-d'Oreille
Pend Oreille
Pensally
Perley rock
Perry
Phillips
Pilkington
Pilot
Pingston
Pinnacle
Pit
Plumbob
Pollinger
Pollux
Popes
Poplar
Porcupine
President
Privateer
Proter
Pudding
Purity
Pyramid
Rainy
Ravelin
Redan
Redburn
Redding
Reno
Reserve
Revelstoke
Ridgeway
Rinda
Ripple
Robertson
Robson
Rock
Rogers
Rory
Rose
Ross
Ruby
Russel
Rykers
St. Eugene
St. Mary
Salmo
Salmon
Sand
Sanderson
Sanderson
Sangranda
Sapphire

Sarbach
Saugum
Sawyer
Sculping Knife
Schafer
Schroeder
Sealion
Seaton
Selkirk
Selwyn
Seraph
Sharp
Shaughnessy
Sheep
Sherbrooke
Shields
Sifton
Silver Bow
Silvercup
Silvertip
Simpson
Sinclair
Sir Donald
Sir Sandford
Six-mile
Skirmish
Slade
Slocan
Smart
Snowslide
Sodalite
Solitude
Sonata
Sophia
Sorcerer
South branch or fork of Michiel
South fork of Findlay
South fork of Gold
South fork of Grave
South fork of Horseshief
South fork of Salmon
South fork of Middle fork of Spillimacheen
Spike
Spillimacheen
Spirit
Spread
Spyglass
Stanford
Stanley
Starbird
Starvation
Steamboat
Stecke
Stee
Stephen
Stevens
Stockdale
Stockmer
Storm
Sugarloaf
Sullivan
Sunshine
Swan
Swanzy
Swiss
Syringa
Tabernaecle
Tackle
Takakkaw
Tallon
Taylor
Taynton
Tea
Tegart
Templeman
Templeton
BRITISH COLUMBIA—Continued.

Kootenay—Con.
Tenderfoot
Tent
Terminal
The Bishops
The Dome
The Monarch
The Needles
The Overlook
The President
The Rampart
The Stragglers
The Steeples
The Vice President
Thor
Thumb
Thunderhill
Toba
Toby
Tokumam
Tonkawatla
Tohmas
Tornado
Torrent
Tower
Tracey
Trident
Trolltinder
Trout
Truda
Tulip
Tupper
Turret
Twenty-five mile
Twin
Two-bit
Upper Arrow
Upper Clearwater
Upper Columbia
Upper Emerald
Upper Kootanie
Udl
Ursus Major
Ursus Minor
Uto
Valhalla
Valkyr
Van Hoosen
Van Horne
Van Houten
Vaux
Ventego
Vernilien
Vertebrae
Vertebral
Victoria
Vidette
Vingolf
Vowell
Vulture
Wagner
Waitabit
Walker
Wallenger
Wapatechik
Wapta
Wapla
Waputik
Wardner
Waschmannapa
Waterfall
Weaver
Wedgewood
Wenkchemna
West branch of Gold
Westfall
West fork of Bull
West fork of Duncan
Whaleback
Whatshon
Wheeler
White
Whitefish
White Grouse
White Man
Whymper
Wigwam
Wild Horse
Wilkie
Willet
Williams
Willowbank
Wilmer
Wilson
Windermere
Wiwaxy
Widden
Wonder
Woodbury
Worthington
Wotan
Yahk
Yarrell
Yoho
Yukness
Zine

Lillooet—
Alexander
Anderson
Babb
Bendor
Birkenhead
Bobb
Brew
Bridge
Cadwallader
Cayoose
Cayoosh
Chico
Chilco
Chiletin
Chilloko
Chinney
Currie
Duffy
Eagle
Eugene
Fraser
Great Fish
Green
Gun
Gunn
Hanceville
Horse
Hurlcy
Hvacy
Lillooet
Lorne
McGillivray
McGillivary
McLean
Marble
Marshall
Mission
Na-a-nu
Neninika
North fork of Bridge
Pearson
Pemberton
Penrose
Pool
Poole
Portage

Rex
Riske
Roches
Scotia
Seton
Sheba
Sheridan
Shulaps
South fork of Bridge
Sucker
Taeko
Taseko
Tattoo
Thomas Green
Tommy
Tranquille
Trux
Tynaguhton
Whitecap
Whitewater
Yalakom

New Westminster—
Alouette
Blanchard
Blanshard
Boundary
Brackendale
Buntzen
Campbell
Capilano
Cheakamus
Chilliwack
Cultus
Daisy
Descanso
Fraser
Georgia
Golden Ears
Huntingdon
Lillooet
Lynn
Malaspina’s
Mount
Mowatt
Semiahmu
Seymour
Squamish
Sunas
Sumass
Suncul-teh
Tahltaloo
Tahmi
Trout
Tumtechai
Vedder

Osoyoos—
Bobbie Burns
Deep creek
Gold
Kettle
Mabel
Trenangan
Trenadier

Peace River—
Fort Nelson
Fort St. John
Graham
Kleo
Lloyd George
Moberly
Muskwia
Nelson
Peace
Prophet
Peace River—Con.
Becher
Benson
Bentinck
Big Swanich
Blinthorn
Bluff
Booth
Boulder
Brabant
Braden
Brandon
Brenton
Broom
Brotchie
Bruce
Buck
Burgoyne
Burial
Burleith
Burrill
Cain
Cassidy
Castle
Chase
Chase River Crossing
Chemainus
Cheminus
Cherry
Chun
Church
Clayoquot
Clayoquot
Cluster
Coal
Cobble Hill
Coffin
Colborne
Colborne
Colborne
Colburne
Collins
Commerell
Commerell
Conspicuous
Connaia
Cordova
Cormorant
Coronation
Cottie
Covichan
Covichan
Coytekin
Cowichan
Crown
Dayman
Deadman
De Courcy
Demansil
Departure
Dodd
Donaldson
Double
Douglas
Douglas
Duffin
Duke
Duncan
Dunsmir
Edgell
Edmund
Effingham
Empress
Entrance
Erskine
Execution
Extension

Fairway
False
Felice
Finlayson
Fleet
Frances
Fraser
Frazier
Fuller
Gabriola
Galano
Garibaldi
Georgia
Glacier
Goldstream
Gonzales
Gripe
Gwaguna
Hall
Halsted
Hammond
Haslam
Hayes
Hecate
Henderson
Hoggan
Holden
Holland
Horse Shoe
Horswell
Houston
Houat
Howe
Hudson
Iffnes
Impérius
Indian
"Inner"
Jack
"Jack’s"
James
Jeffery
Jesse
Joan
Joelynn
Jordan
Karmutsen
Kirby
Kla-ash
Knight
Koksilah
Kulleet
Kuper
Ladysmith
Lagoona
Langford
Lasketti
Lasquey
Lasqueti
Leading peak
Lebeauf
Leech
Lighthouse
Link
Lock
Long
McDonald
McGuire
McKay
McLaughlin
McLaughlin
Maguire
Malahat
Maple
Matheson
Matthews
BRITISH COLUMBIA—Concluded.

Vancouver Island—Con.
Maxwell   Royal
Mayne     Ruth
Metchosin  Saanich
Michael   Rosenfeld
Miles     Saanichton
Moresby   Saddle
Mount     Saddle
Mowatt    St. Mary
Muchalat  St. Patrick's
Mudge     Saltspring
Muir      San Josef
Nanaimo   San Juan
Nankivell San Miguel
Nares     Sansum
Narrow    Satellite
Neck      Schooner
Neilson   Secretary
Nigel     Secretary
Nimpkish  Secchelt
Nixon     Separation
North     Shaft
Northumberland Sharp
Norway    Shawnigan
Opitsat   Shepherd
Osborn    Sheringham
Otter     Sheringham's
Oyster    Shotbolls
Pachena   Shute
Page      Sibell
Parkins   Sidney
Parry     Skinner
Parson    Skirt
Pedler    Smoke
Pender    Somass
Pender    Somenos
Piers     Sooke
Pilot     South Wellington
Pinعار  Squally
Pinburn   Stockham
Plumber   Stone
Plummer's Stuart
Point-no-point Sumass
Portier   Survey
Portland  Sutil
Possession Swanston
Prevost   Sydney
Protection Thetis
Quadra    Tinson
Quamichan Toad
Race      Tofino
Ragged   Townicet
Ranch     Trap
Redflag   Trincomali
Reid      Trois Bras
Reserve   Tugwell
Retreat   Twin
Richard   Tyne
Richards  Tzuzalem
Rip       Union
Rocky     Usataxes

MANITOBA.
Albert      Atic-a-make
Alexander  Atikameg
Andersonn  Bad Throat
Antler      Bald Eagle
Apeganau    Basquia
Apussigamasi Bear
Armit       Beaver-dam
Armitt      Bdlanger
Asham       Berens
Aspog'itti  Big
Athapapuskow Big Black

Valdes       Vananda
Vanop       Vesuvius
Vicor        Victoria
Wallace      Wallis
Wark         Waugh
Westholme    Whaler
Whiffin      Whymer
Wilson       Wilson's Crossing
Wood         Woods
Woodley      Work
Yellow       Zachariah
Zero         Yale

Britton     Chilliwack
Coquihalla  Eagle
Fish        Fraser
Grasshopper Granite Creek
Henning      Grasshopper
Hozameen    Henning
Jackson     Hozameen
Klesilkwa   Jackson
Kwoiek      Klesilkwa
Lodestone   Kwoiek
Lodestone   Murphy
Murphy      Lodestone
Nepoekum    Nohomin
Nohomin     Olive
Paradise    Olive
Pasayten    Paradise
Quartet     Pasayten
Quoieek     Quartet
Rabbitt     Quoieek
Riddell     Rabbitt
Shawatam    Riddell
Silver      Shawatam
Similkameen  Silver
Skagit      Similkameen
South Similkameen  Skagit
Spearling   South Similkameen
Steamboat   Spearling
Sumallo     Steamboat
Tulameen    Sumallo
Urthius     Tulameen
Whipsaw    Urthius

Big Reed      Birch
Bird         Birds Hill
Birdtail     Birtle
Black        Black
Bloodvein    Bloodvein
Blue hills of Brandon  Bloodvein
Bowsman
<table>
<thead>
<tr>
<th>Manitoba—Continued.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boyne</td>
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<td>Brandon</td>
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<td>Coleman</td>
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<td>Dog’s Head</td>
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<td>Drumming</td>
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<td>Ebb-and-flow</td>
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<td>Itates de Bois</td>
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MANITOBA—Concluded.

Weir
Wekusko
Wepiskow
West
Westbourne
West Dog Head
West Niskiligosaw
Whitemouth
Whitemud
Whiteshell
Whitewater
Whiteway

NEW BRUNSWICK.

