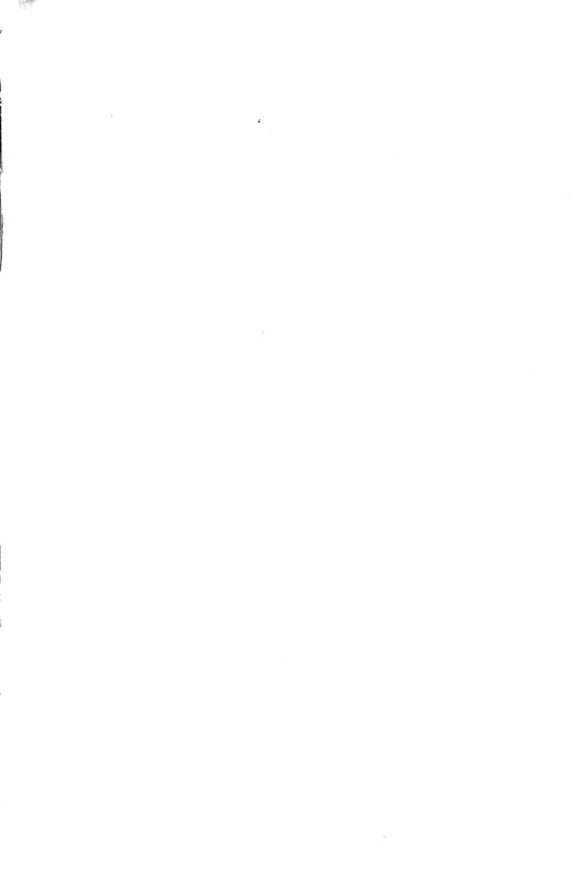


Publications





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SESSIONAL PAPERS



FIRST SESSION OF THE THIRTEENTH PARLIAMENT

OF THE

DOMINION OF CANADA

SESSION 1918





VOLUME LIII,



ALPHABETICAL INDEX

TO THE

SESSIONAL PAPERS

OF THE

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Census of Prairie Provinces-Population and Agriculture-Manitoba, Saskatchewan, and Alberta, 1916..... Printed for distribution and sessional papers. (This volume is bound in three parts.)

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- 1. Report of the Auditor General for the year ended 31st March, 1917, Volume I, Parts a, b
- ort of the Auditor General for the year con-Presented by Hon. Mr. Maclean, April 22, 1918. Printed for distribution and sessional papers. 1. Report of the Auditor General for the year ended 31st March, 1917. Volume IV, part ZZ.

CONTENTS OF VOLUME 2.

- 2. The Public Accounts of Canada, for tht fiscal year ended 31st March, 1917. Presented by Hon. Mr. Maclean, March 20, 1918. Printed for distribution and sessional papers.
- 3. Estimates of sums required for the service of the Dominion for the year ending on the 31st March, 1919, and, in accordance with the provisions of "The British North America Act, 1867." Presented by Hon, Mr. Maclean, March 22, 1918. Printed for distribution and sessional papers.
- 4. Supplementary Estimates of sums required for the service of the Dominion for the year ending on tht 31st March, 1918, and, in accordance with the provisions of "The British North America Act, 1867." Presented by Hon. Mr. Maclean, May 18, 1918. Printed for distribution and sessional papers.
- 5. Supplementary Estimates of sums required for the service of the Dominion for the year ending on the 31st March, 1919, and in accordance with the provisions of "The British North America Act, 1867." Presented by Hon. Mr. Maclean, May 20, 1918. Presented by Hon. Mr. Maclean, May 20, 1918. Printed for distribution and sessional papers.

CONTENTS OF VOLUME 3.

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- 8. Report of the Superintendent of Insurance for the year 1917. (Vol. I.) Printed for distribution and sessional papers.
- 8. Report of the Superintendent of Insurance for the year 1917. (Vol. II.) Printed for distribution and sessional papers.
- 9. Abstract of Statements of Insurance Companies in Canada for the year ended 31st December, 1917. (Subject to corrections.) Presented by Hon. Mr. Maclean, May 13, 1918.

CONTENTS OF VOLUME 4.

10. Annual Report of the Trade of Canada (Imports for Consumption and Exports), for the fiscal year ended 31st March, 1917. Presented by Sir George Foster, May 22, 1918. Printed for distribution and sessional papers.

CONTENTS OF VOLUME 5.

- 10a. Report relating to Mail Subsidies and Steamship Subventions as controlled by the Department of Trade and Commerce, for the fiscal year ending 31st March, 1917, with Traffic Returns, etc., to 31st December, 1917. Presented by Sir George Foster, May 17, 1918. Printed for distribution and sessional papers.
- 10b. Report of the Trade and Commerce Department. Grain Statistics for the fiscal year 1916. and the Report of the Board of Grain Commissioners. Printed for distribution and sessional papers.
- 10c. Criminal Statistics for the year ended September, 1917. Printed for distribution and sessional papers.

CONTENTS OF VOLUME 6.

11. Report of the Department of Customs containing the tables and statements of Imports and Exports of the Dominion of Canada for the fiscal year ended 31st March, 1917. Presented by Hon. Mr. Sifton, March 26, 1918.

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CONTENTS OF VOLUME 7.

- 11a. Shipping Report of the Department of Customs, containing the statements of Navigation and Shipping of the Dominion of Canada, for the fiscal year ended 31st March, 1917. Presented by Hon. Mr. Sifton, March 26, 1918. Printed for distribution and sessional papers.
- 12. Inland Revenue, Annual Report, Part I-Excise. The Senate. Printed for distribution and sessional papers.
- 13. Inland Revenue, Annual Report, Part II-Weights and Measures, Gas and Electricity. The
- 14. Inland Revenue—Part III—Adulteration of Food. The Senate. Printed for distribution and sessional papers.
- 15. Report of the Minister of Agriculture for the Dominion of Canada, for the year ended 31st March, 1917. Presented by Hon. Mr. Crerar, March 25, 1918. Printed for distribution and sessional papers.
- 15b. Report of the Veterinary Director General for the year 1917. Printed for distribution and sessional papers.
- 15c Report on "The Agricultural Instruction Act." 1916-17, pursuant to Section 8, Chapter 5 of 3-4 George V. Presented by Hon, Mr. Crerar, March 25, 1918,

 Printed for distribution and sessional papers.
- 16. Report of the Director and Officers of the Experimental Farms for the year ending 31st

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- 19. Report of the Minister of Public Works on the works under his control for the fiscal year ended 31st March, 1917. Presented by Hon. Mr. Carvell, March 26, 1918.

 Printed for distribution and sessional papers.
- 20. Annual Report of the Department of Railways and Canals, for the fiscal year from 1st April, 1916, to 31st March, 1917. Presented by Hon. Mr. Reid, March 27, 1918. Printed for distribution and sessional papers.
- 20a. Canal Statistics for season of navigation, 1917

Printed for distribution and sessional papers.

- 20b. Railway Statistics for the Dominion of Canada, for the year ended 30th June, 1917.

 Printed for distribution and sessional papers.
- 20c. Twelfth Report of the Board of Railway Commissioners for Canada, for the year ending 31st March, 1917. Presented by Hon. Mr. Reid, March 25, 1918.

 Printed for distribution and sessional papers.
- 20d. Telephone Statistics of the Dominion of Canada, for the year ended 30th June, 1917. Presented by Hon. Mr. Reid, March 25, 1918.

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- 21. Fiftieth Annual Report of the Department of Marine and Fisheries, for the year 1916-17-Marine. Presented by Hon, Mr. Ballantyne, March 20, 1918.
 - Printed for distribution and sessional papers.
- 22. List of shipping issued by the Department of Marine and Fisheries, being a list of vessels on the Registry Books of the Dominion of Canada, on the 31st of December, 1917. Printed for distribution and sessional papers.
- 23. Supplement to the Fiftieth Annual Report of the Department of Marine and Fisheries (Marine)—Steamboat Inspection Report.. Printed for distribution and sessional papers.

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24. Report of the Postmaster General for the year ended 31st March, 1917. Presented by Hon,

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- 25. Annual Report of the Department of the Interior, for the fiscal year ending 31st March, 1917. Presented by Hon. Mr. Meighen, March 27, 1918. Printed for distribution and sessional papers.
- 25a. Annual Report of the Topographical Surveys Branch of the Department of the Interior, for the fiscal year ending 31st March, 1917... Printed for distribution and sessional papers.
- 25c. Sixteenth Report of the Geographic Board of Canada, for the year 1917. Printed for distribution and sessional papers.

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- 26. Summary Report of the operations of the Geological Survey, Department of Mines, for the year 1917..... Printed for distribution and sessional papers.
- 26a. Summary Report of the Mines Branch of the Department of Mines, for the year ending
- 27. Report of the Department of Indian Affairs for the year ended 31st March, 1917. Presented by Hon. Mr. Calder, March 27, 1918.... Printed for distribution and sessional papers.
- 28. Report of the Royal Northwest Mounted Police, 1917. Presented by Hon. Mr. Rowell, 2nd
- **29.** Report of the Secretary of State of Canada, for the year 1917.

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- 30. The Civil Service List of Canada, for the year 1917. Printed for distribution and sessional papers.

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- 31. Annual Report of the Civil Service Commission of Canada, for the year ending 21st August,
- 32. Report of the Department of Public Printing and Stationery for the fiscal year ended 31st March, 1917. Presented by Hon. Mr. Burrell, April 23, 1918. Printed for distribution and sessional papers.
- 33. Report of the Secretary of State for External Affairs, for the year ended 31st March, 1917. Presented by Sir Robert Borden, May 8, 1918. Printed for distribution and sessional papers.
- 34. Report of the Minister of Justice as to the Penitentiaries of Canada, for the fiscal year

- 35. Report of the Militia Council for the Dominion of Canada, for the fiscal year ending 31st March, 1917. Presented by Hon. Mr. Mewburn, April 10, 1918. Printed for distribution and sessional papers.
- 36. Report of the Department of Labour for the fiscal year ending 31st March, 1917. Presented by Hon. Mr. Crothers, March 26, 1918..... Printed for distribution and sessional papers.
- 36a. Tenth Report of the Registrar of Boards of Concilliation and Investigation under "The Industrial Disputes Investigation Act, 1917," for the fiscal year of 1917. Printed for distribution and sessional papers.
- 38. Report of the Department of the Naval Service, for the fiscal year ending 31st March, 1917. Presented by Hon. Mr. Ballantyne, March 19, 1918. Printed for distribution and sessional papers.
- 38a. Supplement to the Seventh Annual Report of the Department of the Naval Service (Fisheries Branch). Contributions to Canadian Biology, being studies from the Biological

CONTENTS OF VOLUME 14.

- 39. Fiftieth Annual Report of the Fisheries Branch of the Department of the Naval Service, 1916-1917. Presented by Hon. Mr. Ballantyne, March 19, 1918. Printed for distribution and sessional papers.
- 40. The Report of the Joint Librarians of Parliament. Presented by Hon. The Speaker, March
- 41. Minute of Council appointing the Honourable Martin Burrell, Secretary of State; the Honourable John Dowsley Reid, Minister of Railways and Canals; the Honourable Arthur L. Sifton, Minister of Customs, and the Honourable James A Calder, Minister of Immigration and Colonization, to act with the Speaker of the House of Commons, as Commissioners for the purposes, and under the Provisions of the Eleventh Chapter of the Revised Statutes of Canada, 1906, intituled: "An Act respecting tre House of Presented by Sir Robert Borden, March 18, 1918..... Not printed. Commons."
- 42. Copies of Orders in Council, as follows:-
 - P.C. 987, dated 10th April, 1917. Defence of Canada Order, 1917. Regulations, penalties, etc.
 - P.C. 1397, dated 21st May, 1917.—Regulations re persons employed on docks, etc.
 - carrying matches, smoking, etc., prohibited.

 P.C. 1451, dated 25th May, 1917.—Further penalties under Defence of Canada P.C. 2277, dated 17th August, 1917.—Re Desertions from merchant vessels; penalties, etc.
 - P.C. 2769, dated 4th October, 1917.—Ship's lights; regulations, re.
 - P.C. 3306, dated 29th November, 1917.—Prohibition, sending code messages re merchant ships without authority.
 - P.C. 3307, dated 29th November, 1917 .- Seamen undergoing imprisonment for desertion may be liberated for service on vessels.
 - P.C. 3319, dated 29th November, 1917.—Regulations re persons employed on docks. P.C. 3017, dated 3rd December, 1917.—Naval authorities may authorize embarkation of explosives in merchant ships.
 - P.C. 3362, dated 24th December, 1917.—Transportation of explosives by railways. P.C. 86, dated 15th January, 1918.—Competent naval authority may prescribe order
 - in which ships may be supplied with coal. P.C. 87, dated 17th January, 1918.—Regulation prohibiting taking of firearms, etc., from Canada by sea without permission of naval or military authority.
 - P.C. 91, dated 15th January, 1918.—Regulations providing that all British ships, 1,600 tons or over, trading to Europe and the Mediterranean must have wireless apparatus, etc.
 - P.C. 261, dated 1st February, 1918.—Regulation re carriage of explosives on passenger trains.
 - P.C. 282, dated 26th February, 1918, respecting the placing at the disposal of The War Trade Board the output of any factory or workshop engaged in the production of arms, ammunition, food, machinery, etc.
 - P.C. 524, dated 2nd of March, 1918, in substitution of Regulation Fifty-one, respecting penaltics for refusing to obey any orders or rules issued under the provisions of the Defence of Canada Order, 1917.
 - P.C. 558, dated 5th of March, 1918, amending P.C. 987, dated 10th April, 1917.— Regulation respecting the employment of look-outs on merchant vessels of 2,500 gress tomage and upwards.
 - P.C. 559, dated 8th March, 1918, respecting the exportation of goods from Canada to neutral countries. Presented by Sir Robert Borden, March 18, 1918... Not printed.

42a. Copies of Orders in Council, as follows:-

P.C. 17, dated 4th January, 1918.—Wearing military or naval uniforms by unauthorized persons.

P.C. 86, dated 15th January, 1918.—" Defence of Canada Order, 1917," coaling of vessels.

P.C. 87, dated 17th January, 1918.—" Defence of Canada Order, 1917," export of firearms.

P.C. 91, dated 15th January, 1918.—"Defence of Canada Order, 1917," radiotelegraph equipment on vessels.

P.C. 261, dated 1st February, 1918.—Carrying of explosives on passenger trains. P.C. 329, dated 8th February, 1918.—Rates of pay R.N,C,V,R,

P.C. 387, dated 20th February, 1918.—Allowance to officers and men travelling on

P.C. 462, dated 2nd March, 1918.—Treatment of insane members of the naval service.

P.C. 524, dated 2nd March, 1918.—" Defence of Canada Order, 1917," enforcement of provisions.

P.C. 2769, dated 4th October, 1917.—Amendment to "Defence of Canada Order, 1917," re lights on vessels.

P.C. 2791, dated 9th October, 1917.—Retention of services of men in the R.N.C.V.R. after termination of the war.

P.C. 3017, dated 3rd December, 1917.—Amendment to "Defence of Canada Order, 1917," re carriage of explosives in merchant ships.

P.C. 3064, dated 2nd November, 1917.—Rates of pay to officials officiating at courts

martial and disciplinary courts for the Royal Canadian Navy. P.C. 3072, dated 6th Nopember, 1917.—Regulations governing the issue of war

P.C. 3192, dated 13th November, 1917.—Rates of pay on discharge to men not

eligible for three months' gratuity. P.C. 3306, dated 29th November, 1917.—Amendment to "Defence of Canada Order,

1917,"re communicating information with regard to the movements of ships. P.C. 3307, dated 29th November, 1917.—Amendment to "Defence of Canada Order,

1917," re release of imprisoned seamen. P.C. 3319, dated 29th November, 1917.—Amendment to "Defence of Canada Order,

1917," re carrying of matches in the vicinity of inflammable substances.

P.C. 3362, dated 24th December, 1917.—Amendment to "Defence of Canada Order, 1917," re transportation of explosives on passenger trains.

P.C. 3391, dated 24th December, 1917.—Retention of services of men in the Royal Canadian Navy after the termination of the war.

P.C. 3392, dated 22nd December, 1917.—Institution of rank of commander, R.N. CVR.

P.C. 3470, dated 26th December, 1917.—Institution of warrant ranks, Royal Canadian Navy.

P.C. 3474, dated 27th December, 1917.—Rates of pay to paymasters, R.N.C.V.R.

P.C. 3475, dated 5th January, 1918.—Separation allowance.

P.C. 558, dated 8th March, 1918.—Look-outs on merchant vessels. P.C. 560, dated 8th March, 1918.—Admitting United States vessels to privileges in Presented by Hon. Mr. Ballantyne, March 19, 1918.....Not printed. Canadian ports.

- 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.
- 42d. Copy of Order in Council, P.C. 974, dated 23rd April, 1918, "Defence of Canada Order,
- 42e. Order in Council No. P.C. 1102, dated 10th May, 1918.—Amendments of "Defence of Canada Order, 1917," Section 23c, re fitting and supplying vessels registered in Canada with defensive armaments. Order in Council No. P.C. 1129, dated 11th May, 1918.—Amendments of "Defence of Canada Order of 1917," Section 22A, re ships' lights.
- 42f. Copy of Order in Council No. P.C. 1208, dated 17th May, 1918, re allowances to officers

- 43. P.C. 632, dated 14th March, 1915, respecting the increase in freight and passenger rates on Canadian railways. P.C. 631, dated 14th March, 1918, respecting the collection of special taxes from the Canadian Pacific Railway Company. Presented by Sir Robert
- 44. P.C. 3116, 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 26th 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.

P.C. 224, dated 26th January, 1918, amending P.C. 3473, dated 22nd December, 1917, providing for the issuing of a special license by the Minister of Customs for the importation of liquors under certain circumstances.

P.C. 589, dated 11th March, 1918.—Regulations regarding the manufacture and sale of intoxicating liquors in Canada. Presented by Sir Robert Borden, March 18, 1918.

- **45.** P.C. 3073, dated 29th October, 1917.—Establishment of a Department of Immigration and Colonization; provision of a salary for the Secretary of State for External Affairs.
- 46. P.C. 432, dated 21st February, 1918.—Establishment of a Department of Soldiers' Civil Re-Establishment.
 - P.C. 433, dated 21st February, 1918.—Regulations re Military Hospitals Commission.

 - 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., Parlia-
 - mentary 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.
- 47. P.C. 307, dated 6th February, 1918.—Purchases to be made by the War Purchasing Commission for the several departments of Government. Presented by Sir Robert Borden,
- 48, P.C. 272, dated 2nd February, 1918.—Appointment of a Canadian War Mission in the United States of America.
 - P.C. 281, dated 2nd February, 1918.—Appointing Lloyd Harris, Chairman of the Canadian War Mission in the United States of America.
 - P.C. 653, dated 16th March, 1918.—Appointing Messrs, Frank A. Rolph, A. H. Scott
- 48a. Return to an Address to His Excellency the Governor General of the 20th March, 1918, for a copy of the Orders in Council creating the War Mission at Washington, appointments
- 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 Commis-
 - P.C. 576, dated 9th March, 1918.—Regulations re payment of claims arising out of the Halifax disaster. First report of Halifax Relief Commission attached. Presented by Sir Robert Borden, March 18, 1918..... Printed for sessional papers only.
- 50, P.C. 3005, dated 23rd October, 1917.—Appointment of a War Committee of the Cabinet. P.C. 3006, dated 23rd October, 1917.—Appointment of a Committee of the Cabinet to be known as "The Reconstruction and Development Committee." Presented by Sir

51. P.C. 358, dated 13th February, 1918.—Regulations re appointments to the Public Service. P.C. 491, dated 28th 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. 548, dated 15th March, 1918.—Approval of Interim Regulations made by the Civil Service Commission, under clause 3 of O.C. P.C. 358, dated 13th February, 1918.

- P.C. 637, dated 18th March, 1918.—Regulations re dismissal of public officials on the ground of offensive partisanship during the recent election. Presented by Sir Not printed. Robert Borden, March 18, 1918....
- 52. P.C. 2833, dated 8th October, 1917.—Public Service Committee of National Service. Pre-
- 52a. Registration Regulations made by the Canada Registration Board. Presented by Hon.
- 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 24th 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. 2245, 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. 2557, dated 15th September, 1917.—Registrar for Saskatchewan—A. L. Haining.
 - P.C. 2558, dated 15th September, 1917.—Registrar for Manitoba—E. R. Chapman. P.C. 2559, dated 15th September, 1917.—Registrar for Toronto—Glynn Osler. P.C. 2563, dated 15th September, 1917.—Franking 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. 2591, dated 17th September, 1917.—Registrar for Calgary—John M. Carson. P.C. 2598, 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. Wismer and Major H. P. Cook,

P.C. 2624, dated 21st September, 1917.—Deputy Registrar for Quebec—A. Gobeil. P.C. 2635, dated 28th September, 1917.—Deputy Registrar for Quebec—F. A. Labelle.

P.C. 2637, dated 28th 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. 2699, dated 3rd October, 1917.—Registrar for Nova Scotia—E. H. Nichols. P.C. 2725, dated 3rd October, 1917.—List of officials to sign Letter of Credit

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. 3008, dated 20th October, 1917.—Living and travelling expenses of numbers of Military Service Council.

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. 3095, 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.

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. 3230, 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 North-

west Territories and other remote regions.

P.C. 3232, dated 19th November, 1917.—J. H. Moss authorized to sign requisitions for printing and stationery for use of Military Service Council.
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. 3298, dated 29th November, 1917.—Registrars and Deputy Registrars, remun-

eration 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 persons engaged in agriculture.

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

P.C. 3356, dated 5th December, 1917.—Remuneration of representatives 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. 33, 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. 70, dated 8th January, 1918.—Regulations respecting men changing residence. 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 exempted men under the Military Service Act.

P.C. 116, 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 \it{re} appeals from the grants of exemption by tribunals-production of foodstuffs.

P.C. 237, dated 30th January, 1918.—Liability to Military Service of United States citizens in Canada, and Candian British subjects in the United States. P.C. 271, dated 2nd February, 1918.—Regulations re hearing of appeals in the

Province of Quebec.

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

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.

And 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 Mi'itary Service Act, 1917, etc. Pre-

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. Nichols, Esq., Director of Public Information. Presented by Hon. Mr. Rowell, March 18, 1918... Not printed.

- 55. Copy of the Minutes of the meetings of the Conference between the Dominion and Provincial Governments of Canada, held at Ottawa, during February, 1918, respecting the general war situation as concerned with financial, food, shipping, and military necessities.
- 56. Copies of Orders in Council, as follows-

P.C. 1460, dated 16th June, 1917.—Regulations for appointment of Food Controller. P.C. 1684, dated 21st June, 1917.—Appointment of Hon. W. J. Hanna as Food Controller.

P.C. 1844, dated 3rd July, 1917.—Staff, office of Food Controller; appointment of Todd, Willison and French.

P.C. 2079, dated 1st August, 1917.—Franking privilege extended to Food Controller.

P.C. 2190, 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. 2333, 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. 2730, dated 3rd October, 1917.—Franking privilege to secretaries of Provin-

cial Committee of Food Controller's Office. P.C. 2689, dated 8th 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, dated 19th October, 1917.—Cereal foods. Regulations re sale of.

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. Regulations re. Food Controller authorized to fix profits, etc.

P.C. 3223, dated 15th November, 1917.—Licensing of mills for the grinding of flour: regulations $r\epsilon$.

P.C. 3215, dated 19th November, 1917.—Food Controller's Office; \$100,000 for

salaries and other expenses in.

P.C. 3236, dated 19th November, 1917.—Oleoma:garine: Regulations re handling of: Licenses for importation of to be issued from Office of Veterinary Director General. P.C. 3236 (a), dated 2nd Extra Canada Gazette, 17th November, 1917.—Order of Food Controller re manufacture, importation and sale of oleomargarine.

P.C. 3239, dated 19th November, 1917.—Food Control Regulations framed by Food

Controller re licenses for exportation of goods to allied countries, etc., approved. P.C. 3263, dated 27th 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.

F.C. 163, dated 19th January, 1918.-\$50,000 for expenses of Food Controller's

office.

P.C. 180, 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. 200, dated 24th January, 1918.—Resignation, Hon. W. J. Hanna as Food Controller.

P.C. 53, dated 26th January, 1918.—Regulations $r\epsilon$ expertation 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 appointment of certain members of.

P.C. 223, datel 4th February, 1918.—Appointment Mr. H. B. Thomson as Food Controller vi e Hen. W. J. Hanna.

P.C. 344, 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. 370, dated 12th February, 1918 —Regulations re Public Eating Places. O.C.,

9th August, 1917, amended.

P.C. 420, dat d 20th February, 1918.—Amending O.C. of February 11, 1918, creating The Capada Food Board-Powers not to include any of the powers or duties vested in the Board of Grain Supervisers for Canada.

P.C 470, dated 28th February, 1918.—Prohibiting removal of flint or dent corn from the counties of Lambton, Ess.x, Kent and Elgin to any place outside of said

district.

P.C. 543, dated 7th Mar h, 1918 — Regulations $r\epsilon$ use of grain for feed purposes in sto k yards, et .

P.C. 567, dated 'th March, 1915.-Placing of sums of money to the credit of the Canada Food Boarl for the purchase of Ford tractors.

P.C 580, dated 915 March, 1918.—Regulations re livensing of packing houses— Limitation of prefit of sales.

P.C. 596, ated 12th March, 1918.—Regulations re power of The Canada Food Board to make orders regarding the kinds and amounts of foods that may be used, etc. P.C. 597, dated 12th March, 1918.—Regulations forbidding the wilful waste of any

- 56a. Report of the Ford Controller, Hon. W. J. Hanna, K.C., to the Prime Minister, dated 24th
- an Order of the House of the 20th March, 1918, for a 56b. Return to 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, 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 Control'er's Office at Ottawa and throughout Canada, including rents, furnishings. equipments, heat, light, salaries, traveling 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. S. How many of the employees are returned soldiers who have been on active service since 1914. Presented April 18, 1918.—Mr. Lapointe Not printed.

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- 56c. Return to an Address to His Excellency the Governor General of the 20th 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. 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 occu-
- 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
- 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 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, 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

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. 1651, dated 15th June, 1917.—Fuel Controller vested with powers under

Inquiries Act. 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. 2060, dated 27th July, 1917.—Assistant Fuel Controller. Appointment of H. P. McCue as.

P.C. 2289, dated 22nd August, 1917.—Fuel Control. Appointment of Donald S. Kerr to assist and C. W. Paterson 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. 3668, 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

285, 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.

P.C. 325, dated 11th February, 1918.—Powers of Fuel Controller extended. Sir George Foster laid on the Table, by Command of His Excellency,—Copies of Orders in Council, as follows:-

P.C. 359, dated 20th February, 1918.—Regulations providing for the conservation of fuel necessary to the national security.

P.C. 564, dated 8th 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.
- 58a. P.C. 2729, dated 4th October, 1917.—Establishment of Editorial Committee re printing of public documents. Presented by Sir George Foster, March 19, 1918. Printed for sessional pap is only.

- 59. P.C. 337, dated 8th 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,
- 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
- 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 31st 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 20, 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,
- 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.
- Return to an Address to His Excellency the Governor General of the 8th April, 1918, 64a. 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
- Return to an Order of the House of the 8th April, 1918, for a copy of all correspondence
- 65. Report and Statement of Receipts and Expenditures of the Ottawa Improvement Commission to March 31, 1917. Presented by Hon. Mr. Maclean, March 20, 1918.
- 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
- 67. Report of Women's War Conference, called by the War Committee of the Cabinet, at Ottawa, February 28th to March 2nd, 1918. Presented by Hon. Mr. Rowell, March 20,
- 68. Statement of Expenditure on account of "Miscellaneous Unforeseen Expenses," from the
- 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.

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 40-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. 107, 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. 736, 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. 982, 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 Regula-

P.C. 2562, 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. 3210, 15th November, 1917. Authorizing the cutting of timber on Dominion

lands for ship-building purposes.

P.C. 3243, 27th November, 1917. Confirming certain Orders in Council re administration of Dominion Lands in the Railway Belt in British Columbia.

P.C. 3245, 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.

P.C. 185, 21th January, 1918. Repealing Order in Council P.C. 159, January 19,

1917, and substituting certain regulations therefor.

P.C. 23_425, 20th February, 1918. Authorizing the issue of a lease to J. H. Morrison, Kamloops, of certain lands in the Railway Belt, British Columbia, for mining purposes. Presented by Hon. Mr. Meighen, April 2, 1918...........Not printed.

- 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
 - P.C. 340, 7th February, 1917, amending Order in Council 19th December, re administration of "Project Meadows" in Forest Reserves in Railway Belt, British Columbia.
 - P.C. 2595, 18th September, 1917, placing the control of certain lands in the Waterton Lakes Park under the Director of Forestry.

P.C. 2594, 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 20, 7-8 Edward VII, as follows:—P.C. 13, 8th January, 1917. Rescinding Order in Council 4th March, 1910, re S.W. 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 Cowesses 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. 108, 17th January, 1917. Authorizing free grant of lot 5, township 70-23, W.

5th, to "La Corporation Episcopale Catholique Romaine d'Athabaska." P.C. 110, 17th January, 1917. Authorizing the sale of certain lands to Moses

Lessard for irrigation purposes.

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. 165, 20th January, 1917. Setting aside certain Dominion lands for Indian

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

Reserve purposes. P.C. 167, 20th January, 1917. Setting aside certain Dominion lands for Indian Reserve purposes.

P.C. 210, 26th January, 1917. Dispensing with residence duties in connection with the entry of Frank Ruppert for the S.W. 4 of 16-33-14, W. 4th.
P.C. 301, 2nd February, 1917. Dispensing with residence duties in connection

with the entry of Wm. Thorburn for the S.W. 1 of 13-28-22, W. 2nd.

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. 327, 6th February, 1917. Authorizing issue of free patent to Jos. Hewitt for the S.E. 4 of 20-44-3, W. 2nd, in lieu of land occupied by him being included in a Forest Reserve.

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. 493, 20th February, 1917. Dispensing with residence duties by Samuel McCall on the E. ½ of 21-31-1, W. 3rd.

P.C. 560, 28th February, 1917. Authorizing time spent at farm labour in Canada

during 1917, to count as residence duties on entries for Dominion lands.

P.C. 555, 28th February, 1917. Making provisions of Orders in Council of 8th May, 1915 (P.C. 1042), 20th September, 1915 (P.C. 2150), 9th December, 1915 (P.C. 2888), and the 12th January, 1916 (P.C. 33), applicable to pre-emptions and purchased

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. 526, 5th March, 1917. Authorizing extension of terms of Order in Council 11th March, 1915, for period of four months up to 11th July, 1917.

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. 686, 16th March, 1917. Granting right to Mr. Notman to purchase certain

lands in Province of Manitoba.

P.C. 687, 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. 848 29th March, 1917. Authorizing sale of lands to Western Canada Power Company for power development purposes.

858, 29th March, 1917. Authorizing grant of land for cemetery purposes to

Rural Municipality of Bright Sand, No. 529.

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. 4 36-45-25, W. 3rd, to Allan V. Macie.

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

P.C. 1068. 18th April, 1917. Authorizing issue of lease of certain lands to Northern Fish Company, Limited, Selkirk, Manitoba.

P.C. 1066, 15th April. 1917. Authorizing issue of license of occupation of certain lands to the city of Winnipeg for water-power purposes.

P.C. 1067, 18th April, 1917. Dispensing with residence duties and authorizing issue of patent to James Wilson, in connection with the N.E. 4 of 35-19-11, W.P.M. P.C. 1069, 18th April, 1917. Authorizing grant of certain lands for cemetery purposes to the village of Major, Saskatchewan.

P.C. 1071, 18th April, 1917. Authorizing grant of certain lands to rural municipality of Lakeview, No. 454 Alberta, for cemetery purposes.

P.C. 1072, 18th April, 1917. Authorizing issue of patent of certain lands to

Mr. D. Ennill.

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

P.C. 1222, 3rd May, 1917. Setting apart certain lands for the Indian of the Peguis.

P.C. 1207, 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. 1268, 8th May, 1917. Rescinding Order in Council P.C. 572, 5th March, 1917, and enacting new regulations therefor.

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

P.C. 1378, 21st May, 1917. Setting apart certain lands for park purposes and granting the 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.

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. Authorizing Rev. W. B. Cumming, Saskatoon, to make P.C. 1536, 5th June, 1917.

entry by proxy on behalf of James Grossart. Withdrawing certain lands which had been reserved P.C. 1580, 11th June, 1917.

for the Hudson's Bay Railway. Authorizing grant of certain lands to the town of P.C. 1613, 13th June, 1917.

Gimli, for cemetery purposes. P.C. 1691, 21st June, 1917. Authorizing sale of certain lands to John Hedberg,

Jasper, Alberta.

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 wihle on active service overseas. Authorizing sale of certain lands to William

P.C. 1717, 26th June, 1917. 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 Lutherian Congregation.

P.C. 1821, 30th June, 1917. Authorizing grant of land for cemetery purposes to the Ruthenian Greek Catholic Parish of St. Michael's in Communion with Rome, St. Martin, Manitoba.

P.C. 1866, 6th July, 1917. Dispensing with residence duties in connection with the entry of W. L. Taylor for the N.W. $\frac{1}{4}$ 13-25-1, W.P.M.

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

Authorizing grant of certain lands for cemetery

P.C. 1934, 12th July, 1917. Authorizing grant of certain lands for cemetery purposes to St. George Cemetery Company, Egremont, Alberta.

P.C. 2039, 26th July, 1917. Authorizing grant of certain lands for park purposes to the town of Drumheller, Alberta.

P.C. 2036, 27th July, 1917. Authorizing grant of land for cemetery purposes to rural municipality of Bear Lake, No. 740.

P.C. 2037, 27th July, 1917. Authorizing grant of land for cemetery purposes to P.C. 2037, 27th July, 1917.

Authorizing grant of land for church purposes to P.C. 2037, 27th July, 1917.

Synod of the Diocese of Qu'Appelle. P.C. 2038, 27th July, 1917.

Authorizing sale of certain lands to Diocese of Ruperts 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. 15th August, 1917. Confirming the late C. R. Coutts in his entry for

P.C. 2239, 15th A the S.E. 6-83-17 W. 6. P.C. 2241, 18th August, 1917. Authorizing sale by auction of certain school lands. P.C. 2258, 18th August, 1917. Authorizing the lease of certain lands to the Salts and Potash Company of Canada.

P.C. 2259, 18th August, 1917. Granting certain lands for cemetery purposes to La Corporation Episcopale Catholique Romaine de Regina.

P.C. 2226, 18th August, 1917. Transferring certain lands from Indian Affairs to Interior Department to be used for church purposes.

P.C. 2287, 18th August, 1917. Confirming the late Joe White, who died on active service overseas, in his entry for the N.E. 11-89-9 W. 4.

P.C. 2419, 1st September, 1917. Dispensing with residence duties in connection with the entry of J. L. Crawford for the N.E. 21-2-15 W. 3rd.

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

P.C. 2420, 1st September, 1917. Granting certain lands to Col. Malloy.

P.C. 2469, 11th September, 1917. Granting certain lands for church purposes. P.C. 2488, 11th September, 1917. Granting certain lands for summer home and shooting purposes.

P.C. 2489, 11th September, 1917. Granting certain lands for church purposes. P.C. 2490, 11th September, 1917. Granting certain lands for cemetery purposes. P.C. 2535, 11th September, 1917. Granting a lease of certain lands for cement

purposes. P.C. 2509, 11th September, 1917. Relieving entrant on active service from neces-

sity of erecting a house on his homestead.

P.C. 2561, 15th September, 1917. Dispensing with residence duties in case of entry for the S.E. 33-10-15 W. 4.

P.C. 2593, 17th September, 1917. Granting certain lands to R. B. Clarke in lieu of other lands surrendered to the Crown by him.

2641, 28th September, 1917. Granting certain lands to the Grand Trunk

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

P.C. 2728, 3rd October, 1917. Granting certain lands for church purposes.

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

P.C. 2856, 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. 3279, 13th November, 1917. Granting certain lands to A. Thoma, Calais, Alta. P.C. 3201, 14th November, 1917. Setting apart certain lands for the Sioux Band of Indians.

P.C. 3242, 19th November, 1917. Granting certain lands for church purposes. P.C. 3210, 15th November, 1917. Granting permission to cut certain timber for

ship building purposes.

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. 65, 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. 66, 12th January, 1918. Granting certain lands to Chas. Standing Ribbon. Calais, Alberta.

P.C. 157, 22nd January, 1918. Change in description of certain lands granted personal representatives of the late T. W. Chalmers.

P.C. 34-238, 30th January, 1918. Granting certain lands for cemetery purposes. P.C. 317, 8th February, 1918. Granting certain lands to the province of 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. 401, 20th February, 1918. Enacting regulations affecting men on active service.

P.C. 23-425, 20th February, 1918. Leasing certain lands for mining purposes. P.C. 430, 21st February, 1918. Granting certain lands to the Grand Trunk Pacific

Branch lines for terminal purposes. Enacting regulations re homesteaders employed as P.C. 459, 7th March, 1918.

farm labourers. P.C. 538, 7th March, 1918. Enacting certain regulations affecting men on active

service who hold homestead entries.

P.C. 37-563, 8th March, 1918. Enacting regulations governing the leasing of

74. Return called for by section 88, of chapter 62, Revised Statutes of Canada, requiring that the Minister of the Interior shall lay before Parliament, each year, a return of 20

- 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.

- 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.

- 84a. 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.

- 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 Floyal 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

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 over-

- 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 Hospital Commission in Quebec City, since the first of January, 1917. 2. From whom these purchases were made, and on whose recommendation. 3. The purchase price.
- 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 official is 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 past year, and for what purpose. 8. If the Military Hospita'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.
- 90. Return to an Order of the House of the 20th 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.
- 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 2, 1918.—Mr. McMaster. Not printed.
- 93. Summary Report of the Clerk of the Crown in Chancery of the General Election Returns,
- 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.
- 95. Return to an Address to His Excellency the Governor General, of the 20th 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
- 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. 3276, 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. 3322, 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.

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 London, Eng., in place of Brigadier-General J. F. L. Embury.

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 6 constituted one single polling division.

P.C. 63. 8th January, 1918.—Special returning officers and clerks; remuneration

O.C. 4th January, 1918 (P.C. No. 9) amended. P.C. 84, 12th January, 1918.—Special returning officers; appointment Capt. Harold Baker, C.E.F., London, Eng., in place of Lt.-Col. Nelson Spencer.

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. Ritchie 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 Major Powell as special returning officer.

P.C. 397, 18th February, 1918.—Edgar E. R. Chevrier appointed to replace J A.

Pinard 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. Not printed

- 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. Trahan Not printed.
- 98. Return to an Order of the House of the 20th March, 1918, for a return showing the names of all persons employed in Ottawa in the Military Service Council, their salaries and former occupations.
- 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.
- 190. Return to an Order of the Senate, dated 21st March, 1918, showing:-The details of certain 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 \$35,584, \$26,736, \$20,748 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 estab'ishment, 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
- 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. Bal-
- 104. Copy of Order in Council, P.C. 915, dated 16th April, 1918, prohibiting the press from publishing 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 18, 1918.

- 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...
- 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. Pre-
- 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 the 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. Pre-
- 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. Pre-
- 110. Return to an Order of the House of the 10th 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.
- 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 \$92,820,000. 2. To what banks these notes were issued, and what the respective security was in each case. Presented April 18, 1918.—Mr. Trahan.

- 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 unrevised and the number of revised. 2. Is the French translation made from the unrevised edition or from the revised? 3. Is the French translation for the probate of heavesting computated? If on whom were the last service of the probate of heavesting computated? translation of the Debates of last session completed? If so, when was the last copy delivered to the Printing Bureau? If not yet completed, how many pages remained untranslated on the 15th of March last? 4. How many translators are employed on the regular staff for this work? 5. 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, state the name of each such person, the length of time he has been so employed, and the amount of his remuneration therefor. 5. Is each translator expected to translate a definite minimum number of pages of the Debates each working day? If so, how many printed pages are supposed to constitute a fair day's work for each man? 9. Did the
- 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, 1914, to December, 1917 : -1.Mercantile losses by enemy action and marine risk. 2. Mercantile Shipbuilding 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 Amelia between Pictou and Magdalen Islands Presented April 19, 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

- 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 Langton 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. Demers......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. Meighen, April 23, 1918.

 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 Joliette, 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 Soldier Settlement Loan under the authority of the Soldier Settlement Act (Chapter 21, 7-8 George V). Presented by Hon. Mr. Meighen, 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

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 Markda'e 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. Cahill.

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.
- 129. Report of the Commissioners appointed to investigate the businesses of William Davies Co., Ltd., and Matthews-Blackwell, Ltd., dated 1st November, 1917. Presented by Hon. Mr. Crothers, May 1, 1918.
- 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 \$35,584, \$26,736, \$20,748 and \$23,533. Presented May 1, 1918.—Mr.
- 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,
- 131b. Statement showing details of remuneration paid in connection with Victory Loan.
- 132. Return to an Order of the House of the 3rd April, 1918, for a return showing: -1. How many local tribuna's 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 dem was allowed each member of such thoulant. 5. 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).