Kent—
Coacage
Galloway
Galway
Kingston
Macdoougall
Molus
Montie's
New Gallery
New Galway
Pelerin
Point Sapin
Pullitering
Rexton
St. Mary
St. Paul

Kings—
Newtown
Pequaket
Phulmonro
Pikeswket
Pikwaket
Quispamsis

Madawaska—
Gouamitz
Gunamitz
Little Fork
Waagan
Wagan

Northumberland—
Barnaby
Bartibog
Cain
Cain River
Gaspereau
Kains
Mamozekek
Miramichi
Mirmichr
Maple Green
Protectionville
Rivière-des-Caches
Rogersville
Stratharbo
Tabasingue
Tabissantac
Tabusintac

Queens—
Gaspereau
Grimrose
Grimross
Washedemoak
Washdemoeak

Restigouche—
Campbellton
NEW BRUNSWICK—Concluded.

Restigouche—Con.

Chaleur
Cold Brook
Colebrooke
Dawsonville
Dawsonville
Gougamitz
Gunamitz
Kedgwick
La Lime
Lamir
Le Nim
Little Fork
Little Tobique
Nictor
Quatavamkedegwick
Restigouche
Rastigouche

St. John—

Courtenay
Lorneville
McCoy
Mannawagonish
Martin
Maspeck
Miecherpasque
Mispec
Mispeck
Missipek
Missipek
Pisariineo
Quaco
Quaco
St. Martin
St. Martins
Thompson

Sunbury—

Oronocto
Oronocto
Portobello
Russagonis
Russagony

Victoria—

Aroostook
Arthur
campbell
Emishone
Emishore
Gougamitz
Gunacuck
Gunamitz
Little Fork
Little Tobique
Manosekel
Manosekel
Nictau
Nictor
Odelech
Otelloch
Rapide-de-Femme
Right Hand branch of Tobique
Riley
Sisson
Tobique
Tobique
Trousers
West branch of Tobique

Westmorland—

Abous-hagan
Aulac
Bay-Verte
Bay Verte
Bellevue
Berrys Hills
Belle vue
Boyd
Bristol
Chignecto
Folly
Fort Folly
Gaspeca
Gaudet
Great Shemogue
Grindstone
Jolicoeur
Legere Corner

NORTHWEST TERRITORIES (Unorganized).

A. H. Ward
Akpatok
Akaline
Allen
Anderson
Archibald
Ark-e-leenik
Ashe
Avy
Axel Heiberg
Backs
Backs’s Western
Baffin
Banks
Baring
Bathurst
Bear
Bonamont
Bedford
Beekman
Beit
Bishop
Bladford
Blunt
Bonney
Bosanquet
Brevoort
Bruce
Butler
Button
Carlys Swan Nest
Cathavachaga
Chamberlain
Charles
Chase
Chorkhak
Christie
Chudliasi
Church
Clark
Clements
Clinton-Colden
Cockburn
Colmer

Copper Indian
Cornwall
Cornwallis
Countess Warwick
Crete
Crooks
Cumberland
Cyrus Field
Dubadinni
Dethore
Devon
Diamond

Legere Corner
Lutz
Macdougall
Missaguash
Missagash
Missaguash
Missagash
Oulac
Paintec
Petegwode
Petticoatie
Point de Bute
Pont-a-Buot
Shemogue
Sunny Brae

York—

Beauguimee
Brookway
Brookway
Chiputnaticook
Coev
Kooak
McAdam
Nacowiac
Nackawie
Newmarket
Nomocto
Oromocto
Orokonco
Peckagomique
Peckamquamis
Pokiock
Pokowagamis
Poiquock
Skogomoc
Skogomoc
Springfield
Springhill
Stanley
Stanley Village
Taxes
Tarsia
Tersous
Texas

Doctor
Doodbaunt
Dubawnt
Dyer
Earlt Greys
East
Edith
Edurni
Egypt
Elkwee
Eider
Ekwi
Ellsimpleere
Emma
Fair Ness
Findlay
Finlay
Fisher
Fletcher
Fort Good Hope
Fort Norman
Fort Providence
Fort Resolution
Fort Simpson
Fort Wrigley
Fox
Foz
Foye
NORTHWEST TERRITORIES (Unorganized)—Concluded.

Frank Clark  
Frobisher  
Gabriel  
Glasgow  
Glencoe  
God's Mercy  
Gods Mercy  
Good Hope  
Goose  
Gordon  
Govan  
Gravel  
Great Bear  
Great Fish  
Great Slave  
Greenwood  
Grey Goose  
Griffin  
Grinnell  
Gyrfalcon  
Hall  
Harbour  
Hatton  
Haven  
Hector  
Henderson  
Herodier  
High  
Hill Island  
Hogarth  
Home  
Hutson  
Ick  
Inlin  
Innarrulunga  
Irving  
Jackman  
Jacob  
James  
James Ross  
Jordan  
Jubilee  
Julian  
Ko-hekook-aug  
Kangerfiung  
Kathawachaga  
Kawtuk  
Keele  
Khartum  
King Christian  
King William  
Kitiqtung  
Kloew  
Kneeland  
Korikduardu  
Lady Franklin  
Laurier  
Leopold  
Liard  
Little Charlton  
Lockhart  
Loks Land  
Loon  
Lower Savage  
Labbock  
Lave Fox  
Lumley  
Macdonald  
Maiden  
Mansel  
Mansfield  
Markham  
Middle Savage  
Middleton  
Montrose  
Mosey Oates  
Mountain  
Murchison  
Murray  
Nainlin  
Natla  
Nauyats  
Newell  
Newton  
Nidie  
Noel  
Norman  
North  
North Cornwall  
North Devon  
North Foreland  
North Somerset  
Northumberland  
Nusheth  
Nyarling  
Olga  
Omanek  
Overflow  
Paint-hills  
Pauktorvik  
Peney  
Pethinne  
Plover  
Prince Albert  
Prince Arthur Land  
Prince of Wales  
Prince of Wales  
Prince of Wales  
Prince Patrick  
Prizler  
Providences  
Queen Elizabeth  
Ramsay  
Rawson  
Reeves  
Resolution  
Resolution  
Ringnes  
Robert  
Robinson  
Rocher  
Rock  
Ross Welcome  
Ross  
Rosies  
Saddleback  
Sass  
Sass-teasi  
Savage  
Sayuncel  
Sekwi  
Setulgi  
Shezal  
Sigga  
Simpson  
Sir E. Home's  
Sir Thomas Rove's Welcome  
Sitkug  
Solomons Temples  
Sonneret  
Spicer  
Strathcona  
Sylvia Grinnell  
Taltson  
Tazin  
Tchork-bak  
Tesse-Clewee  
The-cal-thi-li  
Thekulthili  
Thelew  
Thelen  
Thlew  
Tigeanakweine  
Tigonankweine  
Tookooollas  
Tornait  
Trodely  
Tseh  
Ts  
Tudjajduan  
Tudjajduzusirn  
Tualitas  
Twitya  
Upper Savage  
Victoria  
Waddell  
Wales  
Ward  
Warwick  
Westbourne  
Western  
West Fox  
Wharton  
White  
White Bear  
Wholdala  
Wollaston  
Wollaston Land  
Wood  
Wrigley  
Yellow Knife  
York

NOVA SCOTIA.

Annapolis—  
Bear  
Cegemecopa  
Chute  
Delap Cove  
Elebert  
Kegjimacoojie  
Kejimkujik  
Kegjimacoojie  
Margaretville  
Marshall Cove  
Port Lorne

Antigonish—  
Port Williams  
Segum Segu

Cape Breton—  
Big Loran  
Big Lorraine  
Bras d'Or  
Clark  
Cow  
Cow Bay  
Flat  
Fourchu  
Gabarus  
Gabarouse  
Great Bras d'Or
NOVA SCOTIA—Continued.

Charlo's Cove
Charo's Cove

Country
Crow
Green

Guysborough
Guysborough

Isaac Harbour
Luscomb

Middle Caledonia
Newton

Newtown
Port Bickerton

Queensport
St. Mary

Sherbrooke

Halifax—

Barrie
Big Thrumcap

Black Duck Run
Boutilier

Boutilier Point
Boutilier

Brian
Brine

Caribou Mines
Calch
Clarke

Cleveland
Cleveland

Coachman
Coolen
Coen

Coyle
Dauphin

Dauphney
Dover

Doyly
Doiser

Eisner
Eisenhour

Elderbank
Fleming

Frederick
Frostfish

George
Grampaus

Grand
Hackett
Hogarty

Harbour
Hosier

Hubbards
Hubley

Hubly
Ignor

Ketch
Kieley

Kitwiti
Kitter Witte

Leary
Lichfield

Litchfield
Little Musquodoboit

Little River Musquodoboit
Mauger

Meagher
Mosher

Myra
Navy

Oakland
Oster

Peggy Cove
Perang

Perpisewick
Perrang

Perrin
PetpeswicK

Pine Wood
Ponhook

Reed
Reid

St. Croiz
St. Margareit

Schnare
Shad

Shag
Sheehan

Sheha
Shubenacadie

Slaughenwhite
Smith

Smyes
Stephens

Stevens
Stony

Taugier
Taylor

Tenants
Terence

Tern
Thom

Thrumcap
Tom

Tun
Turner

White
Wynott

Hants—

Cheverie
Chixerie

Cockmagnus
Cockmigun

Cogmagnus
Grand

Hennigar
Joshua Hennigar

La Tete
Minas

Mines
Northfield

Pette
Ponhook

St. Croiz
St. Croiz

Shubenacadie
Tenecape

Teny
Tennycapte

Teny

Threemile Plains
Walton

Weir

Inverness—

Balache
Belache

Belbache
Bras d'Or

Cheticamp
Cheticamp Harbour

Denis
Denys

Eastern
Eastern Harbour

Grand-Etang
Great Bras d'Or

Henry
Low

McMillan
Margaree

Outer
Plaster Cove

Port Hood

Digby—

Bear
Bear River

Belliveau
Brier

Bryer

Hébert
Metagahan

Meteghan
Meteghan Station

Prim
Rogers

St. Mary

Guysborough—

Caledonia
Charlo

GEOGRAPHIC BOARD OF CANADA

SESSIONAL PAPER No. 25c
NOVA SCOTIA—Concluded.

Inverness—Con.
Port Hood Island
River Dennis
River Denys
River Denys Road
River Denys Station
St. Patrick
Smith's
W. D. Smith's

Kings—
Baxter Harbour
Billtown
Canaan
Chipman Corner
Coldbrook
Hall
Hall Harbour
Indian
Kinsman
Longspell
Meehan
Minnis
Mines
New Canaan
North Corner
Norths
Scotsman
Sheffield Vault
Split
Square
Square Cove
Wheaton Vault
Whitrook
White Rock Mills
Whites
White's Corner

Lunenburg—
Asportageon
Aspotogun
Couchman
Coleman
Covey
Dares
Dauphinee
Dauphney
Gaetz
Green
Hobson
Indian
Lahave
Le Havre
Meiners
Mesner
Misner
Pearl
Upper Lahave

Pictou—
Barey
Barney River
Big
East
John
Merigomish
Middle
River John
McCulloch
McGregor
McLeod
Skinner
Weaver
West

Queens—
Cegemecega
Joli
Kejimacooogie
Kejimkujik
Kejimacooigue
Medway
Port Joli
Port Matoon
Port Medway
Port Medway
Port Mouton
Segm Segn

Richmond—
Aroiose
Bras d' Or
Creighton
Crichton
D'Esousse
Disnouise
Dog
Framboise
Freecitone
George
Gooseberry
Great Bras d' Or
Green
Gregory
Habitants
Inhabitants
Janvrie
Jauvrin's
L'Ardoise
La Ronde
Marjoire
Petitdegrat
Petit Degrat
Petit de Grat
Poulamon
Rond
Round
St. George
Seal

Shelburne—
Barrington
Barrington Passage
Big Port l'Hebert
Cape Negro
Cape Negro Island
Emulous
Emulous
Head of Jordan River
Jordan River
Loeke
Loekeport
McNutt
Negro
Negro
Port Ebert
Port Hebert
Port Latour
Port l'Hebert
Ragged
Ragged Island
Ragged
Ragged Island
Shelburne
Shelburne Harbour
West Passage

Victoria—
Aspec
Aspy
Bird
Boularderie
Bras d'Or
Ciboux
Great Bras d' Or
Great Bras d' Or
Hibouz
Indian
Ingans
Ingans
Munro
Neal
Nigansische
Neil
St. Andrew
St. Ann
St. Patrick

Yarmouth—
Cegoggin
Chapaggin
Chogoggin
Great Tusket
Green Cove
Maitland
Port Maitland
Tusket
Tusket Wedge
Wedgeport

ONTARIO.

Addington. See Leamox and
Addington.

Algoma (district)—
Agawa
Agawa
Bachewenaung
Baguchian
Batehawana
Blind
Bridgland
Chiblow
Chippewa

Clear
Coldwater
Corbay
Corbeil
East branch of Thessalon
Ella
Eadikal
Grand
Grasset
Gull
Harmonie
Harmony
Harmony

Hilton
Jackson
Jones
Kakolaubick
Kenogami
Macoming
Mudendamda
Magog
Marksville
Matninisedo
Michipicoten
Missabi
Missanebie
ONTOHIA—Continued.

Algoma (district)—Con.
Missinaibi
Mississagi
North Lizard
Pawwuchawan
Pakowagaming
Pakowcoming
Pakowkami
Parisian
Parisiennne
Pauaugin
Pawwillegewan
Pawwilchewan
Pegamasai
Petaugain
Pawwilchewan
Reception
Robertson
Rowe
St. Mary
Shookum
Skookum
Spanish
Stony
Superior
Tendinenda
Twin
Vrooman
Wapoose
Wahiquekobing
Wahcomatagaming
Wahquekobing
Wakomata
Wakwekobi
Waugush

Brant—
Alford
Alford Junction
Eaglenest
Middleport
Mohawk
Mt. Pleasant
Nith
Smith's

Bruce—
Arbutus
Argyle
Bad Neighbour
Baptist
Barrett
Beament
Belcher
Birch
Boyer
Burke
Campbell
Cape Hurd
Cataract
Cavalier
Chantry
Chefs
China
Cigar
Clark
Corisande
Cornet
Corsair
Cove
Cove Island
Crab
Duck
Dane
Doctor
Dorcas
Doré
Douglas
Eagle
Earl
Echo
Evelyn
Fishing
Flowerpot
Gat
Gauley
Georgian
Ghegheto
Gilphie
Golden
Greenfield
Greenough
Gull
Gunn
Hopkins
Hornton
Huntreess
Hurd
Inverhuron
Johnston
Juno
Kincardine
Knife
Kolfage
Lambert
Lee
Lionhead
Logie
Loscombe
Lyal
McCallum
McElhinney
MacGregor
McNab
Macpherson
McRae
Mad
Main
Malcolm
Milton
Parker
Penetangore
Pine
Pine Tree
Porcupine
Port Elgin
Ragged
Red
Reid
Ripple
Rixon
Russel
Sable
Saturn
Saugeen
Saxon
Scott
Scougall
Scout
Seashell
Shute
Sibert
Simon
Smokehouse
Snake
Southampton
Stokes
Stony
Teumseh
Terry
Tobermory
Tolmie
Turning
Wanderer

Warner
Warren
Wells
Welsh
Wreek
Youell
Zinkan

Carleton—
Bells Corners
Bray
Britannia Bay
Britannia-on-the-Bay
Bray's-Crossing
Buckham
Dwyerhill
Goulbourne
Carlabad Springs
Eastman's Springs
Hardwood Plains
Harwood Plains
Hemlock
Herbert Corners
Hurdman
Hardman's Bridge
Jockvale
 Johnston Corners
Limebank
McKay
Orleans
Ottawa
Remie
Remous
Rockeliffe
Rockliffe
St. Joseph d'Orleans
Stanley Corners
Stittsville
Westboro
Woodroffe

Dundas—
Bouchkill
Brinston
Brinston's Corners
Chrysler
Crysler
Dixon Corners
Froatsburn
Little Nation
Nation
Newross
Petite Nation
Reid Mills
South Nation
Toussaint
Toussons
Toyehill
Toy's Hill

Durham—
Bowmanville
Darlington
Port Darlington

Elgin—
Aldborough
Aylmer
Big Otter
Big Otter Creek
Glenecolin
Otter
Port Burwell

Essex—
Edgar
Edgar's Mills
ONTARIO—Continued.

Craigs
Delisle
Garry
Glenbrook
Glenelly
Glenroy
Grasse
Grant
L'Isle
Mouille
Moullée
Munroe Mills
Raisin
Rigaud
St. Raphael
Stanley
Stonehouse

Greenville—
Acton
Bishop
Bishop's Mills
Burritt Rapids
Easton
Easton's Corners
Galloip
Kemptville
Little Nation
Lordmills
McReynolds
McReynold's Corners
Millar
Millar’s Corners
Nation
Pelte Nation
Shanly
South Nation
South Wander
Wilson
Wilson’s Bay

Grey—
Georgian

Haldimand—
Canboro
Cook
DeCewville
McKenzie
Nelles
Nelles Corners
Sherbrooke
Willowgrove

Haliburton—
Boshkung
Bright
Burnt
Canning
Cay-ba-quah-be-kung
Davis
Drag
East
Ed
Eels
Farquart
Fishtail
Fletcher
Grace
Haliburton
Hall’s
Harry
Johnson
Kabakwa
Kabah-bah-quah
Kah-shah-gah-wig-e-mog
Kah-wah-sha-be-mah-gog
Kahwebeje-wa-gamog
Kashagawi
Kashagawiganog
Kawagama
Kekakekwa
Ken-ne-big
Ken-nes-ses
Kennisik
Kimball
Kingcote
Kushog
Little Boshkung
Louisa
Macdonald
McFadden
McKenzie
Miskwabi
Mia-quah-be-nish
Monk
Monmouth
Moore
No-no-tik-go
Ninatigo
North
Numneking
Nunikani
Ontongue
Paudash
Pee-pee-ke-wah-be-kung
Pen
Pery
Pipikwabi
Poverty
Redstone
Rock
Sah-wah-nish-she
St. Nora
Sawamissi
Sheldon
Soyers
Stormy
Straggle
Welcome

Halton—
Bronte
Cook
Milton
Milton West
Oakville
Sixteen Mile
Snider
Snider's Corners
Twelve Mile

Hastings—
Anne
Baker
Baptiste
Bayside
Boulter
Clark
Coehill
Coe Hill Mines
Copeway
Coy
Deseronto
Diamond
Dickey
Dixon
Egan
Fraser
Grimshorpe
Gunter

Essex—Con.
Fighting
Peches
Peach
Pelee
Puce
Ruscom
St. Clair
St. Joachin

Frontenac—
Amazon
Ambella
Arabella
Barrett
Bayfield
Big
Blunder
Blowis
Brown's
Carpenter
Cataract
Cedar
Deep Eau
Depot
East
Ferguson
Ferguson
Francis
Frederick
Gage
Garden
Gates
Great Cataract
Grog
Haliday
Henry
Hickory
Hinckley
Holliday
Horseshoe
Hove
Johnson
Johnston
Knapp
Levi
Little Cranberry
Long
Marysville
Maxinaw
Melville
Milton
Mud
Myles
Nine Mile
Pearson’s
Penitentiary
Prince Regent
Quebec
Royal George
Seven Acre
Spartan
Spectacles
Spit
Traverse
Upper Rock
Wilcox
Wolfe
Wolfe Island

Glengarry—
Bandet
Beaudet
Becket
Boilet
Cashinglen
Colquhoun
Kah-bah-bah-quah
Kah-shah-gah-wig-e-mog
Kah-wah-sha-be-mah-gog
Kahwebeje-wa-gamog
Kashagawi
Kashagawiganog
Kawagama
Kekakekwa
Ken-ne-big
Ken-nes-ses
Kennisik
Kimball
Kingcote
Kushog
Little Boshkung
Louisa
Macdonald
McFadden
McKenzie
Miskwabi
Mia-quah-be-nish
Monk
Monmouth
Moore
No-no-tik-go
Ninatigo
North
Numneking
Nunikani
Ontongue
Paudash
Pee-pee-ke-wah-be-kung
Pen
Pery
Pipikwabi
Poverty
Redstone
Rock
Sah-wah-nish-she
St. Nora
Sawamissi
Sheldon
Soyers
Stormy
Straggle
Welcome

Halton—
Bronte
Milton
Milton West
Oakville
Sixteen Mile
Snider
Snider's Corners
Twelve Mile

Hastings—
Anne
Baker
Baptiste
Bayside
Boulter
Clark
Coehill
Coe Hill Mines
Copeway
Coy
Deseronto
Diamond
Dickey
Dixon
Egan
Fraser
Grimshorpe
Gunter
ONTARIO—Continued.