- 133. Report of the Ninth Annual Meeting of the Commission of Conservation, Canada,
- 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, Lino, Job and Parliamentary. 4. Press rooms: Platen and Cylinder. 5. Binding: Book, Pamphiet. 6. Stereotyping. 7. Map
- 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.

- 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, 7-8 George V, 1917.—(The Senate)........Not printed.

- 141. Interim Report No. 2, Georgian Bay Canal Commission,—Wheat Prices, and a Comparative Study of United States and Canadian Markets, by W. Sanford Evans. Presented by Hon. Mr. Carvell, May 13, 1918. Printed for distribution and Sessional Papers.
- 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, 7,262 lbs.; Hamilton, 4,874 lbs.; Toronto, quantities not given in lbs., only sides, quarters, legs, etc.; Ottawa, 7,787 lbs.; Montreal, 105,898 lbs. (b) Poultry: Winnipeg, 11,364 lbs.; Hamilton, 8 fowl; Montreal, 2,344 lbs. (c) Fish: Winnipeg, 9,066 lbs.; Toronto, 74,587 lbs., weight not given, only number of packages for remainder; Montreal, 137,903 lbs. (d) Vegetables: Winnipeg, 265,565 lbs.; Toronto, 5,855 lbs. cabbage, the rest weight not given, only crates, baskets, etc., also recently 48,010 lbs., or 24 tons of food unfit for human consumption: Montreal, 13,940 lbs. (e) Eggs: Winnipeg, 3,013 lbs.; Hamilton, 40 doz.; Toronto, 1,050 doz., 6 tubs, 1 pail, and 8 gallons yolk. (f) Butter: Winnipeg, 3,374 lbs.; Hamilton, 22 lbs. (g) Fruit (fresh and dried): Winnipeg, fresh, 46,375 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.
- 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 unrevised 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 have 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 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. What investigations were made as to the atmospherical and climatical 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 materials, 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 atmospherical 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 If so, the nature of these requests. 13. Where the records are kept of the machines. 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 Canadian Government or individuals or organizations to develop and assist the Flying Corps in Canada, and whether the Government has extended any assistance to the se 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 Presented May 16, 1918.—Mr. Armstrong (Lambton)..... Not printed. been made.
- 149. Second Report of the War Purchasing Commission, covering period from 1st January, 1917, to 31st March, 1918. Presntd by Sir Robert Borden, May 16, 1918. Not printed.
- 150. Return to an Order of the Senate dated 9th May, 1918, for a return giving a statement of imports of petroleum of's and spirits (gallons, value and duty) during each of the following fiscal years ending 31st March: 1909-10-11-12-13-14-15-16-17, and for each month of the unexpired year ending 31st March, 1918.—(The Senate)....Not printed.
- 151. Report of the Administrative Chairman of the Honourary Advisory Council for Scientific and Industrial Research 1917-18. Presented by Sir George Foster, May 17, 1918, Not printed.

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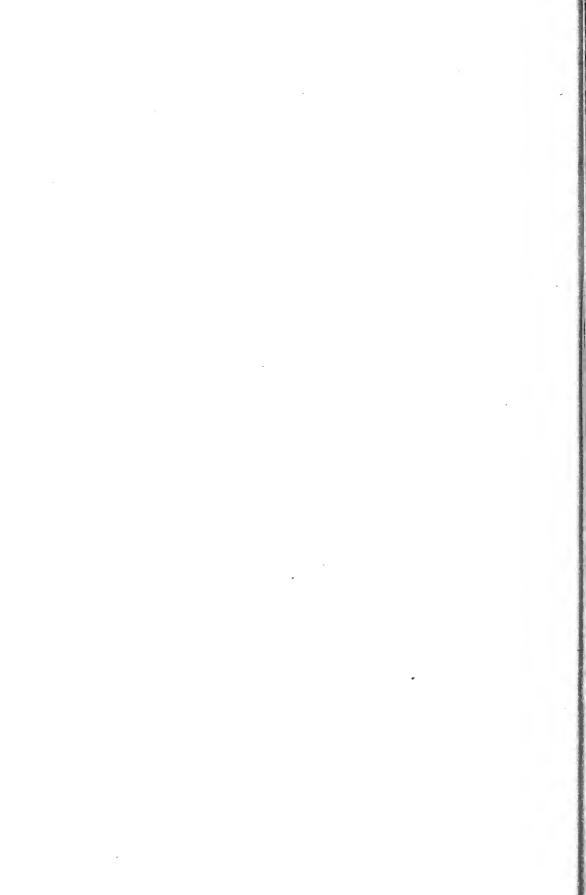
- 154. Return to an Order of the House of the 22nd April, 1918, for a return showing:—What amounts have been paid by the Government for printing or advertising to the Globe. Toronto, and the Devoir, Montreal, during each of the fiscal years ending 31st March, 1915, 1916, 1917 and 1918. Presented May 20, 1918.—Mr. McMaster.....Not printed.
- 156. Return to an Order of the House of the 25th March, 1918, for a copy of all memoranda and petitions by Slav subjects of Austria, naturalized in Canada, setting forth grievances and suggesting remedies. Presented May 20, 1918.—Sir Wilfrid Laurier.

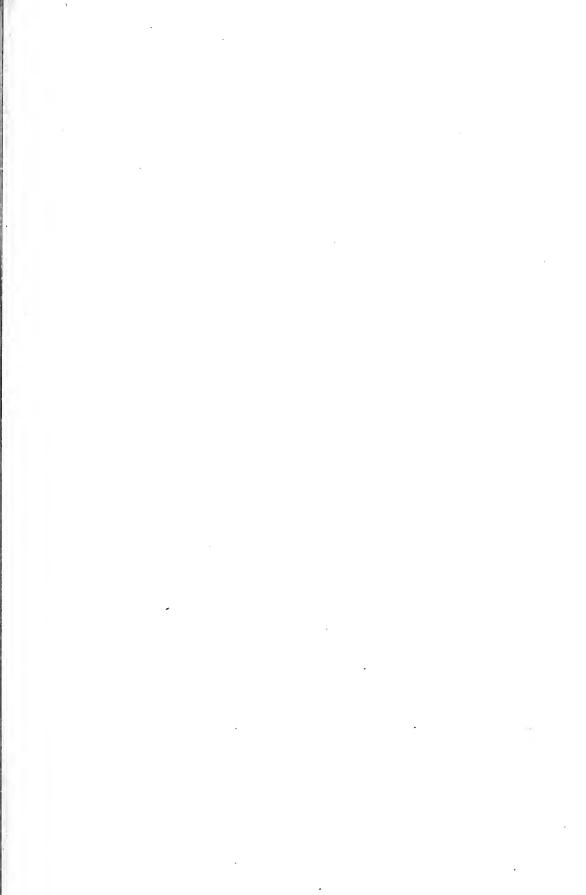
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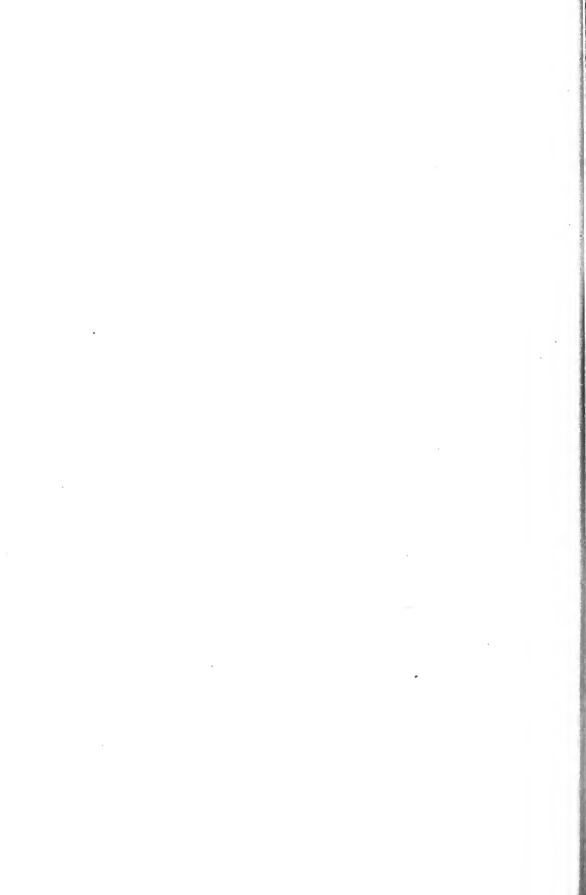
157. Return to an Order of the Senate, dated 12th April, 1918, for a return giving:—1. The name, rank, and qualifications of each of the persons, upon whose advice and recommendation, lobster hatcheries, heretofore operated in Canada by the Department of Naval Affairs, are to remain closed. 2. Copies 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.







CANADA

REPORT

OF THE

MINISTER OF PUBLIC WORKS

ON THE

WORKS UNDER HIS CONTROL

FOR THE

FISCAL YEAR ENDED MARCH 31

1917

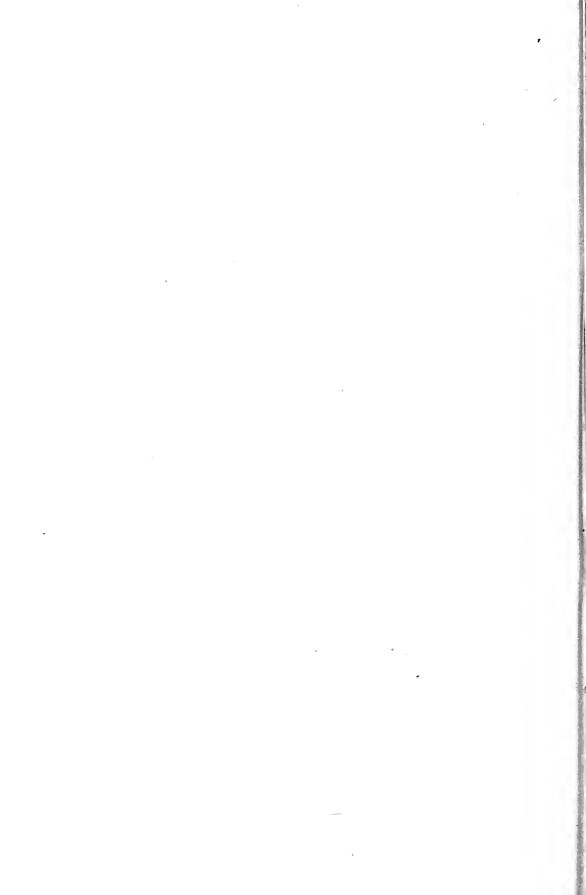
Submitted in accordance with the Provisions of Chapter 39, Section 34, of the Revised Statutes of Canada.

PRINTED BY ORDER OF PARLIAMENT.



OTTAWA J. DE DABROQUERIE TACHÉ PRINTER TO THE KING'S MOST EXCELLENT MAJESTY 1918

[No. 19—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.

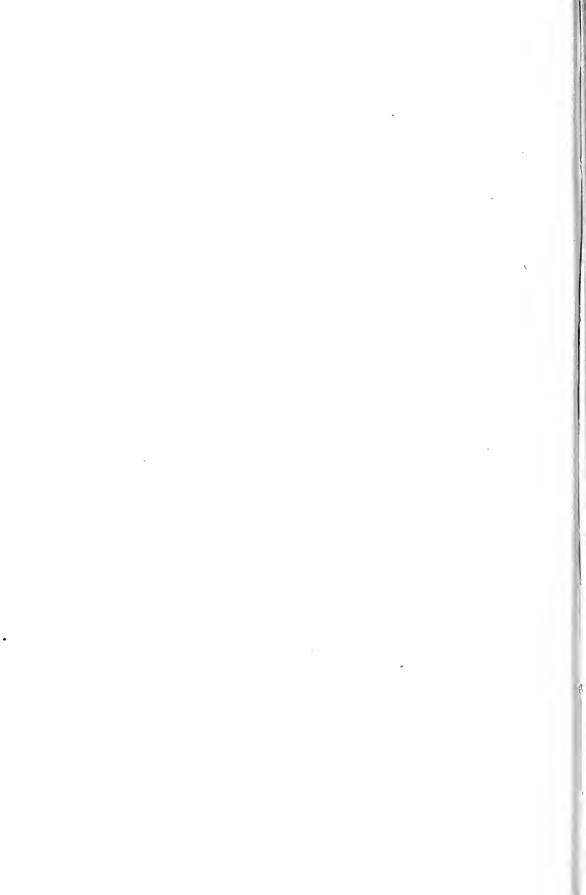
I have the honour to lay before Your Excellency the Report of the Department of Public Works of Canada, for the fiscal year ended March 31, 1917.

I have the honour to be, sir,
Your Excellency's most obedient servant,

F. B. CARVELL,

Minister of Public Works.

Ottawa, December 3, 1917.



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DEPUTY MINISTER.

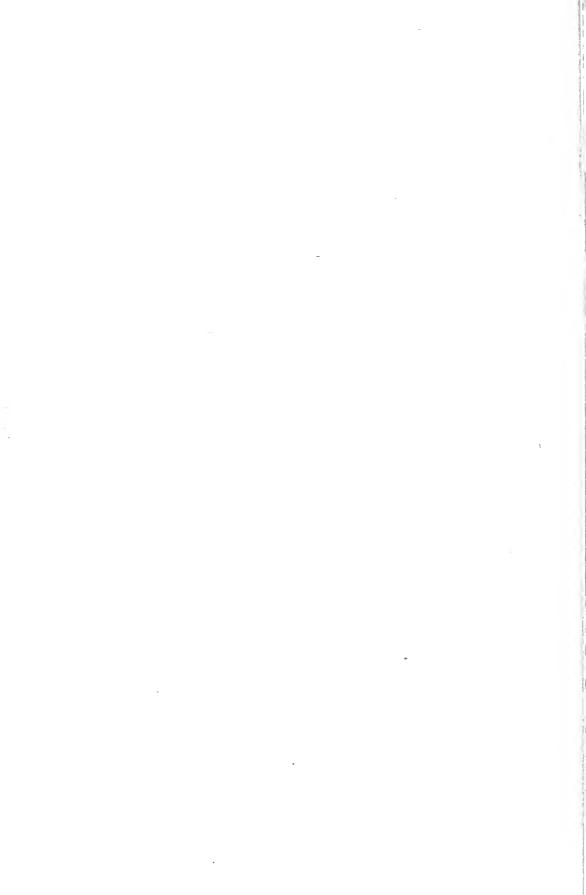
CHIEF ARCHITECT.

CHIEF ENGINEER.

GENERAL SUPERINTENDENT OF TELEGRAPHS.

COLLECTOR OF REVENUE.

LAW CLERK.



A. 1918

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Short Beach, N.S	130 141	Tabusintac, N.B	133 130
Sidney, B.C., experimental farm	125	Telephones	88 138
" " wharf	141 141	Telegraph and Nigger Islands, Ont Telegraph lines, generallyxxiv	- 82-144
Silver Centre, Ont. Simcoe, Ont., public building	138 119	Terence Bay, N.S	87 130
Skeena River, B.C	141	Terrebonne, P.Q., public building	113
Skinners Cove, N.S. Slides and booms	130 $ -98-142$	Terrebonne, P. Q., wharf	137 142
Smiths Falls, Ont., public building Smiths Landing, B.C	119 61–141	Thetford Mines, P.Q., public building The Wharves, N.S	113 130
Snake Island, Man	139	Thomas Creek, N.B	133
Sorel, P.Q., public buildings	113	Thornbury, Out	138 130
Sorrento, B.C	141	Three Rivers P.O., public buildings	1-113 31-137
" public building	109	Tignish, P.E.I., public building	109
Souris, Man., post office	$\begin{array}{ c c c c }\hline & 121 \\ & 130 \\ \hline \end{array}$	Tignish, P.E.I Tilbury, Ont., post office	131 119
South Gut, N.S	130	Tillsonburg, Ont., post office	119 123
Southampton, OntSouth Side, N.S	138 130	Tisdale, Sask., immigration building Tobermory, Ont	138
South Wallace, N.S	130 108	Tofino, B.C	141 48-139
Spry Bay, N.S	130	public buildings	119
Squamish, B.C., wharf Squateck, P.Q	61 -141	Tracadie, N.B., lazaretto Transcona, Man., post office	109 121
Stag Bay, B.CStanhope, P.Q., immigration office	141	Trent and Newcastle slides	99-142 120
Stanley Island, Ont Stapleby, B.C.		Trois Pistoles, P.O., post office	114
Stapleby, B.C	62-141	Trois Rivières, P.Q	31 130
Steveston, Jetty, B.C. Stewart, B.C	55-140	Truro, N.S., public buildings	$\frac{108}{141}$
Stewiacke N.S. post office	108	Turners island, N.S	130
Stikine River, B.C. Stonehaven, N.B.	141	Tyrian S.S. cable ship	95

Names of Places, etc.	Page	Names of Places, etc.	Page
t.		w	
Ucluet, B. C Union Bay, B.C " " post office. Unity, Sask., immigration building. Upper Jemseg, N.B " Ottawa storage dams. " Washabuck, N. S " Woods Harbour; N. S Uxbridge, Ont., post office V Vails Point, Ont Valleyfield, P.Q., public building	141 141 125 123 133 145 130 120	West Pubnico, N.S. Western Head, N.S. Westham, B.C. Westville, N.S., public building. Wetaskiwin, Alta., public building. Weyburn, Sask., post office. Weymouth, N.S., post office. Whaletown, B.C. Wheatly, Ont. White Point, N.S. Whitby, Ont., public building. Whitewaters, N.S. White Rock, B.C. Whycocomagh, N.S.	130 130 66-140 108 124 123 108 141 139 130 120 130 141 131
Van Anda, B.C., public buildings. Van Couver, B.C., public buildings. Vancouver island telegraphs. Vargas Island, B.C. Vaudreuil, P.Q. Verchères, P.Q. Verdun, P.Q. Verdun, P.Q. Vermlion, Alta, immigration building. Vernon, B.C., public buildings. "Harbour, B.C. Victoriaville, P.Q., post office. Viking, Alta, immigration building. Viking, Alta, immigration building. Ville Marie, P.Q.	141 3-125 62-141 94 141 187 32-137 32-137 114 124 124 126 64-141 114 124 137 121	Wigtoon, Ont., post office. " wharf Wilkie, Sask., public building. Williams Head, B. J., quarant. station. 3-66 Wilson's Beach, N. B. Windsor, Ont., public buildings. " N.S., public buildings. Windsor, N.S., harbour Wingham, Ont., public building. Winnipeg, Man., public buildings. " harbour. Winnipegosis, Man Winter Harbour. B. C. Woburn, P. Q. Wolfsons Bay, B. C. Wolfville, N.S., public building.	120 139 123
W Wadena, Sask., buildings Wainwright, Sask., inmigration building. Walkerton, Ont., public building	123 124 120	Woodmans Beach, P.Q. Woodstock, N.B., public building "Ont., Wyatt Bay, B.C"	137 109 120 141
Walkerville, Ont., public building. Wallaceburg, Ont., post office. Washabuck Centre, N.S. Waterloo, Ont., public building. Waubaushene, Ont. Wedgepoint, N.S. Welchpool, N.B. Welcome Harbour, B.C. Welland, Ont., public building. Wendover, Ont. West Arichat, N.S. West Chezzetcook, N.S. West Dublin, N.S.	120 120 130 120 50-139 130 133 66-141 120 139 7-130 130	Yamachiche, P.Q	137 78-137 8-131 108 141 123 143 131 127 142 94

REPORT

OF THE

DEPUTY MINISTER OF PUBLIC WORKS

FOR THE

FISCAL YEAR ENDED MARCH 31, 1917

DEPARTMENT OF PUBLIC WORKS, CANADA,
OTTAWA, November 15, 1917.

Honourable F. B. CARVELL.

Minister of Public Works.

Ottawa, Ont.

SIR,—I have the honour to submit herewith the annual report of the Department of Public Works, for the fiscal year ended March 31, 1917.

EXPENDITURE.

The total-expenditure made by or through the department during the fiscal year 1916-17, on its various works of construction, maintenance and operation, amounted to the sum of \$16,161,596.20, which may be classified under the following heads:—

Harbour and river works	86.548.568	18
Dredging, plant, etc		
Slides and booms		
Roads and bridges		
Public buildings		
Telegraphs		
Miscellaneous	559,682	93
_		

\$16,161,596 20

The aggregate outlay is \$3,377,701.84 less than that of the preceding year 1915-16, and \$13,121,720.62 less than the expenditure two years ago. The department has consistently adhered to the policy of retrenchment laid down at the outbreak of the war, and has undertaken only necessary works of maintenance and repair outside of the completion of the contracts which were under way at that date. The same careful policy will be pursued during next year and every indication points to a further substantial reduction in the expenditure.

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The appropriations granted by Parliament to the department in the year war was declared amounted to \$47,154,196.60. The Parliamentary grant was reduced in 1915-16 to \$34,599,183.99; in 1916-17, to \$30,828,281.99, and in 1917-18, to \$20,822,663.75, or considerably less than one-half the sum voted only three years before.

REVENUE.

The revenue for the year amounted to the sum of \$493,260.01, and is made up as follows:—

Slides and booms	\$ 97.142 16
Graving docks	64,918 38
Rents	94,729 03
Telegraphs	191,453 35
Casual revenue	45,017 - 09
•	
	-\$493.260 01

It will be noted that there is a decrease of \$15,646.31 from last year's figures. The principal falling-off occurs in slides and booms and casual revenue; these two items showing a decrease of over \$31,000. The income from rents shows some increase, while that from telegraphs surpasses last year by over \$10,000. In the slides and booms returns, the principal loss took place in the Ottawa district, which is naturally the largest. The revenue this year from that district was only \$16,050.97, the smallest on record for over half a century. Owing to the scarcity of water in the spring of 1916, and the scarcity of labour, the drives on some of the larger rivers, from which the greater part of the revenue is derived, did not come out at all, or only a small portion came into the main Ottawa. Approximately 2,000,000 less logs were handled in the Ottawa district; the exact figures being 4,928,993 for 1915-16, as against 2,961,460 for 1916-17.

HARBOUR AND RIVER WORKS.

The total expenditure in this branch of the Department of Public Works was \$6,548,568.18, of which \$4,152,583.80 was charged to capital, and \$2,395,984.38 to income. This is one million dollars less than last year's expenditure, and over four million dollars less than the outlay under this head two years ago.

Following is the list of works which have been completed during the year:—

Nova Scotia.—Breakwater at Meat Cove.

New Brunswick.—Wharves at Bayswater and Kennebecasis Island.

Quebec.—Landing crib at Hospital Bay, and wharves at He Perrot South and Ste. Anne des Monts.

Ontario.—Reconstruction of wharf at Bruce Mines; revetment wall at Burlington; regulating dam at Big Chaudière on the French river, and a breakwater at Goderich.

British Columbia.—Wharves at Little River and Powell River, and small landing floats at Bishops Bay, Brighton Beach, Cracroft, Hope Point, Jedidiah Island, Kitimat, Lloyd Point, Smiths Landing (Cortez island), Stapleby, Surge Narrows and Welcome Harbour.

The following works were under contract but unfinished at the end of the fiscal year:—

Nova Scotia.—River improvements and lock at East River.

Quebec.—Enlargement of wharf at Rimouski; dry dock at Lauzon; River St. Charles improvements and protection wall at Laprairie.

Ontario.—Harbour improvements at Kingston; quay wall at Fort William; extension to breakwater at Port Stanley and harbour improvements at Toronto.

British Columbia.—Wharves at Victoria, and second section of Steveston Jetty at the mouth of the Fraser river.

DREDGING.

The expenditure under this head amounted to \$2,410,413.24, a decrease of \$1,465,300.07 from that of the preceding year.

The operation and maintenance of the departmental dredging plant cost \$1,179,366.68, which is considerably less than last year, owing to sixteen units not being placed in commission. No new dredging plant has been constructed, nor acquired, and repairs to the existing plant have been kept down to the comparatively low figure of \$125,312.42; care being taken, however, to see that the condition of the plant is properly maintained.

The outlay on contract dredging totalled the sum of \$1,105,734,14; operations being confined practically to the larger harbours.

The False Creek channel and basin at Vancouver, B.C., have been completed. This work was commenced in 1913, and consisted of a channel 13,500 feet in length, 350 feet in width, and 20 feet deep at low water from English Bay to Main Street bridge. The total quantity of material removed was 4,310,196 cubic yards.

At Fort William, Ont., the dredging of the terminal basin, at the mouth of the Mission river, was completed this year. This improvement was commenced in the year 1909, and the final estimate shows the removal of 7,136,670 cubic yards. This dredging is of importance, affording access to the Grand Trunk Pacific terminal elevator and sheds. Dredging in the Kaministiquia river has also been in progress.

At Port Arthur, Out., the dredging under contract consisted of the widening of the harbour, dredging in King's channel, in the Government elevator slip and in the entrance channel and slip of the Saskatchewan Co-operative and Grain Growers' elevators.

At Port Maitland, Ont., contract dredging was performed in connection with the harbour development under way at the mouth of the Grand river. Some 628,703 cubic yards were removed in constructing a channel entrance from lake Erie to the car ferry terminus.

Contract dredging was also carried on in the St. Croix river, under a joint arrangement with the United States Government: in Bathurst, N.B., harbour, where an important pulp and paper industry has been developed, and in St. John, N.B., harbour, where considerable work was done in dredging the basin inside the breakwater in Courtenay bay.

During recent years this department has been keeping in very close touch with both the Marine Department and the Department of the Naval Service, in reporting finished dredging projects so that the necessary information may be conveyed to mariners and others interested in navigation, by means of notices to mariners and charts published by those departments. After each dredging project is completed, a special report, with plan, is prepared and forwarded for the above purposes. During the year, seventy-four of these special reports were made.

Dredging operations were also carried on at the following places, where an expenditure of \$10,000 or over was made:—

Nova Scotia.-Digby, Liverpool, Lunenburg, Picton, and Yarmouth.

Prince Edward Island.—Charlottetown.

New Brunswick.—Bathurst, Buctouche, St. Croix river and St. John harbour.

Quebec.—Longueuil, River Lièvre, St. Alphonse de Bagotville, Ste. Anne de Bellevne, Saguenay river, and Verdun.

Ontario.—Fort William, Hamilton, Hawkesbury, Penetanguishene, Port Arthur, Port Burwell, Port Maitland, River Thames, and Telegraph and Nigger islands.

Manitoba.—Red river and Selkirk.

British Columbia.—Columbia river, Fraser river (South fork at North arm and Sandheads), Nanaimo, New Westminster, Skeena river, Squamish, Vaneouver (False creek and First narrows), and Victoria.

PUBLIC BUILDINGS.

The sum expended in the construction, maintenance and repair of public buildings throughout the Dominion was \$5,717,450.28, a decrease of over one million dollars from last year. Of this amount, \$3,098,711.87 was expended in the construction and improvement of public buildings, and \$2,618,738.41 in repairs and maintenance.

The following buildings were completed during the year:-

Quebec.—Joliette public building, additions and alterations; Lennoxville Experimental Farm, cattle barn; Montreal Postal Station "A," extension; Shawville, public building.

Ontario.—Ottawa Experimental Farm, flax building and brooder house; Ottawa Customs building, Sussex street; Ottawa Mines building, addition.

Saskatchewau.—Sutherland Forest Nursery Station, boarding house.

British Columbia.—Saanich, observatory and residences for observer and engineer.

The following buildings were still under contract:-

Quebec.—Three Rivers, public building.

Ontario.—Kingston, riding school: Ottawa, Parliament buildings.

Alberta.—Calgary, drill hall.

RECONSTRUCTION OF PARLIAMENT BUILDINGS, OTTAWA.

Of the above, the most important work the department has had in hand is the reconstruction of the Parliament buildings, which were practically destroyed by fire on Thursday, February 3, 1916.

The work of salvaging, scaffolding, shoring and clearing away debris was immediately commenced and continued during the months of March, April, and May, under the direction and supervision of the Dominion consulting architect.

On the 26th of May, Mr. John A. Pearson and Mr. J. O. Marchand, who had been appointed the architects of the new building by the Joint Parliamentary Committee, took charge of the works. On this date the work of demolition and removing all condemned and dangerous walls was well under way and completed by September 1.

Excavation immediately followed the tearing down, and on July 24 the concrete foundations were commenced. These foundations on the northeast portion of the building were completed up to the grade level by September 1, and on that date His Royal Highness the Duke of Commandation relaid the corner stone.

CEREMONY OF RELAYING CORNER STONE.

The joint committee decided to take advantage of the very unique coincidence that the then Governor General, the Duke of Connaught, happened to be a brother of His Late Majesty, King Edward Seventh, who laid the corner stone of the original building, when Prince of Wales, on September 1, 1860; and it was decided to arrange a ceremony to consist of the relaying of the original corner stone in a new location, as the corner stone of the new building. His Royal Highness graciously consented to officiate at such a ceremony. Preparations were made in keeping with the importance of the occasion. A pavilion for the Royal party and those having the private entrée, suitably decorated and furnished, was erected in front of the new location of the corner stone, and a covered stand for the invited guests was erected at the right of the Royal pavilion. A third stand seated with chairs was also provided to which admission was had by card. The three stands were arranged around a platform, triangular in shape, through which ran a track from the site of the old corner stone to the new location. A tripod derrick with hoisting apparatus was erected at each end of the track, and the operation of relaying the corner stone consisted in raising it by derrick from its former bed and placing it on the truck, or bogey, upon which it was transported along the track to the new location, where it was raised by the other derrick and, after the mortar had been spread, lowered gradually into place.

The old stone was engraved:

"This corner stone of the building intended to receive the Legislature of Canada was laid by Albert Edward, Prince of Wales, on the first day of September, 1860."

Underneath the old lettering have been chiselled these words:-

"Relaid by his brother, the Duke of Connaught, on the first day of September, 1916."

Addresses were delivered by the Right Honourable Sir Robert Borden, G.C.M.G., Prime Minister. Honourable Robert Rogers, P.C., Minister of Public Works, and by His Royal Highness the Governor General, after he had laid the some.

Everything passed off with exceptional smoothness. All the mechanical arrangements worked perfectly, and there was an immense gathering of highly interested spectators. The weather was not good, it having rained the night before and in the morning, but, fortunately, the rain held off during the ceremony.

During the following months the works proceeded apace, and on December 11, when the masonry work was closed down for the winter, the walls of the Senate wing were built up to a height of two storys and all the remaining walls to approximately a height of four feet above grade.

The erection of the structural steel continued during the winter months.

On April 2, 1917, work on the buildings was recommenced, since when it has proceeded without interruption, until at the time of writing the greater part of the building is under roof.

The following contracts have been awarded:-

The general contract for the reconstruction of this building with P. Lyall & Sons Construction Company, Limited, was signed on September 29, 1916. The basis of this contract is eight (8%) per cent on the cost of the work up to \$4,000,000, and seven (7%) per cent on the cost in excess of that amount up to but not to exceed \$5,000,000.

On March 30, 1916, a contract was entered into with the Dominion Bridge Company, Limited, of Lachine, P.Q., for the supplying of 1.893,600 pounds of structural steel, f.o.b. site, at \$3.04 per hundred pounds.

On January 29, 1917, a further contract was executed with the Dominion Bridge Company, Limited, for the supplying, fabricating and erecting of approximately 1.800 tons of structural steel at \$5.30 per hundred pounds (\$106 per ton).

In connection with the structural steel work, Alexander Fleck, Limited, was given an order for 100 cast-iron column bases, or 150,256 pounds, at \$2.50 per hundred pounds, as a result of tenders opened September 28, 1916.

Robert W. Hunt & Company, Limited, were authorized to make mill and shop inspection of the material of the Dominion Bridge Company's contracts at fifty-five (55c.) cents per ton, on April 10, 1916.

P. Lyall & Sons Construction Company, Limited, as general contractors for this work, have, with the approval of the Joint Parliamentary Committee, entered into the following contracts:—

On July 18, 1916, with G. P. Sherwood & Company, Montreal, Que., for 150,000 cubic feet (more or less) of Buff Ohio stone, at \$1.21 per cubic foot, f.o.b. cars, Ottawa.

On August 5, 1916, with George Farmer for the carting of Wallace stone from the Grand Trunk terminals to the stone shop at Sussex street, at forty-five (45c.) cents per ton.

On August 5, 1916, with George Farmer for the carting of Ohio stone from the Canadian Pacific terminals to the stone shop on Sussex street at thirty (30c.) cents per ton.

On August 11, 1916, with the Wallace sandstone quarries for 31,550 cubic feet of Wallace sandstone at seventy-five (75c.) cents per cubic foot, f.o.b. cars, Ottawa.

On August 11, 1916, with the Burlington Steel Company, Hamilton, Ont., for 147.5 tons (more or less) of reinforcing steel to be delivered at the site at the following rates for 100 pounds: 5%-inch round, \$3.48; ½-inch square twisted, \$3.08; ¾-inch and ¾-inch square twisted, \$2.93.

On September 6, 1916, with Alfred Rogers, Limited, Toronto, Ont., for 5,000 barrels (more or less) of Portland cement at \$1.85 per barrel of 350 pounds, f.o.b. cars, Ottawa.

On September 6, 1916, with the National Brick Company of Laprairie, Limited, for 5,000,000 (more or less) common brick at \$10.50 per thousand, delivered at site.

On September 6, 1916, with the Canada Cement Company, Montreal, for 5,000 barrels of Portland cement at \$1.85 per barrel of 350 pounds, f.o.b. cars, Ottawa.

On September 14, 1916, with George Farmer, for the cartage of Portland cement from the Grand Trunk and Canadian Pacific terminals to the site, at six and one-half (63c.) cents per barrel.

On September 6, 1916, with Howard Rock, for 3,550 tons of §-inch clean crushed stone, delivered on the site, at \$1.60 per ton. This contract was abandoned.

On September 6, 1916, with Howard Rock for 1,000 tons of Nepean sandstone (more or less), delivered on the site, at \$3.70 per ton.

On September 6, 1916, with Foran & Thibault, for 4,000 tons (more or less) of Nepean sandstone, delivered on the site, at \$3.70 per ton.

On March 12, 1917, with Campbell, McKee & Williams, of Bells Corners, for 1,000 tons (more or less) of Nepean sandstone, delivered on the site, at \$3.70 per ton.

On March 7, 1917, with the Nepean Sandstone Quarries, Limited, for 1,000 tons (more or less) of Nepean sandstone, delivered on the site, at \$3.70 per ton.

The procedure in calling for tenders and the awarding of contracts is as tollows:—

When the progress of the building requires certain work or materials to a value of or exceeding \$5,000, the joint committee is notified to that effect. The committee approving, tenders are publicly called for through the newspapers, such advertisements appearing simultaneously on certain dates for a stated period. The advertisement is drawn up in such a manner as to give a uniform basis for tendering and comparison of prices, and is submitted to the Department of Public Works for approval before being issued.

The resulting tenders are received by the architects and opened by the board, signed and adjudged by them and referred to the joint committee, together with the recommendation of the board.

With the authorization of the committee, a contract is drawn up by the general contractors, to the approval of the architects and the department, and entered into with the successful tenderer, the latter having previously deposited a security of 10 per cent of the amount involved, 5 per cent with his quotation and 5 per cent on its, acceptance.

TELEGRAPHS.

During the fiscal year under review, there have been added 224½ miles of new lines to the Government telegraphs, made up principally of:—

- 73 miles in Nova Scotia,
- 171 miles in New Brunswick,
- 153 miles in British Columbia, and
- 30 miles in the Yukon.

There is now a total mileage of 12,016³. The number of offices has increased to 1,058, and the messages sent numbered 411,934, as against 371,833 in the preceding fiscal year.

The number of telephone, telegraph and conjoint offices on the system are:-

Telephone		
Telegraph		
Conjoint	 	
723 . 1		4 6

NATIONAL GALLERY.

It will be remembered that the National Gallery was indirectly one of the chief sufferers from the fire which destroyed Canada's Parliament buildings, inasmuch as it was deprived of its quarters in the Victoria Memorial Museum, when that building was taken over to serve as the Houses of Parliament.

Being without a gallery, the directors have been concentrating their efforts on the development of the policy of loan exhibitions, which had just been instituted and had met with a gratifying measure of success. A sciention of pictures and objects of art is made and loaned to any art society or body capable of publicly exhibiting them, and in this way it is hoped to keep the Canadian public in touch with the work Canadian artists are doing, and thereby increase its interest and appreciation of art in general.

Exhibition of works of art were made during the fiscal year 1916-17, at Halifax, N.S., Montreal. Que., Ottawa, Ont., Toronto, Ont., Winnipeg, Man., Moosejaw, Sask., Regina, Sask., Saskatoon, Sask., and Edmonton, Alta. All these exhibitions proved an unqualified success, and without doubt will result in stimulating public interest to the point of establishing art classes in many places throughout the country.

TRIBUTE TO MEN OVERSEAS.

In conveying my thanks to the departmental staff for the efficient manner in which they have performed their duties during the year. I desire to pay a special tribute to those members who so nobly responded to the call of duty and are now

REPORT OF THE DEPUTY MINISTER

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overseas, championing the cause of world liberty; 251 in all enlisted, 33 from the inside service and 218 from the outside service. Every branch has its representatives:—

7 17	~ ·	
Inside	Service	

Branch.	Number.
Minister	
Deputy Minister	5
Secretary	4
Accountant	4
Chief Engineer	4
Assistant Chief Engineer	$\overline{2}$
Chief Architect	11
Telegraphs	2
Total	33

Outside Service.

Chief Engineer	. 103
Assistant Chief Engineer	. 48
Chief Architect	. 43
Telegraphs Branch	. 24
•	
Total	218

Honours granted to Public Works men overseas, so far as the department is informed, are: One C.M.G., four D.S.O., one Croix de Guerre, five Military Cross (one with bar).

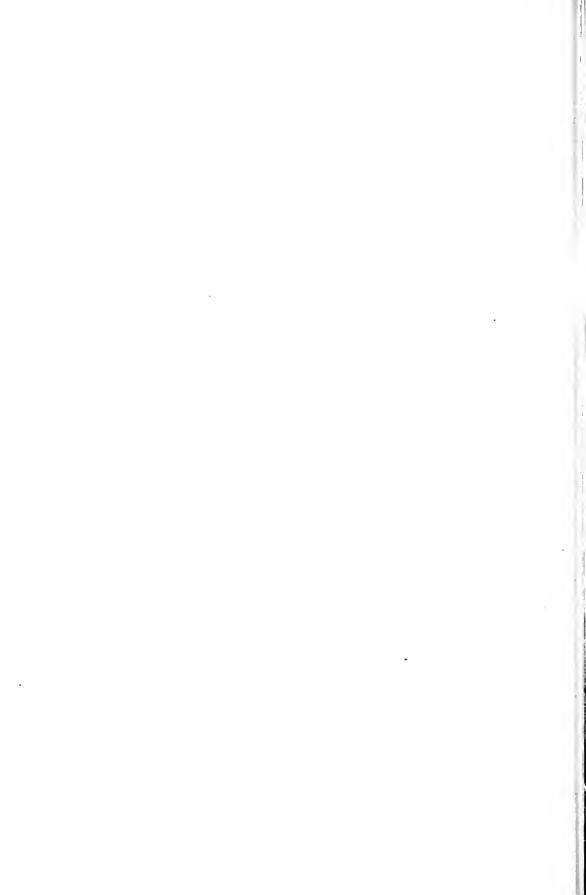
Many of these gallant fellows have been wounded, two are prisoners of war, and not less than eighteen have laid down their most precious possession, life itself, in the glorious struggle. The names of these splendid patriots will stand forever not only in the records of the department, but in the honour roll of the Empire which they served so well

I have the honour to be, sir,

Your obedient servant,

J. B. HUNTER,

Deputy Minister.



PUBLIC BUILDINGS

By E. L. HORWOOD, CHIEF ARCHITECT.

NOVA SCOTIA.

Repairs and improvements were executed at the following places: Amherst, Annapolis, Antigonish, Arichat, Baddeck, Bear River, Bridgewater, Canso, Dartmouth, Digby, Glace Bay, Guysboro, Halifax, Inverness, Kentville, Lawlor's island (quarantine), Liverpool, Lunenburg, New Glasgow, North Sydney, Parrsboro, Pictou, Springhill, Sydney, Sydney Mines, Truro, Westville, Windsor, Wolfville, Yarmouth.

PRINCE EDWARD ISLAND.

Charlottetown, Georgetown, Montague, Souris, Summerside, Tignish.

NEW BRUNSWICK.

Bathurst, Campbellton, Chatham, Dalhousie, Fairville, Fredericton, Grand Falls, Hampton, Hartland, Hillsborough, Marysville, Milltown, Moncton, Newcastle, Richibucto, St. John (custom house, new post office, old post office, savings bank, quarantine station), St. John West (post office and immigration building), St. Stephen, Sussex, Tracadie, Woodstock.

QUEBEC.

Grosse Isle (quarantine buildings): Annex to disinfecting building, commenced 1914, was completed during fiscal year 1916-17. Repairs and improvements were made to various other buildings on the island.