Hastings—Con.
Hastings
Hungry
Jamieson
Jamieson's
Jordan
Kajick Manitou
Kamaniskeg
L'Amable
Limestone
Long
Moira
Myers
Niger
Ox
Papineau
Quinte
Salmon
Shannonville
Sidney
Snake
Tangamong
Telegraph
Thomson
Thurlow
Trent
Trenton
Trident
Tyendina
Wadsworth
Whetstone
Wolf
York
Zwick

Huronia —
Ausable
Bayfield
Blacks
Canin
Goderich
Kintail
Matland
Mewasag
Sable
St. Joseph
Wright

Kenora (district)—
Abraham
Abram
Adam
Affleck
Ainbewatik
Alexandra
Anik
Aum
Anzhekumning
Armstrong
Ash
Asheigamo
Assinikapatakiso
Atikwa
Austin
Bed River
Baley
Bakado
Ball
Balne
Barclay
Barston
Barren
Barrie
Basket
Bass
Beaubien
Beaverhouse
Bending
Bent
Berry
Black Bird
Black Sandhill
Blueberry
Botsford
Boulder
Bowden
Boyer
Brownie
Burnet
Buntwood
Burler
Calder
Cameron
Canoe
Carleton
Caron
Celtis
Centrefire
Cherry
Circle
Clear
Clearwater
Cliffrock
Cliff
Cook
Corn
Crown
Daniels
Danish
Davies
Deacon
Deer
Delany
Denmark
Diarowic
Discovery
Dominick
Don
Drywry
Dryberry
Dryden
Dymet
Eagle
Eagle Rock
Edith
Edward
Elbow
English
Ethel
Eva
Evening
Favel
Fawcett
Fiord
Fisher
Flint
Fluke
Fog
Forelog
Forest
Gameskagamik
Gawjawigwa
Ghost
Gordon
Grassy River
Grindstone
Gryphon
Hall
Harris
Hawk
Hawkcliff
Hawkrock
Hebden
Hector
Highstone
Hill
Hodgins
Hourglass
Hughes
Hutchison
Ingall
Jay
John
Kabagukski
Kabikwabi
Kabikingwe
Kagwiosa
Kainshkomin
Kakagi
Kakinozhans
Kamamatagona
Kaminmassi
Kaminnaekakakok
Kaminini
Kamongus
Knopskikamak
Kaoekanta
Kapesakosi
Kapiwakibok
Kasakcheewewak
Kawasheganuk
Kawashebemagamak
Kawawa
Keikewabik
Kekekwa
Kennaubutch
Kennonapko
Kenora
Kenozhe
Keys
Kifert
Kimmewin
Kinnieknish
Kinnyu
Kinoje
Kishepekcheewans
Knoeb
Kramer
Kukakahu
Kukukus
Kukus
Large Trout
Laurier
Lester
Lewis
Lindal
Line
Linklater
Lister
Little Jackfish
Little Wabigoon
Lobstick
Loneman's
Long
Loom
Lorne
Lost
Lount
Low
Lynx
McDonald
McHugh
McIntyre
McLennan
Mang
Manitou
Manituneg
Manomin
Mark
Martin
ONTARIO—Continued.

Kenora (district)—Con.
Matilda
Maynard
Meander
Meggisi
Menikwesi
Menim
Meskwatessi
Mestowana
Miller
Mimaweiskag
Minnehaha
Minnesabik
Minnikau
Minnitaki
Mongus
Moonshine
Morgan
Mountain
Mud
Mystery
Namego
Nemeibennuk
Ninrodd
Norse
Northwest Angle
Nozheiatik
Nurse
Oak
Oneman
Ord
Osbourne
Osipassinini
Otakus
Oval
Oxdrift
Paintkiller
Peak
Pelican
Penassie
Perrault
Percival
Perrault
Pichestouche
Picture Narrows
Pipe
Poyer
Priam
Rat Portage
Rent
Rosamond
Ross
Route
Rowan
Sabaskong
Saganaga
Saskaquay
Sehists
Sehnarr
Segemak
Selby
Separation
Seul
Shallow
Shingwak
Shongwashu
Silver
Small Trout
Smoothrock
Spar
Stanawan
Stanchikimi
Stephen
Stewart
Stranger
Sucker
Summit
Sunday
Sunshine
Syndicate
Tahé
Talbot
Tassiegama
Tawatinaw
Teggau
Threefork
Thunder
Tide
Twilight
Unaminiskan
Uphill
Upper Minewau
Vermilion
Vulture
Wabigoon
Wabigoon
Wall-eye
Wales
Wapageisi
Wapooe
Wapous
Waseibemaga
Wasp
Weseleno
Whitney
Wickens
Wigwans
Wilcox
Willard
Williams
Winnange
Woods
Kent—
Dover East
Dover South
Ennett
Jeannette
Mitchell
Mitchell Bay
Maikirk
Paincourt
Rondeau
St. Clair
Turnerville
Lambton—
Ausable
Blackwell
Blind
Blue
Chematogan
Edward
Eddy’s Mills
Edgy Mills
Fawn
Harris
Henry Corners
Upperwash
Kettle
Kingscourt
Mandamin
Moore
Petrolia
Point Edward
Sable
Sables
St. Anne
St. Clair
Woodtick
Lanark—
Allan Mills
Christie Lake
Ferguson Falls
Franktown
Smiths Falls
Leeds—
Adelaide
Admiralty
Anderson
Ash
Aspasia
Astumond
Aubrey
Axeman
Bagot
Barge
Bass
Bathing
Bathurst
Battersby
Baurgardt
Beaurivage
Belabourer
Belamy
Big
Big Stone
Bingham
Black Charlie
Bloodletter
Bloomfield
Bluff
Bluff
Boss Dick
Bouchier
Boues
Bratt
Bridge
Brock
Broughton
Brush
Buck’s
Burnt
Burtontown
Bush
Camelot
Campbell
Carnegie
Cory
Cotline
Champagne
Cherry
Chichester
Chimney
Chimney Island
Cimon
Cleopatra
Club
Cockburn
Collier
Conran
Constance
Cook
Corn
Corn
Corn Island
Cuniff
Cut
Dark
Dark
Dashwood
Davis
Deathdealer
Deer
De Rottenburg
De Watteville
Dinghy
Dobbs
Doctor
ONTARIO—Continued.

Leeds—Con.
Donald
Downie
Dromedary
Dumfounder
E. Chimney Island (shoals)
Endymion
Everest
Fairfield
Fairfield East
Fiddlers Elbow
Fisher
Float
Forst
Fort Wallace
Garrett
Georgia
Gibraltar
Gig
Glenelbe
Gordon
Goulbourne
Grave
Grass
Grenadier
Griswold
Guide
Gutifte
Halsted
Hambly
Hamilton
Harvey
Hay
Hickey
Hill
Hog
Holsted
Hooper
Horse Block
Huckleberry
Humbly
Ingall
Jackstraw
Jones
Killenbeck
Lake Fleet
Leak
Leck
Leroux
Lindoe
Lindsay
Little
Littlejohn
Little Steve
Lynedoch
McCoy
McDonald
McDonald's
MacIntosh
McMahon
McNair
Melville
Mermaid
Mile
Mile
Miller's
Mink
Montgomery
Mulcaster
Murray
Myers
Narow
Navy
Needles Eye
Netley
Niagara
Niddry
Ninette
O'Conor
O'Conor
Old Bluff
O'Neil
Otty
Owen
Patterson
Pear
Peel
Perch
Picnic
Pilot
Pine
Pitchpine
Poole
Poole's Resort
Popham
Prince Alfred
Prince Edward
Prince Regent
Princess Charlotte
Psyche
Quarry
Raat
Ramsden
Raspberry
Rattlesnake
Redhorse
Reed
Refugee
Renny
Rial
Rich
Robert
Robinson
Rocksprings
Rolleston
Rose
Rough
Round
Rowley
Royal
St. Helena
St. Lawrence
Savage
Scorpion
Seely Bay
Seven Pines
Shantee
Shandy
Sheaffe
Sherbrooke
Sherwood Spring
Shoe
Shoemaker
Simon
Sir William
Sisters
Skelton
Smith's
Snake
Snake
Sparrow
Spectacles
Spilsbury
Spong
Squaw
Stave
Stovin
Sugar
Sumach
Surveyor
Tar
Tent
The Punts
Thwartway
Tidds
Troughton
Twin Sisters
Van Buren
Vansittart
Victoria
Wallace
Watch
Wedlock
Willoughby
Wiltsie
Yeo
Yorke

Lennox and Addington—
Am'arast
Ashby
Big
Cars
Effingham
Fish
Island
Kerr
Little Weslemkoon
Nicholson
O'Drains
Parrott
Preston
Salmon
Scott
Unger
Wemps
Weslemkoon
Wilton
Wright

Lincoln—
Bismarck
Camden
Campden
Gainsborough
Grassey's Corners
Grassie
Jordan Harbour
Queenston
St. Ann
St. Catharines
St. David
Wellandport

Manitoulin (district)—
Advance
Ainslie
 Bain
Beach
Belanger
Benson
Birch
Black
Blake
Blue Jay
Room
Buckeye
Buller
Burnt
Burnt Island
Cariboo
Carroll Wood
Carter
Castillian
Channel
Charlton
Chisholm
Christina
Cinder
Cockburn
Dave
ONTARIO—Continued.

Manitoulin (dist.)—Con.
  Dean
  Desert
  Dominion
  Dunn
  East Belanger
  East Sister
  Edna
  Emily Maxwell
  Everett
  Fagan
  False Detour
  Fisher
  Fitzwilliam
  Fréchette
  Frood
  Froude
  Gaspesia
  Gatacree
  Genesta
  Girouard
  Glycerine
  Goose
  Grand Manitoulin
  Grantham
  Grant
  Gravel
  Great Duck
  Green
  Greene
  Greene Island
  Hammond
  Hannah
  Hensley
  Herschell
  Hewson
  Horseshoe
  Housten
  Hughson
  Hungerford
  Husten
  Hyndman
  Indian
  Indian Harbour
  Inkster
  Inner Duck
  Ivan
  James
  Jenkins
  Jennie Graham
  Jones
  Kipling
  Kitchener
  Kitty
  Labrador
  Larry
  Leask
  Little
  Little Cockburn
  Little Grant
  Little Green
  Lonely
  Lougheed
  Lucas
  Lynn
  Macaulay
  McCarthy
  McGaw
  McKay
  McKim
  McLellan
  Magnetic
  Maiden
  Manitou
  Manitoulin
  Manitowaning

Mary
Maylower
Meldrum
Melville
Methuen
Michael
Middle Duck
Mildram
Mildrum
Milton
Mindemoya
Mink
Misery
Monell
Murphy
Mutchmore
North
Outer Duck
Owen
Pearson
Perseverance
Phoebe
Portage
Providence
Pulpwood
Pyris
Quarry
Queen
Rathburn
Red Dan
Rickett
Rickey
Roberts
Rudyard
Sand
Saunders
Scotchlie
Seaman
Shamrock
Shecake
Ship
Simcoe
Simms
Sims
Smith
South
South Baymouth
Square
Srigley
Stafford
Steevens
Stewart
Stony
Taylor
The Narrows
The Ridge
Thibault
Thistle
Thomas
Timber
Todman
Vigilant
Volunteer
Wagosh
Walker
Walkhouse
Wallace
West Belanger
West Duck
Western Duck
West Sister
Wheeler
White
Wild
Woods
Yeo

Middlesex—
  Area
  Fairfield
  Glenwillow
  Hutchinson
  Hutchinson
  Kerwood
  London Junction
  McGillivray
  McInnes
  McInness
  Maplegrove
  Medway
  Parkhill
  Pottersburg
  The Grove
  Walker
  W. McGillivray

Muskoka (district)—
  Bays
  Brébeuf
  Georgian
  Log
  Middrew
  Muskoka
  Rice
  St. Mary
  Trading

Nipissing (district)—
  Aylen
  Cache
  Camp
  Canoe
  Cassels
  Dotty
  Friday
  Great Opeongo
  Hay
  Link
  Little Madawaska
  Little Opeongo
  Lobster
  Macaulay
  McNevin
  McIntyre
  Madawaska
  Maggie
  Net
  Obashkong
  Opeongo
  Peeshabo
  Pishabo
  Provoking
  Ragged
  Rib
  Sea
  Smoke
  Source
  Tamagami
  Tasso
  Tea
  Temagami
  Temiskaming
  Temiskamingue
  Temiskaming
  Timagami
  Timiskaming
  Two Rivers
  White Bear

Norfolk—
  Fairground
  Kinglake
  La Salette
  Long
ONTARIO—Continued.

Murray
Perkins
Phillips
Pine
Pratt
Ruel
Shawanaga
Sheechekong
Supply
Wedge
Wicksteed

Patricia (district)—

ACHIGO
Anamebini
Anniewash
Ashewelig
Attawapiskat
Badeskawa
Bamali
Bamagama
Birch
Black Iron
Blackstone
Bluffy
Cat
Cedar
Chach Koone
Chukuni
Cochrane
Cross
Doghole
Eabamet
Ekwan
English
Equan
Fairy
Favourable
Fawn
Fishbasket
Fort Severn
Greenshields
Gullrock
Hair
Hudson
Kabania
Kab-mini-liqua-quiack
Kakkookana
Kanuchuan
Kapikik
Kapiskau
Kapiehii
Kaseguinning
Kay-gat
Kaypiskow
Kee-shekas
Keigat
Kenozhie
Kishikas
Kiskhi
Little Cedar
Little Sachigo
Little Shallow
Long-legged
Lower Clearwater
Machawaian
Makokibatan
Manakwash
Maneigewess
Manitish
Margaret
Marten Drinking
Matawa
Medicine-stone
Meggisi
Michikanog
Michikens
Michikenopik
Mijigamog
Minimiska
Mimominatik
Missanikwash
Monomshi
Naneins
Nankika
Narrows
Nehegous
Nemigeubsins
Nibinamik
Nolin
Obashi
Ochig
Ogani
Opakegen
Opinaamou
Opomask
Otokswin
Ozhiki
Ozhuskans
Packhoon
Papagong
Pakhoon
Pakwash
Papagoona
Paquash
Pek-kange-kun
Pekanguin
Pepisuek
Pichimanei
Piekie
Pikanguin
Pine
Pizustigwan
Powiowag
Red
Root
Sachigo
Sagiminis
Seeskinag
Seul
Severn
Shabuneni
Shagamu
Shakanek
Shallow
Shamattawa
Slate
Sogakuwa
Tabasokwa
Tashka
Togona
Tout
Upinakaw
Vermilion
Wadopi
Wagabhkedoi
Wai-nusuk
Wapickik
Wakikopa
Wapititem
Washagami
Washagomis
Washogummi
Washi
Weenisk
Weibikwe
Wenasuga
West Winisk
Whitefish Spawning
Whitestone
Wigwasikak
Wilcox
Williams
ONTARIO—Continued.

Ameliasburg
Athol
Bald
Beecroft
Big
Bigelow
Big Sandy
Bongard
Cadmian
Captain John's
Carrying Place
Cedar
Charwell
Cole
Consecon
Cornwall Park
Cow
Egg
False Ducks
Foresters
Fox
Grape
Grassy
Gravelly
Green
Grave

Peel—
Caledon East
Campbell Cross
Credit Forks
Derry
Derry West
East Caledon
Forks of Credit
Inglewood
Stanley Mills

Perth—
Listowel
St. Marys

Peterborough—
Anstruther
Barrette
Bolger
Buzzard
Catchacoma
Chemung
Compass
Cox
Eagle
Gulf
Jack
Kag-ish-a-bog-a-mog
Kasshabog
Kitchacum
Loucks
Mississauga
Oak
Pencil
Pilot
Serpentine
Shemong
Stony
Stoplog
Tallan

Prescott—
Atcos
Atacca
Azatika
Deseticaux
Des Amecone
Fournier
Fournerville
George
Grasse
Gratton Corners
Great
Hamilton
Large
Little Nation
L'Original
McAlpine
Nation
Petite Nation
Rigaud
South Nation

Prince Edward—
Albury
Carp
Chaudière
Crooked
Curtain
Cypress
David
Fort Frances
Hunter
Iron
Kawauingamak
Kettle
Knife
Koochiching
La Croix
Little Knife
Little Vermilion
Long Sault
Loon
McGinnis
Melina
Manitou
Melon
Merriam
Namakan
Namaquan
Namoukon
Negaquon
Pooh-bah
Portage
Rainy
Saganaga
Sand
Sand Point
Seed
Seigianagah
Seigianagan
Seigianagaw
Setcell
Stanjikoming
Swamp
Swell
Thompson
Vermilion
Wawing
Whitefish
Whitewood
Woods

Renfrew—
Allumette
Alumette
Bark
Barron
Blackfish
Carson
Cartier
Chalk
Chalk River
Charlotte
Corry
Carrigg
Gorman
Greenan
Löve
McMaster
Madawaska
Paugh
Penbrooke
Petawawa
Petersen
Rockliffe
South Petawawa
Stonecliff
Sturgeon
Tucker
York
ONTARIO—Continued.

Russell—
Bearbrook
Cheney
Cheney Station
Cobb
Embrun
Little Nation
Martel Corners
Nation
Petite Nation
St. Onge
South Nation

Simeoo—
Bond-Head
Carthew
Couchiching
Georgian
Glenhuron
Kempfent
Orchard
Penetanguishene
Simeoe

Stormont—
Black
Chrysler
Crysler
Dickinson Landing
Eamer
Farraa Point
Harrison
Harrison's Corners
Hoople
Little Nation
Mille-Roche
Monckland
Moncklands
Nation
Omaabrack
Omaabrack Centre
Omaabrack
Petite Nation
Raisin
St. Andrews
Sheak
Sheek
Sheek's
Skich
South Nation

Sudbury (district)—
Biscotasing
Biskotasi
Burwash
Chinipooshichi
Chiniguchi
Donnegana
Groundhog
Horwood
Kakoshiksh
Katherine
Kukatouche
Lone
Lower Okawakenda
Matagaming
Mattagami
Mattagami
Mesomikenda
Mesumekonda
Meteer
Michikamokenda
Michiwanenda
Mininakwa
Mollie
Muskegogama
Nabawaki

ONTARIO—Continued.

Napawoguisi
Nebowoguisi
Obabika
Obikaminaja
Okawakenda
Okawakenda
Opikinimika
Pigwogamissi
Pogamasi
Scotia
Scorih
Seven Mile
Shanakani
Spanish
Sturgeon
Upper Okawakenda
Upper Wanapitei
Vermilion
Wahnapitae
Wakamorigaming
Wakami
Wanapitei

Thunder Bay (district)—
Aldridge
Allan water
Amethyst
Arrow
Bagutchuan
Barbara
Bare
Barnard
Barrington
Beckington
Black Sturgeon
Bonnet
Brodeur
Brad
Bukemiga
Caldwell
Campbell
Caribou
Caribou
Carp
Cat-tail
Chivelston
Cock
Crystal
Crystal
Davies
Dawson
Devizes
Edward
Elbow
Elizabeth
Emma
English
Eskwanonwatin
Esquenanwatin
Flatland
Fort William
Fowl
Frank
Frazer
Geikie
George
Georgi
Gourdeau
Grand
Grand
Granite
Grassy
Great New
Greenbush
Grey
Gall
Gunflint

ONTARIO—Continued.

Gzowski
Hannah
Harris
Haystack
Heathote
Helen
Houghton
Humboldt
Island Portage
Jarvis
Jean
Jean-Pierre
Jessie
Jojo
Kabotitokwi
Kabotisiqua
Kagianagami
Kaiashk
Kama
Kaminiatikwia
Kashawveogama
Kawakaskagama
Kawashikagama
Kawaweogama
Kawawigamak
Kelvin
Kenny
Kenogami
Keshkaboon
Kopka
Lashe
Lily
Little Flatland
Logan
Lomond
Long
Lookout
McEwen
McIntyre
McKay
McKellar
Mackenzie
Mclaurin
Magnet
Magnetic
Makokibatan
Maria
Marshall
Martin
Mary
Masinabik
Mattice
Mazokama
Michipicoten
Middlebrun
Minimiska
Mission
Montreal
Moose
Mountain
Mud
Muddy
Murchison
Narrow
Nameiben
Nepegin
Nasong
Nipigon
Nonwatin
Nonwatinose
North
North Fowl
North Wind
North Wing
Obongu
Oboshikegan
ONTARIO—Concluded.