Joliette: The addition to this building, described in the annual report of 1915, has been completed.

Lennoxville (Experimental station): Λ contract was entered into September 14, 1916, for the erection of a dairy cattle barn, 97 feet 6 inches by 38 feet 6 inches.

Montreal: A contract was entered into January 11, 1917, for the erection of a shed and covered passageway in rear of postal station "A," and repairs and improvements were made to the main building; also to new customs and examining warehouse, old examining warehouse, old custom house, inland revenue building, immigration detention hospital, central post office, postal stations B, C, D, F, H, L, S, O.

Three Rivers (public building): The original contractors having failed to complete their work, a new contract was awarded on February 22, 1917, to Joseph Bourque.

Repairs and improvements were executed at the following places: Actonvale, Arthabaska, Berthierville, Buckingham, Coaticook, Cookshire, Drummondville, East Angus, Fraserville, Granby, Hochelaga, Hull, Iberville, Joliette, Janquières, Laprairie, L'Assomption, Lake Mégantic, Longueuil, Matane, Montmagny, Murray Bay, Nicolet, Pierreville, Quebec (examining warehouse, custom house, post office, St. Roch post office immigration hospital, St. Sauveur post office, immigration building, Louise embankment), Richmond, Roberval, Shawville, Ste. Agathe des Monts, St. Gabriel de

Brandon, St. Henri, St. Hyacinthe, St. Lambert, St. Jérôme, St. Johns, Ste. Thérèse, Sherbrooke, Sorel, Valleyfield, Victoriaville.

Shawville: This building, described in the report for 1915, has been completed and occupied.

ONTARIO.

Kingston: A contract was entered into July 24, 1916, for the erection of a riding school at the Royal Military College, the building to be 197 feet by 66 feet, constructed of brick with cut-stone trimmings on concrete foundations to finished grade, and from grade to base these foundations are faced externally with coursed rock-faced stone, and the outside walls above base are faced externally with red brick and internally with pressed brick.

Repairs and improvements were executed at: Custom house, inland revenue building, and post-office.

Ottawa: The new customs house was taken possession of by the Department of Customs on May 1, 1916, and minor works to complete the building were executed, and furnishings were supplied.

Experimental Farm: The new brooder house was erected within the poultry grounds, measuring 57 feet by 16 feet, and one story high; the construction being balloon frame, set on concrete walls with the outside walls, clapboard, and inner walls and ceiling "V" sheeting.

The contract was entered into on October 19, 1916, for the erection of a flax building, measuring 79 feet 8 inches by 28 feet 9 inches, of balloon construction, set on concrete walls, and one story and a half high.

Repairs and improvements were also executed to various other buildings at the farm.

Mines Branch: An addition to the Mines Branch. Sussex street, was commenced in August. The building is 18 feet by 43 feet, on a cement foundation. The main walls are picked-faced limestone, with limestone lentils, jambs, and sills. The stonework is backed with brick, furred metal laths, and plaster. The floors are concrete, and the roof is steel and concrete.

Royal Mint: Work on an addition to the refinery was completed August 10, 1916. The building is 33 feet by 108 feet, with cement foundation on rock, and the main walls are of buff sillicate brick and lined with white brick. The floors are concrete and the roof steel and concrete.

A new transformer room was built on a cement foundation, the main walls being of Stanstead granite and Nepean sandstone to match the other buildings.

Ottawa Buildings Generally: Repairs and improvements were made at the following buildings: Government House, Victoria Museum, East Block, West Block, Library of Parliament, Langevin Block, City Post Office, Printing Bureau, Supreme Court building, Wellington Street properties. Fuel Testing Station (Mines Branch), Archives building.

Rented Buildings: Union Bank building, Robinson building, No. 136 Emmet street, No. 113 Rideau street, Bryson building, Booth building, Birks building, Canada Life building, Hope building, Merchants Bank building, building (corner Queen and Metcalfe), Egan block, Harris & Campbell building, Imperial building, La Banque Nationale, No. 98 Wellington street, No. 140 Argyle avenue, O. O. A. C. building, Plaza building, Central Station, Journal building, McNeil building, Masonic Temple, Trafalgar building, Rea building, Woods building, Major building, Canadian building, Stephen building, No. 66 Queen street.

Repairs and improvements were executed at the following places: Acton, Alexandria, Amherstburg, Arnprior, Athens, Aylmer, Barrie, Belleville, Bowmanville, Brampton, Brantford, Brockville, Burford, Cayuga, Chatham, Clinton, Collingwood,

Cornwall, Cardinal, Deseronto, Dundas, Elmira, Elora, Essex, Fort William, Fergus, Gananoque, Glencoe, Goderich, Grimsby, Guelph, Hamilton, Hanover, Hawkesbury, Kemptville, Kenora, Kincardine, Kitchener, Lakefield, Leamington, Lindsay, London, Markham, Mildmay, Milton, Mitchell, Mount Forest, Napanee, North Bay, Oshawa, Palmerston, Paris, Peterborough, Picton, Port Arthur, Port Colborne, Port Hope, Port Perry, Preston, Renfrew, Sault Ste. Marie, St. Catharines, Sarnia, Scaforth, Shelburne, Smiths Falls, Simcoe, Steelton, Stratford, Strathroy, Sudbury, Tilbury, Tillsonburg, Trenton, Toronto (customs-house, examining warehouse, general post office, postal garage, expropriated buildings adjoining general post office, inland revenue and Receiver General's offices, postal stations "A," "C," "D," "E," "F," "G," "K," express buildings, Front street east (rented), Uxbridge, Walkerton, Walkerville, Waterloo, Windsor, Wingham, Woodstock.

MANITOBA.

Repairs and improvements were executed at the following places: Brandon, experimental farm, Kirchoffer block (rented), Carman, Dauphin, Emerson, Morden, Selkirk, St. Boniface, Souris, Stonewall, Virden, Winnipeg, (post office, customhouse, examining warehouse, immigration halls, postal station "B.")

SASKATCHEWAN.

Sutherland Forest nursery station: On June 24, 1916, a contract was entered into for the construction of a new boarding house, the building being lumber framed, two storys high, and measuring 32 feet by 28 feet with full concrete basement and a lean-to of one story at the rear, 20 feet by 12 feet.

Repairs and improvements were executed at the following places: Battleford, Estevan, Gravelbourg, Humboldt, Melfort, Moose Jaw, North Battleford, Prince Albert, Regina, Saskatoon, Weyburn, Yorkton.

ALBERTA.

Calgary drill hall: A contract was entered into on September 29, 1916, for the erection of this building, the size over all being 275 feet by 170 feet, and consists of two storys and basement, with corner pavilion and centre pavilion three storys high, and constructed of brick, faced externally with red pressed brick with cut sandstone trimmings. The basement walls are faced externally with stone from ground to plinth.

Repairs and improvements were executed at the following places: Bassano, Edmonton, Edson, Entwistle, Lethbridge, Stratheona, Wetaskiwin.

BRITISH COLUMBIA.

Saanich (Little) Mountain observatory: The contracts for the observatory building and for the dome, have been completed, and the telescope and the apparatus for its operation have been installed. Residences for the observer and engineer were completed during the year, as well as a garage and a pump-house building.

Repairs and improvements were executed at the following places: Atlin, Cumberland, Cranbrook, Darch Island Leper Station, Duncan, Kamloops, Nanaimo, Nelson, New Westminster, North Vancouver, Prince Rupert, Rossland, Trail, Union Bay, Vancouver (public building, old post office building, new examining warehouse, postal station "C," immigration detention building), Vernon, Victoria (public building, old post office building, immigration detention hospital, old custom house building, observatory building). William Head quarantine station.

HARBOUR WORKS

By E. D. LAFLEUR, CHIEF ENGINEER.

NOVA SCOTIA.

BARACHOIS.

Barachois, Victoria county, is a small settlement at the mouth of the Barachois river on the northern side of St. Ann's bay, about 3 miles to the eastward of the entrance into St. Ann's harbour.

During the year ended March, 1917, 140 feet of the training pier were reconstructed, built in the same manner as it was originally but the piles were driven, deeper than before, and the channel face was protected with close-sheathing driven 8 feet into the bottom, and by a stone talus.

BLACK ROCK.

Black Rock, Colchester county, is a small settlement situated at the mouth of the Shubenacadie river, 10 miles from Truro.

During the fiscal year 1916-17, a native-timber crib was constructed, 42 feet long by 8 feet wide and 6 feet high, and ballasting this along the shore adjoining the shore end of the approach, and back of this crib earth and stone filling was placed to bring the road approach up to the required grade.

Work was done in the month of July, 1916.

CALDWELL'S COVE.

Caldwell's Cove, Digby county, is a small fishing and farming settlement on the shore of the Bay of Fundy. In 1916-17, a piece of crib-work was built 80 feet long, 10 feet wide and 8 feet high, projecting in a westerly direction from south or shoreward end of the breakwater.

DIGBY.

Dredging.

In 1916-17, the P.W.D. Dredge *No. 1* removed 54,150 cubic yards, seew measurement, towed 23 miles, from Digby harbour, as follows:—

In the main channel, 36,075 cubic yards, seew measurement; in the Racquet, 18,075 cubic yards, seew measurement; 54,150 cubic yards, seew measurement.

The work was performed between 20th June and 4th August, 1916, and to a depth in the channel of 18 feet at L.W.O.S.T.

The object of the dredging was the cleaning up of the channel for a length of 2,200 feet and a width of 200 feet from the end of the government pier due north toward Digby Gut, to give a depth at L.W.O.S.T. of 18 feet to accommodate the passage to and fro of the Canadian Pacific Railway Company's steamers plying between Digby and St. John.

The object of the dredging in the Racquet was to facilitate the arrival and departure of schooners and other craft at the fishing wharves, and is comprised within a length of 700 feet and a width of 120 feet, also one cut 800 feet long and 10 feet wide.

The dredged area in the channel will require re-dredging in about eight years. The area between the main pier and the spur requires re-dredging about every three years. The dredging in the Racquet requires re-dredging about every three years.

EAST RIVER, PICTOU.

The mouth of the East river is the most important of the three branches of Pictou harbour. It is navigable for small vessels to the head of tide water at New Glasgow, ten miles inward from the entrance to the harbour.

During the past season dredge No. 5 was employed from June 28 to October 30, and exeavated 360,000 cubic yards measured in situ, or 435,103 yards by the weekly dredging reports, of alluvial mud. clay, sand, and stones. The cutting in the second reach from station 134 to station 142 was completed on July 13, and involved the removal of 35,800 yards in situ. On July 17 the first reach of channel (the diversion) was begun, and 324,200 yards were dredged from station 80 to station 120 before operations were suspended for the season.

There are 311,400 cubic yards to be excavated to sub-grade from the first reach to the channel and to remove the sedimentation and to widen and deepen the second reach to sub-grade will require 369,600 yards extra, making a total of 681,000 yards yet remaining to be dredged.

Lock.

On the 14th June, 1916, a contract was signed by Messrs. Reger, Miller & Sons, Limited, for the necessary lock gates and operating machinery. The price tendered was \$124,876.15.

During the fiscal year 1916-17, work was done unwatering, common and rock excavation, channelling rock surface, concrete and timber approach piers, riprap and broken stone finishing on berm. For the lock gates contract, Messrs. Roger, Miller & Sons earned \$74,920.

EEL BROOK.

(The work done here is described in the departmental report for 1913.)

Eel Brook, Yarmouth county, is situated on the east side of the many islanded bay, forming the mouth or estuary of the Tusket river, twelve miles east of Yarmouth.

In 1916-17 two concrete walls, one on either side of the brook, were built. On the north side, a length of 163 feet was built, and on the south side, 125 feet. The wall has a uniform height of 4 to $4\frac{1}{2}$ feet and an average thickness of 2 feet. The channel between the walls, which was deepened and straightened by hand digging, is 10 feet wide. The concrete wall is backed with stone and the whole work is a great improvement and convenience.

LIVERPOOL.

Liverpool, Queens county, is a town of 2,300 or 2,400 people, situated at the mouth of the Mersey river.

During the past fiscal year, dredging operations by dredge No. 7 was conducted, and some 47,700 cubic yards, scow measurement, were removed. The work was commenced on June 30, and suspended November 1, 1916. From the bridge towards the mouth of the harbour, for a distance of 1,110 feet, the nature of the material to be removed consists of mud and sawdust; for a further distance of 1,034 the material

consists of mud and sawdust mixed with fine white hard sand, and the last 1,085 feet consists of practically fine hard white sand entirely. This dredging has been done to a depth of 15 feet at L.W.O.S.T.

The total length of the dredging performed was 2,570 feet, with a width of 100

feet.

For the first two months after the dredge had ceased work, this cut remained practically free and open, but what is commonly termed "The Bar" had again filled in, and it was very difficult to float shipping over it.

LUNENBURG.

Dredging.

Lunenburg, Lunenburg county, is situated on the Atlantic coast, 49 miles west of Halifax.

During the fiscal year 1916-17, dredge No. 6 and Lobnitz rockbreaker No. 3 worked from April 1 to November 25; dredge No. 6 removing 58,145 cubic yards, and Lobnitz rockbreaker No. 3 reporting having broken 18,763.03 cubic yards. Predging was done near the wharves over an area of 72,000 square feet, and the rockbreaker covered an area of 60,200 square feet. On Isnor's shoal, the dredge worked over an area of 60,000 square feet and the rockbreaker also covered this area. On Brick shoal, the dredge worked over an area of 74,000 square feet and the rockbreaker did work over an area of 7,500 square feet. The total area, therefore, covered by dredge No. 6 this season was 206,000 square feet, and by the Lobnitz rockbreaker No. 3, 127,700 square feet.

The total areas over which dredging has been performed at Lunenburg to date are as follows:—

In front of wharves	2.62 acres.
Isnor's shoal	
Brick shoal	5.71 ",
•	
	12.56 "

And 13,280 cubic yards removed in and around the docks not included in the above.

There is still a considerable quantity of material which has been broken by rock-breaker No. 3, and which will have to be removed as soon as a favourable opportunity presents itself and it is possible to secure a dredge to do the work.

MEAT COVE.

Meat cove, Victoria county, is a small cove on the northern coast of Cape Breton island. In order to afford the fishermen better facilities, during the year 1914-15, timber required for the construction of a small breakwater for the protection of the landing beach was purchased, and during the fiscal year 1916-17 the balance of the materials was procured and the work was completed. The breakwater is 100 feet long and 16 feet wide, and consists of a solid round-timber cribwork, fully ballasted and covered and protected by fenders.

MOSHER'S BAY.

Mosher's bay, Lunenburg county, is situated on the east side of the entrance to La Have river.

During the years 1914-15-16, the construction of a breakwater was commenced, and during the year 1916-17, construction was continued and the breakwater now has a total length of 310 feet and it is expected to complete it next year. The work done this season consisted of constructing 245 feet in length, 195 feet being 20 feet wide

with an average height of 15 feet, and 50 feet at the outer end being 25 feet wide with an average height of 22 feet. This 50-foot portion has been destroyed by storms during the winter, down to low water, and will have to be rebuilt next season.

Work was commenced June 12 and suspended November 30.

NORTHWEST COVE.

(The breakwater, which was constructed in the year 1873, will be found fully described in the annual report for the year 1913).

Northwest cove, Tancook island, Lunenburg county, is a large cove on the northern end of Big Tancook island.

It is the intention of the department to reconstruct this breakwater in solid native-timber cribwork; and during the year 1916-17, the shore-end portion was reconstructed; the work done has a length of 183 feet, a width of 26 feet and an average depth of 12 feet, and was performed by day labour. Repairs were made to the outer end of the old pilework breakwater, in order to make it safe until it can be reconstructed in cribwork; the top of the work was repaired where necessary and a number of new piles were placed; also fifteen new fenders and a number of braces between the piles to stiffen the work.

Work was commenced June 1 and suspended December 4.

OAKLANDS.

Oaklands is situated in La Have harbour, directly opposite the town of La Have, a distance of about a quarter of a mile by water and three miles by road.

During the fiscal year 1916-17, dredging of a channel down from the wharf towards the main channel of the river to make the wharf easier of access for larger boats. The length of the excavation was 175 feet, the width about 125 feet. The depth of water now varies from about 6 to 10 feet at L.W.O.S.T. and the average cutting necessary to effect this improvement was 6.72 feet. The work was carried on by dredge No. 15 from June 22 to August 23, 7,068 cubic yards seew measurement of mud and sawdust being removed, equivalent to 5,437 cubic yards place measurement, showing an expansion factor of 30 per cent.

WEST ARICHAT.

(This work is fully described in the annual report for 1915.)

West Arichat, Richmond county, is a small but safe harbour on the west coast of Isle Madame.

During the fiscal year ended March 31, 1917, a new span was built over the opening in the breakwater, and in raising it and the approaches there to a height of 2 feet above the original level, to permit the passage of boats underneath.

WINDSOR.

Windsor, Hants county, is an incorporated town on the Dominion Atlantic railway, at the head of Minas basin, on the Avon river, 46 miles west from Halifax.

During the year 1916-17, a boat landing at the public wharf was built for the use of ferry passengers from Newport. A platform projects out from the floor of the wharf 5 feet, and the landing is hinged at the top of this platform and at the bottom to a scow 5 by 10 by 3 feet.

Work was performed during the months of August and September.

YARMOUTH.

In 1916-17, the Public Works Department Dredge No. 1 removed 57,065 cubic yards, scow measurement, towed 4½ miles from the main channel. The work consisted in deepening the turning basin opposite the Evangeline wharf, and making a cut about 180 feet wide from the south end of the Evangeline wharf to the south end of the T wharf. The work was performed between October 4 and November 20, 1916, and to a depth of 21 feet at L.W.O.S.T.

The work had been done as far as the south end of T wharf, when orders were

given to cease operations.

The dredging is comprised within a length of 1,780 feet and a width of 180 feet to 370 feet. The depth of cut varies from 3 to 6 feet. Dredging was done to a depth of 21 feet at L.W.O.S.T.

The dredged area will fill up by deposit of silt at a slow rate and should not require re-dredging for about ten years.

PRINCE EDWARD ISLAND.

ASYLUM WHARF.

Dredging.

The channel was cleaned out and deepened to earry 8 feet at low water spring tides, by Department of Public Works dredge No. 10, July 7 to August 16, 1916, 12,475 cubic yards, scow measurement, of silt, soft mud, and clay being removed. The inner 200 feet gradually widens out to 140 feet immediately in front of the wharf, to form a turning basin for vessels; in addition, a loading berth was formed on the west side of the wharf, 65 feet long by 50 feet in width, grading from 8 feet at low water up to $4\frac{1}{2}$ feet at its inner end.

BRIDGETOWN (GRAND RIVER).

The village of Bridgetown is situated at the head of navigation on the Grand or Boughton river, King's county. The improvements proposed in depth and width of channel on upper portion of the river as also work done in connection therewith during season of 1915 are fully described in annual report for that year. It was intended that the work commenced, in 1915, should be carried through to completion early the next season but the only work undertaken was the removal of 2,900 cubic yards, scow measurement, to accommodate berthing plant for winter season.

Dredging was done in making a cut in front of the wharf 135 feet long, having a width of 90 feet, to an average depth of 9 feet at low water spring tides; the material

removed being principally soft mud.

The dredge was engaged from November 9 to 15, 1916.

CHARLOTTETOWN.

Charlottetown, the capital of the province of Prince Edward Island, with a population of 12,000, is situated on the north bank of the East or Hillsborough river, near its junction with the North and West rivers.

Dredging was done from May 30 to July 5, removing 7,500 cubic yards, scow measurement, of soft mud and clay, forming a cut 620 feet long, the outer 345 feet having width of 60 feet and minimum depth of 12 feet at low water spring tides and inner 275 feet a width of 50 feet and grading from 11 up to 8 feet at low water spring tides.

From September 15 to October 7, at Connolly's wharf 6,250 cubic yards, seew measurement, of soft mud and clay, together with some old timbers, were removed. The dock between the wharfs, 340 feet in length, 95 feet in width at outer end and 45 feet in width at inner end, carries a minimum of 12 feet over its outer portion, the inner end grading up to 9 feet at low water spring tides. At outer western side of the west wharf, a berth 100 feet long and 55 feet wide was also provided, grading from 14 up to 11 feet at low water spring tides.

On October 28, dredge No. 10 commenced improvements at the inner end of the dock on the east side of Pownal wharf, 3,175 cubic yards of mud, clay and sand being removed in forming a berth 100 feet in length, 60 feet width, and carrying a minimum of 9 feet at low water spring tides. The remains of an old wreck, broken up during present season by the Marine Department, were also removed, being completed

November 10.

GEORGETOWN.

Georgetown harbour is situated on the southwest side of Cardigan bay on the eastern coast of Prince Edward Island.

The D.P.W. dredge No. 9 commenced dredging December 21, 1915, but ice conditions prevented completion that season. This, however, was effected by the above dredge, August 8 to 12, 1916, when 1,600 cubic yards, scow measurement, of sand, brick, clay, and shelly rock being removed. The berth when completed had a length of 370 feet, 75 feet in width, carrying 20 feet of water at low water spring tides over the entire length.

GRAND RIVER NORTH.

This work is fully described in annual report for 1914.

Grand River North, Prince county, is situated on the north side of Grand or Ellis river, near its entry into Richmond bay, and about 7 miles northeast from Wellington station, on line of the Prince Edward Island railway.

During the past season work was done on the reconstruction of top portion of approach immediately inward of pier head, and rebuilding guide pier which had become damaged by ice lifting a number of the bearing piles. Work was commenced August 14, and consisted in raising portion of approach 230 feet in length immediately inward of outer block an average of 2 feet with 12- by 12-inch timber, on which a new guard was placed and the sides of work further strengthened by fender piles driven at about 8 feet centres; roadway approach being graded up with broken stone and gravel over its entire length. The guide pier to accommodate the ferry boat, having a length of 40 feet and width of 10 feet, was then entirely reconstructed on pole-work foundation with square timber superstructure, fully ballasted, the inner face being close-piled, while on the end and outer face, piles were driven and secured at 4 feet centres. The whole work was satisfactorily completed November 21.

KIER'S SHORE

Is situated on the eastern side of Richmond bay, which is also known as Malpeque harbour. The wharf has a length of 1,033 feet. For improvement of channel approach to the wharf, the enlargement and extension of an old dredged cut was undertaken, with some cleaning-up of shipping berths in the immediate vicinity of the wharf. Commencing August 24, 1915, 16,175 cubic yards, scow measurement, were removed by December 6 of that year; operations were resumed July 21, past season, and carried through to a successful completion on September 28; the quantity of material removed during that time was 13,275 cubic yards, scow measurement, consisting principally of brick, clay, mud, and a small quantity of sand.

The work done covering the two seasons consisted of clearing out to 9 feet at low water spring tides of former dredged approach to the wharf, 1,350 feet in length and 100 feet in width and extending same 1,600 feet or out to the 9-foot contour in the bay, the latter cut having an average width of 140 feet. Some cleaning up was also done in berth on south side of wharf, which now has a length of 475 feet and average width of 75 feet, grading from 10 feet at its outer end up to $5\frac{1}{2}$ feet at low water spring tides.

MCAULAY'S SHORE.

McAulay's Shore pier is situated on the north bank of the Pinette river, near its discharge into Northumberland straits, and about 5½ miles east of Point Prim.

To provide shipping berths on both sides of the wharf and improve that across the outer end, D.P.W. dredge No. 10, August 18 to September 12, 1916, removed 6.800 cubic yards of mud, hard sand and old rock ballast.

The berths formed at sides each have a length of 100 feet, with width of 60 feet, carrying a minimum of 9 feet at low water spring tides, assumed to be 13 feet below top of guard at outer end.

MCCONNELL'S WHARF.

McConnell's wharf, the property of the Government of Prince Edward Island, is situated on the north side of the East or Hillsborough river, about $8\frac{1}{2}$ miles above Charlottetown.

Departmental dredge No. 10 worked October 11 to 24, 1916, removing 3,725 cubic yards, seew measurement, of very soft mud and silt. The size of approach to wharf was 100 feet by 90 feet; a shipping berth on the east side of the wharf has a length of 70 feet and width of 60 feet. At completion, the area covered carried from 8 to 10 feet at low water spring tides.

PANMURE ISLAND.

Panmure island is situated on the east coast of Prince Edward island, on the south of the entrance to Georgetown harbour.

On December 2 to 15, 1915, dredge No. 9 removed 4,900 yards. The completion of work by above dredge was effected August 18 to September 22, 1916. A cut was made 630 feet long, having approach 60 feet wide and a turning basin at end of wharf 150 feet wide; 11,240 cubic yards of material being removed. The minimum depth provided was 8 feet at low water spring tides.

RUSTICO.

Rustico harbour is situated on the north coast of Prince Edward Island, about midway between North point and East point, and 9 miles northerly by road from Hunter river, the nearest station on line of the Prince Edward Island railway.

Owing to the shoal depth of water earried over the greater portion of Gauthier's creek, only the smallest class of fishing boats can reach the village; a channel 2,400 feet in length, having a width of 60 feet, to carry 8 feet at low water spring tides were commenced by departmental dredge No. 11, October 6, and was carried on until October 27 when suspended; during this short period, 2,950 cubic yards, scow measurement, of material, consisting of soft mud and sand, were removed in making a commencement at the lower end of cut, the distance advanced being about 200 feet to the required width and depth. It is proposed that the above dredge continue operations at the place on opening of the navigation season of 1917.

ST. MARY'S BAY.

St. Mary's Bay wharf, the property of the Dominion Government, is situated on the southern side of St. Mary's bay, about 5 miles directly south of Georgetown.

Lately, the accumulation of siltage on the inner portion of cut made in 1892 necessitated its cleaning up. D.P.W. dredge No. 9 commenced work on September 23, completing on October 4, 1916. The inner 500 feet of the cut, 70 feet wide, again earries a minimum of 8 feet at low water spring tides, while the shipping berths on each side of the wharf earry the same draught; that on the west side having length of 120 feet, and that on the east 100 feet, both 50 feet in width. The material removed consisted of 4,300 cubic yards, scow measurement, of soft mud and clay.

STURGEON.

Sturgeon wharf, King's county, is on the southern side of Sturgeon bay, about four miles in a southerly direction from Georgetown. Some improvement was made by increasing the depth of water surrounding the wharf, by D.P.W. dredge No. 9, which worked from October 4 to 12, removing in that time 6,600 cubic yards, scow measurement, of soft mud.

The work done consisted in cleaning over the channel approach to wharf a distance of about 400 feet to a depth of 8 feet at low water spring tides. The outer 200 feet of this channel is 100 feet wide, and the inner 200 feet gradually widens out to 160 feet immediately in front of the wharf to form a turning basin. Berths were also dredged on both sides of the outer portion of the wharf. Each berth is 80 feet long and 50 feet wide, and earries an average depth of 8 feet at low water spring tides.

NEW BRUNSWICK.

BATHURST.

Dredging operations at Bathurst since 1913 are described in the annual report for 1916.

Bathurst, the shire town of Gloucester county, is situated on the south shore of Chalcur bay.

In 1916, dredging began about 1,900 feet above the Forks where, in a length of 3,400 feet, the channel on ranges 6 and 7, previously 60 to 100 feet wide, was widened to from 150 to 200 feet, with an extreme width of 350 at the turn. On range 8, from 6,700 to 7,600 feet above the Forks, the channel was widened 40 feet, i.e. to about 100 wide. Above this range, considerable work was done during the season on the turning basin and berth at the new pulp-mill wharf, the total area of which is now about $7\frac{1}{2}$ acres, the extreme length being about 1,000 feet, and width 500. At the Gloucester Lumber and Trading Company's wharf, the channel was widened in to the whart, and the berth was gone over, the total length of the dredging here being about 800 feet and width about 100 to 150 feet.

The depth given in the channel was 17 feet at low water ordinary spring tides; in the basin, about 20 feet; in the berth at the pulp-mill wharf, 15 feet; and in the berth at the Gloucester Lumber and Trading Company's wharf, 20 feet.

The total barge measurement quantities were 308,976.9 cubic yards. Material, sand and clay.

The government dredge P.W.D. No. 3 worked August 4 to October 31, removing a total of 65,917 cubic yards barge measurement, of which 43,613 cubic yards were dredged on the Outer bar, and 22,304 on the Ripple and Ballast bars inside.

On the Outer bar, the channel was widened 50 to 75 feet, i.e., to about 150 in a length of about 1,500 feet, about 3,500 to 5,000 feet outside the entrance. The depth given was 15 to 17 feet. Material, clay, sand, and gravel.

On the Ripple bar the dredge worked over a length of about 800 feet, where rapid shoaling occurs each season. The depths here are still less than at the close of the season of 1913 varying from about 18 to 11 feet.

On the Ballast bar, the dredge worked over a length of about 1,000 feet, giving depths of about 17 feet where there was previously 13 feet on the section of the

channel not previously dredged.

On account of short shoal sections remaining on the Ballast, Ripple, and Outer bars, the limiting depth is still about 13 feet at low water ordinary spring tides.

BLACK RIVER.

The Black river, Kent county, is a small stream entering Buctouche harbour about one mile north of Buctouche. Between July 1 and October 12, 1916, dredging was in progress in making a cut 1,050 feet long. 30 wide, and with 4 feet at low water ordinary spring tides across a shoal to give a passage for the fishing boats at all times of tide, and to improve the smelt fishing, etc., on the river.

The quantities removed were 6,054.66 cubic yards, barge measurement; material,

sand and shell mud.

The contract price was 36 cents per cubic yard, barge measurement.

BUCTOUCHE.

In the $5\frac{1}{2}$ miles between the town of Buctouche and the harbour entrance on the Northumberland strait, three shoals occur, the most serious of which is at the entrance, where a wide ledge of rock and a sandbar limited the depth to about 10 feet at low water ordinary spring tides.

Dredge P.W.D. No. 13 was in operation between June 24 and September 19, 1916, when the central section about 1.300 feet long of the first cut on the Middle shoal was completed and the whole was widened to about 120 feet. The total length of the cut is 4,180 feet and least depth 13 feet at low water. Material, clay, mud, and sand.

On the turn between the range of the Indian Point lights and outer range, two small shoals were gone over in a total length of about 800 feet, of which about 200 feet was on the first range and the remainder on the inner 1,000 feet of the outer range, ending about 650 feet inside the beginning of the rock cut. A depth of 13 feet at low water was given. Material, mud, sand, and shell rock.

There remains, to complete the 13-foot channel to the town of Buctouche, the outer section about 2,700 feet long of the outer bar, where the material is fine sand and the least depth 10.2 feet at low water, and the inner shoal about one mile below the town which as shown by our last survey is 2,500 feet long with a least depth of 10.3 feet at low water. Material, soft mud.

The quantities removed during the fiscal year amounted to 10,680 cubic yards at the outer points, and 47,516 cubic yards at the Middle shoal, barge measurement.

CHURCH RIVER.

Church river, Northumberland county, enters Miramichi bay, about 24 miles northeast of Chatham.

A highway bridge crosses the river near its mouth above and below which are shoals nearly dry at low water. Above the shoals is a channel with 8 to 10 feet at low water extending about $2\frac{1}{2}$ miles inland, or to the point to which lumber is brought by the river current.

In order to permit of the passage of rafts, scows, and small tow-boats, an agreement was entered into on 9th August, 1916, with Mr. F. A. Fowlis, for the removal of 14,000 cubic yards, barge measurement, at the rate of 35½ cents per cubic yard.

Work was in progress between 21st August and 11th November with the dredge Fowlis, when a total of 6,568.9 cubic yards were removed in making a cut about 1,900 feet long, 30 to 40 feet wide, and with 2 to 4 feet at low water across the shoal above the bridge. Material, mud, packed sand, gravel, and shells.

COCAGNE BAR.

Cocagne bar, Kent county, is a fishing settlement at the northern end of Cocagne harbour, 5 to 6 miles north of Cocagne village, and 10 miles southeast of Buctouche.

Some years ago the people made, by hand digging and at their own expense, a cut about 8 or 10 feet wide leading out towards the strait, which is still used.

In 1915 this cut was widened and extended by the department to a length of 1,700 feet and width of 15 to 20 feet, with depths of $2\frac{1}{2}$ to 3 feet at low water ordinary spring tides.

Dredging was resumed 30th August to 13th November, 1916, when the cut was earried shorewards about 250 feet, or to about 350 feet from high water mark, extended about 250 feet at the outer end and given a width throughout of about 40 feet. The cut has now a total length of about 2,200 feet.

A cut running southwards towards the main Cocagne harbour was also begun by overcasting in a length of 985 feet, 18 to 23 wide and 1 to 2 feet deep.

The material consisting of mud and sand removed in seows amounted to about 4,547 cubic yards, barge measurement, costing 32½ cents per cubic yard, and the eastover was about 1,311 cubic yards, place measurement, costing 20.6 cents per cubic yard.

GRAND LAKE.

Grand lake, situated in Queens county, is the largest lake in the province of New Brunswick, and flows into the St. John river through the Jamseg.

Near the mouth of the lake, a shoal had formed across the channel by deposit from the inflowing tide. Dredging was formerly done at this place in 1902, but the channel had practically filled again in 1914.

During the fiscal year 1915-16, a contract was awarded to L. W. Nickerson for the removal of approximately 75,500 cubic yards, place measurement, of class "B" material, at 14½ cents per cubic yard, dredging to be done to the proposed grade of 9 feet below low water for a width of 150 feet, the length of channel required being 6,075 feet; 53,694-6 cubic yards, place measurement, was removed.

Dredging was resumed on May 31, 1916, and was completed on June 16 of the same year, when 13,542.9 cubic yards, place measurement, of silt, sawdust, etc., was removed within the limits and grades required.

MARTIN'S HEAD.

Martin's Head, St. John county, is situated at the mouth of Quiddy river, on the north shore of the Bay of Fundy, 12 miles east of Great Salmon river, and 11 miles west of Point Wolfe.

The breakwater, begun by the department in 1914-15, and later extended, was 768 feet long, consisting of a timber groyne made of piling, sheathed for 154 feet, and of pile bents, close-piled on the seaward side, for 614 feet. All the timber for this work has been supplied free of charge by the Pejepscot Paper Company.

During 1916-17 the pile breakwater was extended 60 feet; a breastwork, 575 feet long, and two groynes, each 75 feet long, consisting of piles, sheathed on the seaward side, were constructed. The work was in progress between 22nd June and 7th September, 1916.

8 GEORGE V, A. 1918:

NEGUAC.

Neguae lies on the northern side of Miramichi bay, about 27 miles northeast of Chatham. The public wharf, built by the department in 1892 to 1894, is the terminal point for trips of the daily river steamer.

The covering and superstructure of the wharf having been weakened by wear and decay, its reconstruction and repair was begun during the fiscal year 1916-17.

Work was in progress between 28th June and 15th July, between 29th July and 25th August, between 11th and 23rd September, and on 29th September.

NELSON.

Nelson is a village and settlement on the south side of the Miramichi river opposite Newcastle, and 5 miles above Chatham.

In order to provide a berth at the wharf for overseas shipments, an agreement was entered into on 9th August, 1916, with Mr. Peter England, for the removal of 13,500 cubic yards at 353 cents per cubic yard, barge measurement, and dredging was in progress between 16th August and 3rd November, when a total of 13,495 cubic yards were removed.

In front of the wharf there were previously depths of 8 to 10 feet which were increased to 16 to 19 feet in a berth about 500 feet long with an approach from the river channel of equal depth. The shallower section is at the upper end where the dredging was close to rock. Material, mud and elay.

PARTRIDGE ISLAND.

Partridge island is a rocky eminence standing at the mouth of St. John harbour, and dividing the entrance into east and west channels. The island is the property of the Dominion Government, and is used for lighthouse, quarantine, and military purposes. At the northern end of Partridge island, two piers of cribwork were built by the department many years ago, and are now in a very dilapidated condition, being unfit to repair.

During 1916-17 an extension was constructed to the low-water landing, consisting of pilework 40 feet in length, with an average height of 18 feet. For this extension fifteen piles, steel shod, were driven, and securely capped and braced; a timber trestlework was constructed on top to protect the landing from vessels at high water; bags of concrete were placed in the corner of this pier, on ballast poles, where it had been damaged by a heavy storm and lifted. A new set of steps was placed at the inner end. The work was carried on, but not continually, between October, 1916, and March, 1917.

POINT SAPIN.

Point Sapin, Kent county, is a settlement and important fishing station on the Gulf of St. Lawrence, about 8 miles south of the entrance of Miramichi bay.

A breakwater was constructed in 1912, inside which was originally 5 to 6 feet at low water. The depth has, however, considerably decreased through the accumulation of sand, therefore dredging was carried on during the fiscal year 1916-17, between 13th April and 9th June, to improve the approaches and berths.

The dredging covered the berths for 114 feet inside the pierhead and 200 feet along the approach and an area about 75 feet wide in the angle between the two; also a cut across the bar formed opposite the end of the pierhead, about 50 feet square. The depth given was about 23 to 4 feet at low water. Material, sand.

The total quantity removed was 1,853 cubic yards, at a cost of 44 cents per cubic yard, barge measurement.

RICHARDSON.

Richardson, Charlotte county, is a very prosperous fishing village 11 miles south of St. Andrews.

The wharf at Richardson, built by the Provincial Government in 1887, was transferred to the Federal Government in 1915, and consists of a pile approach, 132 feet long and from 21 to 31 feet wide, with a cribwork pier-head, 40 feet by 24 feet.

During 1916-17, the cap, fenders, stringers, bracing, and upper section of the cribwork of the pier-head were renewed; a floating slip was constructed and a freight shed was built on the wharf. The slip will not be put in place until the spring. The work was begun on July 31 and suspended on November 25, 1916.

RICHIBUCTO CAPE.

Richibucto cape lies 6 miles southeast of the entrance to Richibucto harbour, and 5½ miles north of Chockfish river. The distance from Richibucto cape to Prince Edward Island is 14½ miles.

The works begun in 1908, will consist of a main breakwater and a southern pier

forming a sheltered harbour about 2.8 acres in extent.

During the fiscal year, the outer end of the southern pier which had settled, was raised with two tiers of logs in a length of 40 feet and with one tier for 32 feet and 30 cubic yards of stone was placed in the work.

A crib 99 feet long, 28 feet wide at bottom and 10½ to 12½ feet high, was built to fill in the space between the original end of the pierhead of the breakwater and a detached block to give better shelter for the fishing boats. Two ballast floors were laid in the crib, the space between them, 5½ feet to 6 feet deep, being filled with stone.

Work was in progress between September 20 and October 7, 19th and 24th, and 30th and 31st October, between 14th and 23rd February and 13th and 31st March.

RIVER ST. JOHN AND TRIBUTARIES.

BAYSWATER.

Bayswater is a summer resort of considerable importance at the lower end of the Kennebecasis river, in Kings county, and is the western terminus of the ferry Maggie Miller, which plies on that river.

Work of construction of a ferry landing was carried on during the months of

July, August, December, 1916, and was finished in March, 1917.

The work done consists of the construction of four cribwork blocks for the purpose of forming a slipway for the ferry. These blocks are 40.7 by 12 feet, 29 by 12 feet, 41 by 10.6 feet, and 29 by 10.6 feet, respectively, and each block is approximately 18 feet high. The blocks are constructed entirely of round cribwork partially filled with ballast and are battered on both sides at the rate of 1 in 6, with ends plumb.

KENNEBECASIS ISLAND.

Kennebecasis island is situated near the mouth of the Kennebecasis river, in Kings county, just below Long island.

Work on the construction of a ferry landing was begun 11th September. 1916,

and completed on 28th February, 1917.

The work consisted of the construction of four cribwork blocks for the purpose of forming a slipway for the ferry Maggie Miller. These blocks are 42.5 by 13.6 feet, 28.1 by 13.6 feet, 42.4 by 13.2 feet, and 27.9 by 12 feet, respectively, and each block is approximately 20 feet high. Construction is of round cribwork, double fendered with flatted timber.

REMOVAL OF SNAGS.

Owing to extensive lumber operations on the St. John river there are annually a great number of snags to be removed. In the main, these consist of logs which have become waterlogged and partly submerged. Very frequently these logs lie in an inclined position, with one end on the bottom of the river and the other at or near the surface. They constitute a very serious danger to navigation, and each year a large number are removed.

In 1916 snagging began on 11th September and was finished on the 4th November. Work was also performed on the Kennebecasis, and snags were removed between

Perry point and Hampton.

ST. CROIX RIVER.

This work is fully described in the annual report for 1916.

The St. Croix river forms part of the western boundary of New Brunswick, and at the same time a portion of the boundary between the Dominion of Canada and the United States. In 1911 an arrangement was entered into with the United States Government whereby the Department of Public Works of Canada agreed to contribute 10 per cent of the cost of dredging a channel in the St. Croix river. The total estimated quantity was 443,835 cubic yards, to provide a channel 9 feet deep at mean low tide, and 100 feet wide, from the upper steamboat wharf at Calais, to the public landing at St. Stephen; thence 150 feet wide, to the lower steamboat wharf at Calais; and thence 12 feet deep and 200 feet wide, to the mouth of the river, covering a distance of about 34 miles.