**Thunder Bay** (dist.)—Con.

Obowanga
Ogoki
Ombabika
Onamakawash
Onaman
Onamanisagi
Opichuan
Orient
Pawwachuan
Parks
Partridge
Pashkokogam
Pawitechewan
Pawjutchewan
Pikaitofwegan
Pigeon
Pitchigamabik
Pijjatawabekong
Pikkitagushi
Pine
Pishidgi
Pittiwabikong
Porphyry
Port Arthur
Pounjuchewan
Rabbit
Randolph
Rat
Kref
Robinson
Rose
Roe
St. John
Saganaga
Sapassoook
Sapassoose
Sapasuk
Savant
Seiganaga
Seiganagan
Seiganaw
Selwyn
Seseganaga
Shaganash
Shakespeare
Shangoina
Sharp Mountain
Sheepheank
Sheesheeb
Sheesheeb
Silver
Silver Islet
Smootthrock
South
South Fowl
Superior
Surprise
Swede
Tempest
Threemount
Thunder
Tierkan
Triangle
Turtle
Wabakimi
Wabinosh
Wanopu
Watap
Waweig
Wawiag
Wawong
Wendigokan
Whiteclay

**Timiskaming** (district)—

Abithili
Barber
Bass
Bear
Beaverhouse
Benson
Big Bear
Blanche
Cassidy
Chown
Clear
Cobalt
Crosby
Dawson
Farr
Gem
Gillies
Giroux
Goodwin
Gowganda
Grace
Groundhog
Haileybury
Hannah
Hannah Bay
Harricanaw
Johnson
Kakazhish
Kukatuouche
Labyrith
Larder
Latchford
Liskeard
Lorrain
Macobe
Makobe
Martineau
Matabechawan
Matabritchuan
Mattagami
Montague
Montreal
Mud
New Liskeard
Nicol
Okikodosik
Petersen
President
Prud'homme
Raven
Rousselet
St. Anthony
Sauginaga
Sharp
South branch of Moose
Sutton
Temiwassaming
Temiscamingue
Temiskaming
Timiskaming
Wabi
Ward
Wapoose
Wapoose
Wapu
Wright

**Victoria**—

Burnt
Montgomeroy
Young

**Waterloo**—

Galt
German Mills
Mill
North river
Smith's creek

**Welland**—

Chantler
Chippawa
Chippeewa
Gasline
Welland

**Wellington**—

Galt
Glen Allan
Mill
Puslinch
Schaw

**Wentworth**—

Binbrook
Blackheath
Clappison
East Flamboro
Flamboro Centre
Flamboro East
Flamboro West
Galt
Harper Corners
Mill
Ryekman
Stony
Stoney
Stoney Creek
West Flamboro
West Flamborough

**York**—

Big Rouge
Clairville
Don
Don
Eglinton
Elder
Elder Mills
Elder's Mills
Fox
Hagerman
Hagerman's Corners
Humber
Laskay
Laskey
Little Don
Middletona
Milliken
O'Sullivan
Reesor
Rouge
Snake
Springhill
Stouffville
West branch of Don
Wilcocks
Wilcocks
PRINCE EDWARD ISLAND.

Kings—
Boughton
East Souris
Grand
Head of St. Peter's Bay
Montague
Montague Bridge
Peters Road
Refuge
St. Peter
Shipwek
Souris

Queens—
Grand Rustico
Hillborough
Hillboro
New Wiltshire
North Rustico
North Wiltshire
St. Peter
Wiltshire

Prince—
Borden
Big Miminegash
Carleton

QUEBEC.

Abitibi (territory)—
Abitibi
Allard
Asinitchibastat
Assinika
Baxter
Bell
Broadback
Cobane
Chebistuanonekau
Chensagi
Chibougamau
Cobau
Cold
Coné
Dome
Elizabeth
Evans
Florence
Gizzard
Hannah Bay
Harricanaw
Height-of-land
Hugh
Ice
Iserhoff
Kamshigama
Kelvin
Kenoniska
Kirk
Kitchigama
Labyrinth
Lady Beatrix
Little Nottaway
Long
Maikasagi
Mattagami
Mattaquini
Ménard
Michagama
Middleton
Middle Gulf
Mikwashek
Mishagomish
Mistawak
Mistawak
Mistawak
Noddawai
Nottaway
Obatawagash
Obatogamau
Octave
Olga
Opemiska
Opatawaga
Opawika
Opemiska

Beauharnois—
Buisson
Cartier
Carterville
De Salaberry
Grand
St. Etienne-de-Beauharnois
St. Stanislas-de-Kostka

Bellecassse—
Abenakis
Abenquis

Berthier—
Askwahani
Dorvilliers
Dusablé
Eskwahani
Kapitachuan
Kapitajeuin
Kapitashewima
Mashamengoose
Matashi
Matawa
Matawin
Majomangues
Menjobague
Mitchinakonekus
Yellow

Bonaventure—
Capelan
Caplan
Caplan River
Chaleur
Cross
Crosspoint
East
East Port
Daniel
Goacha
Magawasha
Magawaska
Maquereau
Maquereau
Matapedia
Metapedia
Migawasha
Miguasha
New Richmond
Pointe-à-la-Carde
Pointe-au-Maquereau
Port Daniel
Port Daniel East
Ristigouche
Richmond
Ristigouche
St. André-de-Ristigouche

Abitibi (territory)—
Allard
Asinitchibastat
Assinika
Baxter
Bell
Broadback
Cobane
Chensagi
Chibougamau
Cobau
Cold
Dome
Elizabeth
Evans
Florence
Gizzard
Hannah Bay
Harricanaw
Height-of-land
Hugh
Ice
Iserhoff
Kamshigama
Kelvin
Kenoniska
Kirk
Kitchigama
Labyrinth
Lady Beatrix
Little Nottaway
Long
Maikasagi
Mattagami
Mattaquini
Ménard
Michagama
Middleton
Middle Gulf
Mikwashek
Mishagomish
Mistawak
Mistawak
Mistawak
Noddawai
Nottaway
Obatawagash
Obatogamau
Octave
Olga
Opemiska
Opatawaga
Opawika
Opemiska

Opiswataken
O'Sullivan
Orchisk
Pijuwyan
Plumondon
Puskitamika
Rabbit
Rapid
Red
Sauerc
Scott
Soldanika
Southwest
Surprise
Taibi
Tshensagi
Upper Gulf
Victoria
Waswanipi
Wawagosis
Wedding
Wemistagosew
West
Wetetagami
Wikwaskash

Argenteuil—
Argenteuil
Beechridge
Carillon
Dalesville
Grace Point
Greece Point
Hillhead
Kingham
Kingsey
Middle branch of West
St. Andrews

Ashuanipi (territory)—
Atikonak
Atiknok
Boudoin
Groswater
Kenemich
McLean
Melville
St. John

Bagot—
Aetontvale
Chevaux-de-Bagot
Duan
St. Dominique-de-Bagot
St. Hector
St. Hector de Bagot
St. Hénon-de-Bagot
St. Simon-de-Yamaska
St. Theodore-d'Aton

Caspumpeque
Holland
Little Miminegash
Malpeque
Miminegash
Miminegash
North Miminegash
Port Borden
Princetown
Richmond
Roseville
Skinner Pond
South Miminegash

Capelan
Caplan
Caplan River
Chaleur
Cross
Crosspoint
East
East Port
Daniel
Goacha
Magawasha
Magawaska
Maquereau
Maquereau
Matapedia
Metapedia
Migawasha
Miguasha
New Richmond
Pointe-à-la-Carde
Pointe-au-Maquereau
Port Daniel
Port Daniel East
Ristigouche
Richmond
Ristigouche
St. André-de-Ristigouche
Bonaventure—Con.
St. Charles-de-Caplan
St. George Port Daniel
West
West Port Daniel
Brome—
Call Mill
Chagnon
Eastman
Glen Sutton
Glenton
Orford
Orford Lake
Shongo
Chambly—
Chambly
Charcoal
Charron
Charon
Grosbois
St. Joseph
St. Lambert
Champlain—
Antikanisk
Antevanen
Assiavanan
Atim
Atim
Caosasacouta
Caosayageni
Chakwa
Chisauwatasi
Citrouille
Great Beaver
Hair Cutting
Kamitsgamak
Kapitoomakck
Kapitsuwe
Kausakuta
Kawachikamick
Kawaske kimick
Keeko
Kickendatch
Kikendatch
Kirkendatch
Mile
Manouan
Manuan
Masham engoose
Matawa
Matawin
Mattawin
Miejomanguse
Mekinac
Menjobaguse
Mitchinamkeus
Mondomak
Naja
Normand
Obiduan
Onakannis
Oakeslane
Pabelomang
Pastimikana
Pitopiko
Proud-sitting
Ribbon
Ruban
Sackawatisi
St. Maurice
Salone
Sandy-beach
Sassawatisi
Sincennes
Quebec—Continued.
Travers
Wakaumeconke
Wayagamak
Weymontachi
White Bear
Charlevoix—
Baie-St-Paul
Cap-a-la-Aigle
Comporté
Corneille
Coudres
Eagle
Goose
Jareax
Jean-Noel
Jureux
Le Hieu
Mailhau
Maillous
Murray
Murray Bay
Noire
Oies
Persil
Pikauba
Pointe-au-Pic
Port-au-Persil
Port Saloon
Port-au-Saumon
Rochers
Saint
St. Etienne
St. Fidele
St. Irenée
St. Paul's Bay
St. Siméon
Salmon
Saunon
Upikauba
Chateauguay—
Allan Corners
Féves
Rivière-des-Féves
St. Bernard
St. Urbain-de-Chateauguay
Sours
Chicoutimi—
Hache
Ha Ha
Jonquière
Kenogami
Pimpimak
Pitoukamick
Chichester
Compton—
Ste. Edwidge
St. Francis
St. François
Sawyerville
Dorchester—
Abenakis
Abenaquis
Bran
Coulombe
Fourchette
Briso-culotte
Drummond—
David
Duncan
St. David
St. Francis
St. François
Wickham
Wickham West
Frontenac—
Adstock
Aylmer
Coldstream
Courceilles
Price
St. Francis
St. François
Springhill
Gaspe—
Anse-à-Beaufils
Anse-au-Vallon
Beaufils
Bongris
Bryon
Byron
Cap-chat
Cap-de-Chate
Cap Chatte
Chat
Chate
Chate
Chloridorme
Cloridon
Cloridorme
Cross
Despair
Esper
Gaspe
Gaspé
Grande
Griffin
L'Anse au Beaufils
L'Anse-a-Vaillal
Louis
Macqueau
Maquereau
Martin
Martin River
Marte
Rivière-a-la-Marie
Rosiers
Ste. Anne-des-Monts
Huntingdon—
Anderson Corners
Calvin Grove
Carr
Carre's Crossing
Clyde Corners
Coffey
Coffey's Corners
Cowman
Hinchinbrook
Kelvingrove
Maybank
O'Neil
O'Neil's Corners
Port Lewis
Port Louis
Ste. Agnès-de-Dundee
St. Regis
Starnesboro
Whites
Iberville—
Port Lennox
Mount Johnson
Noix
St. Alexandre
Ste. Brigid
St. Gregoire
QUEBEC—Continued.