During 1916-17 the improvement to navigation by dredging in St. Croix river was completed. Work on the third contract (let during the previous fiscal year) was resumed in April, and was completed in October, 1916. The quantity of mill waste, mud, gravel, etc., removed during this period, above the required depth, was 73,428 cubic yards, barge measurement, and of boulders, 11-68 cubic yards.

ST. JOHN.

The ordinary winter season's wear and tear to the government sheds and wharves necessitated the doing of considerable renewal and repair work; this was carried out by day labour during the summer season, and two additional offices for shed No. 14 were constructed.

The face of the outer end of the Union pier had been loosened by storms, and temporary repairs were made to the portion that required immediate attention by the addition of new vertical ties and fenders.

A portion of the water-pipe main leading to berth No. 15 was lowered to carry it below the frost line under the track depression, and a branch line laid to supply berth No. 15. A pipe sewer, running from Union street, was extended across the newly filled area to connect up with that already laid, running to berth No. 15. Temporary pipes were run along berth No. 15, to supply steamships with water. Three fire-protection hydrants were also installed.

A roadway was built by day labour from Protection street to dock No. 16. One-half the cost of this, where it is partly on land leased to the Canadian Pacific Railway Company, is to be paid by that company, under the terms of their lease.

The Canadian Pacific Railway Company constructed and filled in with earth a trestle running towards berth No. 16. This necessitated the extension of a sewer, running south from Germain street to carry it clear of the embankment. One-half the cost of this was paid by the Government, under the terms of the joint agreement between the Crown, the city, and the Canadian Pacific Railway re transfer of this land.

Several small pieces of work were done for the Marine and Fisheries Department, the total amounting to \$500.45.

BEACON BAR.

Construction of Temporary Shed and Superstructure for same, etc.

The Naval Transport Department found that additional shed-room was needed for handling munitions of war, so tenders were called for the construction of a temporary shed on pier No. 1, berth No. 16, West St. John, to be equipped with water works, electric lighting, office-heating systems, etc., and contract was awarded to Mr. D. C. Clark, on 27th November, 1916. This contract included the construction of a portion of the timber substructure for the shed, on a unit-rate basis. Good progress has been made with the work.

To avoid any possibility of further settlement of the wharf wall at berth No. 16, it was decided to construct the substructure for the temporary shed on pile and timber work, instead of an earth filling placed behind the concrete top portion of the wall. Work was started in November, 1916, under authorization of Order in Council of November 14, 1916.

Plant was hired from the Maritime Dredging and Construction Company, the Canadian Pacific Railway, etc., the earth shifted from behind portions of this wall to form an embankment down the centre of the pier to carry the tracks at the rear of the shed, work being done by the Maritime Dredging and Construction Company's crews of men, on a cost plus 10 per cent basis; also by day labour. Piles were driven and a portion of the timber work done under day work, the balance of the construction being done by Mr. D. C. Clark, under his contract.

Tenders were called for the supplying of 5,000 yards of rock ballast, to be placed at the rear of the wharf wall, in connection with timber work, and the contract was awarded to Messrs. Kane & Ring, on December 22, 1916. Three thousand cubic yards have been placed during the fiscal year. Under the terms of the contract, no payments are to be made until the work is completed.

An agreement was entered into with the Canadian Pacific Company to lay tracks across the government property to and along the embankment at the rear of the shed. They first extended the trestle, that they had built out from the shore towards the pier on their property, across government land to the pier embankment. This was filled in and the resulting embankment widened to carry the tracks to the shed; later, they were authorized to, and did, construct a temporary sea-wall to protect the exposed portion of the embankment from erosion.

Timber Retaining Wall and Back Filling.

On February 1, 1913, a contract was entered into with the Maritime Dredging and Construction Co., Ltd., for placing earth filling at the back of the quay walls, then under construction. They completed the amount of work specified in that contract during the fiscal year 1915-16. Tenders were called for the completion of the filling, and the contract awarded to the above-mentioned company on July 15, 1916, and 224,-532 cubic yards have been placed by them. This contract also called for the construction of a rock-ballasted timber crib-wall to retain the filling at the southern end of the wharf wall and of the reclamation area. This wall was completed in November, 1916.

On November 7 the department suspended operations when they hired the reclamation plant of the company, and no further work was done by them during the balance of the fiscal year.

A portion of the land northward of berth No. 15 was leased to the Canadian Paeific Railway Company for railway-yard extension purposes, and under the terms of this lease, dated September 26, 1916, they completed the reclamation of the greater part of that area, depositing 37,107 cubic yards of material.

COURTNEY BAY.

This work is described in the annual report for 1915:—

On March 25, 1912, a contract was entered into with the Norton Griffiths Company for the construction of harbour improvements in Courtenay bay, east side of St. John harbour. The works consists of a breakwater, 4,570 feet long, of rubble stone deposited on the beach, which is from 3 to 10 feet above low tide, the top of the breakwater being 13 feet above high tide (ordinary maximum spring tides rise 27 feet); the construction of two piers on the northern side of the bay; these piers are 800 feet long, 300 feet wide, and are to be built of timber cribwork sunk in 34 feet of water at low tide, on which a concrete superstructure 21 feet high will be built; the excavation of a basin inside the breakwater and a channel leading thereto from the main entrance channel of the harbour, the total quantity of dredging being approximately 11,000,000 cubic yards; the approximate estimated cost of the work is \$7,500,000, and the contract is stipulated to be finished in 1917.

In connection with the works, the contractors are bound to build a dry dock, 900 feet long, with an entrance 110 feet wide; the dock is to be constructed and equipped under the Dry Dock Subsidy Act of 1910.

During the year 1916-17, the work of covering the breakwater with large stone was continued. Three-quarters of the top, seven-eighths of the inner, and practically all of the outside of the wall is now completed. A small portion of this stone was taken from the dry dock prism proper, the balance from the adjacent quarry.

Four dredges excavated in the basin, increasing the area of the hole to 98 acres. A portion of the pier sites was excavated to an average depth of 15 feet below low water. One dredge exeavated 519.885 cubic yards from that portion of the channel adjoining the basin, making a depth of from 25 to 32 feet at low tide. Part of this material was used in reclamation work at Beacon Bar wharves.

Due to the unsatisfactory progress made, the contractors were notified to suspend operations on November 30, and no work has been done since that date.

Main Channel.

The main entrance channel of St. John harbour has a length of 4,500 feet, being 600 feet wide for 1,800 feet, and widening gradually to 1,000 feet in the remainder of its length. The departmental dredge "Fielding" has carried on improvements in the channel since 1908. The work consists of dredging this channel from a minimum depth of 19 feet at low water to a depth of 32 feet at low water, and the maintenance of this depth.

During 1916-17 the departmental dredge *Fielding* removed 15,769 cubic yards, scow measurement, of sand and gravel, in the main channel of St. John harbour, from 18th October, 1916.

ST. JOHN WEST.

On the west side of St. John harbour there are ten deep-water berths, including those at Sand point, Rodney slip, and the new docks lately constructed on the site of Beacon bar. Owing to the fact that a considerable amount of filling-in occurs here each season, it is necessary to have the berths for steamers cleared up, previous to the winter-port season.

Between 21st August and 15th September, 1916, the departmental dredge *Fielding* removed 32,315 cubic yards, barge measurement, of soft mud from Sand Point slip, berths Nos. 3, 4, 5, and 6, and berth No. 7.

To remove material close to the face of the wharves (which the departmental dredge *Fielding* was incapable of removing) Contractor J. S. Gregory's dredge *Keta* was employed, at the rate of 29 cents per cubic yard, scow measurement. In berths Nos. 3, 4, and 5, this dredge removed 6.002.5 yards, barge measurement, of soft mud, between 2nd and 12th October, 1916.

In slip No. 1, berths 15 and 16, the Maritime Dredging and Construction Company's dredges Beacon Bar and Leconfield removed 21.888 cubic yards, barge measurement, of mud, gravel, clay, and stones, between 16th October and 20th December, 1916. Of this quantity, 7,259 cubic yards, barge measurement, were deducted for material dumped by this company in the berth in connection with their reclamation contract, and 1.842 cubic yards, barge measurement, were also deducted, being removed outside the authorized limits.

SHIPPIGAN GULLY.

Shippigan gully, a passage between Shippigan island and the mainland. Works were begun in 1875 to improve the channel at the gully in which there was then a least depth of only 3½ feet at low water. The construction of dams and breakwaters, concentrating the current in one channel, increased the depth to nearly 6½ feet in 1898, 8 feet in 1903-04, and about 8.5 feet at low water or 14.3 feet at high water ordinary spring tides in 1915.

Work was in progress between 24th June and 17th November, 1916, on the reconstruction and repair of the eastern breakwater and the construction of breast-

works on the east beach.

The breastworks partly replace breastworks built many years ago and which had decayed or been carried away. They cover a considerable section of the beach between the east breakwater and the dam across what was formally the eastern gully, about 3,600 feet north of the breakwater.

Including groynes, about 12 to 15 feet long, which project from the main line of breastworks, and four connecting breastworks, 77 feet long between the two lines at the lighthouse, the total length of breastworks constructed during the year was 3,906 feet, of which about 900 lineal feet were of heavier construction.

 Λ 106-foot block in the eastern breakwater, 368 feet from the outer end, partly rebuilt last year, was completed. About 140 close-piles were driven and the work was

filled to about 2 feet from the top with brush and stone.

In a section 60.4 feet long, 130 feet beyond the last, a new face was built on the north side to strengthen and straighten this face of the breakwater. The new face is 3 feet in average distance from the old, and is composed of ten main and sixty-seven close-piles, two walings and ten cross-ties reaching over the old work. Brush and stone were placed in the space between the old and new faces and over the old work. Two close-piles were driven in the 130-foot section to replace two which were broken.

A small new crib, 17 feet square, composed of three tiers of logs filled with brush and stone, was built at the inner end of the rebuilt block and the tops of all piles, new and old, and of the cap-timbers, were painted with carbolineum.

QUEBEC.

ANSE À BEAUFILS.

This work is described in the annual report for 1914.

Anse à Beaufils, in the municipality of Cape Cove, county of Gaspé, is situated on the Gulf St. Lawrence, 6 miles south of Percé.

During the last six months, the inside end of the breakwater was rebuilt for a length of 40 feet by 20 feet in 5 feet of water at low water spring tides.

BAIE ST. PAUL.

Baie St. Paul is situate in the county of Charlevoix, on the north shore of the river St. Lawrence, 64 miles below Quebec. Population, 4,000.

During last season, the following works were undertaken and completed in rebuilding of portion of wharf and freight and passenger shed destroyed by fire the previous fall; approximately 700 cubic yards of cribwork was rebuilt and a new shed 60 by 24 feet erected, and other repairs were made. Work was done by day labour.

BATISCAN RIVER.

Dredging was undertaken to maintain a 6-foot channel, from the government wharf at Ste. Geneviève de Batisean, to the St. Lawrence river, a distance of 28,000 feet, and was done as follows: In the channel on a length of 3,200 feet by 60 feet wide, to 6 feet below zero; another length of 600 feet by 50 feet wide and 6 feet below zero, east of the first location; a basin, 400 feet long by 100 feet wide, to 6 feet below zero, near the railway bridge, and at the ferry site on a length of 400 feet by 60 feet wide to 6 feet below zero, west of the bridge.

The total quantity removed by dredge P.W.D. No. 106, during the working season, was 38,215 cubic yards of clay and sand. The work was started May 20, and discontinued September 12, 1916.

BIC.

Bie, on the south shore of the St. Lawrence river, in the county of Rimouski, is an important village and a favourite summer resort. There are two wharves; the Bic wharf, which is located on the south shore of the harbour, and the Pointe à Cote wharf which is located at the end of the point of the same name.

The work done at Bic during the fiscal year, 1916-17, consisted in the placing of a crib, 28 feet long by 21 feet wide, at the head of the wharf. Some repairs were also done to the planking. This wharf was built in 1884 and 1887.

CAP CHAT.

(This work is described in the annual report for 1913.)

The first municipality of the county of Gaspé on the St. Lawrence river shore, 45 miles below Matane.

During the last six months, the whole length of the old portion of the pier on a length of 525 feet was raised 2 feet after renewing from three to seven tiers of crossties, and fully reballasting. The shore end was widened 30 feet and extended 35 feet towards shore by a protection breastwork.

CAP DE LA MADELEINE.

The Cap de la Madeleine parish, county of Champlain, is situated on the northern bank of the river St. Lawrence, about one mile easterly of the St. Maurice river outlet.

The Dominion Government built an approach and a wharf in 1887. In 1913 an extension was decided upon, and the new work was completed in 1915.

During the fiscal year the whole approach was protected by a riprap placed on both sides, on a length of 200 feet, and finished with a 6-inch layer of concrete.

All this work was done by agreement, including the construction of a shed, 26 by 32 feet.

CAPE COVE.

Cape Cove, Gaspé county, is an important fishing station, on the coast of Gaspé, some 9 miles south of Percé, the shire town.

During the last six months the outside end of the wharf was raised 15 inches, reballasted with some 800 cubic yards of stone ballast, and the corners sheathed and protected by iron straps.

CHICOUTIMI BASIN.

Chicoutimi basin, in the west part of the town of Chicoutimi, is the landing place of the ferry plying between Ste. Anne and the town of Chicoutimi.

During the present fiscal year an extension of 90 feet in length, 36 feet at one end, 45 feet at the other, and 25 feet in height, was built to the present wharf. This construction consists in piles driven into the bottom at every 10 feet.

A movable slip has also been built and placed into the old portion of the wharf. The work was commenced on 23rd May and completed July 4.

DUCK CREEK.

Duck creek is situated on the north shore of the gulf St. Lawrence, about 1 mile above Thunder river, Saguenay county, and is a meeting place for fishermen of the district

During the present fiscal year a spur dyke was built, 520 feet in length, across the entrance of the creek; this dyke is for the purpose of collecting a sandbank in order to protect fishing boats sheltering there against the action of the sea.

The work was commenced on 17th October, and completed 27th.

FATHER POINT.

Father point, in the county of Rimouski, is situated on the north shore of the St. Lawrence river, 6 miles below the town of Rimouski.

The work done during the fiscal year 1916-17, consisted in the construction of a revetment work along the east side of the wharf on a length of 80 feet, to protect the wharf against the action of the sea, where the break in the wharf occurred in November, 1914.

This revetment does away with the batter of the wharf; it is built straight up, thus giving to the wharf at the top an extra width of 4 feet. This construction is made of square timber 12 by 12 very strongly jointed to the main construction. The wharf was built in 1904-5.

GRANDS MECHINS.

Grands Mechins, also called St. Edouard des Mechins, in the county of Matane, is situated on the south shore of the St. Lawrence river, 30 miles below Matane.

During the fiscal year 1916-17, the work done consisted in the completion of the construction of a crib 100 feet long by 13 feet wide and a mean height of 28 feet, which was placed along the west side of the wharf, in order to protect it and to prevent its destruction. Sheathing has been renewed on a length of 21 feet on the old wharf.

The Mechins wharf was begun in 1906 and completed in 1909.

HA HA BAY.

Dredging.

Dredging was done at Port Alfred, situated on the east side of Ha Ha bay, between St. Alphonse and St. Alexis, where the Ha Ha Bay Sulphite Company is erecting a powerful chemical pulp mill.

The object of this work is to facilitate the approach, by ocean steamers, to the

eompany's wharf.

Work was started by dredge No. 115, on 5th to 9th of June, when 2,662 cubic yards of material, scow measurement, were removed; from 24th July to 11th October, the work was continued by dredge No. 110, and 81,032 cubic yards of material, scow measurement, were removed, making a total amount, for the present fiscal year, of 83,694 cubic yards, scow measurement.

The dredging was done to 27 feet below 0, corresponding to extreme low water over an area of 68,300 square feet, and to 14 feet over an area of 37,600 square feet. The material was of very soft clay.

In a recent survey, it was found that filling-in had taken place, since the suspension of the work.

HONFLEUR.

Honfleur is situated on the Peribonka river; it is the head of navigation, there is a ferry plying to the opposite shore for the accommodation of people from the parishes of St. Felicien, Peribonka, Mistassini, etc.

During the present fiscal year, the construction of the wharf begun last year has been continued, the work done consist of an abutment of round timbers, 15 feet in width and 27 feet long; an approach of 56.6 feet in length, by the same width, built with piles, the head block which is 25.6 in width by 40 feet in length, has also been raised 6 feet.

The work which was carried out by day labour was commenced on August 2 and suspended on September 15.

HOSPITAL BAY.

Hospital is a fishing harbour on the northwest side of Grindstone island. The crib, partly built in 1916, was secured and completed.

ILE PERROT SOUTH.

Ile Perrot South, a post village in Vaudreuil county, 3 miles from Ste. Anne de Bellevue.

The wharf built by contract in 1886-90, being in a dilapidated condition, it was decided to build a new wharf in front of the church where it will be less exposed to the spring ice-shove, and more centrally located.

The new wharf was partly built last year, and during the present fiscal year the wharf was completed by day labour.

ISLE VERTE.

The village of Isle Verte, in the county of Temiscouata, is situated on the south shore of the St. Lawrence, 16 miles below Rivière-du-Loup, and 130 miles below Quebec.

The renewing of the superstructure of the wharf began four years ago, was continued during the last fiscal year, and a length of 104 feet, ending at the outer block, by a width of 22 feet and a mean height of 18 feet, was altogether renewed from top to bottom.

The flooring at the shore end of the wharf was renewed on a length of 165 feet by a width of 22 feet, and further repaired where urgently needed.

A few stringers, which were decayed, were also replaced.

These works were performed by day labour during the months of July, August, and September.

LACHINE.

Dredging.

Lachine, an incorporated town, in Jacques Cartier county, on lake St. Louis, and on Grand Trunk railway, 8 miles from Montreal.

The object of this dredging was to give better access to Ottawa River Navigation steamboat *Empress*.

From 27th July to 28th departmental dredge No. 119 removed some 174 cubic yards, scow measurement, of ashes in making a 10-foot basin in front of Grand Trunk Railway wharf.

Dimensions of work done: one cut, 140 feet long by 20 wide to a depth of 10 feet below low water level, corresponding to 6 feet 5 inches below flooring of Grand Trunk Railway wharf.

LAPRAIRIE.

(This work is described in the annual report for 1916.)

Laprairie, a town in Laprairie county, on the south shore of the St. Lawrence, and a station on the Grand Trunk railway.

Dyke

During the present fiscal year the Duranceau & Poupore contract was cancelled. Total cost of contract, \$75,685.

Another contract was given, on 18th of November last, to the Carleton Construction Company, to complete the dyke, at the estimated cost of \$79,420.47. No work has been done as yet by the contractor on this contract.

Plank Roadway.

Last fiscal year, in order to accommodate the traffic during the construction of the dyke, a plank roadway was constructed in eight days alongside the dyke for a length of 6,500.

During the present fiscal year, the plank roadway and temporary bridge were maintained in good order; the planks were renewed as they broke and the road was always in first-class condition; this work was performed by day labour.

LONGUEUIL.

Longueuil is a post town, in Chambly-Verchères county, on the south line division of the Quebec, Montreal and Southern railway, and situated on the south shore of river St. Lawrence, opposite Montreal. Population, in 1914, 6,000.

During 1916 the department undertook four different dredging improvements, at or near Longueuil.

- (a) Boating club.
- (b) Canada steamships.
- (c) Garage.
- (d) Government wharf.

(a) Boating club.—From June 19 to 24, departmental dredge No. 119 removed some 871 cubic yards, seow measurement, of clay, sand, and boulders in making a cut alongside Grand Trunk Railway wharf, 300 feet long by 25 feet wide to 3 to 4 feet at low water. Hours of actual dredging, 39; cut, 25 feet wide; face removed from 2½ to 4 feet; distance advanced, 293; dumping ground, 7 to 8 miles downstream, on the northwest shore of river St. Lawrence, or below Racine pier.

The site of dredging is immediately upstream of Canada Steamships Line wharf, in a small bay, which is formed with the old Grand Trunk Railway wharf. The

latter is leased every year to the Longueuil Boating Club.

The probable duration of the improvement will be forever.

To complete, as originally proposed, will require the removal of 7.843 cubic yards, place measurement, or 10,757 seow measurement, and 1 foot of subgrade also included

in the above quantity.

Dimensions of work to be done: a 4-foot basin, on a length of 143 feet along shore by 317 along Grand Trunk Railway wharf. A dredge of "121" type should complete whole 4-foot basin in a few working months with a gauge of not less than 4 feet, in order to make only the required depth.

(b) Canada Steamships.—From 18th May to 8th July, 1916, dredge No. 110 removed some 23,853 cubic yards, seew measurement, of clay and boulders, in making a 12-foot channel, for ferry boat plying between Longueuil and Montreal. Hours of actual dredging, 228; cut, from 35 to 37 feet; face removed, from 1 to 5 feet; distance advanced, 6,767 feet.

Dimensions of work done, during season 1916, are as follows: 490 feet long, parallel with current, by 300 feet, the whole to a depth of 12 feet below extreme low water level.

The site of dredging done is some 1,500 feet northwest from Canada Steamship Lines wharf, at Longueuil, in the St. Lawrence.

Owing to the fact that the site of dredging done is surrounded by deep water, with heavy current, the probable duration of the improvement will be forever; but every spring iee-shoves may carry big boulders and other material into dredged area.

To complete, as originally proposed, will require the removal of 18,106 yards, place measurement, or 24,141, scow measurement. The material to be removed is clay, sand, boulders, and hardpan, easy to dredge with a powerful plant. Dimensions of work to be done, 450 feet long, parallel to current, by 350 wide, to a depth of 12 feet clear below extreme low water level, or zero of gauge at Longueuil.

(a) Longueuil Garage.—From May 29 to May 30, departmental dredge No. 110, and June 9 to 17, departmental dredge No. 119, removed some 1.498 cubic yards, scow measurement, in completing light-craft channel leading to Longueuil garage. Material removed: clay, boulders and hardpan, hard to dredge and at the same points the dredge struck rock, leaving hardly 2 feet of water at low level.

Dredge No. 110 removed 534 cubic yards, seew measurement. Hours of actual dredging, 9; cut, 37 to 40 feet wide; face removed, 3 feet; distance advanced, 330 feet.

Dredge No. 119 removed some 964 cubic yards, seew measurement. Hours of actual dredging, 51; cut. 25 feet wide; face removed, 2½ to 4 feet; distance advanced, 293 feet.

Dimensions of work done: one cut, 350 feet long, alongside Canada Steamships Lines' wharf, by 25 feet wide at bottom to a depth varying from 2 to 5 feet.

The site of dredging accomplished is immediately downstream of Canada Steamships Lines' wharf, and starts at some 230 feet from face of said wharf.

Owing to the fact that the site is well protected from storms, and absolutely no current, the probable duration of improvement will be forever.

(d) Government Wharf.—From August 1 to August 4, departmental dredge No. 119 removed some 179 cubic yards, scow measurement, in removing two small

shoals in front of government wharf. Hours of actual dredging, 21; cut, 20 feet wide; face removed, from 1 to 1½ feet; distance advanced, 230 feet; dumping ground, 6 miles return, downstream, on the northwest shore of river St. Lawrence, below Racine pier.

The probable duration of work done will be for over thirty years.

To complete, as originally proposed, will require the removal of 11,626 cubic yards, place measurement, or 15,501 cubic yards, scow measurement. Material to be removed is clay, sand, and gravel, easy to dredge.

Dimensions of work to be done: 200 feet in front of wharf by 650 feet outer by 320 feet deep, to a depth of 12 feet below extreme low water level, or zero of gauge at Longueuil.

MONTREAL.

Point St. Charles.

Grand Trunk Boating Club.—Grand Trunk clubhouse is situated on the northwest side of river St. Lawrence, opposite Nun's island, near the north boundary line of city of Verdun, some 1½ miles upstream of Victoria bridge.

The object of this dredging was to increase the flowing section of the river between Grand Trunk boating clubhouse and Price island.

From May 18 to July 3 departmental dredge No. 121 worked here and removed some 6,495 cubic yards, scow measurement, in completing an improvement below the clubhouse and along Price island. Material: Clay, sand, boulders, and hardpan. The number of cubic yards, in situ, corresponds to scow measurement, with an expansion factor of 33½ per cent for conversion into scow measurement. Hours of actual dredging, 288; cut, from 15 to 22 feet wide; face removed, from 1½ to 7 feet; distance advanced 2,349 feet; distance to dumping ground, 1 mile upstream in a deep place, close to Nun's island.

Dimensions of work done: a cut, 300 feet alongside Price island, by 250 feet across; immediately below clubhouse, 185 feet along shore by 80 feet wide, and below ice-houses wharf, the removal of a shoal 130 feet long parallel with dyke by 60 feet wide, the whole to a depth of 5 to 6 feet below low water level.

Owing to the fact that the site of dredging done is well protected from storms, material removed very hard, the duration of the improvement will be for ever.

NOTRE DAME DES SEPT DOULEURS.

Isle-Verte, or Notre Dame des Sept Douleurs, in the county of Temiscouata, is an island of the St. Lawrence, situated opposite the parish of Isle-Verte, on the south shore of the St. Lawrence.

· In order to accommodate the inhabitants of Notre Dame des Sept Douleurs, Isle-Verte, the construction of two small wharves, one at the extremity of the island, was started in 1914-15, but was not completed. During the last fiscal year, the work on the two shore sections already built, was resumed to their completion.

East.—The section built at the lower end of the island, being 61 feet long, 21 feet wide at the top, with a batter of 1 in 12, was completed by the addition of the stringers, flooring, and cap pieces. Its total height being now 13 feet.

Four mooring iron rings, together with three ladders, were placed on the wharf. The earth approach was graded on a length of 150 feet and a wooden railguard 120 feet long was placed alongside.

West.—The section built at the upper end is 72 feet long at the top and 30 feet at the bottom, the width being 20 feet at the top with a batter of 1 in 12.

The height not having been found sufficient, one row of face-timbers was added during the present fiscal year, and the stringers, flooring and cap pieces laid on so as to complete the work.

The actual height of the wharf is 14 feet.

Four mooring iron rings were placed on the wharf, and the approach was somewhat improved.

These works were carried on by day labour during the months of July and August.

PORT LEWIS.

Port Lewis, a post village on lake St. Francis, in Huntingdon county, is 8 miles distant from Huntingdon.

During the year 1899 a right of way, together with an old wharf, were bought from Mr. Z. Caron for \$150.

During the present fiscal year a reinforced concrete wall, 18 inches thick at base, 9 inches at top and 6 feet 6 inches high, was constructed around the edge of the old crib from low-water level. A concrete flooring, 110 feet long, 6 inches thick, and 18 feet wide, was laid on the stone approach.

This work was done by day labour.

POUPORE.

Located on the lower reach of Riviere du Lievre 12 miles above Buckingham. The extensive landslide which took place in 1903 below the lock and dam at this place choked the river for a distance of over one-half mile, and, for a number of years, considerable dredging has been required to improve the channel.

Departmental dredge No. 102 worked at the new boat channel, started in 1915, from July 10 to October 31. During this period 25,673 yards of clay were removed in two single cuts of 30 feet, aggregating 3,078 lineal feet to grade 10 feet, except for the last 196 feet of cutting, which, owing to high water, was made to grade 8 feet only.

RIMOUSKI.

The town of Rimouski, chef-lieu of the county of the same name, is situated on the south shore of the St. Lawrence river, 180 miles below Quebec. The wharf, which is 2,240 feet long by 42 to 50 feet wide, constitutes, with the protection of the Island Barnabé, one of the best harbours.

A contract was entered into with Messrs. Raymon & Talbot, on March 21, 1914, at schedule price, for the construction of a line of cribwork and a tidal basin.

During the fiscal year 1916-17, the work done consisted in the building of the superstructure on the caissons already sunk, the lineal length of which aggregates 1,041-3 feet. Work is completed on the cribs uniting the old wharf with the new works, and on 524 feet of the 900 feet of caissons sunk in 25 feet of water L.W.S.T. The remaining part is also very nearly completed. Filling to the extent of 33,413 yards has been done. A good part of the basin has been dredged and 122,616 yards of material have been removed. The berth of the caissons remaining to be sunk has been cleared.

RIMOUSKI RIVER.

The work done at Rimouski, during the fiscal year 1916-17, consisted in the maintenance and renewing of the wharf and the breakwater at the mouth of the Rimouski river.

The flooring of the breakwater was partly renewed; a winch was placed; a wooden stairway was removed 40 feet to accommodate navigators, and a shed, 28 feet long by 12 feet wide, was built and placed on a trestle along the east side of the breakwater.

At the wharf, track foundations were renewed on a length of 116 feet; 3,000 square feet of flooring were replaced, three dectrical lighting and one mooring post were renewed; other minor repairs were also made.

RIVER ST. MAURICE.

Middle Channel.—The river St. Maurice flows through the Laurentide mountains, a distance of 360 miles, and discharges in the St. Lawrence river at Trois-Rivières. The outlet is divided, by islands, into three branches, called the Eastern, the Middle, and the Western channels.

Last season the dredging was done as follows: Cutting of sand and clay shoals to help the floating of logs, at foot of Ile Christophe, and 66,840 square feet at 4 feet below zero, east of Ile Caron, and digging a channel 620 feet long by 60 feet wide by 8 feet below zero, near the foot of Ile Wayagamack; also digging of channel 150 feet long, averaging 60 feet wide at 8 feet below zero to the west of Ile Caron.

This dredging has been executed during the last season by dredge Capital. The total material removed was 25,448 cubic yards of clay and sand, completing the total yardage to be dredged as per agreement entered into with the department the previous year.

The work was started on May 4, and completed July 3, 1916.

Western Channel.—The department decided to dig a channel 80 feet wide and 14 feet deep at low water, from the St. Lawrence river to the wharf, and dredge out a basin in front of it. A contract was entered with "La Compagnie Générale d'Enterprises Publiques" of Lévis, Que., dated September 27, to do this work.

During the last season, only a portion of the contract was finished. The dredge New Welland made a cut 963 feet long by 80 feet wide to 14 feet deep at low water of the said channel, and a part of the said basin; this part dredged is 523 feet long, having an upstream width of 215 feet, a downstream width of 60 feet, and a depth of 14 feet at low water. The work was started November 4, and discontinued October 25, 1916.

RIVER CHICOT.

River Chicot is a creek draining farm lands, about 12 miles northwest of the St. Cutbert station (on the Montreal-Quebec, Canadian Pacific Railway main line) and running southeast of St. Cutbert for a distance of 4 miles, into river St. Lawrence, northwest branch, 4 miles downstream, of Berthierville.

From October 12 to November 4 departmental dredge No. 119 removed some 5,855 cubic yards, scow measurement, of clay and sand, in completing an 8-foot channel and begin

Hours of actual dredging, $158\frac{1}{3}$; cut, from 10 to 20 feet; face removed, from $3\frac{1}{2}$ to 10 feet; distance advanced, 1,400 feet; dumping ground, half mile downstream in a deep place close to southwest shore of river St. Lawrence.

Dimensions of work done: a channel, 560 feet long, parallel with river Chicot, by 50 feet wide average, and supplementary cut, south of dredged channel, 100 feet long by 10 feet wide which cut was made in cast-over and material thrown on upstream side of river Chicot. The number of cubic yards east-over is 200; this material will be levelled by farmers in order to facilitate loading of hay.

The channel has been dredged to a depth of 8 feet below extreme low water level, corresponding to 30 feet on marine gauge, at Sorel, Que.

The site of dredging done is immediately southeast or downstream of public road, in river Chicot.

Owing to the fact that river Chicot carries sediments, etc., the probable duration of improvement will be eight to ten years.

RIVIÈRE-DU-LOUP (EN HAUT).

Dredging.

The river flows through the county of Masginongé, and discharges into lake St. Peter, 21 miles above Trois-Rivières. It is navigable on a distance of about $3\frac{1}{2}$ miles from the lake to the town of Louiseville.

During the last season dredging was performed from Tourville's mill to the lake, to maintain a 7-foot boat channel above low water. The dredge was placed at four different places, and dredging was done as follows: Two cuts 55 feet wide to 7 feet

below zero, giving a total length of 1,402 feet in channel and in front of wharves; a cut 100 feet by 40 feet by 7 feet below zero; a cut 350 feet by 40 feet by 7 feet below zero; and a cut 1,530 feet by 40 feet by 7 feet below zero, all south of the first cut.

The total lengths dredged are 1,402 feet by 55 feet and 7 feet below zero, and 1,980

feet by 40 feet by 7 feet below zero.

The quantity removed was 4.964 cubic yards, scow measurement, and 6,972 cubic

yards cast over, making a total yardage of 11,936 cubic yards of clay.

The work performed by dredge P.W.D. No. 106 was started September 18, and completed October 25, 1916.

RIVIÈRE DU MOULIN.

Rivière du Moulin is a municipality adjoining the town of Chicoutimi, and is

situated on the south side of the Saguenay river.

During the present fiscal year the protection work along the bank of the Saguenay river, commenced in 1913, has been completed; 301 feet of cribwork, averaging 9 feet in height by 6 feet at the bottom, has been built, and back filling has been placed for a distance of 576 feet.

The work was carried out by day labour.

RIVIÈRE-OUELLE.

The pier is situated at Pointe des Orignaux, 5 miles distant from the village of Rivière-Ouelle, in the county of Kamouraska, on the south shore of the St. Lawrence, opposite Murray Bay.

The wharf, which is 1.162 feet long, together with a head block of 240 feet by

50 feet, is subject to very severe use, owing to the considerable traffic over it.

During the last fiscal year work was commenced and the western half of the superstructure of the head of the wharf, 112 by 50 feet, was renewed upon a depth of 6 feet, not a single piece of old timber being left. About 60,000 feet, b.m., lumber were used for this work.

A considerable quantity of stone ballast, mixed with earth, had to be taken out to allow the proper execution of the work which, on the other hand, was rendered

more difficult and expensive on account of the buildings to be dealt with.

The old shed was removed and replaced on the new work, the coal shed was repaired and new foundations were provided under the lighthouse.

The hardwood sheathing of the western corners of the outer block was repaired

and other minor repairs were performed on the wharf.

These works were commenced on 1st July and completed on 12th October.

RIVER SAGUENAY.

Dredging.

The channel under way in the Saguenay river starts from the town of Chicoutimi

down to the foot of the Battures, a distance of 8 miles.

The object of the dredging is to provide a channel, 250 feet in width on the tangent, and 350 to 500 feet in width in the curves, affording a minimum depth of water of 16 feet at extreme low water.

During the present fiscal year the departmental dredge No. 115 removed 67,746

cubic yards, scow measurement.

Operations were started June 12 and suspended October 28, and consist in the dredging of a cut on the south side of the section from opposite river Lachance to below river Caribou, and half a cut on the north side, eastward across the river.

The channel was also cleared up of horse backs and lumps opposite river Valin and river Gauthier, and east of there two cuts were dredged in the centre of the channel. This section was particularly the hardest, as far as the performance of the work is concerned, of the whole channel, on account of the swift current.

The material removed was mostly clay, with a few boulders, excepting in the last location where there was a great quantity of boulders. Since the beginning of the work the channel from Chicoutimi down almost to Rivière au Foin is clear of all obstructions and affording a minimum depth of 16 feet at extreme low water, on its full width.

ST. ANNE DE BELLEVUE.

St. Anne de Bellevue, a town in Jacques Cartier county, at the confluence of the rivers St. Lawrence and Ottawa, and the Grand Trunk railway and Canadian Pacific railway, 21 miles west of Montreal.

The object of this dredging is to do away with present channel leading through Becker's dam, which is the cause of serious delay to boats, and especially tows going up and down Ottawa river.

Becker's dam has to be rebuilt, both sides, on the whole length.

From June 6 to October 31, departmental dredge No. 123 removed some 33,978 cubic yards, scow measurement, of clay, sand, boulders, hardpan, and rock in making a new 10-foot channel. Hours of actual dredging, 986½; cut, from 13 feet to 39 feet; face removed, 4 to 10 feet; distance advanced, 2,979 feet; distance to dumping ground within 2 miles, in a deep place along Ile Perrot islets, some 1,500 feet south of present channel. The material removed here was so hard that dredge No. 123, starting work at 7 a.m. with a new set of manganese steel teeth, and working whole day, removed only 100 cubic yards of split rock, in pieces varying from 1 to 4 square feet; the rock removed is white granite, and by night the set of teeth was worn out. So far not one pound of explosive has been used, although the dredge has been able to reach the required depth.

Dimensions of work done during season 1916 are as follows: One cut 150 feet wide at bottom by 570 feet long to a depth of 10 feet clear at low-water level.

Site of dredging extends below Ste. Anne's lock, from opposite the head of Becker's dam, going southeastward, and well protected from storms.

Owing to the fact that the site of dredging is well protected from storms, nearly no current and hard material, the probable duration of the improvement will be thirty years.

To complete channel, as originally proposed, will require the removal of 12,156 cubic yards, place measurement, of solid rock, and 63,285 cubic yards, place measurement, of sand, clay, boulders, and hard-pan.

Dimensions of work to be done: 2,300 feet long by 200 feet wide to 10 feet at low-water level, corresponding to 9 feet on lower sill, Ste. Anne's lock.

Owing to hard material, to complete a 10-foot channel, will take about two to three working seasons for a dredge of the "123" type.

STE. ANNE DES MONTS.

Ste. Anne des Monts is an important municipality, 54 miles below Matane, on the south shore of the St. Lawrence river.

During the last six months a landing pier, 1,540 feet long and 32 feet wide at top, giving 31 feet of water at L.W.S. at outside end and 10 feet of water L.W.S. at a distance of 430 feet from outside end towards shore, was completed, at a total cost of \$112,000; that is 40,000 yards at \$2.80 per cubic yard.

STE. ANNE DU SAGUENAY.

Ste. Anne du Saguenay, Chicoutimi county, is situated opposite the town of Chicoutimi; it is an important farming place, with a population of about 2,000. There is a ferry plying every half hour between the two places.

During the present fiscal year an addition of 340 feet by 25 feet, and 125 feet by 20 feet, has been built. It is an ordinary construction on piles with the exception that the portion of 125 feet where the foot of the piles is protected by a round-timber construction. The head block has been raised 2 feet; floor and stringers renewed over an area of 1,860 square feet; on the approach, stringers to raise the floor have been placed over an area of 2,750 square feet; movable slip, 53 feet long and 12 feet in width, has been placed, and freight shed has been entirely repaired and painted.

The work was carried out by day labour, was started in June and suspended on 22nd December.

ST. FULGENCE.

St. Fulgence is a parish of about 1.200 inhabitants, situated on the north side of the Saguenay river, about 9 miles below Chicoutimi; a boat plys daily between that place and the town of Chicoutimi.

The wharf consists of a head-block 75 feet by 43 feet, and piers of 25 feet by 20, spaced 25 feet from each other and spanned over by flooring and stringers.

During the present fiscal year the superstructure of the head-block and two of the piers were renewed on an average height of 4.5 feet; stringers and flooring have been renewed over a distance of 225 feet by the full width of the head-block and approach.

The work was carried out by day labour, was commenced on 1st August and completed on 1st December.

ST. GREGOIRE (SAULT MONTMORENCY).

St. Gregoire is situate in the county of Quebec, on the north shore of river St. Lawrence, about 9 miles below Quebec. Population, 2,500.

During the past season the wharf at St. Gregoire was completed. This involved the placing in position of 450 cubic yards of cribwork filled with stone; 150 square yards 3-inch spruce flooring, including floor stringers; and 21 square yards 6-inch hardwood sheathing.

STE. JEANNE DE L'ILE PERROT.

Ile Perrot is situated on lake St. Louis, in river St. Lawrence, between Beauharnois and Ste. Anne de Bellevue, at the western extremity of the island of Montreal.

The object of this dredging was to give a swinging basin downstream of present wharf (built in 1915) in order that boats may take the range of channel to leave.

From 28th June to 25th July, 1916, departmental dredge No. 719 removed 4,979 cubic yards, seew measurement, of clay and boulders, in completing an 8-foot basin, downstream of government wharf. Hours of actual dredging, 173; cut, from 20 to 25 feet; dumping ground downstream of dredged channel, below a ridge interfering neither with navigation nor ice.

Dimensions of work done: one cut 210 feet long, parallel with channel, by 50 wide, at its narrowest; another cut, starting at 150 feet from wharf, upstream of present channel, 90 feet long by 20 wide; the whole to a depth of from 6 to 7 feet below extreme low water, 7 feet 3 inches below top of wharf.

Owing to the fact that the site of dredging done is well protected from storms, and no cross currents, the probable duration of the improvement will be forever.

ST. JOHNS.

A delightfully situated town of Quebec, "chef-lieu" of the district of Iberville, on the Richelieu river, 27 miles from Montreal.

During last February and March the protecting pier or ice-breaker on which is built the lighthouse, was rebuilt from extreme low-water level. Three steel plates, 7 feet long and 4 feet wide, were placed to protect the new construction.

This reconstruction was done by day labour.

ST. ROCH.

St. Roch de Richelieu, a post village in Richelieu county on the Richelieu river and on the Quebec and Saguenay railway, 11 miles from Sorel.

In the present fiscal year the Dominion Government bought two plots of land adjoining each other, one from Mad. J. B. Paquette, including a small wharf, 17 feet wide by 23 feet long. This piece of land has a frontage on the river of 75 feet, and reaches back to St. Ours street, a distance of 84 feet from the water's edge, and has an area of six thousand five hundred and seventy-eight square feet (6.578), more or less.

The other one from M. A. Giard, has a frontage on the river of 75 feet, an average depth of 71 feet, and an area of five thousand three hundred and twenty-five square feet (5,325), more or less.

These two plots of land, including the wharf, were bought for \$600.

Repairs were made to the wharf, a new wooden flooring was laid on the headblock and approach, stringers were replaced, a new cap-piece was made, and the slope of the slip was altered.

This work was done by day labour.

TROIS-RIVIÈRES.

The city of Trois-Rivières, on the northern bank of the river St. Lawrence, is situated midway between Montreal and Quebec. Population, 22,000 inhabitants.

The new coal dock, 640 feet long, with an ice-breaker and a railway embankment, is built at the Western Section of the harbour. Work started in 1910 and was completed in 1914.

During the fiscal year repairs were undertaken in the superstructure and embankments. The following materials were used:—

Stone.—One hundred and twenty-two toise of stone were placed as a protection along the eastern and western embankments, also inside of the cribs where settlement has occurred on a length of 640 feet, a width of 16 feet and a depth of 3 feet.

Piles.—Piles were placed on the outside face of the timber dock, on a length of 40 feet. An open joint existing between two cribs of the structure was closed with square and round piles. Fifty pitch-pine poles, 50 feet long, 12 by 15 inches, were used in all.

Filling in.—A washout having occurred in the earth embankment, a bed of facines was placed on a surface of 150 by 80 feet, covered with 100 toise of stone. 300 cubic yards of blue clay, and 2,850 cubic yards of earth.

Flooring.—Fifteen thousand feet b.m. of 3-inch hemlock was placed to renew part of the flooring, and a large portion of the latter was re-levelled.

The stone and earth were delivered by agreement between the department and Mr. David Larivière, and the work was done by day labour.

VERCHÈRES.

Verchères, a post village in Verchères county, on the St. Lawrence river and on the Quebec, Montreal, and Southern railway; twenty-one miles from Montreal.

The public wharf built in 1905 consists of:-

(a) A pile headblock, 116 by 40 feet;

(b) A pile approach, 136 by 29 feet, including an icebreaker;

(c) A shed, 48 by 18 feet, and

(d) The stone approach, 200 by 18 feet.

The wharf was carried away by the ice shove this spring. In order to use the wharf during the last navigation season, minor repairs were made. The worst part of the wharf was reinforced and the approach repaired..

VERDUN.

Dredging.

The object of this dredging was to facilitate the passage of ferry boats between public wharfs at La Tortue and Verdun, a distance of $3\frac{1}{2}$ miles.

From July 6 to November 8, departmental dredge No. 121 removed some 11,115 cubic yards, scow measurement, of clay, sand, boulders, and hardpan, in making an 8-foot channel and 7-foot basin. The number of cubic yards in situ corresponds with scow measurement with an expansion factor of 33\frac{1}{3} per cent for conversion into scow measurement. Hours of actual dredging, 809\frac{1}{2}; cut, from 12 to 22 feet wide; face removed, from 1 to 6 feet; distance advanced, 7.583 feet.

Dimensions of work done: Cleaning of a basin immediately downstream of Verdun wharf, on a length of 100 feet alongside the bank by 50 feet wide average; a shoal 2,100 feet from Verdun wharf, 350 feet long by 60 feet wide; opposite cast-over, left years ago, or 1 mile from Verdun wharf, on a length of 380 feet for the upstream side by 200 feet for the downstream by a width of 250 feet; 1,400 feet from cast-over, 150 feet long by 50 feet wide; a basin immediately downstream of La Tortue wharf, 110 feet alongside wharf approach by 60 feet wide along shore, and in front of said wharf, cleaning of numerous boulders on an area of 100 feet. The whole to a depth of 8 feet below extreme low water level, for the channel, and 7 feet clear for basin.

Owing to hard material, site reasonably protected from storms, the probable duration of the improvement will be for over, twenty years, but stones may be deposited in ferry channel every spring by ice shove.

ONTARIO.

BAYFIELD.

Bayfield, in the county of Huron, is situated at the mouth of the Bayfield river, where it empties into lake Huron.

Repairs were made to the north pier by day labour; work was commenced September 5 and completed December 7, and consisted of the following: Construction in concrete of a wall 60 feet in length in the inner face of the north pier. The sheet facing on the inner side of the south pier for a distance of 310 feet was secured. An effort was made to save the outer end of the north pier by timbering, but owing to stormy weather, a section about 90 feet in length was washed away to below water level.

BELLEVILLE.

Belleville, in the county of Hastings, is situated at the mouth of the Moira river, which empties into the bay of Quinte.

A contract, dated March 6, 1916, was let for the construction of a warehouse; work was commenced April 20 and final estimate given July 3.

The building for which the above contract was let consisted of a baggage-room, waiting-room, and freight shed, 114 by 45 feet, with a metal shingle roof.

By Order in Council, dated October 12, 1916, the wharf and other structures were handed over to the Belleville Harbour Commission for maintenance and operation under certain conditions, the temporary light and its operation being also transferred.

BLACK RIVER.

Black river, in the county of Ontario, flows through the townships of Dalton and Rama, before emptying into the Severn river.

Until September 1 this department controlled the operation of the stop-logs in the dam at the junction of canal and Black river, in lot 17 in the 6th concession of Rama. On the above date, an Order in Council was passed transferring the control of this dam to the Department of Railways and Canals.

BOBCAYGEON.

Bobeaygeon, an incorporated village of 1,200 people, is situated 20 miles northeast of Lindsay, on the Canadian Pacific railway.

The work of constructing a floating wharf by day labour was commenced September 1, completed November 29, and consisted of a wharf 40 feet in length, 14 feet in width, and 2 feet 3 inches in depth; two anchorage pedestals were also constructed in concrete 4 by 4 feet, and landing-way 5 feet in length by 4 feet in width.

BRACEBRIDGE.

Bracebridge, township of Macauley, district of Muskoka, is a town of 3,500 population, situated on the north branch of the Muskoka river, 5 miles above its discharge into Muskoka lake.

The renewal in concrete of the wooden superstructure in the old wharf was performed by day labour; begun June 16, and completed December 31, 1916, consisted of the removal of all the old superstructure down to low water level, being 150 feet in length and 20 feet in width, and replacing same by concrete walls, stone-filled heart and concrete deck, and the replacing of the shelter and warehouse.

BRUCE MINES.

Bruce Mines is a town of about 700 in population, situated on the north shore of the north channel of lake Huron, on the line of the Canadian Pacific railway, about 40 miles easterly from Sault Ste. Marie.

Work of repair by day labour was commenced on 7th June, 1916, and completed on 13th January, 1917.

This wharf was built about the year 1903-04, and consisted of a stone approach 500 feet long by 20 feet wide; a pilework approach 450 feet long by 20 feet wide; and a combined crib and pilework head-block about 91 feet square. The work performed during the fiscal year 1916-17 consisted of the complete reconstruction of the wooden superstructure, excepting 350 feet of the inner end of the pile-work approach, which has been entirely replaced by stone-fill; the warehouse was enlarged

and reconstructed, and a small boat landing, 100 feet in length, constructed along the east side of the pile-work approach.

BURLINGTON.

Burlington, in the county of Halton, is situated near the westerly extremity of lake Ontario, about 30 miles west of Toronto, on the Grand Trunk and Canadian Pacific railways.

Work on the revetment wall was resumed on July 15, final estimate given on November 16, and consisted of the placing of 2,273 cubic yards of talus stone on outside of revetment wall and small items of work necessary to the satisfactory completion of the contract.

BURLINGTON BAY (ELSINORE WHARF).

Elsinore wharf is an old wharf situated on Burlington bay, about three-quarters of a mile from Burlington channel.

The removal of the above wharf, 400 feet in length by 20 feet in width, was commenced by day labour, June 20, and was completed July 13.

BURLINGTON CHANNEL.

Burlington channel, in the county of Wentworth, is simply a dredged channel through a low-lying piece of land, known as Burlington beach, connecting lake Ontario with Burlington bay.

To repair damage to site of Royal Hamilton Yacht Club, work was commenced August 10, completed September 7, and consisted in filling in the site with 800 cubic yards of sand, levelling, and top-dressing same. A picket fence was constructed along the pier and along the roadway to protect the public from the end of the bridge when swinging.

The bridge opened for the season April 7 and closed December 23.

Dredging.

In order to complete the removal of the shoal at the lake end of the channel, that was begun in 1915-16, it was necessary that dredging operations be continued, and departmental dredge Quebec proceed with the work.

The removal of this material, commenced on July 10, was completed on August 16, and involved the excavation of 16,503 cubic yards, place measurement, or 22,330 cubic yards, scow measure, in securing a depth of 20 feet below zero level of lake Ontario. The area worked over extended from between the piers at the east end into lake Ontario for a distance of 730 feet, the width varying from 165 feet to 290 feet at the east end of the cutting.

COBOURG.

Cobourg, in the county of Northumberland, is situated on lake Ontario, on the Grand Trunk, Canadian Pacific, and Canadian Northern railways.

Work was commenced by day labour on June 19, completed October 31, and con-

sisted in the following improvements:—

A section of old crib superstructure on east pier, 106 feet in length by 33 feet in width, was removed to a depth of 1 foot below zero of gauge, and was replaced by concrete superstructure, consisting of concrete blocks, reinforced mass concrete, 10-inch by 12-inch oak walling and two east-iron nigger heads weighing approximately 400 pounds each.

A section of checkwater, 28 feet in length at extreme west end, was entirely removed by dredging.

The superstructure on the next 50 feet adjoining removed section was torn down to one foot below water level and replaced with concrete superstructure, the outer 16 feet being at elevation of 252 above mean sea-level, and balance of 50-foot section, at elevation 250.2 above mean sea-level.

The work on checkwater commenced on September 15, and was completed November 16.

On the west side of east pier, a section, 45 feet in length at east end of checkwater, was repaired, consisting of renewal of face timbers, cross-ties, and back-filling.

Dredging.

Authority was given to have the R. Weddell Company complete the removal of the 11,612 cubic yards, place measurement, remaining from the quantity arranged for in the previous year; and an additional 10,000 cubic yards, place measurement, was authorized to complete the improvements. The entire quantity was removed for 20 cents per cubic yard, place measurement.

Work was commenced on May 24, completed on August 17, and consisted in providing depths varying from 16.5 to 17.5 feet below zero over irregular areas, and required the removal of 21,880 cubic yards, place measurement.

COLLINGWOOD.

Collingwood, in the county of Simeoe, is located on the Georgian bay, and is a station on the Grand Trunk railway, 95 miles northwest of Toronto.

In order that vessels might enjoy full benefit of the dredging done by the department in 1913, it was considered essential to the interests of navigation that an additional quantity, estimated at 19,600 cubic yards, place measurement, be removed in widening the entrance channel to the harbour where same curves and the range lines change.

Authority for the removal of this yardage by departmental dredge *Industry* was given and work was commenced September 23, completed October 25, and consisted in the removal to a depth of 20 feet, 15,874 cubic yards, place measurement, of clay, hardpan, and small boulders in enlarging the area dredged in 1913, on the east side of the curve in the entrance channel.

FORT WILLIAM.

Fort William, district of Thunder bay, a city of 18,850 people, is situated at the mouth of the Kaministikwia river, near the northwest end of lake Superior. Contract was extended with the Thunder Bay Contracting Company, Limited, for the construction of 2,300 lineal feet of quay walls at the mouth of the Mission river, so as to include the placing of approximately 6,000 cubic yards of additional stone filling, which was found to be required in cribs Nos. 89 to 100, inclusive.

Authority was received to proceed with the rectification of cribs Nos. 101 to 105, inclusive, the work to be performed by the Thunder Bay Contracting Company, Limited, on the basis of cost, plus 10 per cent.

The work of placing the additional stone filling in cribs Nos. 89 to 100, inclusive, was performed between July 25 and August 11 last, a total quantity of 5,336 cubic yards being placed at the contract rate of \$1.30 per cubic yard. Operations in connection with the rectification of cribs Nos. 101 to 105, inclusive, were commenced on October 14, and were closed down for the season on December 9 last. The work performed in this connection to date consists: (1) In the removal of the concrete

superstructure on cribs Nos. 102 and 103; (2) in the dredging in rear of the cribs to be rectified to a depth of about 35 feet below L.W.L.; and (3) in the placing of heavy weights along the rear half of cribs Nos. 102, 103 and 104, so as to cause them to settle back into line. The operations referred to proved effective, and a muchimproved alignment of these cribs was obtained. The weights were then removed and a certain amount of back filling was replaced in rear of the cribs in order to hold them in place. The work of rectification should be completed early during the coming season.

Dredging.

Dredging was performed in this harbour during the present season, under contracts Nos. 7170 and 7339, by the Great Lakes Dredging Co., Limited.

The object in doing the work performed, which was embraced in the above contracts, was to continue the development of the harbour to the depth and dimensions adopted by the department in 1908, in order to provide ample accommodation in all portions of the harbour for safe navigation by the largest freighters on the Great Lakes..

Extent of harbour, 13.02 miles of navigable channels, varying in depth from 20.0 feet to 27.0 feet and in width from 175 to 600 feet excepting through bridge spans.

Total area of present harbour, 805.0 acres.

Total area removed by dredging, 353.6 acres.

Harbour frontage available for dockage, exclusive of frontage in Thunder Bay, 22.2 miles. Frontage already built up with wharves and retaining walls, 7.62 miles.

Contract No. 7170.—Dredging under this contract was performed by dredge No. 5 between June 3 and June 13 last, when the removal of the quantity authorized, namely, 12,422 cubic yards, scow measure, was completed. This work consisted in the removal of certain shoals to a depth of 25 feet below L.W.L. in the Grand Trunk Pacific terminal basin adjacent to the Mission channel.

The total quantity removed under this contract was 12,422 cubic yards, scow measure, which consisted almost entirely of class "B" material.

In connection with this contract, it might be stated that prior to the current fiscal year, a total quantity of 7,124,248 cubic yards, scow measure, had been dredged at a total cost of \$1,515,089.16, so that the total quantity removed on the completion of this contract is 7,136,670 cubic yards and the total expenditure \$1,517,147.96. In this work, a total area of 22,587 square feet was dredged and the average depth of cutting, allowing for 10 per cent expansion from place to scow measurement, was 1.34 feet.

The following unit prices obtained in this contract, viz.: Rock, \$2.85 per cubic yard, seew measure; all other materials, 16 cents per yard. Extra haul, 1 cent per cubic yard per mile over 3½ miles.

Contract No. 7339.—Dredging under this contract, which consists in widening and deepening the Kaministikwia and Mission rivers, was performed by dredges Nos. 5 and 6 and Dominion, and by clam-shell scow Empire, between the following dates: Dredge No. 5, between June 14 and November 25; dredge No. 6, between June 3 and October 4. scow Empire, between June 7 and September 15, although the operations of this scow were not continuous: dredge Dominion, between June 3 and December 9. Authority was received authorizing the removal of 276,941 cubic yards, scow measure, from the areas covered in the original contract, and 1,493,819 yards from the West Fort basin. An additional quantity of 250,000 cubic yards was authorized for removal from the former areas. The total quantity removed under this contract during the current season was 1,418,319 cubic yards, scow measurement, consisting entirely of class "B" material.

The work performed was as follows:—

Kaministikwia river.—The turning basin at West Fort William was made much larger, about 16 aeres included in the second expropriation being removed, and there now remains only about 1 aere, which will be removed during the eoming year. Almost the whole of the West Fort basin has now been exeavated to a depth of 25 feet below L.W.L., but it is found as a result of soundings taken during the past winter that there has been a large amount of filling-in over the area dredged last season. Such filling-in is due to bank slides and sedimentation. In this work, 940,973 cubic yards of sand and clay were removed.

The river was deepened along its south bank, where shoals had formed and slides had occurred, over an area extending from the bend in river below the West Fort turning basin to the Imperial Oil Company's property, a total quantity of 87,923

eubic yards being removed.

Small shoals were also removed on the south side of the river between the Canadian Pacific railway bridge, over this river, and the McKellar river, a total quantity of 4.489 cubic yards being removed.

A large area of the river was scraped and deepened where shoals had formed, extending from a point approximately opposite elevator "B" to the inner end of the Empire elevator wharf, the total quantity removed being 115,211 cubic yards.

The entrance channel to this river in Thunder bay was deepened and completed during the present season so as to have its full depth of 25 feet below L.W.L. for a total width of 600 feet. The actual dredging operations in this case were confined to the northerly half of the channel, and the total quantity removed by the dredge *Dominion* was 103,689 cubic yards.

The total quantity removed in widening and deepening under this contract in the Kaministikwia river during the present season was 1,252,285 cubic yards.

Mission River.

Deepening was performed, including the removal of a few shoal spots over a small area of this river fronting the Canada Starch works, and a few shoal spots were also removed near the junction of this river with the Kaministikwia river. The quantity removed was 9,984 cubic yards.

The whole of the entrance channel to this river in Thunder bay was seraped and deepened to a depth of 25 feet below L.W.L., excepting over a small section of the channel adjacent to the Mission River revetment wall, which forms its southerly boundary. The total quantity removed in this work was 156,050 cubic yards.

The total quantity removed in the Mission river under the above contract during

the season was 166,034 cubic yards.

In the work performed under this contract, exclusive of the dredging performed in the West Fort turning basin, an area of 5,297,163 square feet, was dredged and the average depth of cutting, allowing for 10 per cent expansion from place to scow measurement, was 2.21 feet. In the West Fort turning basin in the total area dredged was 1,693,775 square feet, while the average depth of cutting after allowing 10 per cent for the expansion factor, was 13.6 feet.

In connection with Contract No. 7339, it might be stated that prior to the current fiscal year a total quantity of 12,934,065 cubic yards, seew measure, has been dredged at a total cost of \$2,122,595.56, so that the total quantity removed to date under this contract is 14,364,806 cubic yards, and the total expenditure \$2,373,901.93. Of the quantity authorized for removal under this contract, the balance to be moved at the end of the current fiscal year is 602,441 cubic yards, of which 552,846 yards is to be moved in connection with the extension authorized in the West Fort turning basin. It might also be pointed out that in order to complete the work originally contemplated in connection with this contract, additional authority for the removal of 1,235,152 cubic yards is required.

The following unit prices obtain in this contract, viz.: Rock, \$2.40 per cubic yard, scow measure; all other materials, $10\frac{1}{4}$ cents for widening, and rock, \$2.85 per cubic yard, scow measure; all other materials, $22\frac{1}{2}$ cents for deepening. One cent per cubic yard, scow measure, per mile, over $3\frac{1}{2}$ miles of haul.

Synopsis of quantities of materials removed by the various dredges, operating in this district on the above contracts, during the current fiscal year:—

	Cubic Yards, Scow Measurement.
Dredge No. 5	407,014
" No. 6	350,613
" Dominion	
Clam shell Empire	36,338
Total	1,430,741

Synopsis of quantities removed by dredging under the above contracts in accordance with the respective locations of areas dredged:—

KAMINISTIKWIA RIVER.

Mission River. 156,050		C	ubic Yar	ds,
West Fort turning basin to Imperial Oil Company 87,923 C.P. Ry. bridge to McKellar river 4,489 Elevator "B" to Empire Elevator Co.'s dock 115,211 Northerly half of entrance channel 103,689 Total Mission River Entrance channel 156,050 G.T.P. basin 12,422 Kaministikwia river to Starch works 9,984 Total 178,4		Scow	Measure	ment.
C.P. Ry. bridge to McKellar river	West Fort turning basin		940,973	
Elevator "B" to Empire Elevator Co,'s dock.	West Fort turning basin to Imperial Oil Company		87,923	
Northerly half of entrance channel	C.P. Ry, bridge to McKellar river		4,489	
Total	Elevator "B" to Empire Elevator Co.'s dock			
Mission River. 156,050	Northerly half of entrance channel		103,689	
C.T.P. basin				1,252,285
Kaministikwia river to Starch works 9,984 Total 178,4	Entrance channel			
Total				
	Kaministikwia river to Starch works	• •	9,984	
Grand total	Totai			178,456
	Grand total			1,430,741

KAMINISTIKWIA RIVER.

		1	
	Width.	Least depth	Gen. depth.
	feet.	feet.	feet.
Entrance channel in Thunder bay. From Empire elevator, at mouth, to subway From subway to C.P. Ry. bridge. Through C.P. Ry. bridge. From C.P. Ry. bridge to Mission channel. From Mission channel to bend above elevator "D". At waterworks crossing above elevator "D". From waterworks crossing to G.T.P. bridge. Through G.T.P. bridge to upper end of C.N.R. coal wharf. At bend in river above C.N.R. coal wharf. Over the West Fort turning basin to the Mutual elevator.	550-600 400-350 350-300 110 300 300 175 400 90 350 200 1,300	23·2 23·2 20·0 20·6 20·3 22·0 21·0 22·5 18·4 23·3 23·2 20·3	26.0 26.0 24.0 22.5 25.5 23.0 26.0 26.0
Mission Channel.			
Entrance channel Least depth along revetment wall over a width of from 50 to 150 feet from face From entrance channel 1, 200 feet north of inner end of slip No. 3. From Fort William coal dock wharf to Fort William Starch works From Fort William Starch works to junction with Kaministikwia	300 350–400	$\begin{array}{c} 22 \cdot 2 \\ 21 \cdot 0 \\ 22 \cdot 0 \\ 22 \cdot 5 \end{array}$	$25 \cdot 5$ $25 \cdot 0$ $25 \cdot 5$
river. Shoal opposite down stream end of Starch works. G.T.P. turning basin, west of entrance channel. G.T.P. turning basin over area 150 feet out from limits. G.T.P. Slip No. 1, the most westerly slip west of turning basin. G.T.P. Slip No. 2, west of turning basin. G.T.P. Slip No. 3, the most northerly slip west of turning basin. G.T.P. Slip No. 3, over area 190 feet from limits. G.T.P. Slip No. 3, over area 190 feet from limits.		$ \begin{array}{c} 21 \cdot 0 \\ 22 \cdot 9 \\ \vdots \\ 22 \cdot 3 \end{array} $	$24 \cdot 0 \\ 26 \cdot 5 \\ 25 \cdot 0 \\ 24 \cdot 0 \\ 23 \cdot 6$
McKellar Channel.			
From Thunder Bay to C.P. Ry. bridge	350–400 70	$\begin{array}{c} 23 \cdot 2 \\ 22 \cdot 2 \end{array}$	26 · 0

From the above statement, it will be seen that a considerable quantity of material is still required to be removed in connection with certain works of widening that have not yet been attended to in the local harbour and in deepening other portions thereof. The widening still required to be done in this harbour is as follows: (1) The removal of a certain area of land in the Mission river, at present occupied as a service ground by the Thunder Bay Contracting Company, Limited, in connection with their construction work for the department on the Mission River revetment wall; (2) the removal of a small portion of land on the Kaministikwia river where the city water mains cross; and (3) the removal of a small area of land still required to be dredged in connection with the extension to the West Fort turning basin. The first and third of these items should be proceeded with during the coming season, but it will be impossible to attend to the second item until the city of Fort William lowers the water mains referred to, or otherwise alters their location.

The sections of the harbour that particularly require deepening are as follows: (1) Kaministikwia river from subway through Canadian Pacific Railway bridge to the Mission channel; (2) through the Grand Trunk Pacific bridge; (3) over the West Fort turning basin to the Mutual elevator; (4) Mission channel from the junction with the Kaministikwia river to the Grand Trunk Pacific turning basin.

As regards the probable duration of the improvements effected, continuous work will likely be necessary to keep the dredged areas at the required depth.

FREDDY CHANNEL.

Freddy channel (Honey harbour) is located in the township of Gibson, district of Muskoka, and is about 15 miles distant by water from Midland. It is one of the direct channels on the boat route from Penetanguishene to Parry Sound, and is patronized by tourists during the navigable season.

For the purpose of securing a depth of water in the channel to allow boats having a draught of 9 feet to navigate in safety, work was begun in 1915, when 2,900 cubic

yards, place measurement, was removed.

On May 23, 1916, authority was given to complete the work, and the Penetanguishene Dredging Co., Limited, resumed operations on May 23, and completed June 23, 1916.

The material removed consisted of 4,018 cubic yards, place measurement, class "B" material, clay, gravel, and boulders.

Shoal No. 1, eastward of Portage island, 409 feet in length, 50 feet wide, and dredged to a depth of 9 feet below zero of gauge.

Shoal No. 2, west of shoal No. 1, 215 feet long, 50 wide and dredged to a depth of

9 feet.

Shoal No. 3, opposite island No. 95, 918 feet in length, average width of 40, and dredged to a depth of 9 feet below zero of gauge, elevation 580.0, making a total length in the three shoals of 1,542 feet. The total area of work done is 51,015 square feet with an average cut of 2.13 feet.

The work is not permanent, being subject to filling in from northwest winds.

FRENCH RIVER-BIG CHAUDIÈRE.

Big Chaudière on the French river, 12 miles from its source, on lake Nipissing, 30 miles from Sturgeon Falls, 35 miles from North Bay, and 43 miles from Callander. The latter being the port best adapted for handling of heavy materials, freight, etc.

The construction of steel gates, towers, and operating machinery for the regulating dam across the Big Chaudière river, so as to regulate the level of lake Nipissing, was commenced August 1 and completed October 30, 1916.

Coffer Dam.

The construction of a coffer dam was undertaken to drain the site of the substructure, which was completed in October, 1915, and prepare the site for the erection of the superstructure. The original coffer dam was removed during the winter of 1916 in order to provide an outlet for the waters of lake Nipissing, which had reached an alarming level.

Work was done between November 1 and December 5.

Work was done enlarging the discharge section at the site of the original coffer dam built in 1914.

The discharge section at the site of the original coffer dam was made smaller than in a state of nature by rocks and sand accumulating in the bed of the river when the coffer dam was removed. This was dredged out to the original discharge area, by government dredge, from October 9 to November 4, 1916.

GODERICH.

Goderich, in the county of Huron, is situated at the mouth of the Maitland river,

which empties into lake Huron.

Work was resumed on the Bermingham contract on April 1, was completed and final estimate given on August 8, and consisted in the construction of the last 300 feet of the southwest breakwater, with a width of 30 feet, the construction being concrete caisson substructure and mass concrete superstructure.

Work on riprapping was commenced on October 2, was completed on October 31, and consisted in placing 1,046 tons, 75 pounds of riprap stone along the river breakwater.

Work on repairs to piers was commenced on August 10, continuing throughout the year, and consisted of the following:—

South Pier.

Patching decking of central and outer end to the extent of approximately 300 square feet, and patching the capping over same area to extent of 40 lineal feet with 12- by 12-inch timber.

At easterly end, commencing at concrete decking of Commercial dock, the two top-face timbers, including the capping, were completely renewed with 12- by 12-inch hemlock timber, for a length of 144 feet.

The decking commencing at the same point was renewed for 114.7 feet with 3-inch hemlock for a width of 3 feet, laid longitudinally with pier. Then 50.4 lineal feet laid crosswise of pier, at a width of 12 feet, and then 220.5 lineal feet laid crosswise of pier, at a width of 18 feet. The above decking includes sleepers and blocking.

Timber Dock.

Approximately 100 square feet of decking was patched, with the old planking taken from the south pier.

River Breakwater.

A new walk constructed of old south pier planking was built for 216 lineal feet, and 4 feet wide at outer end of river breakwater. Also 245 feet of new 12- by 12-inch hemlock capping was placed on the outer or river edge.

North Pier.

Approximately 100 feet of 12- by 12-inch capping was placed along the north pier in scattered positions, also 1,100 square feet of the decking was overhauled. This comprised levelling up, removing old decking, placing stringers where required and relaying decking. Some old planking was used again, but about two-thirds of the new decking, which was 2 inches thick, was entirely new.

The majority of the work was from about shore line outward for some 600 feet, and practically half the width of pier, but there were other scattered areas renewed.

Work on removal of checkwater was commenced July 13, was completed August 8, and consisted in removing, by dredging, checkwater crib 128 by 30 feet. Also the removal of 3,066 cubic yards of soft material.

HAMILTON.

Hamilton, in the county of Wentworth, is situated on Burlington bay, an inlet at the western extremity of lake Ontario, and is a station on the Grand Trunk and Canadian Pacific railways.

Authority was given for filling in behind revetment wall, in vicinity of Jutten and Marshall properties, said work to be done by the Ottawa contractors under agreement dated June 8. Work was commenced June 24 and was completed July 31.

To repair concrete on revetment wall, an agreement was entered into with the Ottawa contractors, under date of June 8, to do this work, which consisted in renewing surface in concrete of revetment wall, where required, also straightening channel bars.

Dredging.

Departmental dredge No. 117 commenced work on August 17, 1916, and continued until October 12, when the plant was transferred from this district, and on October 13 it was resumed with departmental dredge No. 114, which carried on until October 28. The quantity removed by dredge No. 117 was 59,086 cubic yards, scow measurement, and by No. 114, 3,264 cubic yards, scow measurement.

The removal of this total quantity of 62,350 cubic yards, scow measurement, resulted in the widening of the channel in front of the Oliver Plow Works from 40 to 100 feet for a length of 1,300 feet and to a depth varying from 19 to 20 feet below zero; the widening of the channel leading to the International Harvester Company by 80 feet for a length of 1,300 feet, and 40 feet for a length of 350 feet to a depth varying from 19 to 20 feet. In addition to this, an area 1,200 by 80 feet in dredged channel was cleaned up to a depth of 20 feet.

Owing to the silty nature of the material underlying a large part of the area gone over, it is expected that further dredging will have to be undertaken during the coming season.

HAWKESBURY.

Hawkesbury is located on the south shore of the Ottawa river, about 58 miles below the city of Ottawa.

In order to restore the navigable channel to Captain Lawlor's wharf, used for public traffic, departmental dredge No. 103 continued the improvements started last season. The dredge operated here from May 27 to October 31, under an agreement with the Riordon Pulp and Paper Co., Ltd. During this period, the total yardage removed was 36,703, scow measurement, of which 22,560 yards was waste pulp, 7,535 sand and gravel, 1,639 clay, 4,644 hardpan, and 325 yards of boulders. Eight single cuts, 25 feet wide, were made, aggregating 2,270 lineal feet to grade elevation 118 or original bottom of channel.

From November 13 to 16, departmental dredge No. 103 also removed 1,431 yards clay, in connection with the laying of new water main for the R. P. and P. Co., under an agreement with Fuller & Co.

KINGSTON.

Harbour Improvements, Combined Roadway and Wharf.

The object of this work is to provide bridges, roadway, and sidewalk for vehicular and pedestrian traffic over the Cataraqui river; also a wharf for general use of navigation in conformity with the plan for general improvements of Kingston harbour.

Work continued throughout the year, from April 1, 1916, to March, 1917, and has been completed.

Repairs to Temporary Bridge.

Driving a row of batter piles along both sides of bridge; building an extension to bridge for sidewalk and putting guard-rail along both sides of bridge so as to strengthen the bridge and make it safe for heavy traffic. Work was done from May 1 to October 15.

Highway Bridge.

This is a bascule bridge being built over the channel leading into the inner harbour or Anglin's bay, designed to be lifted so as to permit vessels to pass in and out.

The delivery at site of steel, operating machinery, machinery covers, safety gates, lights, and all appurtenances for bascule bridge, the erection in place of approximately 95 per cent, and the inspection and testing of operations thereof.

This work is practically completed, and will be opened to permit of navigation

on April 16, 1917.

Work continued throughout the year, from April 1, 1916, to March 31, 1917.

LITTLE DETROIT.

(This work is fully described in the annual report for 1916.)

Work was commenced on 4th October, and was completed on 2nd November, during which period 1,490.9 cubic yards, place measurement, of rock were removed.

OWEN SOUND.

Owen Sound, in the county of Grey, is situated on Owen Sound, an arm of the Georgian bay, and at the mouth of the Sydenham river.

Work of dredging was commenced May 25, completed July 6, and comprised the removal of 26,781 cubic yards, place measurement, or 35,762 cubic yards, seew measure of mud, sand, sawdust, and sunken logs. This material was scattered irregularly over the total area of the inner harbour, and when removed left a clear depth of 20 feet below zero, or elevation 580.0.

PENETANGUISHENE.

Dredging.

Penetanguishene is a town located on a part of the Georgian bay, in the township of Tay, county of Simcoe.

For the purpose of affording sufficient depth of water at the north end of the government wharf to allow large boats to turn into the main channel, the work consisted of the removal of material from an area 120 feet in length by 100 feet in width, amounting to 1,500 cubic yards, place measurement, class "B" soft clay.

An agreement was entered into with the Penetanguishene Dredging Co., Limited, to do the work at a price of 40 cents per cubic yard, place measurement, and work was begun July 4, and completed July 10, 1916.

The work is of a permanent nature.

Further work was done for the purpose of creating increased draught of water to enable large boats to navigate to and from the harbour in safety, and was done by the government dredge No. 109, and consisted of the removal of 50,938 cubic yards in situ or 67,917 cubic yards, scow measure; expansion factor, 33½ per cent.

The material dredged consisted of class "B" material, sand and mud. The dimensions of the work being 553,000 square feet, having an average length of 5,530 feet and an average width of 100 feet and an average cut of 2.45 feet and dredged to a depth of 20 feet below zero of gauge elevation 580.0. Shoal No. 1, opposite dumping ground, 100 feet wide and 300 feet long; shoal No. 2, opposite Trudeau point, length 1,500 feet by 100 feet wide; shoal No. 3, from end of shoal No. 2 to south end of Esplanade, an average length of 2,250 feet by an average width of 166 feet. The channel, as located and dredged, extends northerly from the wharf to the line of light, thence northeasterly.

The work was begun July 12 and completed September 15, 1916.

The work, as completed, will be of a permanent nature.

PICNIC ISLAND.

This work is fully described in the annual report for 1916.

Picnic island lies to the north of Manitoulin island in the district of Algoma, about 1½ miles west of the town of Little Current, on the main steamship channel through the North channel of lake Huron.

Authority was given to resume work at this place, with the object of finally com-

pleting it during the season.

Work was commenced on June 29, and completed on November 3, 1916, during which time 9,810 cubic yards of rock were dredged and removed by scows.

PORT ARTHUR.

Port Arthur, district of Thunder Bay and Rainy River, has frontage on the lake,

within its present limits which admit of further extension, of $7\frac{1}{2}$ miles.

Port Arthur, with Fort William, which directly adjoins Great Lakes navigation and is therefore one of the most important Canadian ports. Through it, a considerable portion of the western grain crop is handled for transhipment east. For this purpose, there are seven elevators in operation and two under construction. The total actual storage capacity is 16,865,000 bushels.

A contract was let early in the summer of 1913 to W. E. Phin, Esq., Hamilton, Ont., providing for the removal of 942,000 cubic yards, seow measurement, of class B material, in the main harbour, at a unit price of 13 cents; and 528,794 cubic yards, seow measurement, were removed in 1913.

In 1914, under the same contract 416,410 cubic yards, class B material were removed.

Contract No. 9490, extended.—Authorized, prior to December 15, 1916, the removal from the main harbour of 1,095,000 yards, scow measurement, class B material; and 611,729 yards were removed during the season of 1915.

Authority was received for the removal of 483,271 yards, being balance of the

total quantity authorized April 14, 1915.

1. Main Harbour South.—Work started May 16, 1916, and the main harbour south was widened from an average width of 1.825 feet to a width of approximately 2.175 feet, having an average length of 2.615 feet.

The quantity excavated was 146,509 yards, scow measurement, class B.

2. King's Channel.—King's channel was also widened, and 40,316 yards, seew measurement, class B. material, were removed.

The place measurement from soundings is 32,289, giving expansion factor of 21.8 per cent.

The depth dredged was 25 + 1 foot for sub-grade.

3. Alongside C. N. R. Steel Dock.—On July 10, the removal of 8,200 yards, scow measurement, class B, was authorized, and 8,179 yards were removed.

Approximate dimensions as follows: Length, 300 feet; width, 75 feet; depth made, 22+1 foot for sub-grade.

- 4. Joint Slip between Government Elevator and Davidson and Smith Elevator.—Six thousand nine hundred and forty-eight yards, scow measurement, were also removed under authority, and the depth made was 25+1 foot for sub-grade.
- 5. Channel and Slip to give access to Saskatchewan Co-operative and Grain Growers' Elevators.—An Order in Council was passed on 8th July, extending Phin's dredging contract by the addition of 268,000 yards, seew measurement, class B material, to provide for the dredging of a joint slip between the Saskatchewan Co-operative and Grain Growers' Elevators, together with a channel extending out from the slip to the 25-foot line.

This work was authorized and consisted of:-

Channel.—Length, 1,500 feet; width, 400 to 175, and average 288 feet; depth made, 25+1 foot for sub-grade; quantity removed, 108,021 yards.

Slip.—Length, 1,200 feet; width, 175 feet; depth made, 25 + 1 foot for sub-grade; quantity removed, 112,373 yards, scow measurement.

Approximately 35,000 yards, or 220 feet in length, still remain to be removed in this slip.

SUMMARY.

Widening main harbour south Widening King's channel	$147,509 \\ 40,316$	cubic "	yards,		measurement.
Alongside C.N.R. coal dock	8,179	4.6	44	4.6	44
Joint slip between Government elevator and Davidson & Smith elevator Channel to Saskatchewan and Grain	6,948	4	44	14	44
Growers elevators Joint slip between Saskatchewan and	108,021	"	**	"	"
Grain Growers elevators	112,373	"	"	4.6	44
	423,346	**	4.6	44	*1
•					

All depths mentioned refer to zero of the Public Works Department staff gauge, which is 601.86 M.S.L. The water during the navigation season is practically always above this zero level.

All the material removed was class B. consisting of sand and clay, except in the slip between the Grain Growers' and the Saskatchewan Co-operative elevators, where hardpan and loose shale rock were encountered.

Satisfactory releases were obtained covering structures which might have been affected.

Only one dredge, the Kennaquhair, was employed during 1916.

The average haul to the dumping grounds was 2 miles, but the greater portion of the dredged material was deposited on the sites of the Saskatchewan Co-operative Elevator Company.

The work was closed for the season on December 14, 1916.

PORT BURWELL.

Port Burwell is at the mouth of Otter creek, on the north shore of lake Erie, and is an important harbour of refuge.

On May 22, instructions were received that repairs be made to the piers, revetment walls, etc.; work began July 17 and was finished November 30.

Owing to changed conditions in the harbour, piers, and breakwaters, it was thought best to remove the checkwater, about 40 feet in length. This was done by dredges Nos. 114 and 117.

Dredging.

Much sediment is deposited in the inner harbour by Otter creek, particularly when in freshet; also south of the breakwater, lake currents and storms drift sand into the dredged cuts. A great amount of dredging is thus necessary to maintain a depth of water to accommodate vessels using the port.

The quantity and cost of dredging was as follows:—

Dredge No. 114, April 26 to September 25, 52966 cubic yards at 20·3 cents	10,799 90
cents	18,437 86
Total cost of dredging	29,237 76

Area and dimensions dredged as follows:-

Location.	Dimensions.	Cubic yards place.	Expansion.	Cub. yds.
Checkwater. North of ferry slip on east side along ferry dock. Turning basin. Between piers. Channel east of breakwater. South of outer end of breakwater. Total quantity.	450 by 44 by 3.73 700 by 228 by 7.01 1,075 by 110 by 2.37 1,160 by 250 by 4.72 625 by 209 by 3.27	3,576·05 2·735·44 41,988·67 10,372·17 50,763·02 15,820·80	$23 \cdot 6$ $23 \cdot 6$ $23 \cdot 6$ $23 \cdot 6$ $26 \cdot 34$ $26 \cdot 34$	4,420 33.81 51,898 12,820 64,134 19,988 156,641

Depths dredged, south of turning basin, 20 feet; turning basin and between piers 20 to 24 feet; and end of piers southwardly, 20 to 25 feet.

Much difficulty was experienced during the season in maintaining in the turning basin and south of the breakwater a navigable depth of water.

Dredge No. 114 has not sufficient capacity to cope with the conditions at Port Burwell.

PORT HOPE.

Port Hope, in the county of Durham, is situated on the north shore of lake Ontario, 60 miles east of Toronto.

To provide the necessary depth of 16 feet in the approaches to the warehouse to enable vessels to discharge and take on cargoes, it was necessary that dredging be undertaken, and tenders were called on an estimated quantity of 38,000 cubic yards, in situ, and authority was given to have the removal of this yardage undertaken by the Randolph Macdonald Company at 18 cents per cubic yard. Work was started June 14, completed August 22, and consisted in the removal of 38,096 cubic yards, in situ, of sand and silt, spread over the following area: Starting at a point 150 feet north of the warehouse on the east pier, the area was 73 feet in width and increased to 177 feet in width 260 feet south from the starting point; the channel then averaged 179 feet in width for 425 feet, when it was again contracted to an average width of 165 feet between entrance piers, continuing at approximately this width, a distance of 200 feet to deep water.