Jacques-Cartier—
Allan
Back
Bizard
Caron
Des Prairies
Ile-Bizard
MacDougall's
Marion
Marion
Orme
Ste. Anne-de-Bellevue
Ste. Anne du bout de L'Ile
St. Genevieve
St. Jacques
St. Lourent
St. Laurent, Montreal
Tortue
Valois
Valoisville

Joliette—
Askwahani
Bail
Blanche
Boule
Eskwahani
Kapenichiquama
Kapitacheuan
Kapitajewin
Kapitashewinna
Matawa
Matawin
Mawatin
Ottawa
Tunagamik

Kamouraska—
Brandyopot
Caps
Diable
Dumais
Ferme
Fouquette
Goudron
Julien
Kamouraska
Marmen
Moreau
Origaux
Pelerins
Pilgrim
Potamagomuk
Pot-a-l'eau de vie
St. Andre
St. Denis
St. Denis de la Bouteillerie
St. Eleuthere
St. Germain

L'Assomption—
Achigan
Aigle
Aiglon
Card
L'Achigan
Lebel
Plumb
Robinet

Laval—
Abord-a-Plouffe
Back
Belanger
Bord-a-Plouffe
Cote-des-Neiges-Ouest
Des Prairies
Long Point
Longue-Pointe
Nuns
Riviere-des-Prairies
St. Helen
Ste. Helene
St. Paul
Seurs (Ile des)
Tetreauville
Village Belanger

Levis—
Aubes
Aumusce
Baillargeon
Bra
Brise-culotte
Coulombe
Cupinet
Cuignet
Fourchette
Gaspe
Grillage
Neuz
Noeuds
Pintendre
Quenotte
St. Etienne
St. Henri
St. Henri Station
Vicenten
Vicenten

L'Islet—
Algeron
St. Parphile
St. Roch-des-Aulnaes
South
Veillons

Lotbiniere—
Chaillons
Deschaillons
Eschaillons
Langlois
Langlois
Pointe-Platon
Point-Platon
Richelieu
St. Antoin-de-Tilly
St. Antoine, Lotbiniere
Ste. Croix
Ste. Emilie
Ste. Emilie
Ste. Emillion
St. Jean Deschaillons

Maskinonge—
Kapitacheuan
Kapitajewin
Kapitashewinna
Maskamengoose
Matawa
Matawin
Mattawin
Méjomsayusse
Menjobaguse
Mitichinamekus
Nemiacchingue
Nemikachi

Matane—
Casupseul
Causapscal
Cosupseoul
Great Metis
Matapedia
Metapedia
Metis
Miti
Ste.-Angèle-de-Merici
St. Angele-de-Rimouski
St. Edmond
St. Florence
Sayabec
Sébec
Senelles
QUEBEC—Continued.

Montcalm—
Akoncy
Akonse
Akos
Bear-grease
Bouchette
Kakashe
Kamohigama
Kapitachuan
Kaptehqu
Kaptehweinna
Namegos
Namegosis
Nemegosis
O'Sullivan
Sheheinquaun
Shoshokwan
Tapani
Tepanee

Montagny—
Frontier
Frontière
Lacuille
St. Paul-du-Bouton

Montmorency—
Brûlé
Cap Brûlé
Grand lac Jacques Cartier
Jacques-Cartier
Metaskunk
Montée du Lac
Montée du Lac
Nakwagami
Naquagami
Upiks
Upiska

New Quebec (territory)—
( Ungava.)

Abdovik
Akwatuk
Alukpaluk
Andrew Moor
Aquatuk
Aukpatuk
Beacon
Bennett
Big
Big Rock
Bishop Roggan
Bowdoin
Burgoyne
Burwell
Ca'n
Chidley
Chimo
Chudleigh
Comb
Crooked Gutways
Deception
Diana
Douglas
Dyke
Eastmain
Factory
Fisher
Fort Chimo
Fort George
Foster's
George
Gray
Great Bishop Roggan
High Fall

Hopes Advance
Hudson
Inukshilikuluk
Inukshuktuyuk
Ittimenotok
Joy
Kangerthialuksoak
Kanapiskau
Kattaktok
Keglo
Kenogami saw
Kernertut
King George
Koksoak
Kwatsilasi
Kyk
Larch
Leaf
McLean
Martin
Matiskau
Mishkegicate
Moar
Nedluk
Nepihec
Neptune
North
Old Factory
Opinaca
Opinaka
Paint-hills
Payno
Petahkupau
Petishkupau
Petitskupau
Petshikupau
Poplar
Prince Henry
Prince of Wales
Richmond
Rigolet
Roggen
Seal
Shebllsi
South
Stimukoktok
Straight
Stupart
Tasurak
The Wart
Tisirik
Tunnuvaksuk
Tuttle
Tuvalik
Ulukhaktok
Uivaksak
Ungava
Wakenham
Wales
Waguash
Wegga
Whale
Whitley
Wineham
William Smith

Nicolaet—
Godfroy
Manseau
Morer
Moras
St. Cécile-de-leverard
St. Pierre des Becquets
St. Pierre-les-Becquets
Saguenay—Con.
Natschiquan
Natashkwan
Observation
Olomonoshibo
Fashishibua
Peashleebuu
Pentecôte
Pepechekau
Petit
Piashiti
Piastre
Pikapao
Pikopao
Pipishikau
Pointe-des-Monts
Quetchu
Romaine
St. Augustin
St. Augustine
Ste. Marguerite
Ste. Marguerite
Salmon
Sault-au-Cochon
Saut de Cochon
Saut de Mouton
Saubill
Sept-Iles
Seven Islands
Shallop
Shecatia
Shekakita
Sheldrake
Sholiaban
Souliban
Souliban
Southwest
Tadousac
Takameshau
Tête-a-la-Baleine
Tadnoutook
Toolnotook
Torta
Tout
Tulnustuk
Wapustagamu
Washikuti
Washkeecootai
Watcheeboo
Watcheeboo
Watashshu

St. Hyacinthe—
St. Barnabé-rivière-Yamaska
St. Joseph-de-St. Hyacinthe
Salvai
Salvaille
Salvage

St. Johns—
Belle-Vallée
Ile-aux-Noix
Meule
Mule
North of Halfway
St. Bernard-Sud
St. Johns
St. Valentin

St. Maurice—
Aigles
Clair
Camamablecossa
Cavaskikamick
Devenyns
Eagle

QUEBEC—Continued.

Glaises
Goldflach
Goulet
Kawaskisigat
Kawasipioguay
Kempt
Loutres
Mashamengoose
Maskeig
Matawa
Matawin
Mêjumangue
Menjobague
Mtinchiamekus
Nemicochingue
Nemikachi
Pakonsignane
Piermonta
Pointe-du-Lac
St. Maurice
Shawengan
Shawinigan
Shawinigan Falls
Wabouskoutyunk
Waquoeya
Wagwabika

Shefford—
Benlar
Brunella
Godbouro
Milton
Milton East
Orford
Rochelle
Roxton East
St. Alphonse-de-Granby
Ste. Anne-de-Stukely
Ste. Cécile-de-Milton
St. Joachim-de-Shefford
Savage
Savage's Mills
Stukely

Sherbrooke—
Ascot
Bennlar
Bowker
Brunella
Fraser
Little Magog
Long
Magog
Orford
St. Francis
St. François
Sherbrooke
Smooth
Stukely

Soulanges—
Baudet
Beauregard
Bódct
Bouleau
Cedars
Chateauguay
Dudancour
Dalhousie Mills
Dalhousie Station
D'Alogmy
De Beauce
Giroux
Grande Bateau
Grande ile aux Erables
Joubert

Lalonde
Leonard
Maple
Petite ile aux Cygnes
Round
Sévigny
Soulanges
Thorn

Staunton—
Baldwin's
Barnston
Crystal
Little Magog
Lovering
Magog
Miletta
Lyster
Tomfiboa

Temiscouata—
Cabano
Cacouna
Demers
Escourt
Estcourt
Fraserville
Frazerville
Hare
Lièvres
Loup
Marmen
Notre-Dame-du-Portage
Rivière-du-Loup
Roche-Percée

Terrebonne—
Achigan
L'Achigan
Rouge
Ste. Agathe-des-Monts
Ste. Thérèse-de-Blainville

Timiskaming—
Abhika
Abitibi
Agotaweikami
Albee
Amikiktik
Amos
Apika
Asapkona
Aapisimogashi
Atikkwaj
Atikamek
Atikmahik
Authier
Bagwash
Bass
Bear
Beauchamp
Beaudry
Bell
Bellevueille
Big
Big Obashing
Blouin
Brownwater
Brushy
Carcajou
Caron
Chief
Chikobi
Christopherson
Clay
Coffee
Crémazie
QUEBEC—Concluded.

Timiskaming—Con.

Lois
Lonely
Long
Lorenzo
Lorrainville
Magasibi
Magui
Makamik
Mance
Mann
Matamik
Mattavogosik
Mekamik
Merritt
Mishomi
Molesworth
Montague
Moosetown
Muir
Mud
Namawash
Navapitechin
Newagama
Obadovagashing
Obalski
Obashing
Obaska
Obikoba
Obiska
Obique
Octave
Okikofosik
Opasatika
Osisko
Otanabi
Puklanika
Pelletier
Piché
Ponleroy
Quinze
Ren
Robertson
Roger
Rogers
Routhier
Rouyn
Rush
St. Eugène-de-Guigues
Sassaganaga
Scotia Home
Shabogama
Shi-shi-shi
Simon
Sleepy
Spirit
Stewart
Sturgeon
Temiscaming
Temiscamingue
Timiskaming
Tiger
Timiskaming
Vaudray
Villemontel
Wabanoni
Wabaskus
Wabunoni

Wapusanan
Whitefish
Wikwaskapauk
Winiwishi

Two Mountains—

Chicot
La Chapelle
Petit Chicot
St. Columban
Ste. Monique
Ste. Monique des Deux Montagnes

Vaudreuil—

Brucy’s
Brussy
Dorion
Dowker’s
Graisse
Green Valley
Ile-Perrot
Lynch
Point Fortune
Raquette
Rigaud
Ste. Geneviève
Vaudreuil
Verte-Vallée

Vercheres—

Aigle
Dansereau
Dealauriers
Delorier
Grande
Hartelle
Hertel
Larose
Plat
Plum
Prunes
St. Ours
Vers
Vert
Worm

Wolfe—

Aylmer
Bisby
Belmina
Breeches
Colombe
Coulombe
Disraeli
Garthby
Garthby Station
St. Francis
St. François
Stratford
Ward
Wolfestown

Yamaska—

David
St. David
St. Francis
St. François

SASKATCHEWAN.

Acheninni
Aiktow
Aleott
Anerley
Antler
Aroda

Arm
Armit
Aroma
Ashe
Athabaska
Attitti

Ballantyne
Barrel
Basin
Bassin
Battle
Battleford
SAKSKATCHEWAN—Continued.