PORT MAITLAND.

The work performed during season 1916, consists of dredging a 300-foot channel from deep water in the lake to a point in the river at the mouth of the Welland canal feeder discharge. Total length covered, approximately 5,000 feet; 200 feet on the west side of the channel, dredged through bar in outer entrance to piers, was dredged to 21 feet below L.W.L., the remaining 100 feet to an extreme depth of 28 feet below L.W.L. A channel, approximately 50 feet wide, and 400 long was dredged to 12, 12 and 14 feet below L.W.L. in the mouth of the Welland canal feeder discharge to allow fishing tugs to unload fish and take on coal supply.

The balance of the work performed consisted in dredging to 21 feet below L.W.L. the car ferry slip in the east side of the river, a turning basin on the opposite side of the river, and a portion of the proposed 435-foot channel to be dredged from the Welland canal feeder discharge upstream. Total length of channel improved, approximately 7,400 feet.

Total length of proposed channel to be deepened and widened from deep water in the lake up to lot No. 10 is approximately 20,000 feet. Total amount of material to be removed in the whole project amounts to approximately 1,581,000 cubic yards, place measurement. Total amount authorized to be removed under present contract, 826,000 cubic yards, of which 628,703 yards was removed during last season. Nature of material removed: Channel through outer bar, sand and gravel; in river, silt, sand,

Total quantity removed (hydraulic and dipper), 626,319 cubic yards P.M.; total place measurement quantity removed by dipper dredge, 122,757 cubic yards P.M.; total scow measurement quantity removed by dipper dredge, 153,059 cubic yards S.M.;

giving an expansion factor of 24.7 per cent.

Of this total amount of 122,757 cubic yards, 43,417 yards, place measurement, were removed within lines and grades as authorized, and spoiled. The balance of 79,340 yards is the amount removed below lines and grades and spoiled, together with the amount removed for commercial purposes.

Contract rate of payment, 12 cents per cubic yard, place measurement. Contractor: The Great Lakes Dredging Co., Ltd., Port Arthur, Ont.

Period of operation: Hydraulic dredge Shuniah, June 10 to December 13, 1916: dipper dredge No. 8, June 30 to November 17, 1916. An additional two years will probably be required to complete the proposed improvements.

The spring survey shows that an exceptionally small amount of filling-in has taken place over the area dredged during season 1916.

RIVER THAMES.

Dredging.

The city of Chatham is on the Thames river, 18 miles from lake St. Clair. There is a large and important water-borne traffic to and from this city.

The dredging at this place consisted of deepening the river in front of the wharf. Area: 854 feet by 50 depth 10 feet below zero; quantity removed, 11,050 cubic vards, scow measurement.

The work was done by P.W. dredge No. 120; work was commenced on October 5 and ended October 30.

Distance scow towed to deposit, 3½ miles downstream.

(Mouth.)

All traffic between the city of Chatham and points on the river Thames and the Great Lakes has to pass the bar in lake St. Clair at the mouth of the river.

For the purpose of deepening the entrance, Public Works dredge No. 120 worked from June 7 to October 2, dredging a channel 7,000 feet long by 50 wide, removing 50,270 cubic yards, scow measurement; depth dredged, 14 feet below zero.

Distance scows towed, to deposit, from 1 to 2 miles northeast of channel.

ST. JOHN CREEK.

St. John creek, in the county of Ontario, flows through the township of Rama, rising in St. John's lake and emptying into the Black river.

The department owned and operated a concrete stop-log dam for the regulation of water level.

By Order in Council dated September 1, this dam was transferred to the Department of Railways and Canals.

SAULT STE. MARIE.

Sault Ste. Marie, including the contiguous town of Steelton, has a population of some 20,000, and is situated on the St. Mary's river, opposite the St. Mary's falls.

Work of repair by day labour was commenced on June 6 and completed on

October 31, 1916.

The work consisted in entirely renewing the concrete face wall of the wharf in places where it was badly eroded and in a dangerous condition. This wall is 6 feet high by 4 feet thick, and a total length of 200 feet was blasted out and renewed with fresh concrete. A large portion, about 24,000 square feet, of the surface of the wharf was refinished with fine trap rock and thoroughly solidified by a heavy steam roller. Some small repairs were also made to the warehouse.

Authority was given to construct a building on the government wharf for the use of the Customs Department, to replace the old one which was destroyed by a fire a short time previously.

Work was commenced on the 1st February, and was completed on 31st March,

1917.

The work consisted in the construction of a frame building, 42 feet long by 22 feet wide, the interior of which is divided into two offices and a storage room, the latter for the use of this department.

SEVERN RIVER.

Severn river, in the county of Ontario, runs from lakes Couchiching and St. John, flowing northwesterly through the township of Rama and district of Muskoka into the Georgian bay.

The dams are for regulating the water levels in lakes Simcoe and Couchiching, and were transferred to the control of the Department of Railways and Canals by Order in Council, dated September 1, 1916.

TORONTO.

(This work is fully described in the annual report for 1915.)

Toronto, county of York, is a city of some 500,000 inhabitants, situated on the north shore of lake Ontario.

Section "A" Sea Wall.—Actual construction of this proposed pile and reinforced

concrete retaining wall has not yet been commenced.

Section "B" Breakwater.—Commenced crib building on May 28, 1914, the first crib being sunk in position at the west or Humber end of the work on July 31, 1914. From that date to December 31, 1916, forty 100-foot standard cribs and eight 30-foot return cribs have been placed. Of these, ten were built 14 feet in width; twenty, 16 feet in width, and the return cribs in accordance with the above. Of these cribs, thirty standard and six return cribs were placed on a sandy bottom on prepared berths, and practically filled with stone. Along both faces of this cribwork, some 1,303 piles 28 and 30 feet long have been driven in place at 5-foot centers. On June 23, 1914, preparatory to placing these cribs, the contractors commenced dredging berths at the Humber end, working in an easterly direction, and in all 56,149 cubic yards, scow measurement, of sand, elay, etc., were removed.

Work also commenced at the eastern end of this breakwater in close proximity to the northwestern corner of the new western channel, ten standard cribs 14 feet in width, and two 30-foot return cribs, scribed to conform to the rock bottom, were placed and filled with stone.

As these cribs were built for the sand section, and the contractors were required to scribe and place them on the rock section, they were allowed payment for the additional work required in scribing at cost, plus 10 per cent under clause 36 of their contract, the total additional cost to the department being \$2,688.16.

Certain cribwork placed by the contractors during the season of 1914 required rectification, and this rectification was performed without extra cost during the past season, to the entire satisfaction of the department. In order to increase the stability of this section, the contractors have been instructed to construct all remaining cribs 16 feet in width.

The total expenditure on this section of the work to the end of the fiscal year amounted to \$170,963.07.

Section "C" Ship Channel and Turning Basin.—During the present year the following progress has been made: Round bent piles and anchor piles have been rectified over a length of 4,410 lineal feet of wall; new work has been performed to the extent of 4,735 lineal feet, making a total of 9,145 lineal feet of wall completed with 6- by 12-inch by 20-foot hemlock caps, and 10- by 12-inch by 20-foot British Columbia fir stringer. A total length of 8,786 lineal feet has been close-sheeted with 12- by 12inch by 40-foot sheet piling, of which 4,410 lineal feet is rectified work and 4,376 lineal feet is new work. Waling of British Columbia fir, 12- by 12-inch by 22-foot has been placed over a total length of 8,001 lineal feet, of which 4,410 lineal feet is rectified work and 3,591 lineal feet is new work. The necessary structural steel has also been placed. The structure has been anchored back with 2-inch diameter anchor rods extending 50 feet to the anchor piles, in the rear of the wall, which have a barricade laid over a length of 8,511 lineal feet; 1,350.5 cubic yards of mass concrete have been placed over a length of 720 lineal feet. A total of 1,964,345 cubic yards have been dredged and deposited as back filling where directed. That portion of the work requiring rectification, which was contained in the area unwatered by means of coffer dams, was rectified by the contractors without cost, and to the entire satisfaction of the department.

It is the intention to complete the rectification of this section under the same terms during the coming fiscal year, when the remainder of the section will be unwatered. The total expenditure on this section of the work to the end of the fiscal year 1916-17 amounted to \$953,673.53.

Section "D" Retaining Walls and Northern Slip .-- During the present year the following progress has been made: Round bent piles and anchor piles have been rectified over a length of 2,457 lineal feet of wall; new work has been done to the extent of 250 lineal feet, making a total of 2,707 lineal feet of wall completed with 6- by 12-inch by 8-foot hemlock caps and 10- by 12-inch by 20-foot British Columbia fir stringer. A total length of 2,707 lineal feet has been close-sheeted with 12- by 12-inch by 40-foot sheet piling, of which 2,457 lineal feet is rectified work and 250 lineal feet is new work. Waling of British Columbia fir 12- by 12-inch by 22-foot has been placed over a total length of 4,237 lineal feet, of which 3,737 lineal feet is rectified work and 500 lineal feet is new work. The necessary structural steel has also been placed. The structure has been anchored back with 2-inch diameter anchor rods extending 50 feet to the anchor piles, in rear of the wall, which have a barricade laid over a length of 1,937 lineal feet, 4,857 cubic yards of mass concrete have been placed over a length of 2,707 lineal feet. Extra anchorage rendered necessary over some 1,529 lineal feet of northern slip walls owing to defective nature of holding ground, entailed an expenditure of \$12,576.01, which was carried out by the contractors on a basis of cost plus 10 per cent, in accordance with clause 36, page 33 of the contract. The work on the northern slip or Don diversion portion of this section has been completed. That portion of this work requiring rectification, which was contained in the area unwatered by means of coffer dams, was rectified by the contractors without cost, and to the entire satisfaction of the department.

It is the intention to complete the rectification of this section under the same terms during the coming fiscal year, when the remainder of the section will be unwatered.

WAUBAUSHENE.

Waubaushene is a town on the Georgian bay, in the township of Tay, county of Simcoe, with a population of about 1,000. The Midland division of the Grand Trunk Railway system has a station and freight yards in the town.

The object in doing the work was for the purpose of making a channel of deeper draught of water to enable tugs towing blocks of logs direct into the mill-yards of the Georgian Bay Lumber Company and the Fesserton Lumber Company.

The channel is well sheltered from all quarters excepting from the northwest. Authority was given to remove 18,500 cubic yards of class "B" material, place measurement. The work was let to the Penetanguishene Dredging Co., Limited, at a price of 26 cents per cubic yard. The material, as dredged, consisted of sand, mud, and some hard-pan. The dimensions are 5,637 feet long, average width 106 feet, and dredged to a depth of 11 feet below zero of water level; elevation 580.0, with an average cut of 3.2 feet. The area completed in 1916 is 156,094 square feet.

The remaining portion to be done to complete the channel is 52,199 cubic yards,

in situ, class "B" material.

The work was begun July 31 and completed November 16, 1916. Quantity removed, 18,293 cubic yards, place measure.

In all probability the work, when completed, will be permanent.

MANITOBA.

ASSINIBOINE RIVER.

The floods in the spring of the year damaged the dykes along the banks of the Assiniboine river, east of Portage la Prairie, to such an extent that repairs had to be made to save the remainder of the work.

These repairs consisted of the installation of two 60-foot culverts, 3 feet in diameter, the building of 1,192 lineal feet of new dykes, and the repairing of 3,492 lineal feet of old dykes.

BIG GEORGE ISLAND.

In order to provide a much-needed harbour of refuge, work was begun on a channel from lake Winnipeg into a natural harbour at Big George island, Selkirk county. Part of the work consisted in dredging out a temporary shelter for the dredge.

The temporary shelter, as completed, has a length of 910 feet, a width in bottom of 35 feet, and carries a depth of 6 feet below low water. The channel, as completed, has a length of 455 feet, a width in bottom of 35 feet, and carries a depth of 9 feet below low water.

It was necessary to seew most of this material, and will in time require dredging owing to filling in.

Operations were carried on between July 17 and October 21, 1916, by dredge No. 204, the quantity removed being 7,675 cubic yards, scow measurement, clay, boulders, and gravel, which had to be towed a distance of 1 mile.

This work was done at a cost of 66.58 cents per cubic yard.

DAUPHIN RIVER.

To enable the lake-going boats to make use of the Marine and Fisheries wharf, the channel from the mouth of the Dauphin river, Selkirk county, to the wharf was deepened by dredging.

Four cuts were necessary of a length of 2,382 feet and an average width of 35 on bottom, and carries a depth of 9 feet below low water.

It was necessary to scow the material a distance of about one mile. No filling-in

is anticipated.

Operations were carried on between May 25 and July 15, 1916, by dredge No. 204, the quantity removed being 10,027 cubic yards, place measurement, of gravel, rock and boulders.

The work was done at a cost of 52.63 per cubic yard.

HOLE RIVER.

Hole river is situated on the east side of lake Winnipeg, opposite Black island. Above the fourth rapids on the Hole river a rock-fill dam was constructed, which was intended to hold the river at spring-water level and thereby make it navigable up to and across Hole River lake, a distance of about 15 miles. The dam as constructed was 90 feet long and an average height of about 5 to 7 feet.

All the rock was blasted nearby, and the number of yards placed in the dam is about 200.

Dredging.

To enable boats to navigate the river dredging was done, which consisted of the removal of blasted rock that was blocking the channel.

The total quantity of rock removed was 281 cubic yards. The channel now carries a depth of 9 feet below low water.

It was necessary to cast over the material; no filling-in will take place.

Operations were carried on between August 16 and August 23, 1916, by dredge No. 202.

The work was done at a cost of 117.33 cents per cubic yard.

LE PAS.

Le Pas, Le Pas county, is the northern terminus of the Canadian Northern railway, and the southern terminus of the Hudson Bay railway, with a population of about 2,000.

The site for the wharf has been acquired for the sum of \$1,870, and about twenty-eight cords of stone was acquired.

RED RIVER.

Crescent Island.

Owing to silting up of the river-bed at this point, dredge No. 205 worked there improving the steambat channel.

Three cuts were necessary of a total length of 5,363 feet to a width of 40 in the bottom, and carrying a depth of 10 feet below low water.

All of this material was towed a distance of 1 mile; further dredging will in timebe required, owing to filling-in.

Operations were carried on between June 7 and July 20, 1916, and again from September 20 to October 31, 1916, by dredge No. 205, the quantity removed being 71,676 cubic yards, scow measurement, of mud and sand.

This work was done at a cost of 11.19 cents per cubic yard.

Middle Ground.

In order to improve the navigable channel and enlarge the sectional area of the river, thereby lessening the danger of ice jams and floods in the vicinity of Selkirk,

 $19 - 4\frac{1}{2}$

dredging was continued below Sugar island, about one and one-half miles north of Selkirk, at what is called the "Middle Ground."

The dredging consisted of three cuts having a total length of 5,210 feet by 160 wide, to an average depth of 4 feet, and carries a depth of 11 feet at low water.

It was necessary to cast over the material, which will in time require further dredging owing to filling-in.

Operations were carried on between July 31 and October 31, 1916, by dredge No. 201, the quantity removed being 123,590 cubic yards of silt, place measurement.

The work was done at a cost of 6.31 cents per cubic yard.

New Channel.

Owing to the spring freshets, the channel at the mouth of the Red river had to be dredged to remove deposits of silt.

Operations were carried on between May 6 and July 29 by the dredge No. 201, the quantity removed being 53,589 cubic yards, sandy clay, place measurement, which was all cast over, consisting of two cuts as follows: 1,182 feet by 100 by 3 feet, and 2,395 feet by 140 by 3 feet, and carries a depth of 11 feet below low water.

Operations were carried on between May 13 and May 24, 1916, by dredge No. 204, the quantity removed being 1,534 cubic yards of sand, seew measurement, tow, one-half mile. This work consisted of one cut 280 feet long, 40 wide in bottom, and carries 11 feet depth below low water.

Operations were also carried on between May 20 and June 7 by dredge No. 205, the quantity removed being 3,298 cubic yards, scow measurement, of sand; towed one-half mile. This work is 593 feet in length, 40 wide, and carries a depth of 10 feet below low water.

Total cubic yards, 58,421, and cost per cubic yard, 8.24 cents.

New Entrance Channel.

Owing to the ice preventing the placing of stone in the protection work at the mouth of the Red river during the winter of 1915-16, this work had to be left over until last summer, when it was completed.

The storms of 1916 completely wrecked a portion of the old protection wall on the west side of the channel at the mouth of the river, thereby endangering the remainder of the wall. About 648 feet of this was replaced by class B work, which seems to be the only type of work that will stand the action of heavy storms.

ST. ANDREWS LOCK AND DAM.

The work of removing the stone, which had been used as a cofferdam at St. Andrews, was completed this year. This stone seriously interfered with the proper escape of the water from the dam, the current being directed by it across the navigable channel, offering a menace to navigation.

Four cuts were necessary of a total length of 1,929 feet to a width of 40 in the bottom, of an average depth of 5.82 feet.

It was necessary to tow all material a distance of 1 mile. No filling-in is anticipated.

Operations were carried on between July 31 and September 19 by P.W.D. No. 205, the quantity removed being 14,900 cubic yards, scow measurement, of rock, gravel, and boulders.

The cost of this work was 27.4 cents per cubic yard.

SELKIRK SLOUGH.

In order to improve the channel for navigation, further dredging was required this year in the West slough, which is used by the department as a winter harbour, and has the government shippard near the head.

Two cuts were necessary of a total length of 4,932 feet to a width of 40 in the bottom and carried a depth of 10 feet below low water.

It was necessary to tow all of the material a distance of 1 mile. No filling-in is anticipated.

Operations were carried on between July 26 and August 16, and again between August 23 and October 31 by dredge No. 202, the quantity removed being 32,450 cubic yards, scow measurement, of clay.

The cost of this work was 24.45 cents per cubic yard.

SNAKE ISLAND.

Dredging was required at Snake island, Dauphin county, for the purpose of improving the channel from the lake to the government fish hatchery on the island.

The channel, as completed, consists of three cuts of a total length of 1,538 feet, a width of 35 on the bottom, and carries a depth of $6\frac{1}{2}$ feet at low water.

It was necessary to scow the material a distance of one-quarter mile, and will in time require further dredging owing to filling-in.

Operations were carried on between August 16 and September 15, 1916, by dredge No. 210, the quantity removed being 5,581 cubic yards, scow measurement, of gravel, clay, and boulders.

The work was done at a cost of 28.38 cents per cubic yard.

WINNIPEGOSIS.

Owing to low water on lake Manitoba, the channel from Mossy river to the lake required dredging, as did also the channels at the Armstrong Trading Company's wharf, the Canadian Lake Fisheries dock, and the Standard Lumber Company's wharf.

The work, as completed, consisted of 3,414 lineal feet, with a width of 25 feet in the bottom; 479 lineal feet, 8 feet wide in the bottom; and 30 lineal feet, 20 feet wide in the bottom; and all earries a depth of 8 feet below low water.

All of the material was scowed a distance of three-quarters of a mile, and will in time require further dredging, owing to filling-in.

Operations were carried on between July 7 and August 17, 1916, by dredge No. 210, the quantity removed being 9,208 cubic yards, scow measurement, of sand, clay, boulders, and hardpan.

The work was done at a cost of 31.05 cents per cubic yard.

BRITISH COLUMBIA.

BELLA BELLA.

Bella Bella is situated on the east coast of Campbell island, 170 miles from Prince Rupert. This place is an old Hudson's Bay Company post, and has been used since 1833 as a landing place for supplies and mail for the settlers in the surrounding country. It is proposed to rebuild the wharf, which has been turned over to the Department by Mr. J. A. Pauline, its present owner. The proposed wharf would be 40 by 80 feet, with an approach 120 feet long, and will be built of creosoted piles.

BISHOPS BAY.

Bishops Bay, Comox-Atlin district, is situated on the mainland coast of British Columbia, on the strait of Georgia, about 20 miles west of Powell river, and some 100 miles northwest of the city of Vancouver. It is of considerable importance as a shipping point for fish, and a regular place of call for coastwise steamers.

Authority was granted to build a landing float on the bay. An agreement was entered into with James McDonald & Co. to supply all labour and material in place for \$680.12

The complete work consists of a cedar log and timber-decked float 36 by 50 feet and approach 6 by 120 feet, with the usual anchorage, and shed 10 by 12 feet. Construction was started November 21, and completed November 27.

BURTON.

Owing to the action of the current on a high gravel bank, 1,900 feet long and 20 feet high, on the east side of the Columbia river, below Burton, bars were formed in the slack water at the head of the Lower Arrow lakes, necessitating almost continuous dredging to keep the channel open. To assist in establishing a permanent channel at this place, it was decided to protect the eroding bank by a brush-and-rock mattress.

Work was continued on November 7, 1916, and completed on February 6, 1917; during this time the lower portion of the bank was mattressed for a length of 1,450 feet and an average width of 55 feet. This work completed the bank protection on a length of 2,750 feet.

COURTENAY RIVER.

The Courtenay river runs in a southeasterly direction into Comox harbour. Courtenay, near its mouth, the northerly terminus of the Esquimalt and Nanaimo railway, is the principal town of the Comox valley, which is about 6 miles wide and 40 miles long.

During 1914 and 1915 the original tortuous channel over the tidal flats between Comox bay and the mouth of the Courtenay river had been straightened by dredging a new channel 3,000 feet long and 100 feet wide by means of the departmental dredge King Edward. Further improvements were required between the point where the dredge had ceased work and the town of Courtenay. Authorization was granted for the orange-peel bucket dredge Victoria to make a channel, 80 feet in width, by removing numerous boulders and snags, to provide additional depth over two bars, at the river mouth and below the town of Courtenay, respectively, to facilitate the navigation of boats coming up the river. The dredge commenced work on February 12, 1917, and on March 31 had covered a distance of 1,500 feet, commencing from the Courtenay bridge, in addition to improving the channel at the river mouth. The main portion of the work still to be done consists of providing additional depth on the upper bar.

The material was all overcast to the sides of the channel. The estimated quantity was 2,999 cubic yards, including 132 isolated boulders; also fifty-two snags. Filling-in may take place, necessitating further work in two or three years in order to keep the channel clear.

CRACROFT.

Cracroft float, Comox-Atlin district, is situated on the southwesterly coast of Cracroft island, and is a regular place of call for coastwise steamers.

A new float, 30 by 50 feet, with an approach 350 feet long by 6 feet wide, shed 12 by 16 feet, with the usual anchorage, was built.

Work was commenced on November 24 and completed March 3, under agreement with James McDonald & Co., at unit prices.

FRASER RIVER--NORTH ARM JETTY.

The work undertaken at the mouth of the north arm of the Fraser river has for its object the making and maintaining of a navigable channel through the Sandheads at the mouth. The complete scheme embraces the dredging of a channel 21,685 feet long, 300 wide, to 10 feet at L.W.O.S.T., and the construction of a bulkhead and mattress jetty, 22,191 feet long, paralleling the dredged channel on the south side.

The construction of the jetty was completed in the fiscal year 1915-16, details of

which may be found in the annual report for that year.

The Pacific Dredging Company, of Vancouver, completed this contract on December 31. During this fiscal year, 747,728 cubic yards of material have been removed, making a total of 3,028,234 cubic yards removed to complete the cut.

Dredging.

A request was made by the New Westminster Board of Trade and various industries interested to do some dredging at the mouth of the North arm of the Fraser river, below Lulu Island bridge.

Authority being granted, the *King Edward* commenced on July 24 to dredge a channel some 1,200 feet long, 150 feet wide, to 10 feet B.L.W. and completed in August 26 the removal of 37,300 cubic yards of sand and fine gravel, which was deposited at the upper end of Poplar island.

It is quite possible that more dredging will have to be undertaken in this locality in the near future, as the natural tendency is to silt up.

South Branch.

The South branch is that portion of the north arm running from Eburne south and southwest to the gulf of Georgia. The object of the work is to provide a channel with a depth of 10 feet at L.W.O.S.T., connecting with the channel dredged by the department in front of Eburne in 1911.

The whole work consists of a channel 6,225 feet long and 150 feet wide, the total material removed being 227,025 cubic yards of sand and silt in place, of which 101,790 cubic yards were removed on a distance of 3,700 feet last year.

Authority being granted to complete this work, the King Edward started operations April 10 and continued to the 18th, when she was ordered to Powell river. Starting again on May 16, work was resumed to completion on July 30, during which time 125,235 cubic yards were removed. It is expected that this work will be permanent.

Steveston Jetty (2nd Unit).

The work being done at the mouth of the main branch of the Fraser river has for its object the confining of the waters passing over the Sandheads to a defined channel, which is being dredged parallel to the proposed jetties. The proposed jetty on the north side of the channel is 27,000 feet long. Of this total length there was completed, by March 31, 15,800 feet, including 6,900 lineal feet of the first unit.

The work done during the fiscal year 1916-17 was the building of the second unit of the jetty, with a length of 7,100 feet and an extension to the second unit of 1,800 feet. The contract for the construction of this second unit was let to the Marsh-Hutton-Powers Company, of New Westminster, dated June 4, 1915. The extension of this contract was authorized by Order in Council passed on 15th August, 1916, for an additional length of 1,800 feet.

Work was begun on June 18, 1915, and consists of a brush mattress and rock mound, which is made up of the following materials, the quantities being approximate:

	Original contract.	Extension.	Total.
Brush mattress		25,000 cubic yards	145, 262 cubic yards
Rock, large		12,500 tons.	60,850 tons.
Rock, small		19,100 tons.	96,900 tons.
Lumber		6,300 feet B.M.	48,900 feet B.M.

The following table shows the materials already placed and the balance yet to be done:—

		Balance to be done.
Brush in mattress. Rock, large, in place. Rock, not graded. Rock, small. Lumber.	6,850	3,562 cubic yards 6,850 tons to be graded. 800 tons. 13,400 feet B.M.

Sandheads.

The Fraser river sandheads extend from Steveston west about 5.5 miles to deep water in the gulf of Georgia. These sandheads are bare at low water, except the channel runs between them. Several years ago, this channel showed a tendency to cut a straight course through the bar to the north of the old channel, and the natural tendency of the river, materially assisted by dredging, has resulted in the production of the main ship canal at this place. This channel has obtained a minimum depth of 15 feet at low tide, and it is to maintain or increase this depth and straighten out the channel that the work is being performed.

The department dredges No. 303 and King Edward have been employed this year maintaining and improving the channel paralleling the jetty from buoy No. 24 to the gulf of Georgia. The following table shows the work performed by each dredge:—

Dredge " 303 ". Cubic yards Intervals of dredging. (Hopper Material. measurement April 1st, 1916, to March 31st, 1917..... Sand and clay. 692,800 King Edward. Cubic yards Intervals of dredging. Material. (Place measurement) Aug. 28th to Oct. 10th... Oct. 16th to Nov. 25th... Sand and clay. 41,460 34,855

76,315

This shows a total of 769,115 cubic yards removed from the channel during this fiscal year.

The King Edward confined its operations to a cut 1,800 feet long by 150 wide, through a bar that had formed at the outer end of the cut between buoys Nos. 1 and 3, while the No. 303 assisted the King Edward in widening the cut at this point, besides removing material from various parts of the channel between No. 3 and No. 24 buoys.

On the whole, the dredged channel appears to be maintaining the depth dredged, alternate filling-in of the bottom taking place at different stages of high water in the river.

HOPE POINT.

Hope point, Comox-Atlin district, is situated on the southeasterly end of Gambier island, Howe sound, about 20 miles northwest from the city of Vancouver.

Authority was granted to build a float at Hope Point, and an agreement was entered into with James McDonald & Co., of Vancouver, to supply all labour and material in place for the lump sum of \$921.22.

The completed work consists of a cedar-log and timber-decked float, 34 by 44 feet, with an approach 6 by 100 feet connected with the shore by cribbing 8 by 10 feet, and fastened at the outer end by boomsticks to the shore. A shed, 10 by 12 feet, was built on the float. Work was commenced September 6 and completed September 22.

JEDIDIAH ISLAND.

Jedidiah island, Comox-Atlin district, is situated between Texada island and Lasqueti island in the strait of Georgia, some 50 miles northwest of the city of Vancouver.

Authority was granted to build a float on the island; work was commenced October 5, by day labour, and completed March 31.

The completed work consists of a new float, 16 by 34 feet, approached 10 by 120 feet on sawn-timber bents, a gangway 6 by 32 feet, and a shed 10 by 12 feet.

KITIMAT VILLAGE.

This village is situated at the head of Kitimat arm on the west coast of British Columbia, 150 miles from Prince Rupert.

The work of building a landing float started early in November and completed in the same month. This float is 20 by 60 feet, with a floating approach 6 feet wide and 190 feet long. Three clumps of dolphins were driven in front of the float so as to break the weight of any large ships which land at this point. In August last, the settlers of Kitimat village requested that two floats be built in Kitimat bay instead of one, building the smaller float on the opposite side of the bay, where the large one was to be built, to accommodate small gasolene boats. Authority to proceed with this extra work was received, and work was done by day labour in a most satisfactory manner.

LILLOOET RIVER.

The Lillooet river, New Westminster district, drains Lillooet lake, passes through a flat country known as Pitt Meadows, and empties into Pitt river, about two miles above the junction with the Fraser.

Authority was granted to make a diversion of the river by cutting a straight channel through a narrow neck of land, doing away with a sharp bend, to facilitate the driving of logs and prevent the water from backing up and overflowing the land.

An agreement was entered into with J. W. Pike, of Vancouver, to make a cut 328 feet long, 80 wide, and 4.5 feet deep, representing the removal of 8.425 cubic yards, including slopes, at the rate of 12 cents per cubic yard.

LITTLE RIVER (CAPE LAZO).

Authorization was granted for the construction of a wharf at Little river, Comox-Atlin district, about 3 miles north of cape Lazo, on the east coast of Vancouver island, where there is a Dominion Government wireless station.

A wharf. 80 by 30 feet, was constructed, with shed and slip and approach 315 by 14 feet with an additional 30 feet widened to assist the turning of teams. The work was carried out by contract by James MacDonald & Company, and completed in December, 1916.

LLOYD POINT.

Lloyd point, Comox-Atlin district, is situated on the mainland coast of British Columbia, opposite Redonda island, in Homfrey channel, some 120 miles northwest of the city of Vancouver.

It was considered that a float would be cheaper and more convenient than a wharf for the settlers at this point, so a float 30 by 40 feet was built. A small shed, 10 by 12 feet, with 8-foot wall, was built on the float to accommodate the public and to store freight in bad weather. An agreement was entered into with James McDonald & Co. to build this float, supply all labour and material in place.

Work commenced November 21 and was completed February 26.

NANAIMO.

Nanaimo, Nanaimo district, is the centre of the coal mining industry of Vancouver island; also of the herring fisheries. It is about 40 miles distant from Vancouver, and 73 miles north of Victoria.

Nineteen fir and twenty crossoted bearing piles were driven in the wharf-head and approach, and the caps, stringers, joists, decking, and handrail renewed. The original approach was lengthened 20 feet in order to reduce the grade to the street, and the shed removed to the northwest corner of the wharf.

The work was completed by day labour between September 19 and October 23, 1916.

Dredging.

(This work is described in the annual report for 1916).

The Lobnitz rockbreaker was engaged the whole of the year, reporting an estimated quantity of 11,537 cubic yards of rock broken. The departmental dredge Ajax removed the following material, according to dredge captain's returns, between November 1 and December 8, 1916:—

	Rock.	Hardpan, gravel, silt, etc.	Total cubic yards, scow measurement.
North Channel. Nicol rock Block " H " Block " I " Block " J "	3,483 545 268 $1,396$	390	3,873 545 268 1,396
Removed 1916-17 Removed at above location 1914-15	5,692 3,940 11,100	390 890 4,450	6,082 4,830 15,550
	20,732	5,730	26,464

This leaves an estimated quantity of 27,874 cubic yards (place measurement) still to be removed.

No further work is required on block "I," which has now a minimum depth of 29 feet at low water. The present minimum depth at low water on block "H" is 24.8 feet, on block "J" 21.7 feet, and on Nicol rock is 18.6 feet. A considerable quantity of broken rock was ready for excavation at the end of the fiscal year, but before sending the dredge to remove it, further work was considered desirable.

NEW BRIGHTON.

New Brighton, Comox-Atlin district, is situated on the southwest side of Gambier island, some 35 miles from the city of Vancouver.

Authority was granted to build a float at Brighton Beach, and an agreement was entered into with James McDonald & Co., of Vancouver, to supply all labour and material in place.

The completed work consists of a cedar-log and timber-decked float, 34 by 46 feet, an approach 6 by 280 feet with the usual anchorage, and a shed 12 by 14 feet.

Work was commenced September 13 and completed September 26.

OKANAGAN RIVER.

When the regulating dam at the head of the Okanagan river was built, the static head provided for, based on the lowest known discharge from Okanagan lake of 400 c.f.s., was one-half foot. It was found, however, in the spring of 1916, this discharge had dropped to 180 c.f.s., necessitating the placing of a stop-log, a foot vertical, across the discharge opening, in an endeavour to maintain the lake level at near low-water mark. This formed a head of 1.8 foot, which caused considerable scouring to the river bottom for some distance below the dam and, owing to the extra pressure, some leakage through the dam. This scouring and leakage could be arrested by placing rock and brush along the back of dam, and rock on the bottom where the scouring was taking place; advantage was taken of high water from 8th to 22nd August to haul the required material by scow, and the dredge Heron was used to handle the rock at the dam. During this period, about 75 cubic yards of rock was placed in the channel where the scouring was taking place, and the same quantity piled on the bank at the dam. Between September 28 and October 11, the water having dropped, this latter rock was carefully hand-placed, on brush and tules, along the back of the dam.

During this winter, a second stop-log, 10 inches vertical, was placed in the discharge opening of the dam, which has had the following effect: On May 5, the discharge through the dam over one stop-log, with level of lake at minus .45 was 417 c.f.s.; with second stop-log, lake at same level, was 223 c.f.s. From this, it may fairly be inferred that the difference between the two discharges, 194 c.f.s., was being throttled by the extra stop-log, which would naturally raise the level of the lake; or that the inflow to the lake was 194 c.f.s. below normal, and that the dam was holding the lake above the level, due to quantity of water discharged into it.

From 26th to 31st March, eight loads of rock were placed about the central swing pier of the road bridge, crossing the head of the Okanagan river, immediately below control dam, to counteract the effect of the current from the dam on the river bed, and stop scouring. Thirty-four loads of rock were also deposited on the banks, near control dam, for use in future repairs.

The dumps made by dredge near the Fairview road bridge were scraped, levelled, and otherwise trimmed up so as to prevent material washing back into the river channel.

Dredging.

From 12th May the *Heron* was employed until 13th July running a cut south from the railway bridge, involving the handling of 7,513 cubic yards. This distance was

again gone over and 3,391 yards was rehandled, the work terminating on 7th August. The total amount of material handled, consisting of sand and gravel, was 10,904 cubic yards.

On 24th August the *Heron* was engaged until 27th September in deepening channel to grade line from above the railway bridge near Beaver creek. On this work, 3.863 cubic yards was single-handled.

PORT CLEMENTS OR QUEENSTON.

Port Clements is situated at the head of Masset inlet, on Graham island, one of the Queen Charlotte islands, which are located 100 miles in the Pacific ocean, west from Prince Rupert.

The wharf, built in 1913, using green piles, was in such bad condition from the action of teredoes that it was in danger of total collapse. The rebuilding of the wharf, as well as the approach, by using crossoted piles, was done by day labour, and was started early in July, completed in October, and is a very satisfactory piece of work, and it is expected will stand about ten or twelve years. This wharf is 40 by 60 feet wide, an approach of 650 feet long and 16 feet wide, with a freight-shed built on the wharf, 16 by 16 feet. A pile dolphin was also driven 60 feet out from the wharf, against which the stern of a ship rests when laying at the wharf.

POWELL RIVER.

Powell River, Comox-Atlin district, is a town with a population of about 2,000, situated on the mainland of British Columbia, 80 miles northwest of Vancouver city.

The harbour is protected from southeast winds by a breakwater, built in 1911-12, by the Powell River Paper Company and purchased by the department the same year. Authority was granted to build a wharf, and it was decided to construct it along the west side of the breakwater.

An agreement was entered into with James McDonald & Co., on July 15, to

build the wharf, supply all labour and material in place for \$2,500.

The completed work consists of a pile and post-bent and timber superstructure, 46 by 70 feet, an approach 14 feet wide and 650 feet long, and a small shed 16 by 26 feet. The east side of the approach and pier-head rest on the breakwater. Work was started July 22 and completed on August 8.

Dredging.

Authority being granted to dredge a berthing channel alongside the Powell River Paper Company's wharf, the *King Edward* started May 1 to remove a cut 350 feet long by 175 wide to 30 feet B.L.W.O.S.T., removing 14,515 cubic yards of sand, silt, gravel, and clay, by May 10.

REFUGE BAY.

The wharf at Refuge bay is situated on the north of Porcher island, about 26 miles in a southwesterly direction from Prince Rupert. This wharf, having fallen down owing to the action of teredoes, was rebuilt with creosoted piles in 1915, and is 40 by 60 feet, with a freight shed 14 by 16 feet.

The work of rebuilding the approach was completed this year, and was done by day labour, creosoted piles being used, and was started about October 15, and by the middle of November it was necessary to stop work owing to shortage of creosoted piles, but the work was resumed again and completed in January. This approach is 390 feet long and 16 wide.

ROBERTS CREEK.

Roberts Creek, Comox-Atlin district, is a settlement on the mainland coast of British Columbia, some 23 miles west of the city of Vancouver, and a regular port of call for coastwise steamers.

This wharf was built in the year 1914-15.

An addition was built, 20 by 120 feet, along the east side of the old pier-head, forty creosoted and thirty-five fir piles were used, and 16,037 feet of lumber, as well as eight fender piles driven on the face of the old wharf.

Work was commenced June 15 and completed July 25.

SMITH'S LANDING.

Smith's Landing, Comox-Atlin district, is situated on the south shore of Howe sound, about two miles from Granthams Landing and some 25 miles from the city of Vancouver. It is a regular place of call for steamers from Vancouver.

Work at this point was the construction of a new pile bent and timber decking wharf, 36 by 48 feet, with a pile bent addition 14 by 30 feet to the existing approach, and a shed 10 by 12 feet.

All the bearing piles in the wharf were creosoted to withstand the attacks of the teredo.

The work was performed by James McDonald & Co., at unit prices, between August 22 and September 5.

SMITHS LANDING (CORTEZ ISLAND).

Smiths Landing, Comox-Atlin district, is situated on the east side of Cortez island, some 105 miles northwest of the city of Vancouver.

To build a float at this point, a contract was entered into with James McDonald

& Co. at unit prices of \$30 per M. for lumber, and \$22 for cedar logs in place.

This work consists of a float, 30 by 45 feet, of cedar logs with deck of 6- by 6-inch cross-ties and 2- by 12-inch planking, and 6- by 6-inch cross-ties, and an approach 6 by 250 feet, with the usual anchorage, and a shed 10 by 12 feet.

Work was commenced November 20, 1916, and completed March 27, 1917.

SQUAMISH.

Squamish, Comox-Atlin district, is a town of considerable importance as a terminus of the Pacific-Great Eastern railway, situated at the head of Howe sound.

A retaining wall to prevent the material dredged from the channel at the mouth of the east branch of the Squamish river from working back into the channel was built. The retaining wall is 2,300 feet long and 14 high along the east side of the approach to the Squamish wharf, with a wing 200 feet long on the outer end.

Work started August 1, 1916, and was completed February 5, 1917.

Dredging.

Authority was granted to dredge a channel in the east branch of the river, 7,200 feet long, 120 wide at the bottom to 8 feet B.L.W.O.S.T., from deep water at the mouth to the town of Squamish, entailing the removal of some 400,000 cubic yards of sand, gravel, etc.

The King Edward started on this work November 27, and up to March 31 removed 125,800 cubic yards, or 31.5 per cent of material from the outer end of the channel and deposited it behind the retaining wall built this year alongside the Government wharf.

As this channel is protected on both sides, the dredging is expected to be of a permanent nature.

STAPLEBY.

Stapleby, Comox-Atlin district, is about three miles from Ucluelet on the west coast of Vancouver island, and is the natural point of outlet from Kennedy lake, Wreck bay, and Long beach. A boat landing has been constructed consisting of a float, 20 by 15 feet, approach on piles 170 by 6 feet, with head 34 by 9 feet, shed 9 by 18 feet, and gangway 32 by 4 feet. This work was completed by day labour between the 2nd and 31st October, 1916.

SURGE NARROWS.

Surge Narrows float, Comox-Atlin district, is situated on the northwest coast of Read island, and is a regular place of call for coastwise steamers.

An agreement was entered into with James McDonald & Co. to build a float,

supplying all labour and material in place.

The completed work consists of a cedar-log and timber-decked float, 34 by 60 feet, with boomsticks to keep float in position, and a shed 12 by 20 feet was built on the float.

Construction was commenced November 21 and completed February 27.

VANCOUVER.

A contract for the construction of a wooden freight shed on the government wharf was let to Messrs. Snider Bros. and Brethour, for the sum of \$44,990.

Work was commenced in April and completed, with the exception of some minor

details, on November 30.

Messrs. Snider Bros. and Brethour supplied, in addition to the above, one valve to reduce the pressure on plumbing fixtures, one hydrant and two 8-inch gate valves and brackets under electric supports, amounting to \$348.25, while the city of Vancouver laid and connected an 8-inch water main from Powell street to the wharf system at the north end of Salisbury drive.

Railway Track.

Authority was granted to build a spur track on the government property on the east side of the government wharf, to assist in the handling of freight which is loaded directly from ship to car or *vice versa*, thus avoiding delay and expense in trucking through the shed, and for the use of a travelling crane.

The track as laid out on the ground includes a tangent 1,139 feet along the east face of the government shed and 217 feet of a 15-degree curve to the north side of Stewart street. This will eventually be produced across Stewart street and connected by the Canadian Pacific Railway to their own line, when permission is granted by the Railway Commission.

Work was commenced February 7, by day labour, and completed March 22.

Roadway.

Authority was granted to build a plank roadway from the end of Salisbury drive to the lower end of the railway entering the shed at the south end of the Government wharf.

The completed work which was done by day labour, consists in a plank roadway 258 feet long and 24 wide, 4-inch plank and 6- by 12-sills being used.

This work was commenced February 2 and completed February 16.

FIRST NARROWS.

Dredging.

The entrance to Burrard inlet from the sea is through a contracted channel known as the First narrows. This channel is of varying width, the least being opposite Prospect point, where it was originally 450 feet between 30-foot contours. The work being performed has for its object the widening of this channel to 1,200 feet and deepening it to 35 feet below L.W.O.S.T. The departmental ladder dredge Mastodon has been used on this work with very satisfactory results. The following table gives the details for this year:—

Dates between which work	Cubic yards,	
was performed.	scow measurement.	Material.
April 1, 1916, to March 31, 1917	516,510	Gravel and sand.

The work undertaken this year was performed under considerable difficulty. The outer main cut has been worked periodically from year to year from the outer ends to the centre, on account of the city water pipes that cross the narrows having to be removed to allow the dredging to be done. A hogsback, some 850 feet long by 400 wide, remained to be removed this year. The action of the strong current caused the upper part to spread, and necessitated covering additional area as the cut silted up on each side of the hogsback.

The dredge operated with only one shift this year which necessarily made the yardage smaller than previous years. The following table gives the amount removed to the 31st March, 1817:—

1011 10	0.40.000	. 1. 1	1.		
1911-12	249,620				measurement.
1912-13	207,000				"
1912-13, Parthia Shoal	134,700				* *
1913-14	737,180				4.4
1914-15	922,480				4.6
1915-16	969,020				1.6
1916-17	516,510	"	44	4.6	"
	3,736,510	**	"	4.6	44

The grand total for the improvement of the First narrows as outlined in 1915-16 annual report, amounted to 3,553,526 cubic yards, place measurement, or 4,264,231 cubic yards, seew measurement, with an expansion factor of 20 per cent; of this amount there still remains 527,721 cubic yards to complete the original scheme. The work as proposed embraces this 527,721 yards from the original north shore cut, 88,587 yards from a triangular piece at the extreme east end, and 197,755 yards to complete Parthia shoal to a minimum depth of 35 feet, making a total of 814,065 yards, seew measurement, to complete the work in the narrows to 35 feet B.L.W.O.S.T., as at present contemplated. Of this amount it is proposed to remove 676,743 cubic yards during the year 1917-18.

It is not possible to give the dimensions of the work this year, owing to its irregular nature.

False Creek.

The dredging in False creek has for its object the utilizing as an additional harbour to that of Burrard inlet of a long, narrow, shallow basin of tidal water running from English bay to the centre of the city. This work necessitates the deepening of a channel some 13,500 feet long, 350 wide, and 20 feet deep at L.W.O.S.T. from grade at English bay to the Great Northern Railway Bridge crossing the creek, together with a dredged cut some 2,400 feet long and having an average width of 188 feet, running northerly from the inner end of the main channel and having a depth of 12 feet B.L.W.O.S.T, besides providing for two turning basins on opposite sides of the channel.

On March 3, 1913, a contract was awarded to the Pacific Dredging Company of Vancouver, B.C., to remove 3,300,000 cubic yards of various materials at a flat rate of 21 cents per cubic yard, place measurement. A further amount of 542,000 cubic yards was authorized on December 24, 1913, to be taken out of the turning basin at the inner end of the cut. Authority was also granted to remove 425,274 cubic yards from a turning basin on the south side of the main channel just east of Granville Street bridge.

This work was completed during the month of April. The total excavation is made up as follows:—

Main channel	3,108,727.60		yards.
stopes	267.123.40	"	**
Turning basin No. 1	539,662.00		44
" No. 1, slopes	41.520.05	44	44
" No. 2	337,080.50		44
" No. 2, slopes	16,082.70	**	"
	4,310,196.25	"	"

VICTORIA HARBOUR.

Victoria, the capital of British Columbia, with a population of 50,000, lies at the southern end of Vancouver island and at the eastern end of the Juan de Fuca strait. Ocean-going vessels at present dock at the outer wharves near the entrance to the inner harbour, which is between Shoal and McLoughlin points.

The dredging carried out during the past year had as its main object the further improvement of the channel to James bay by the removal of rock to the south of Pelly island and to the west of Songhees point, also the removal of rock to the east of Songhees point to provide additional facilities for vessels leaving the Canadian Pacific Railway wharves, and the removal of Turpel's rock in the centre of the upper harbour. The navigable area is being gradually increased year by year, and the grade of 20 feet below low water, over areas already covered, is maintained. The following plant, which worked on single shift only, assisted with the work done: Dredges Ajax, Mudlark, Victoria, Lobnitz rockbreaker No. 1, drill plants No. 1 and 2. The dredges Ajax and Victoria worked at various places away from Victoria during the year.

The dredging which is being carried out at the entrance to the harbour by the Pacific Dredging Company to provide fill for the piers constructed at Ogden point has resulted in the widening of the west side of the channel between McLoughlin point and Behren's island from 100 to 300 feet, while a considerable improvement has been made at the entrance to the outer wharves by the deepening of an area approximately 16 acres in extent from 30 to 35 feet below low water, which will facilitate the manœuvring of vessels when entering and leaving. A considerable amount of material has also been removed from West bay. While this work has been in progress, the departmental plant has been withdrawn from this part of the harbour. The removal of rock to the south of Pelly island has been continued, resulting in an increased width of about 200 feet. Platform rock, which at the beginning of 1914 was dry at low tide, has been entirely removed, and Princess rock has been cut back about 150 feet. The beacon marking the channel south of Pelly island has been placed 250 feet west and 100 north of its position one year ago, with the result that vessels are now enabled for the first time in the navigation of the harbour to take an approximately straight course between Laurel point and the bend in the channel at Shoal point.

The dredging of a new channel to the north of Pelly island has been commenced where it has been ascertained that a minimum width of 300 feet can be obtained without any rock work. An additional average width of 80 feet was provided near the narrowest part of the channel on its northerly side, west of Songhees point. The entrance to the Canadian Pacific railway wharves, where silting up had taken place, was dredged to 20 feet below low water, and a mooring basin having the same depth was

provided in James bay. A great improvement was made to the southeast of Songhees point by the complete removal of Beaver and Tuzo rocks, resulting in an additional 200 feet of width, straightening the channel for the Canadian Pacific Railway boats when leaving port and enabling the spar buoy to be dispensed with. Additional width of about 80 feet has been provided at Hospital rock east of Songhees point, and further improvement will be given at this point in the near future which will be of considerable assistance to vessels when managuring on leaving port. The removal of rock immediately south of the Esquimalt and Nanaimo Railway bridge has been commenced. as it is advisable that this work should be done prior to the construction of the proposed Johnson street bridge. A basin was dredged to 14 feet at low water at the city garbage wharf at the expense of the city of Victoria and additional depth provided at the Marine Department's wharf. Progress is being made with the removal of Turpel's rock, the main obstacle remaining in the upper harbour. A berth was provided at the shipbuilding yards, in which new vessels can lie in the period between launching and completion, while the area fronting their launching ways is being deepened to 20 feet below low water, and this same depth has been given at the Victoria Whaling Company's wharf. A channel dredged to 5 feet below low water to the city vard north of the Point Ellice bridge was completed early in the fiscal year.

Summary of material removed from Victoria harbour during the year by the departmental plant:—

	Cubic Y	čards.
North side of channel, Pelly island to Soughees point Soughees point to E. & N. Ry, bridge Turpel rock, upper harbour	7.7()()	Total.
ŀ	lardpan, Clay	42,196
o 20 feet below L.W.L.—	and Silt.	
Near Shoal point	6,800	
entrance to harbour and Soughees point	135,819	
Adjacent to C.P. Ry, wharves. West side of channel between Songhees point and E. &	21.804	
N. Ry. bridge	18,342	
Upper harbour, north of E & N. Ry, bridge	16,016	
City garbage wharf, Upper Harbour	F(2 ()	
Channel to city asphalt plant	988	
		200,389
Total excuvation during the year (scow neasu	weent).	222.555

The quantities of rock to be credited to the drill plants and rock breaker are as follows:—

Lobnitz rock breaker "No. 1"	 11,978 cubic	yards.	
Drill plant "No. 1"	 6,646	* *	
Drill plant "No. 2"	 3,572	€.	
	22,196 "	• •	scow measurement.

The excavated material was removed as follows:—

		Hardpan, Clay	
	Rock.	and Silt.	Total.
By dredge $Ajax$,	16,441	95,815	112,256
" " $Mudlark$		100.985	100,985
" " Victoria	5,755	3,5 \ 9	9,344
	22,196	200,389	222.585
The calculated place measurement quantities removed are as follows.	12,170	151,176	163,646

The nature of the material removed consisted of granite of a very hard nature

and lacking in cleavage, hardpan, blue clay, mud and sand.

The work of first importance during 1917-18 is the further removal of rock to the south of Pelly island, in the vicinity of Songhees point and on the west side of the channel between Songhees point and the Esquimalt and Nanaimo Railway bridge, and the removal of Turpel's rock.

The excavation of the new channel to the north of Pelly island will be continued, and this may be looked upon as preliminary to the eventual removal of the whole of the rock in this vicinity and in the meantime will give an alternative entrance to

the harbour.

WELCOME HARBOUR.

Welcome harbour, Comox-Atlin district, is situated in Half Moon bay on the mainland, opposite Welcome pass, and about 40 miles from Vancouver. The work consists of a float, 28 by 42 feet, of nine cedar logs, nine cross-ties, 8 by 10, fastened to the logs by drift bolts, and flooring 2 by 12 plank spiked to the cross-ties with 6 by 6 guard rails all around. This float is anchored to a 6-ton rock connected with a 1-inch chain, 110 feet long. A shed, 12 by 16 feet, was built on one end.

This work was performed by day labour, commenced October 4 and completed

October 21.

WESTHAM ISLAND.

To do very necessary protection work at Westham island, in the main channel of the Fraser river, where the current has been croding the banks and endangering the dykes, wing dams were built. The completed work consists in 300 feet of bank protection and a new wing dam 125 feet long.

Work was commenced in June and completed in October.

WILLIAM HEAD.

William Head is a quarantine station on the Juan de Fuca straits, 10 miles from Victoria, where ocean-going steamers report before proceeding to Victoria and Vancouver.

The work carried out during the fiscal year 1916-17 was as follows:-

Approach to Main Wharf.—The southerly approach to the main wharf, 374 feet in length, which was about twenty years old, required general renewals. Three bents at the shore end were renewed, together with caps, stringers, and handrail throughout the approach. The water pipe to the wharf was replaced and covered in.

Included with the above was the renewal of a Howe truss, 48 feet, and repairs

to the bents carrying same; also replacing of the gates leading to the wharf.

Repairs to coal wharf.—One outside stringer, two fender chocks, and the guard were renewed.

Repairs to float and boal-house.—Two cedar logs, 35 feet long, were taken from the beach and bolted in place, and the decking renewed.

The timbers of the derrick on the main wharf were renewed and the water main and roads repaired.

Dredging.

A request was received from the medical superintendent of the station that additional depth be provided adjoining the coal wharf for turning and mooring facilities for the D.G.S. Madge. The removal of 1,639 cubic yards, place measurement, of sand and mud was made by the dredge Victoria. A depth of 16 feet at low water was given over most of the area covered and 1.645 cubic yards, place measurement,

or 2.286 cubic yards, seew measurement, of material were removed between October 16 and 26, 1916. The area dredged will fill up by deposit of silt at a slow rate, and should not require re-dredging for ten years.

Repairs and improvements were made on harbour works at the following places that are not mentioned in the body of the report:—

Nova Scotia.—Anderson's Cove. Arichat, Baker's Point, Barrington Head, Bass River, Battery Point, Belliveau's Cove, Black Point, Blanche, Boularderie Centre, Broad Cove Marsh, Burlington, Canso, Caribou Island, Catalone Gut, Centreville, Chebogue, Chegoggin, Comeau's Cove, Cottage Cove, Cow Bay, Devil's Island, Digby. Eatonville, East Chezzetcook, Findlay Point, Fox Island, Gabarous, Georgeville. Glace Bay, Hall's Harbour, Hampton, Herring Cove, Irish Cove, Jamesville, Jeddore, Johnston's Harbour, Kelly's Cove, L'Ardoise, Lingan Beach, Little Anse, Little Bras d'Or. Little Harbour, Livingston's Cove, Long Cove, Mabou. Marble Mountain. Margaree, Margee Island, Margaretville, Meteghan, Meteghan River, Middle River, Mill Cove, Morden, McKay's Point, Neeum Teuch, Neil's Harbour, New Campbellton. Newellton, North River, Nyanza, Parker's Cove, Path End, Phinney's Cove. Pictou Island, Pleasant Bay, Port George, Port Hastings, Port Hood, Port Lorne, Port Maitland, Port Wade, Portuguese Cove, Poulemond, River Hebert, River John, Rose Bay, St. Joseph's, Salmon River, Sandy Cove, Saulnierville, Seaforth, Seal Island, Seaside, Selma, Short Beach, Skinner's Cove, South Cove, South Side, South Wallace, Spry Bay, Stony Island, Summerville, The Wharfs, Three Fatham Harbour, Trout Cove. Turner's Island, Upper Washabuck, Upper Woods Harbour, Washabuck Centre, Wedge Point, West Chezzeteook, Western Head, West Pubnico, White Point, Whitewaters, Whycocomagh, Wolfville, Yarmouth.

Prince Edward Island.—Belfast, Brae, Brudenell, Chapel Point, China Point, Cranberry, Cove Head, Graham's Pond, Head St. Peter's Bay, Hickey's, Hurd's Point, Little Sands, Lennox Island, Murray Harbour South, Naufrage Pond, New London, Prim Island, Pownal Bay, Port Hill, Summerside, Tignish.

New Brunswick.—Albert, Anderson's Hollow, Baker's, Bass River, Bay du Vin, Black's Harbour, Burnt Church, Campbellton, Chockfish, Dorchester, Earl's Wharf, Edgett's Landing, Fairhaven, Gautreau Village, Grand Anse, Hatfield Point, Hopewell Cape, Iroquois River, Lameque, Leonardville, Loggieville, Long Point, Mills' Point, Maugerville, McGowan's, North Head, Oak Point, Oromocto, Petit Rocher, Portage River, Quaeo, Richibucto Beach, St. Andrew's, Sackville, Scotchtown, Stonehaven, Thomas Creek, Wilson's Beach.

Quebec.—Anse St. Jean, Anse a l'Eau, Anse aux Gascons, Ayer's Cliff, Aylmer, Barachois de Malbaie, Belœil, Berthierville, Brewer's Creek. Bryant's Landing, Buckingham, Cap St. Ignace, Carleton, Chateauguay, Chicoutimi, Contrecœur, Cross Point, Desjardins, Dodd's Landing, East Templeton, Escoumains, Esquimaux Point, Fabre, Fassett, Gatineau River, Georgeville, Glen Almond, Grindstone, Grosse Isle, Grosse Roche, Havre aux Maisons, High Falls, Hudson, Iberville, Ile Perrot North. Kamouraska, Lake Megantic, Lanoraie, Lavaltrie, Les Eboulements, l'Islet, Magog, Malbaie, Matane, Mechins, Mille Vache, Montmagny, Moose Bay, Natashquan. Nominingue, North Hatley, Peribonka, Piche Point, Pierreville, Pointe St. Pierre, Pointe a Cote, Pointe a Elie, Point Shea, Poltimore, Repentigny, Rigaud, Riviere aux Vases, River du Loup, River Noire, St. Alexis, St. Alphonse de Bagotville, St. Andrew's, Ste. Anne de la Pocatiere, St. Anicet, St. Antoine Station, St. Barthelemi, St. Charles Borromee, St. Charles de Caplan, St. Eloi, St. Emelie, St. Famille, Ste. Felicite, St. Francois du Lac, St. Francois Sud, Ste. Genevieve, Ste. Genevieve de Batiscan, St. Godfroy, St. Ignace de Loyola, St. Ireneé, St. Joseph de Sorel. St. Laurent, St. Louis River, St. Mathias, St. Michel, St. Omer. St. Ours, St. Paul de l'Isle aux Nois, St. Simeon, St. Valier, Seven Islands, Sorel, Squateck, Terrebonne. Vaudreil, Verdun, Ville Marie, Wendover, Woburn, Woodman's Beach.

Ontario.—Allandale, Beaumaris, Brighton, Burleigh Falls, Charlton, Crow's Landing, Cumberland, Dyer's Bay, Grand Bend, Griffith's Island, Juniper Island, Kenora, Kensington, Kingsville, Learnington, McCracken's Landing, Meaford, Midland, Minaki, Oliphant, Pelec Island, Pembroke, Porcupine, Port Bruce, Port Stanley, Rondeau, Rosseau, St. Joseph's Island, St. Williams, Sand Point, Sandy Point, Saugeen River, Silver Centre, Southampton, Stanley Island, Sturgeon Falls, Thornbury, Wheatley, Wiarton.

Manitoba.—Gimli, Huansa, Winnipeg.

British Columbia.—Ainsworth, Argenta, Bingley's Landing, Bold Point, Campbell River, Capilano, Chilliwack, Churchouse, Comox, Cowan's Cove, Crofton, Deer Park, Dignan's Bay, Eagle Cliff, East Arrow Park, Eburne, Fanny Bay, Fulford Harbour, Gillies Bay, Gleu Valley, Gower Point, Grace Harbour, Granite Bay, Grantham's Landing, Gray Creek, Haleyon, Heriot Bay, Kincolith, Lund, Maples, Mary Island, McDonald's, Metchosin, Nootka Island, Pender Harbour, Pitt River, Prince Rupert, Quatsino, Renata, Revelstoke, Robert's Bay, Roy, Royston, Saanichton, Savary Island, Scaside Park, Shoal Bay, Shushartie Bay, Sidney, Sidney Island, Skidegate, Stewart, Stag Bay, Totino, Tucker Bay, Union Bay, Van Anda, Vargas Island, Whaletown, Winter Harbour, Wolfsens Bay, Wyatt Bay.

DREDGING OPERATIONS.

Contract Diedging 1916-17.

Brundages Point, N.B.—Under agreement with New Brunswick Dredging and Construction Co. Dredge New Brunswick.

Quantity removed: 2,699 cubic yards, place measurement, at 27½ cents per cubic yard. Class B, sand.

Amount passed for payment, \$742.23; inspection, \$18.61; total expenditure, \$760.84.

Work commenced: May 22, 1916; completed, May 25, 1916.

Object of work: To provide depth of 4 feet below low water in log pond of Wilson Box Co. at above place.

Bathurst, N.B.—Under contract No. 10158 with Northern Dredging and Construction Co., Ltd. Dredges Hayward and Invader.

Quantity removed: 285,091.9 cubic yards, place measurement, at 30 cents per cubic yard. Class B, sand and mud.

Amount passed for payment, \$92,598,90; inspection, \$1.941.52; total expenditure, \$94,540.42.

Work commenced: June 27, 1916; suspended for season, November 24, 1916.

Object of work: To dredge turning basin 21 feet deep at L.W.O.S.T., and at highway bridge and channel in inner harbour, up to basin, 17 feet deep and 200 feet wide. Black River, N.B.—Under agreement with Felix Michaud. Dredge Excavator.

Quantity removed: 6,692,56 cubic yards, scow measurement, at 36 cents per cubic yard. Class B, mud sand, and shells.

Amount passed for payment, \$2,332.77; inspection, \$228.25; total expenditure, \$2,561.02. Work commenced: July 1, 1916; Completed, October 2, 1916.

Object of work: To dredge a channel 30 feet wide, 1,000 feet long, above the highway bridge across the flats which at low tide cut off deep water above the bridge from Buctouche harbour.

Cobourg, Ont.—Under agreement with R Weddell Co. Dredges Togo and Trenton.
Quantity removed: 21,888 cubic yards, seew measurement, at 20 cents per cubic yard.
Class B, sand.

Amount passed for payment, \$4,377.60; inspection, \$199.60; total expenditure, \$4.577.20. Work commenced: May 24, 1916; completed, August 17, 1916.

Object of work: To complete widening and deepening of outer harbour and to facilitate turning of car ferry south of check-water when inner harbour is frozen.

Church River, N.B.—Under agreement with F. A. Fowlie. Dredge Fowlie.

Quantity removed: 6,568.9 cubic yards, scow measurement, at 35½ cents per cubic yard. Class B, mud and sand.

Amount passed for payment, \$2,331.96; inspection, \$186.26; total expenditure, \$2,518.22.

Work commenced: August 21, 1916; suspended for season, November 11, 1916.

Object of work: To dredge channel 40 feet wide through shoals above and below the bridge and give passage from Miramichi bay to deep water in river.

False Croek, B.C.—Under contract No. 9,493 with Pacific Dredging Co., Ltd. Dredges Puget Sound and Robson No. 1.

Quantity reported to have been removed: 1,073,745 cubic yards, place measurement, at 21 cents per cubic yard. Class B, sand, gravel, clay and boulders.

Amount passed for payment, \$225,486.45; inspection, \$13.263.97; total expenditure, \$238,750.42.

Work commenced: April 1, 1916; completed, March 7, 1917.

Object of work: To complete dredging of channel 350 feet wide and 20 feet deep at L.W.O.S.T., up to Columbia street, channel at Columbia street 12 feet deep, commenced in 1913, and to provide another turning basin east of Granville Street bridge.

Freddy Channel, Ont.—Under agreement with Penetanguishene Dredging Co. Dredge Hackett No. 4.

Quantity removed: 4.018 cubic yards, place measurement, at 40 cents per cubic yard. Class B, sand, clay, mud, hardpan and rocks.

Amount passed for payment, \$1,607.20; inspection, \$98; total expenditure, \$1,705.20.

Work commenced: May 23, 1916; completed, June 23, 1916.

Object of work: Removal of shoals 2 and 3. To complete main channel by dredging a cut about 740 feet long 48.5 feet wide and 10 feet deep.

Fort William, Ont.—Under contract No. 7170 with Great Lakes Dredging Co. Dredge No. 5.

Quantity removed, 26½ cubic yards, class A, at \$2.85; 12,395½ cubic yards, class B, at 16 cents, seew measurement, sand, clay, and boulders.

Amount passed for payment, \$2,058.80; inspection is included with contract 7339. Work commenced: June 3, 1916; completed, June 13, 1916.

Object of work: To dredge slip No. 2 of the Grand Trunk Pacific Terminal basin.

Fort William, Ont.—Under contract No. 7339 with Great Lakes Dredging Co.

Dredges Empire. No. 5, No. 6, and Dominion.

Quantity removed: 1,418,319 cubic yards, scow measurement, at 141 cents to 26½ per cubic yard, according to locality and haul. Class B, clay and sand.

Amount passed for payment, \$251,306,35; inspection, \$3,857,40; total expenditure, \$255,163,75.

Work commenced: June 7, 1916; suspended for season, December 9, 1916.

Object of work: To widen to 500 feet and deepen to 25 feet the Kaministikwia and Mission rivers from deep water in Thunder bay up to and including the enlarged turning basin at Westfort.

Grand Lake, N.B.—Under contract No. 10889 with L. W. Nickerson. Dredge New Branswick No. 1.

Quantity removed: 13542.9 cubic yards, place measurement, at 14½ cents per cubic yard. Class B, mud, clay, and sawdust.

Amount passed for payment, \$1,963.72; inspection, \$52.50; total expenditure, \$2,016.22. Work commenced: May 31, 1916; completed, June 16, 1916.

Object of work: To provide a channel 150 feet wide and 9 feet deep at the outlet of Grand lake into the Jemseg river.

Little Detroit, Ont.—Under contract No. 10531 with C. S. Boone Dredging and Construction Co., Ltd. Dredge Kingsford.

Quantity removed: 1,490.9 cubic yards, place measurement, at \$3 per cubic yard. Class A, rock.

Amount passed for payment, \$4,472.70; removal of wreck, \$100; inspection and survey, \$419.66; total expenditure, \$4,992.36.

Work commenced, October 4, 1916; completed, November 2, 1916.

Object of work: To give a minimum width of 100 feet and depth of 18 feet in Little Detroit ehannel.

Lillooet River, B.C.—Under agreement with I. W. Pyke.

Amount passed for payment, \$1,011: inspection, \$150; total expenditure, \$1,161.

Maloney's Wharf, Nelson, N.B.—Under agreement with Peter England. Dredge Peter England.

Quantity removed, 13,495 cubic yards, scow measurement, at 35\frac{3}{4} cents per cubic yard. Class B, mud, clay and gravel.

Amount passed for payment: \$4,824.46; inspection, \$146.56; total expenditure, \$4,-971.02.

Work commenced: August 16, 1916; completed, November 3, 1916.

Object: To dredge berth at John Maloney wharf.

Nigger Island, Out.—Under contract No. 9,015, with R. Weddell & Co. Authority of O.C., December 22, 1916.

Quantity removed: 7.667 cubic yards. Class A, rock at \$4.50 per cubic yard, place measurement.

Amount passed for payment, \$34,501.50.

Object of work: To pay for dredging done in 1913 in widening the channel at Nigger Island to 200 feet and 14 feet depth.

Port Arthur, Ont.—Under contract No. 9490. Dredge Kenniquhair.

Quantity removed: 427,753 cubic yards, scow measurement, at 13 cents per cubic yard. Class B, sand and clay.

Amount passed for payment, \$55,416.93; inspection, \$690; total expenditure, \$56,-

Work commenced: May 16, 1916; suspended for season, December 14, 1916.

Object of work: Dredging main harbour south to 25 feet, provide joint slip 25 feet deep between elevators proposed to be constructed by Saskatehewan Co-operative Elevator Company and Grain Grower's Grain Company, together with channel extending to area already dredged to 25 feet.

Picnic Island, Ont.—Under contract No. 7816 with C. S. Boone Dredging and Construction Co., Ltd.

Inspection: \$3,129.88.

Final estimate, 228,798 cubic yards, \$392,946.04.

No payment involved.

Completed, October 17, 1916.

Object of work: Completion of channel 5,000 feet long, 300 feet wide and 22 feet deep through Picnie Island shoals.

Port Hope, Out.—Under contract No. 11028 with Randolph Macdonald Co., Ltd. Dredge McDonald No. 10.

Quantity removed: 38,096 cubic yards, place measurement, at 18 cents per cubic yard. Class B, sand and mud.

Amount passed for payment, \$6,857.28; inspection, \$246.61; total expenditure, \$7,103.89.

Work commenced: June 14, 1916; completed, August 31, 1916.

Object of work: To clean up to 16 feet below low water inside the harbour and to 18 feet below low water in outer entrance channel.

Port Maitland, Ont.—Under contract No. 11062 with Great Lakes Dredging Co., Ltd. Dredges Shuniah and No. 8.

Quantity removed: 628,703.15 cubic yards, place measurement, at 12 cents per cubic yard. Class B, sand, clay, and gravel.

Amount passed for payment, \$75,444.38; inspection, \$1,518.48; total expenditure, \$76,962.86.

Work commenced: June 29, 1916; suspended for season, November 17, 1916. Object of work: To dredge entrance channel 325 feet wide to Grand River channel in river 435 feet inside from its mouth to the T. H. and B. ferry slip and turning basin opposite ferry slip, and continue channel up to near Broad creek.

Palmers Wharf, N.B.—Under agreement with New Brunswick Construction Co., Ltd. Dredge New Brunswick.

Quantity removed: 1,674-1 cubic yards, place measurement, at 30 cents per cubic yard. Class B, mud.

Amount passed for payment, \$502.23; inspection, \$12.62; total expenditure, \$514.85. Work commenced: June 27, 1916; completed, June 30, 1916.

Object of work: To dredge basius 9 feet deep upstream and downstream of low water wharf.

Penetanguishene, Ont.—Under agreement with Penetang Dredging Co.

Quantity removed: 1,500 cubic yards, place measurement, at 40 cents per cubic yard. Amount passed for payment, \$600.

Completed: July 10, 1916.

Object of work: To enlarge the basin 20 feet deep to 500 by 500 feet at Esplanade wharf.

River St. Maurice, Que. (Middle channel.)—Under agreement with F. C. Burns. Dredge Capital.

Quantity removed: 25,448 cubic yards, scow measurement, at 19½ cents per cubic yard. Class B, sand, clay, and slates.

Amount passed for payment, \$4,962.36; inspection, \$197.20; total expenditure, \$5,159.56. Work commenced: May 4, 1916; completed, July 3, 1916.

Object of work: To clean out the log-floating channel 4 feet deep, and barge channel 8 feet deep, in middle channel of river St. Maurice, at Three Rivers.

River St. Maurice, Que. (Western outlet.)—Under contract No. 11117 with La Cie Generale d'Enterprises Publique. Dredge New Welland.

Quantity removed: 45,634 cubic yards, scow measurement, at 9 cents per cubic yard. Class B. sand and clay.

Amount passed for payment, \$4,107.06; inspection, \$190.88; total expenditure, \$4,297.94.

Work commenced: November 4, 1916; suspended for season, November 21, 1916.

Object of work: To dredge channel from deep water in St. Lawrence river up Western channel to proposed wharf, 4,200 feet long to 15 feet below L.W. and 80 feet wide.

Sand Point, N.B. (St. John, N.B.)—Under agreement with J. S. Gregory. Dredge Keta.

Quantity removed: 6,002.5 cubic yards, scow measurement, at 29 cents per cubic yard. Class B, mud.

Amount passed for payment, \$1,800.75; inspection. \$42; total expenditure, \$1.842.75. Work commenced: October 2, 1916; completed, October 12, 1916.

Object: To clean up Sand Point berths.

St. John West, N.B., Slip No. 1.—Under agreement with Maritime Dredging and Construction Co., Ltd. Dredges Beacon Bar and Beaconfield.

Quantity removed: 12,787 cubic yards, seew measurement, at 37 cents per cubic yard. Mud, clay, gravel and stones.

Amount passed for payment, \$4.859.06; inspection, \$166.80; total expenditure, \$5,025.86.

Work commenced: October 16, 1916; completed, December 20, 1916.

Object of work: To clean out deep water berth at this wharf.

St. Croix River, N.B.—Under agreement with Government of the United States. Amount passed for payment, \$19,891.65 (being 10 per cent of total cost); inspection, \$1,090.30; total expenditure, \$20,981.95.

Work commenced: April 24, and completed. October 26, 1916.

Wanbaushene, Ont.—Under agreement with Penetang Dredging Co. Dredge No. 4. Quantity removed: 18.293 cubic yards, place measurement, at 26 cents per cubic yard. Class B, clay, hardpan, rocks and boulders.

Amount passed for payment, \$4.756.18; inspection, \$336.08; total expenditure, \$5,092.26.

Work commenced: July 31, 1917; completed, November 16, 1917.

Object of work: To provide least width of 100 feet, depth 11 feet, in Sturgeon Bay tug channel, length about 5.640 feet.

Clementsport, N.S.—Under direction of District Engineer Dodwell. Day labour, 4,252 cubic yards.

Amount passed for payment, \$1,600.

Object of work: Improvement of channel.

Cowichan, B.C.-Under direction of District Engineer Mitchell. Day labour.

Amount passed for payment, \$312.75.

Object of work: To provide small boat channel by removal of boulders from bed of Cowichan river between the lake and the town.

Cocagne, N.B.—Under direction of District Engineer Stead. Day labour, 5.858 cubic yards.

Amount passed for payment, \$1,745.80.

Object of work: To continue dredging of channel 30 feet wide, 2½ feet deep, and 8,400 feet long, to provide passage from Cocagne harbour north to fishing grounds in Northumberland strait.

East River, N.S.—Under District Engineer Millidge. Day labour.

Amount passed for payment, \$75.

Object of work: Removal of boulder from channel being dredged by P.W.D. No. 5 in East river of Pictou harbour, N.S.

Grand Anse, N.B.-Under direction of District Engineer Stead, day labour,

Amount passed for payment, \$709.30.

Object of work: To dredge inside east pier and inside breakwater pierhead.

Hampstend, N.B.—Under agreement with L. W. Nickerson.

Amount passed for payment, \$75.

Object of work: Removal of old crib.

Kouchibougnac River, N.B.—Under direction of District Engineer Stead. Day labour, 1,782 cubic yards.

Amount passed for payment, \$533.67.

Object of work: To dredge channel to allow scows to carry mussel, mud, gravel, etc., on river.

Malagawatch, N.S.—Under direction of District Engineer Bernasconi. Day labour, 974 cubic yards.

Amount passed for payment, \$621.59.

Object of work: To clean out Malagawatch channel.

Main River, N.B.—Under direction of District Engineer Stead. Day labour, 580 cubic yards.

Amount passed for payment, \$210.72.

Object of work: Removal of shoal in passage through swing bridge on Richibucto river at Main river.

Margaree Harbour, N.S.-Under agreement with Ernest F. Munro.

Amount passed for payment, \$200.

Object of work: Removal of boulders from channel entrance between piers.

Point Sapin, N.B.—Under direction of District Engineer Stead. Day labour.

Amount passed for payment, \$\$15.96.

Object of work: To dredge channel entrance 100 feet wide, 80 to 200 feet long through obstructing shoal, and to dredge sheltered basin inside pierhead 200 feet by 100 feet for vessels to shelter.

Parker's Cove. N.S.—Under direction of District Engineer Dodwell. Day labour, 1,130 cubic yards.

Amount passed for payment, \$990.73.

Object of work: To effect improvement by removal of an accumulation from westward of the breakwater.

River St. Louis, N.B.—Under direction of District Engineer Stead. Day labour, 1,169 cubic yards.

Amount passed for payment, \$434.84.

Object of work: To dredge a berth on southeast side of public wharf.

Shediac Bay, N.B.—Under direction of District Engineer Stead. Day labour.

Amount passed for payment, \$628.37.

Object of work: Dredging of channel across shoal area to provide passage from Grandigue wharf to Shediac bay.

St. Charles River, N.B. (Big Aldonane River.)—Under direction of District Engineer Stead. Day labour, 2.892 cubic yards.

Amount passed for payment, \$889.50.

Object of work: Completion of channel 30 feet wide, and about 1 foot deep at low water, being continuation of past three seasons' work.

St. John River, N.B.—Under direction of District Engineer Small. Day labour. Amount passed for payment, \$1,975.

Object of work: Removal of snags from St. John river and its tributaries between Fredericton and St. John.

Tabusintac, N.B. (Black Lands.)—Under direction of District Engineer Stead. Day labour, 1.982 cubic yards.

Amount passed for payment, \$799.95.

Object of work: Deepening of channel to assist passage of rafts of logs.

8 GEORGE V, A. 1918
DEPARTMENTAL DREDGES, CALENDAR YEAR 1916.

Dredge Number.	Worked, 1916.	Place.	Quantity.	Total.	Cost.	Cost per Yard
1	Jan. 1-Dec. 23	St. John, N.B Digby, N.S Yarmouth, N.S	 $123,203 \\ 54,150 \\ 57,065$	234, 418	92,559 42	.39.
3	July 10-Nov. 15	Buctouche, N.B Bathurst, N.B	No record 65,917	65,917	27,001 86	· 40
.5	June 28-Nov. 2	East River, N.S Pictou, channel	$50,001 \\ 385,001$	435,002	41,102 89	.09
6	Jan. 3–Dec. 31	Canso, N.S., Lunenburg, N.S.,	$\frac{100}{69,515}$	69,615	46, 113 93	· 66
7	June 30-Nov. 18	Liverpool, N.S.	48,700	48.700	25.814 17	. 53
9	Aug. 7-Nov. 25	Georgetown, P.E.1 Panmure Island St. Marys Sturgeon Poplar Point Grand River	3,200 11,240 4,300 6,800 2,000 4,900	32,440	18,416 27	. 56
10	May 30-Nov. 21	Charlottetown, P.E.I.— Railwey wharf Asylum wharf McAuleys shore. Connelleys wharf McConnells wharf Pownat wharf	7,500 12,475 6,800 6,250 3,725 3,175	39, 925	17,789 34	-44
11	July 21-Nov. 1.	Malpeque, P.E.1 Rustico, P.E.1	$\begin{array}{c} 13,275 \\ 2.950 \end{array}$	16, 225	10.650 55	- 65
133	June 19-Dec. 6 .	Buctouche, N.B	58,196	58,196	21,417 00	-36
14	May 27- Nov. 1	Amherst, N.S	20, 250.	20,250	6.068 21	- 25
15 Rock-	June 22-Dec. 2	Oaklands, N.S., Lunenburg, N.S., Gold River, N.S., Eastern Point, West Dublin, N.S.,	7,068 $4,510$ $3,215$ 971 $1,956$	17,720	5,439 90	.27
breaker No. 3	Jan. 1-Dec. 4	Lunenburg, N.S.	28, 262	28,262	14.207 06	. 50
102	June 24-Nov. 11	La Salette, P.Q Poupore, P.Q.	$\frac{2,123}{25,673}$	27,796	12.722 90	.43
103	May 20-Dec. 9	Hawkesbury, P.Q.	38, 134	38,134	11,587 27	- 30
106	May 15-Nov. 18	Bariscan, P.Q Riv. du Loup, P.Q Ottawa, Ont	$35,215 \ 11.936 \ 409$	50, 560	11, 214 76	2:
109	May 8-Nov. 22.	Owen Sound, Ont. Penetanguishene, Ont Collingwood, Ont	35,762 67,915 19,104	122,781	22,858 01	1 18
110	May 15-Dec. 7	Longueuil, P.Q Bagotville, P.Q	24,387 $81,032$	105,419	28,992-82	2 -27
112	Oct. 5-Nov. 25	French River, Ont	1,875	1.875	4.198 33	2 · 25
114	April 24-Nov. 13.	Port Burwell, Ont Hamilton, Ont	 $52,966 \\ 3,264$	56,230	11,919 02	2 -2
115	May 15-Dec. 9	Les Eboulements, P.Q Bagotville, P.Q Saguenay river, P.Q	3,389 2,662 67,746	50.5 0	33,453 00	.4.

SESSIONAL PAPER No. 19

DEPARTMENTAL DREDGES, CALENDAR YEAR 1916—Continued.