Bear
Beaver
Beaver
Bergheim
Big Cutarm
Big Quill
Big Sturgeon
Birchbark
Bjork
Blackfoot
Blaine
Bonald
Bow
Bowtree
Brightstand
Bronson
Buffalo Pound
Buffer
Bulls Forehead
Cabr
Cactus
Calder
Candle
Caribou
Carrot
Chapleau
Chaplin
Chitek
Churchill
Clearwater
Clear Water
Cold
Cole
Copeau
Cosine
Coteau
Cottonwood
Cowen
Crayfish
Creen
Crooked
Crooked
Cross
Cumberland
Cutarm
Cutknife
Cypress
Deschambault
Dirtywater
Doctor
Duck
Duck
Duck Lake
Eagle
Eaglenhill
Ear
Ecapo
Echo
Eins
Ekapo
Englishman
Etoimami
Etoimami South
Etomami
Eyebrook
Eyehill
Farrier
File
File
Fir
Fish
Fishing
Foam
Forks
Frenchman
Frobisher
Gainsborough
Gap
Garden
Garson
Goose
Goosehunting
Gordon
Graham
Grassberry
Grassy
Great Bear Sand
Hanging Hide
Heron
Highpound
Highview
Hillfarm
Horsehead
Houghton
Houghton
Humblolt
Iroquois
Iskwatikan
Island
Jackson
Jansen
Jumping
Jumping Deer
Kakinagimak
Kakinokumak
Kamatsi
Kaposvar
Kaptopwe
Keg
Killsquaw
Kiyu
Kutawagan
Kyaska
La Coll
Ladder
La Loche
Lavallée
Lawrence
La Bonge
Leather
Lebret
Lenore
Lilian
Little Candle
Little Cutarm
Little Fishing
Little Island
Little Pelican
Little Quill
Little Red
Lobster
Lodge
Long
Loon
Lowes
McFarlane
Macleod
McMurray
Madge
Makwa
Manawan
Manito
Many Island
Maple
Maple
Martineau
Maskwa
Meadow
Medicine Lodge
Meeting
Melfort
Merion
Methye
Midnight
Mineronte
Ministikewan
Mirond
Missinippi
Montague
Montreal
Moose
Moose
Moosejaw
Morin
Mudie
Mudiatik
Mukoman
Murray
Muskiki
Namew
Neale
Negik
Nemki
Nemeiben
North Antler
Notukeu
Nut
Old Wives
Okemasis
Opachuanau
Pachewanow
Paddling
Pugato
Paquin
Pasquia
Patience
Pebble
Peck
Pelican
Peonan
Pheasant
Pipoit
Pine Island
Pink
Pinto
Pita
Ponass
Porcupine
Potato
Presbyterian
Primeau
Primrose
Qu'Appelle
Quill
Rapid
Rapid River
Rat
Redberry
Red Deer
Reindeer
Rivers
Roche Percée
Root
Round
Scentsgrass
Seagram
Seepanack
Shaver
Shell
Shelbroke
Silver
Sipanak
Sisipuk
Souris
South Antler
Spruce
Stockwell
Stone
YUKON.

Aishihik  Dalton
Alligator  Daoust
Alsek  Davidson
Ammerman  Dawson
Anderson  Dewdney
Annie  Dezadens
Arkell  Dickson
Atlin  Division
Bach  Dollis
Beaton  Dominion
Beaver  Donjek
Beaver  Dundalk
Bell  Eagle
Bennett  Eagle Nest
Berna  Earn
Berney  Edith
Big Salmon  Ensley
Billings  Ethel
Bisel  Ettrain
Blackfox  Eureka
Blanchard  Fairfield
Bocanza  Fenwick
Bois  Field
Boswell  Finger
Boundary  Finlayson
Braeburn  Five-finger
Bratnober  Flat
Brewer  Follé
British  Fort Selkirk
Browns  Fortymile
Bunker  Frances
Burger  Frederick
Bush  Gilliam
Campbell  Gladman
Beaver  Glendyon
Canalaska  Golden Horn
Carbon  Granger
Carcross  Gray
Caribou  Gustavus
Caribou Crossing  Haeckel
Carmack  Haggart
Cassiar  Haldane
Cassiar  Hancock
Cathedral  Harper
Cave  Harris
Chandinu  Hart
Charley  Healy
Chieftain  Henderson
Chilcoot  Hendon
Chilcotin  Hess
Chilcotin  Hinton
Chilkoot  Hodnett
Chilkoot  Hoole
Clear  Hootalinqua
Clinton  Hootalingua
Clowdyke  Hopkins
Colombo  Horton
Colombo  Hunker
Con  Hunt
Conrad  Hutshi
Cooper  Hutshiku
Corwin  Illestoa
Craig  Illes
Criag  Independencia
Dail  Indian
Dalton  Ingram
Daoust  Itsi
Daoust  Janet
Dawson  John
Dawson  Johnston
Dewdney  Joy
Dezadens  Jubilee
Dickson  Jungle
Dominion  Kalazas
Donjek  Kandik
Dundalk  Kaskawulsh
Eagle  Katrina
Eagle Nest  Ketza
Earn  Kttsa
Earn  Klatsa
Edith  Klokhol
Ensley  Klonidike
Ethel  Klota
Ettrain  Klotz
Eureka  Kluna
Fairfield  Klunini
Field  Klukshu
Fenwick  Klusha
Field  Kultlan
Finger  Koidern
Finlayson  Kusawa
Five-finger  Kwichpak
Flat  Laberge
Follé  Ladue
Fort Selkirk  Lake
Fortymile  Lansdowne
Frances  Lansing
Frederick  Lapie
Gilliam  Last-chance
Gladman  Laurier
Glendyon  Lebarge
Golden Horn  Lebarge
Granger  Lewes
Gray  Lewis
Healy  Lewis
Henderson  Liard
Hendon  Little Atlin
Hess  Little Salmon
Hinton  Logan
Hodnett  Logan
Hoole  Lorne
Hootalinqua  Lubbock
Hopkins  McCann
Hootalingua  M'Clnitock
Horton  McConnell
Hunker  McEvoy
Hunt  Macmillan
Hutshi  MeNeil
Hutshiku  McPherson
Hutshiku  McQuesten
Hutshiku  Malcolm

SASKATCHEWAN—Concluded.

Stony  Trout
Sturgeon  Upper Fishing
Sturgeon-weir  Valleyview
Sucker  Vermilion
Suggi  Voisin
Taggart  Wakaw
The Coteau  Wapawekka
Thickwood  Wapos
Thunder  Wapus
Torch  Wusawakasik
Touchwood  Wascana
Trade  Waskana
Tramping  Waskesiu

Weed  Whitefox
White  White Mud
Whitesand  Whiteshore
Whitewood  Willowbunch
Witkemo  Wtengow
Witchekan  Wiwa
Wood  Wiwa
Woody  Wiwa
Wrench  Wiwa
YUKON—Concluded.

Maloney
Marsh
Matheson
Maunoir
Mayo
Mendenhall
Michie
Miles
Milton
Miners
Mistake
Monson
Moose
Moosehide
Mooseakin
Morley
Morrison
Mountain
Murray
Nahoni
Narchilla
Nares
Nation
Needle
Nesham
Nevin
Newton
O'Brien
O'Connor
Ogilvie
Oldman
Oldwoman
Ophir
Orange
Orchay
Osceola
Oscoode
Partridge
Pelly
Perkins
Perthes's
Perthes
Peterson
Pitts
Poker
Povoas

Prejevalsky
Prévost
Ptarmigan
Pugh
Pyramid
Quiet
Quintino Sella
Reid
Reindeer
Remington
Richtholen
Riddell
Rink
River
Rogue
Rose
Rosebud
Ross
Rowlinson
Ruby
Russell
Saint-Cyr
St. Elias
St. Hilary
Sativa
Sayyea
Schnabel
Schwalta
Seroggie
Sekulmun
Selkirk
Selous
Selwyn
Semenel
Shakwak
Sheep
Sheldon
Sifton
Simmons
Simpson
Simpson Tower
Sixtymile
Slipper
Starr
Stevens
Stewart
Stutzer
Sulphur
Sunday

Surprise
Swede
Tagish
Table
Takini
Taku
Taltmain
Tantalus
Tasin
Tatchun
Tatonduk
Tatshenshini
Tay
Taye
Tent
Terrace
Tessel
The Three Guardsmen
Thistle
Thomas
Thompson
Thron-duck
Til-e-i-tsho
Tillei
Tintina
Tilet-lam-a-nesota
Too-hlas
Tootscho
Tower
Traffic
Tammel
Tustles
Tyers
Unahini
Vancouver
Vesuvius
Vowle
Walsh
Ward
Watson
Wellesley
Wesketahin
Wheaton
White
Whitehorse
Whitestone
Wilson
Windy
Woodside
Yukon
PROVINCIAL DIVISIONS.

The spelling of the names in the lists which follow is that of the Provincial Governments.

COUNTIES AND DISTRICTS IN CANADA.

New Brunswick—
Albert
Carleton
Charlotte
Gloucester
Kent
Kings
Madawaska
Northumberland
Queens
Restigouche
St. John
Sunbury
Victoria
Westmorland
York

Nova Scotia—
Annapolis
Antigonish
Cape Breton
Colchester
Cumberland
Digby
 Guysborough
Halifax
Hants
Inverness
Kings
Lunenburg
Pictou
Queens
Richmond
Shelburne
Victoria
Yarmouth

Ontario—
Algoma (district)
Brant
Bruce
Carleton
Dufferin
Dundas
Durham
Elgin
Essex
Frontenac
Glengarry
Grenville
Grey
Haliburton
Haldimand
Halton
Hastings
Huron
Kenora (district)

Kent
Lambton
Lanark
Leeds
Lennox and Addington
Lincoln
Manitoulin (district)
Middlesex
Muskoka (district)
Nipissing (district)
Norfolk
Northumberland
Ontario
Oxford
Parry Sound (district)
Peel
Perth
Peterborough
Prescott
Prince Edward
Rainy River (district)
Renfrew
Russell
Saugeen
Stormont
Sudbury (district)
Thunder Bay (district)
Timiskaming (district)
Victoria
Waterloo
Welland
Wentworth
York

Prince Edward Island—
Kings
Prince
Queens

Quebec—
Abitibi (territory)
Argenteuil
Arthabaska
Ashuapmushuan (territory)
Bagot
Beauharnois
Beauce
Belleville
Berthier
Bonaventure
Brome
Chambly
Champlain
Charlevoix
Chateauguay
Chicoutimi
Compton
Dorchester
Dundas
Frontenac
Gaspe
Hochelaga
Huntingdon
Iberville
Jacques Cartier
Joliette
Kamouraska
Labelle
Lake St. John
Laprairie
L'Assomption
Laval
Levis
L'Islet
Lotbiniere
Maisonneuve
Matane
Maskinonge
Megaquemaker
Missisquoi
Mississauga (territory)
Montcalm
Montmagny
Montmorency
Napierville
New Quebec (territory)
Nicelet
Ottawa
Ponche
Portneuf
Québec
Richelieu
Richmond
Rimouski
Rouville
Saguenay
Shefford
Sherbrooke
Souris
Stanstead
St. Hyacinthe
St. Johns
St. Maurice
Temiscouata
Terrebonne
Timiskaming
Two Mountains
Vaudreuil
Verchères
Westmount
Wolfe
Yamaska
MINING DIVISIONS IN BRITISH COLUMBIA.


PARISHES IN NEW BRUNSWICK.

<table>
<thead>
<tr>
<th>Parish</th>
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<th>Parish</th>
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### PARISHES IN NEW BRUNSWICK—Concluded.

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