	1			1		
Dredge Number.	Worked, 1916.	Place.	Quantity.	Total.	Cost.	Cost per Yard.
117	April 17-Dec. 30	Port Burwell, Ont Hamilton, Ont Burlington, Ont	103, 674 59, 086 22, 330	185,090	36,367-32	· 196
119	June 8–Nov. 15.	Longueuil, P.Q	2,014 4,979 174 14,834 5,855	27 N56	10, 249 68	-367
120	May 13-Nov. 18	River Thames, Ont	50,270 11,050		16,449 23	
121	May 17-Dec. 2	Verdun.	17,610	17,610	10.423 32	- 591
123	May 22-Dec. 5	Ste. Anne de Bellevue, Que	33,978	33,978	16,889 11	.497
Steam	June 26-Nov. 17	St. Alphonse, Que	1,025			
Derrick		Anse St. Jean, Que Chicoutimi, Que St. Catherines, Que	2, 135 50	3,210	3,554 48	1 · 107
201	May 6-Oct. 31 .	Red River, Man Selkirk, Man	53,589 123,590	177, 179	11, 158-24	-06:
202	July 17-Oct. 31	Selkirk, Man Hole River, Man	34, 102 281	34,383	9,015 81	. 26:
204	May 13-Oct. 20	Red River, Man Dauphin River, Man Big George Island, Man	1,534 10,027 7,675	19.236	11,339 35	- 55!
205	May 20-Oct. 31	Red River, Man. Crescent Island, Man Lockport, Man	3,298 $71,676$ $14,900$	89,874	12,437 70	· 139
210	July 6-Sept. 15	Mossy River, Man Snake Island, Man	9,208 5,581	14,789	4,957 50	.33.
301	Jan. 1–Dec. 31	Victoria, B.C Nanaimo, B.C Union Bay, B.C Roys Beach, B.C	130,626 13,582 10,399 3,598	158, 205	58,771 31	-371
302	Jan. 1-Dec. 31	Proctor Narrows, B.C Kootenay Landing, B.C Cedar Creek, B.C	2, 160 11, 545 345	14,050	6,614-61	.470
303	Jan. 1-Dec. 31	Fraser River, B.C.	742,400	742,400	58,469 47	.07
304	Jan. 1–Dec. 31	Summerland, B.C. Kelowna, B.C. Penticton, B.C. Okanagan river, B.C. Okanagan Landing, B.C.	3,347 6,523 2,223 15,559 1,981	29,633	9,050 13	-30:
305	Jan. 1-Dec. 31	No Arm Fraser river, B.C Powell river, B.C Lulu Island, bridge, B.C Steveston, B.C Wallace Shipyard Squamish	14,515 37,300 76,315	, 401,225	54, 173 36	·13-
306	Jan. 1-Dec. 31	Vancouver, B.C			102,290 24	
307		Victoria, B.C	103,535	i i	33,484 76	

8 GEORGE V, A. 1918
DEPARTMENTAL DREDGES, CALENDAR YEAR 1916—Concluded.

Dredge Number.	Worked, 1916.	Place.	Quantity.	Total.	Cost.	Cost per Yard
311	Jan. 1-Dec. 31	Two Beacon Bar, B.C Grahams Landing, B.C Forest Glen, B.C Arrowhead, B.C	15,350 20,600 16,200 28,000	80, 150	9,607-25	· 12:
313	Jan. 1-Dec. 31	Victoria, B.C Esquimalt, B.C Williams Head, B.C.	$\begin{array}{r} 24.269 \\ 490 \\ 2,286 \end{array}$	27,045	15,274 81	- 56-
Rock- breaker No. 1	Jan. 1-Dec. 31	Victoria, B.C.,	9,666	9,666	29,229 85	3.020
Rock- preaker No. 2 Drllls	Jan, 1-Dec. 31	Nanaimo, B.C	5,422	5.422	28,414 68	5 · 240
	Jan. 1-Dec. 31	Victoria, B.C.	7,056	7,056	34,911-80	4.94

The following dredges were laid up for the year:-

	_	Expenses.
2 12 Stonelifter, No. 1 101 4 111 118 122 208 930	St. John, N.B. River St. Louis, P.Q. Magdalen Islands, P.Q. Roberval, P.Q. Cottawa, Ont. Halleybury, Ont., Grand Piles, P.Q. Cumberland House, Sask. Chase, B.C.	 18, 946 33 5, 220 42 1, 676 76 1, 907 35 6, 500 50 4, 727 09 28, 191 51 4, 401 43 2, 645 23 6, 309 31 162 25

DRY DOCKS.

LÉVIS DRY DOCK.

During the past fiscal year no important works of repair were executed; the dock and grounds were maintained and kept in good condition to dock and undock vessels as usual. The total expense for management, maintenance and repair was \$22,849.82; the revenue being \$25,588.16.

LAUZON.

(This work is described in the annual report for 1915.)

During the year 1916-17, the dry dock excavation was carried on for 200 feet in length, on its full width and depth, and for 200 feet in length, on half the width of dock and to full depth. The pump-house excavation was completed early in the summer.

The work on excavation started about April 10 and stopped around November 10, 1916, and was used as backfilling.

The dredge King Edward started work July 8 on the crib foundations and entrance channel, and stopped on September 24, after dredging 10,000 cubic yards of submarine rock.

On September 30 the work was resumed by dredge No. 6, Harbour Commissioner of Montreal, and up to November 25 she dredged about 23,000 cubic yards of submarine rock.

During the year six cribs were sunk; four for the eastern guide pier, one for the western guide pier, and one on the return crib from landing wharf. There are two more built, which are ready to be sunk this coming season. The cribwork was started in June and ended in November.

The concrete work started in May and ended in November. The main walls of dock were built from station 11+30 to station 7+00, and the bottom of dock from station 10+97 to station 7+00. The concrete foundations for the pump-house were built complete. The tunnel was also lined in with concrete during the present season.

The work on the rolling and floating caissons was carried on, and 102 tons of steel were erected for the rolling caisson and 710 tons of steel for the floating caisson.

In the power-house the erection of machinery was continued. In the generator room, two generators were installed (750 k.w. and 100 k.w.), and other machinery as condensors, pumps, etc. The switchboard and connections was also completed. In the boiler-room, the erection of the boilers was completed, the coal bunkers and mechanical stokers were partly built.

On March 31, 1917, a considerable amount of materials was on the work.

ESQUIMALT GRAVING DOCK.

During the past fiscal year, the staff have been employed in docking and undocking twenty-two ships, besides the usual routine work of keeping the ground clean and the buildings and machinery in repair.

An electrically driven direct-acting 6-inch submerged vertical centrifugal pump has been installed to replace the old steam-driven centrifugal pump.

The old carpenter and blacksmith shop, which was beyond repair, was renewed, a new building 24 by 60 feet, with concrete foundations, being erected.

An electric erane for hauling material to and from the dock floor is still urgently needed.

LOCKS AND DAMS.

Quebec.

RIVIÈRE DU LIÈVRE LOCK AND DAM.

At Poupore, in Labelle county, 12 miles above Buckingham, on the Rivière du Lièvre, a lock and dam was built in 1886-92, to overcome Little rapids, for navigation to High Falls, 12 miles upstream. In 1903, an extensive land-slide destroyed the dam, which had to be reconstructed, lock gates, etc., repaired and improved and considerable dredging done, before navigation was restored in 1907.

Work during the past year consisted of: Operating the lock, placing and repairing booms, new safety boom bought, renewing a number of stringers and sheeting on apron of dam, and minor repairs made to the lockmaster's residence.

RIVER ST. CHARLES.

Locks and Dam.

(The work and progress already made is described in the annual report for 1915-16.)

Year 1916-17, the work which was commenced on the locks and dam in 1913 has been continued during each working season without interruption. The work performed for the fiscal year is as follows:—

The down-stream wall along the north side of the sluiceway has been completed

and back-filled with dredged material.

Pier No. 3 on the north side of the up-stream lock entrance was completed, except the bascule bridge seats.

The concrete mattress above the dam, 400 feet northwards from the Quebec side of the river, was finished.

A concrete section for a part of the mitre sill platform for the south lock entrance was sunk to grade by the open-pocket method for excavation.

The substructure of the guide pier at the lower end of the locks was sunk to grade; it consists of three concrete blocks in line with the centre wall of the lock, sunk by the open-pocket method of excavation; there are three openings between the blocks to be spanned by reinforced concrete beams, for the floor to be continuous over the whole pier.

This structure, when complete, will be 300 feet long, 40 feet wide and 64 feet high,

from foundation to coping.

Interlocked steel piles were driven entirely around the space to be occupied by the locks, also to make the connection between those under the dam on the south side of the river and pier No. 5 and the line across the upper end of the locks.

The dredging for the locks, mattress and sluiceway was continued, until the close of the season, by a dipper and suction dredge, the greater part of the material was deposited for making ground along the north side of the Louise embankment and on the Limoilou side of the river.

A portion of the crib-work of the Canadian Northern Railway was removed on the north side of the river to allow the sluiceway piers to be built; temporary steel

girders were used to carry the railway over the work.

The construction of the floating caisson for the lower lock entrance which was ordered to be proceeded with under special agreement has been commenced: a workshop, for the purpose of fabrication, has been built, and just enough machinery suitable for that work has been provided; the shop will in future be required for storage and for lock maintenance repairs.

A large quantity of concrete materials and reinforcing metal for the lock floor is on hand for the next season's work. The progress made, after taking into consideration the uncertainty of labour, the limited space for working heavy plant, and delays due to the tides and passing of tugs and seows from one part of the work to the other through the swing bridge and other navigation annoyances, can be considered as fairly good.

YAMASKA CRIB DAM.

Owing to the high level of the water, the work of reconstructing a break which occurred in the dam started only on December 27, 1916, was carried on until March 7, 1917, and consisted in building a solid close-faced stone-filled crib, 90 feet long by 16 feet wide and 15 feet high, sheathed on its four faces, and sunk immediately in front of the opening in the dam. It was found better to let the crib settle before building the top so that when completed, some time during the summer of 1917, the crest may remain level.

ST. ANDREWS LOCK AND DAM.

The work of regrading the river bank west of and northerly from the lock was proceeded with this year. The freshet in the spring of 1916 badly cut the toe of the slope and fresh slides occurred which carried with them part of the roadway at the crest of slope. To prevent future erosion of this kind, the toe of the slope was this

year rip-rapped up to high water mark. This work extends one-third way up the slope, and is from two to three feet in depth, all hand-packed, composed of limestone from the river bed.

Buildings.

The shed which was needed for the proper protection of machinery was erected this year and at the same time the old buildings on the property were removed.

Dredging.

The work of removing the stone which had been used as a cofferdam at St. Andrews was completed this year; this stone seriously interfered with the proper escape of the water from the dam, the current being directed by it across the navigable channel, thus offering a menace to navigation.

Four euts were necessary on a total length of 1,929 feet to a width of 40 feet in the bottom and of an average depth of 5.82 feet.

It was necessary to tow all of the material a distance of one mile; no filling-in is enticipated.

Operations were carried on between July 31 and September 19 by dredge No. 205, the quantity removed being 14,900 cubic yards, seew measurement, of rock, gravel and boulders.

The cost of this work was 27.4 cents per cubic yard.

SLIDES AND BOOMS.

OTTAWA RIVER WORKS-ORDINARY REPAIRS.

OTTAWA RIVER.

North Chaudière Station.—A section of the upper slide, immediately below the bulk-head, 45 feet in length, was rebuilt. The slide was narrowed 3½ feet at the entrance, and on this account glances had to be built, on each side above the stop-logs, to guide logs and timbers.

TRIBUTARIES OF OTTAWA RIVER.

Gatineau River.—The main boom was strengthened; defective pieces in the stiff sections of the boom were taken out and replaced by new timbers, and the usual repairs were made.

Madawaska River.—At Arnprior, the planking in the bottom of the slide was repaired.

At Springtown station, the pier in the centre of the river, for the support of the retaining boom, was rebuilt from low-water level. The pier is 22 feet square, 10 feet high, and filled with stone.

At High Falls station, the boom at head of slide was taken ashore, straightened and new chains were substituted for the old, and general repairs were made.

Black River.—At the retaining boom, a short distance above High Falls' slide, three piers were rebuilt from low-water line to a height of 9 feet; one of the piers is 14 feet square, another 16 feet square, and the third is 18½ feet by 19 feet. A new pier 18 feet square at base and 16 feet square at top with a height of 20 feet was required as the space between the last pier and the north bank had become too great. Adjacent to the new pier, a glance erib, 45 feet long, 10 feet wide at base, and 8 feet wide at top, was built and carried up to the same level as the tops of the piers.

Petewawa River.—At the mouth of the Petewawa, four new piers were built in connection with the retaining boom; they are all 16 feet square, one being 14 feet high, two 10 feet high and the fourth 9 feet high.

At Cedar Lake station, the flat dam to the south of waste gate was replaced by a pier 32 feet long, 10 feet wide and 14 feet high, sheeted in front with 3-inch plank, and gravelled.

In the spring of 1916, the water in the Ottawa river and its tributaries was very much higher than usual. It commenced to rise early in April and reached its highest point on May 8. It then fell a little, but rose again around the 20th of the month, after which it receded steadily. In the fall, it was exceedingly low, but owing to numerous rainfalls at different times during the summer, the season, as a whole, was very favourable for the lumbermen.

ST. MAURICE RIVER WORKS.

Log-driving is the most important problem to be considered on the St. Maurice river; during the last season, 11.127.027 logs have been sorted through the different companies' gaps along the river.

Last autumn, after the river was cleared of all logs, an inspection of piers and other construction works was made and the most urgent repairs done. All booms were put in winter quarters to be ready for the spring of 1917.

Grandes Piles.—Inspection and maintenance of booms and piers.

Ste. Flore.—400 cubic yards of stone placed in piers; raising of 4 wooden piers with concrete superstructure and 500 feet of booms repaired.

Grand Mère.—One concrete pier built at Pointe à Paquin, and raising of 7 wooden piers with concrete superstructure.

Shawinigan Falls.—Construction of 300 feet of 3-piece booms.

Trois Rivières.—Construction of 300 feet of 3-piece booms.

BRIDGES AND ROADS.

OTTA JAA.

Laurier Bridge.—A wooden guard-fence, 67 feet long, was built at the western end of this bridge, on the northern side. The dry masonry wall north of western abutment was built with cement mortar, and a concrete cap was provided; the wall is 44 feet long and 4 feet high. The rolled steel hand-rail of the bridge had become so corroded that in many places the metal was completely eaten through; the rail on south side of the bridge has been replaced with one of cast-iron. The sandstone pavement on the western approach was raised to grade where the foundation had settled.

The Chaudiere and Union bridge and the roadway between Hull and Ottawa were kept in repair.

ONTARIO AND QUEBEC.

Bryson Bridge.—The roadway planking on the two truss spans of this bridge had to be laid new, the flooring is laid in one course of pine and hemlock plank, three inches in thickness, with a wheel guard of 6-inch cedar on both sides; the portion re-laid was 384 feet in length with a width of 16½ feet.

Chapeau Bridge.—The northern approach to this bridge was improved by building an embankment of stone, gravel and earth, and a retaining wall of concrete was built along the bases of the fill; the wall on the upper side is 140 feet long, and that on the lower side 104 feet; both vary in width from 2 to 3 feet at the base, according to the height, and are drawn in to 1 foot at top, the average height being about 6 feet; the walls are perpendicular in the rear, all the batter being at the front, and each provided with a suitable cap or coping, slanting outward to shed the water. Additional stone was placed in the embankment to fill the space at the back of the walls.

ALBERTA.

Bow River Bridge.

The steel bridge crossing the Bow river in the town of Banff, Rocky Mountain park, Alberta, was found inadequate to carry the heavy tourist and other summer traffic, and it has been found necessary to arrange and design another bridge to occupy this position.

During the months of December, 1914, and January and February, 1915, this bridge was removed to a temporary position some sixty feet down stream from the line occupied.

It was subsequently considered necessary to examine and repair all deficiencies in this structure as the bridge would require to remain on temporary site and take all traffic until such time as new bridge is erected. Floor decking had become worn and irregular, and iron-work was showing signs of weather, therefore the work of re-flooring the roadway and painting the whole structure was proceeded with, and this work was carried out by day labour.

GOVERNMENT TELEGRAPH SERVICE

By D. H. KEELEY, GENERAL SUPERINTENDENT.

			LENGT	н оғ І	INES	je.	
Location of Lines.	Points connected.	Year.	Land Lines.	Cables.	Total.	Number of Offices.	Messages Sent.
			Miles Wire.	Kt's.			
Newfoundland	Port au Basque—Cape Ray North Sydney—Meat Cove (with loops)	1883 1880–02	$\frac{14}{1684}$		14	2)
0	Across Bras d'Or Channel	1880 1887 1887		10 14	170	25	
	Big Bras d'Or-Kempt Head	1904 1890	20	$\frac{1}{4}$	20	3	
9	Meat Cove—St. Pauls Island On St. Pauls Island Bay St. Lawrence to Money Point	1890 1907	3 8		$\begin{cases} 23 \\ 8 \end{cases}$	1 4	
	Mabou—Meat Cove	1887=60 1883 1885	116 <u>1</u> 16	1i	$\frac{116\frac{1}{3}}{17\frac{3}{3}}$	Leas-	
	Lt. House Channel	1883 1903 1903	41 ³ / ₄	- <u>1</u>) - 73-	ed. 9	
0	St. Peters - Main a-Dieu	$^{1901}_{1902-09}$	83‡ 1 7‡	3 <u>1</u>	1335	19	
	On Scatari Island	1904 1905	38 ¹ / ₂ 34 ¹ / ₂		$\frac{1}{34\frac{1}{2}}$	6	
***	North Symey-Eskasoni Eskasoni - Grand Narrows Grand Narrows-Shenacadie-Beaver Cove	1908	31 22 15!		31 22 155	$\begin{cases} 10 \\ 3 \end{cases}$	
0.0	Leitches Creek—Steeles Crossing (loop). Baddeck—Little Narrows North Sydney—Little Bras d'Or (second	1910 1910	28 19½		$\frac{28}{19\frac{1}{2}}$	1	21.270
	wire)	1906 1907	$ \begin{array}{c c} & 6 \\ & 19\frac{1}{2} \\ & 29 \end{array} $		6 19 <u>1</u> 29	2 3	
9	Finon=Gabarus Strathlorne=Wycocomagh S. W. Margaree=Whycocomagh=Little	* 1909	$33\frac{1}{2}$		33 <u>1</u> 38 <u>1</u>	7	
+1 + +1	Narrows. Loch Ban- Scottsville. Whycocomogh - Orangedale	1912	38½ 7 8		87	5	
0	North Sydney -Sydney Mines-Florence Little Narrows-Washabuck Centre [Loop, Eskasoni-McAdams Lake	1912 1912	12 5		12 5	1	
	Baddeck, Nyanza—Big Intervale Brook Village—Glendale Washabuck Centre—Grass Pond	1914	$\begin{array}{c c} 39\frac{1}{2} \\ 32 \\ 7\frac{3}{4} \end{array}$		39 <u>1</u> 32 7 <u>4</u>	6	
	First Hood, Island Branch .						
	(Length of construction in loop.,	1007					
0 0 0	On mainland at Port Hood Port Hood—Smiths Island On Smiths or Inner Island Smiths Island to Henry Island On Henry or Outer Island	1907 1907	4	2 3	13	4	
New Brunswick	Chatham—Escuminac—Point Sapin		56½		56 <u>1</u>	22	7,016
	Carried forward		1010	31½	1,041	168	28,286

GOVERNMENT TELEGRAPH SERVICE-Continued.

			1		-	·	
Location			LENG	140 HT	LINES.	of Hees	
of Lines.	Points connected.	Year.	Land Lines,	Cables.	Total.	Number of Offices,	Messages Sent.
			Miles Wire.	Kt's.			
	Brought forward		1,010	31 ½	1,0415	168	28,286
	Bay of Fundy System :						
	Campobello—Eastport	1889 1917		15	1		
0 0 0	Mainland Eastport On Campobello Island. Campobello - Grand Manan	1880-17 1880-16 1880 1916	1 11½	15 			0.70
11	On Grand Manan. Grand HarbourChency Island Chency Island-Whitchead Island Woodwards Cove-Nantucket	1880 16 1890 1890 1916 1914	214 44 34 34 	+01039039H-0	773 	14	3,790
11	Nantucket—Duck Branch	1914 1990 1910	82	11 2 4 3 4			
9	Seal Cove—Big Wood Island. Big Wood Island - Little Wood Island - Little Wood Island—Three Sister Island—Three Sister Island—Gannet Rock Three Sister Island—Hay Island. Campobello across Lubec Chamell.	1910 1910 1910 1910 1916 1916	1	5) (-	$\left.\begin{array}{c} 14_4^3 \end{array}\right.$	4	
	Magdalen Island System:						
11	Meat Cove, C.B.—Magdalen Islands On Magdalen Island Grosse Isle—Brien Island On Brion Island to Dingwalls. On Brion, Dingwalls to Lt. House. House Harbour—Pointe Basse (loop wire) Pointe Basse—South Beach (loop wire). Grindstone—Barachois (loop wire). Amherst Island—Entry Island	1889 1881-02 1902 1902 1909 1905 1909 1910	83½ 1 5 8 6 6 6	55 11 63	1844	18	÷ 316
	Anticosti System:						
0 10 10	Gaspé—L'Anse à Fougère. L'Anse à Fougère—Anticosti. On Anticosti Island Anticosti—Long Point Mingan	1881 1881 1881-90 1890	28 223 <u>1</u>	444	3169	9	1,730
0	Chicoutimi Dist.: Bay St. Paul—Chicoutimi St. Alexis—St. Catherines Bay Murray Bay—Bay St. Paul. Bay St. Paul—Petite River Chicoutimi—St. Charles St. Anne—Lac Claire St. Anne—St. Fulgence St. Fulgence—Sacré-Cœur Murray Bay—St. Catherines Bay (2 wire).		98 78 37 13 31½ 7 8 73½ 58		$ \begin{array}{c} 98 \\ 78 \\ 37 \\ 13 \\ 46\frac{1}{2} \\ 73\frac{1}{2} \\ 58 \end{array} $	5 5 3 1 10 4	
11	St. Alexis—Chicoutimi (2nd wire) Carried forward	1905	$\frac{14\frac{1}{2}}{1,845}$	7093	$\frac{14\frac{1}{2}}{2,054\frac{3}{4}}$		35,122
	Carried Bundtu		1,	} ,,,,,,	1-10011		,122

GOVERNMENT TELEGRAPH SERVICE—Continued.

			LENG	гн ог 1	JINES.	er of Offices.	
Location of Lines.	Points connected.	Year.	Land Lines.	Cables.	Total.	Number of Office	Messages Sent.
			Miles Wire.	Kt's.			
	Brought forward		1,845	2093	$2,054\frac{3}{4}$	241	38,122
	Chicontimi Dist.—Con.						
?nebec	St. Charles—La Pipe La Pipe—Peribonka Bay St. Paul—St. Placide Taché—St. Louis de Nazaire Loop	1907 1908 1908 1912	30 17 81 5		$\begin{array}{c} 30 \\ 17 \\ 8\frac{1}{2} \\ 5 \end{array}$	$\frac{4}{2}$ 1	
0	North Shore Line: Murray Bay—Chateau Bay (Tadoussac). Across Saguenay River at Tadoussac	1881-01 1883 1909	9474	11/4	9491	74	38,40
#	Persimis -Godbout. St. Simeon to Cap Salmon Lt. (loop wire). Harrington Harrington Island Point Lebel Loop.	1909	$ \begin{array}{c} 114 \\ 4 \\ 1\frac{1}{4} \\ 5 \end{array} $	314	$ \begin{array}{c c} 114 \\ 4 \\ 4\frac{1}{2} \\ 5 \end{array} $	1 1 1	
	Quarantine System						
H	QuebecL'Ange Gardien. L'Ange Gardien -Orleans Island. " 3 lengths On Orleans Island. Orleans Island -Isle Reaux. " (2nd cable) On Isle Reaux. Isle Reaux-Grosse Isle. " (2nd cable). On Grosse Isle (all told). St. Jean-Ste. l'amille (loop). St. FrançoisSt. François Nord (looped wire).	1885 1885 1906-09 1885 1889 1910 1889 1910 1885-94 1904	29 ¹ / ₄ 21 ¹ / ₂ 11 10	2 2 2 2	801	I1	97:
# #	Crane Island to Montmagny. On Crane Island Crane Island Crane Island to Grosse Isle Crane Island—Goose Island Orleans Island Telephone System	1905-09 1905 1907 1912 1910	3 10 68	5	5 3 5 10 68		7,06
	Kippewa Dam—Ville Marie Ville Marie—North Timiskaming St. Isidore Branch CharlesbourgLake BeauportStoneham Lake St. CharlesSt. Gerard	1910 1911 1912 1913 1914	$\begin{array}{c} 33\frac{1}{2} \\ 45 \\ 3\frac{1}{3} \\ 52\frac{1}{4} \\ 34\frac{3}{4} \end{array}$	j	$78\frac{1}{2}$ $3\frac{1}{2}$ $52\frac{1}{4}$ $34\frac{3}{4}$	9 1 8 4	1,05
"	Beauport -Laval	1909	15		15	7)
Ontario	Pelec Island System. Learnington—Point Pelee. Learnington Dock—Pelec Island. On Pelec Island.	1889 1901 1889-00	12 16½	171	$\left.\right\} 45\frac{3}{4}$	18	84
	Carried forward		3,339½	2533	${3,593\frac{1}{4}}$	395	92,41

GOVERNMENT TELEGRAPH SERVICE.—Continued

			LENG	тн ог 1	INES.	of fices.	
Location of Lines.	Points connected.	Year,	Lines.	Cables.	Total.	Number of Offices.	Messages Sent.
			Miles Wire. 3,3393	Kt's.	3,503‡	395	92,418
Saskatchewan.	Northwest Lines— Qu'Appelle - Onion Lake	1883	102		402	9	
Alberta	Moosejaw—Wood Mountain Wood Mountain—Willow Bunch Gravelbourg Loop Leeville Loop Saskatoon Loop Duck Lake—Batoche. Duck Lake—Batoche. Duck Lake—Indian Agency Lloydminster Loop Lipton Loop. Fort Qu'Appelle—File Hills Agency Kamsack—Indian Agency—Pelly Battleford—Isle-à-La-Crosse Meota Loop Sintaluta—Assiniboia Reserve Onion Lake—Edmonton St. Paul—Durlingville Edmonton—Athabaska Athabaska—Mirror Landing, Mirror Landing—Peace River—Peace River—Durnegan Dunvegan—Lake Saskatoon Grand Prairie City Loop Lake Saskatoon—Fort St. John. Fort St. John—Hudson Hope. Peace River—Shaftsbury Athabaska—Lac la Biche (Plamondon) Plamondon—Roman Catholic Mission Edmonton—Indian Agency—Stony Plain Edmonton—Indian Agency—Stony Plain Edmonton—St. Albert	1885 1904 1910 1912 1892 1902-10 1902 1904-09 1906 1907 1910 1912 1913 1813 1813 1912 1904 1910 1911 1912 1914-15 1911 1914-15 1914 1914 1915 1916 1916	$\begin{bmatrix} 107 \\ 398 \\ 28 \\ 28 \\ 28 \\ 58 \\ 28 \\ 657 \\ 205 \\ 48 \\ 905 \\ 48 \\ 905 \\ 159 \\ 70 \\ 159 \\ 166 \\ 155 \\ 2458 \\ 12 \\ 39 \\ \end{bmatrix}$		107 39 38 28 28 28 29 31 27 20 48 205 48 205 48 70 199 74 76 145 25 25 26 27 27 28 20 48 20 20 48 20 20 20 20 20 20 20 20 20 20	4211123114246118321142211321441151	38,86
0 0 0 0	British Columbia Lines— Kamloops—Vernon-Penticton	1914 1914 1914	25 10 6½ 15 13½ 467½ 84 204½ 93 61 87¼ 59 90 29 24⅓ 30	1½ 1½ 1½ 1 234 1	25 10 7 6½ 25 13½ 469 84 27 14 206 93 61 90 60 90 25 30	3 1 1 12 2 57 18 6 5 27 11 6 12 15 14 18 7 9	93,05
1+ . 11 .	Kamloops—Goose Lake Enderby—Vernon	1916 1916	14 26		$\begin{bmatrix} 14 \\ 26 \end{bmatrix}$	$\frac{3}{2}$	

GOVERNMENT TELEGRAPH SERVICE-Concluded.

			LENGTH OF LINE			of ices.		
Location of Lines.	Points connected.	Year.	Land Limes.	Cables.	Total.	Number of Offices.	Messages Sent.	
			Miles Wire.	Kt's.				
	Brought forward British Columbia Lines - Concluded.		$7,197\frac{1}{2}$	$262\frac{1}{4}$	7,4593	718	251,284	
Vancouver Island	Victoria -Banfield	1891	169 53		169	12		
	Alberni – Banfield	1899			53	2		
**	Alberni—Clayoquot	1902	954	21	971	5		
11 .	Clayoquot—Nootka	1913 1913	$\frac{62\frac{1}{2}}{1}$	$12\frac{1}{4}$	$74\frac{5}{4}$	8 2	1	
•	Cláyoquot Branch	1907	1 1	2	95	ī		
	Toquart—Sechart		10	1	_	1	and the state of t	
	Clayoqu & Sound - Leonand Is. Light	1911-14	55	34	58_{4}^{9}			
	Nanaimo Comox Camptell River	1893-08	118		118	8		
	Parksville - Alberni Branch	1895	30		30	1		
	Comox-Cape Lazo Branch	1910	6	1	6	·	1	
	Union Bay-Denman & Hornby Islands.	1907	21	2	23	4	1	
ti .	Nanaimo-Gabriola I-land	1909	16	3	163	4	82,559	
	Campbell RiverPowell River	1910	654	131	$79\frac{1}{4}$	11		
11	Powell River-Vancouver	1913	108	12	120	19	1	
- 11	Campbell River—Hardy Bav	1914	2034	$4\frac{1}{2}$		18		
	VancouverSquamish		445	$1\frac{1}{5}$	46	6	.	
	Salt Spring Island Line		88	~ï	$95\frac{1}{3}$	19		
	Sidney-Ganges Line		21	$\frac{54}{25}$	235			
"	Chemainus-Kuper-Thetis Islands	1912	$3\frac{1}{5}$	4	75	5		
	Saanichton-James Island	1912	35	1	$4^{\frac{7}{5}}$	2	i	
	Sydney and Sydney Island	1910	3	3	6	2		
	Bamberton Works, Keatings Branch	1914		1	1	1		
Yukon	Ashcroft Dawson and Boundary	1899-12	1,777		1,777	78	j	
	Ashcroft — Quesnelle (local wire)	1878-87	215		215			
	Ashcroft - Lillooet Branch	1896	67		67	12	l i	
	Lillooet—Pioneer Branch	1912	- £6		66	15		
	Lillooet—Lytton Branch	4913	$49\frac{1}{2}$		$-49\frac{1}{2}$	12		
	Ashcroft—Savonas Brauch	1914	40		40	5	1	
	150 Mile House—Quesnelle Forks	1902	89		89	5		
0	150 Mile House—Bella Coola Branch	1912	329		329	28	78.091	
0	Quesnelle—Barkerville Branch	1887	61		61	5	10.0.1	
	Haz-Iton—Prince Rupert Branch	1901-07	218		218	22	1	
	Terrace—Stewart Branch	1910-11	174		174	8	1	
	Queen Charlotte Island Line	1913-14	123		123	13		
	Hootalinqua—Livingstone Creek, Y. T.	100-					1	
	Branch	1907	70		70	2	1	
	Ashcroft - Highland Valley	1916	30		30	5)	
	Total		$11,680^3_4$	336	12,0163	1,058	411,934	

TELEGRAPH SYSTEMS OF THE DOMINION.

As a matter of general interest, pursuant to the statement submitted last year, the latest figures to hand showing the extent of telegraph lines in operation in the Dominion are as given hereunder.

	LENGTH OF LINES IN MILES.				LENGTH OF CONDUCTORS IN MILES				No. of
Canada.	Aerial.	Under- ground.	Sub- marine.	Total.	Aerial.	Under- ground.	Sub- marine.	Total.	Offices
1916–1917 .									
Great North Western Tele- graph Co	14,617	7 23	13 95	10,081 14,735	31,357 106,143		78 227	31,627 107,190	1,519
Government Telgraph service			339	$11,726\frac{1}{4}$	$11,680\frac{3}{4}$		386	$12,016\frac{3}{4}$	1,058
graph	5,279	1	1	5,279	19,525	18 25	2:19	19,545	279

REVENUE AND EXPENDITURE.

The revenue and expenditure for each of the Government lines in the several districts hereinbefore mentioned, are given in the following table:—

· 1916–1917.	Expenditure.	Revenue.
Lower St. Lawrence and Maritime Provinces	š ets	\$ cts.
Anticosti lines	8,333 90	1.383 13
Bay of Fundy	5,709 83	1,361 58
Cape Breton.	46,429 78	4.637 80
Cape Ray (subsidy).	250 00	1,70, 00
Escuminac	1,453 91	952 26
Father Point (Agency)	500 00	
He aux Coudres (subsidy)	200 00	
Magdalen Islands	6,665 85	2,505,05
North Shore, east of Bersimis	28,329 12	6,809.74
North Shore, west of Bersimis	20.821 33	$1.634 \ 06$
Orleans telephone	1,860 64	425 84
Quarantine system	6.744 79	$213 \ 21$
Ouebec County Lines	1,943 60	871 37
Prince Edward Island and Mainland	15 50	
Cable ship Tyrian—	1	
Maintenance	60.096/88	
Generally—		
Gulf and Maritime Provinces	$2,290 \cdot 29$	
Timiskaming District—	i	
Telephone line	3,415 98	255 65
Ontario –		
Pelee Island telephone	2,652 25	134 35
North West Lines—		m 2 00
Saskatchewan	48.623 53	7,608 28
Alberta	67,782 80	18,851 35
British Columbia—	*** vo* 20	30 1 12 15
Mainland	56,035 86	29,143 45
Vancouver Island	91,509 47	28,204 56
Yukon—	£12.666 15	86,488 67
Asheroft—Dawson	357 28	00,400 01
Telegraphic service generally	5.51 25	
Total	674,688 74	191,453 35

DEPARTMENTAL TELEPHONE SERVICE.

Up to date of this report (April 1, 1917) the telephone connections with the central office of the Bell Telephone Company at Ottawa, listed as chargeable to the special appropriation, numbered 1,090, the annual charge for which amounts to \$47,191.50. The connections are distributed amongst the several departments, as hereunder:—

	No, of Telephones			
Department.	Offices.	Residences.	Total.	Cost per Annum
				8 ets
Agriculture	36	15	51	2,620 0
Auditor General	14	2	16	753 0
Census	1	3	1	80 0
Civil Service Commission	4	1	$\frac{7}{2}$	342 t 85 0
Clerk of Crown in Chancery		1	6	375 0
Conservation Commission	24	6	30	1,235 0
Dominion Archives.	~3	ĭ	3	160 0
Dominion Police	15	ŝ	20	780 0
Economic Development Commission	2		9	80 0
Exchequer Court	$\overline{2}$	1	3	145 0
External Affairs	7	2	9	388 0
Finance	18	5	23	950 0
Governor General	6	6	12	495 0
" Private Line				123 0
P. B. X	14		14	1,052 0
House of Commons	17	2	17	720 0 646 0
Indian Affairs	14 18	• 4	$\frac{16}{22}$	934 0
Inland Revenue	118	9	127	5,552 0
Justice	20	15	35	1,476 5
Labour	6	3	9	445 0
Library of Parliament	3	2	5	185 0
Marine Department	20	8	28	1,185 0
Militia and Defence	31	13	44	2,142 6
n P. B. X	158		158	6,127 0
Military Hospital Commission		1	1	40 0
Mines Department	18	1	19	807 0
P. B. X	36		36	1,329 0
Mounted Police	4	2	$\frac{6}{3}$	$\begin{array}{c} 230 \ 0 \\ 165 \ 0 \end{array}$
National Service Commission	$\frac{3}{25}$	6	31	1,316 0
Vaval Service		1	1	35 0
Patriotic Fund Committee		1	1	80 0
Post Office	42	9	51	2,090 0
Printing and Stationery	19	12	31	1,268 0
" P.B.X	49		49	1,079 0
Privy Council	7	5	12	525 0
Public Works	74	19	93	4,321 0
Railways and Canals	21	13	34	1,510 0
Secretary of State	13	4	17	779 0
Senate	16	4	20	837 0
Supreme Court	1	3	1 14	40 0 615 0
Trade and Commerce	11 10		14	1,050 0
mai r menasing Commission, Frivate Branch Exchange	10		10	1,000 0
	906	184	1,090	47,191 50

CAPE BRETON LINES.

The revenue was the largest thus far recorded for any similar period, caused by a general revival of trade, the demand for sea products, fish, lobsters, etc., being active at increased prices.

New Telegraph Offices.

Munros Point (St. Annes, C.B.), loop from South Gut office; line completed April 30 and office opened on May 1. In charge of Mr. J. McKillop, agent and operator, Remuneration 25 per cent of receipts and checks, guaranteed \$50 a year

Black Brook, C.B., between Hillside and Groves point, on the Boularderie line. Opened February 14, Mr. H. McNeil, agent and operator. Remuneration 25 per cent of receipts and checks, guaranteed \$50 per annum.

Offices Closed.

Hillside, C.B., on Boularderic line, closed February 14, in view of opening of new office at Black Rock.

South Gut, C.B., closed December 31; the business is being handled through the office at Englishtown until such time as office is reopened.

New Telephone Offices.

Gillies Point, C.B., agent, N. A. McNeil; Gillies Point East, C.B., agent, J. R. Morrison; Grass Pond, C.B., agent, N. M. McNeil; McNeils Vale, C.B., agent, D. S. McNeil.

These offices were opened November 11, and the instruments installed.

East Lake Centre, C.B., agent, Howard McKinnon, opened March 27; Melford, C.B., agent, Mrs. Flora McDonald, opened October 9.

Changes in Agents.

Baddeck, C.B., Mr. D. Dunlop, agent and operator, died suddenly on September 23, and Mrs. Christie Dunlop received the appointment as agent; on February 28, Mrs. C. Dunlop resigned and Mr. Gerald Dunlop was appointed; the office up to the end of the fiscal year being in charge of Miss Simpson, instructor.

Craigmore, C.B., Allan Cameron, agent and operator, died February 26; office transferred March 3 to Mary K. Cameron, on same terms and conditions as applied when former agent was in charge.

Pleasant Bay, C.B., Mrs. Geo. P. McIntosh, agent and operator, superceded November 30 and office moved to residence of Miss Annie McLean, new appointee, at same remuneration, 25 per cent of receipts, and checks guaranteed, \$50 per annum.

Grand Anse, C.B., Miss N. A. McPherson resigned Novembre 30 and was succeeded by her sister, Miss Barbara McPherson; no change in remuneration.

Dingwall, C.B., on October 18 office was moved to the residence of Mr. Wm. LaRousie, succeeding Mr. G. W. McPherson; no change in remuneration.

Benacadie Pond, C.B., John H. McNeil, agent and operator, superseded November 1 by James N. McNeil, new appointee; no change in remuneration.

South Ingonish, C.B., Mrs. M. C. Williams, superseded December 27 by Miss Mary A. Young, new appointee; no change in remuneration.

Grand River Falls, C.B., Mrs. E. D. McKillop, agent and operator, succeeded by Mrs. R. J. McLeod, September 1, on same terms and conditions as applied to former incumbent.

Hayes River, C.B., II. R. Beaton, agent and operator, succeeded by Mrs. Florence Beaton on July 31; no change in salary or conditions.

Grand River, C.B., Miss E. A. Finlayson, agent and operator, resigned June 15 and Mrs. Arch. Finlayson was appointed; no change in conditions.

Eskasoni, C.B., reopened May 8, Miss Rose McAdam appointed agent and operator; no change in remuneration.

Iron Mines, C.B., telephone office transferred October 15 to Mr. Donald D. McDonald: no change in rate of commission.

Orangedale, C.B., telephone office removed July 25 to residence of Mr. N. A. McLean, new appointee; no change in commission.

Change in Repairers.

Port Hood, C.B., office to Outer Island, C.B., Ambrose Smith superceded by John Eldridge Smith, dating from November 1; no change in remuneration.

Little Bras d'Or, Upper Kemp Head, C.B., Murdock McLeod superceded by John L. McPhee, of Groves Point, C.B., dating from November 4; no change in remuneration.

Pleasant Bay, Barren, C.B., A. D. Moore superseded by Rod Fraser, of Pleasant Bay, C.B., dating from October 5; no change in remuneration.

Grand River, Enon, C.B., Hector Urquhart superseded by Dan. A. McLennan, of Head of Loch Lomond, dating from October 5; no change in remuneration.

Repairers Appointed.

Middle River bridge north to county line, distance fifteen miles, Allan J. Grant, of Middle River; service dating from March 20; salary \$60 per annum.

Baddeck, Nyanza, Middle River bridge, distance nine miles, Daniel Morrison, of Baddeck; service dating from March 20; salary \$36 per annum.

Strathlorne, Brooks village, distance twenty-one miles, Alex. McMaster, of Brooks village; dating from June 16; salary \$84 per annum.

BAY OF FUNDY LINES.

Toward the latter part of June, 1916, the Gannet Rock cable gave out; the *Tyrian* arrived shortly after and repaired it. The Seal Cove-Wood island section gave out on December 16, 1916; on March 31, 1917, the *Tyrian* repaired it; also repaired the White Head cable No. 1, which broke during a storm, December 16, 1916. The Duck Island-Nantucket cable was replaced, as it was too far gone to repair.

On September 14, 1916, the Eastport-Campobello cable No. 1 gave out; was repaired and is working well.

The Flaggs Cove-Campobello cable No. 1 broke during a storm in December,

and was replaced by 2,000 feet of new cable.

When reconstruction on the line was commenced, a temporary line was built to Seal Cove, on which telegraph and telephone instruments were installed at the several offices, and the reconstruction is now nearing completion.

MAGDALEN ISLANDS LINE.

The Meat Cove cable had been interrupted since December 24, 1914; was put in operation June 22. During the period of interruption all traffic to the mainland was handled by the Marconi wireless station at Grindstone.

On June 17, the Bryon Island cable, which had been interrupted since January 25, was repaired by the *Tyrian*, and is now in fairly good working condition.

New Telephone Stations.

On October 24, the telephone instrument which was at Grand Entry village was moved to Mr. Charles Doyle's at Muck Cove, halfway between Grand Entry and Old

Harry; operated on commission. On November 7, an office was opened at Alfred Gallant's, Etang des Caps; a 2½-mile extension was built to connect the office with the main line; office is operated on 25 per cent commission.

Conditions Generally.

Our land wires now cover about 100 miles. There are twenty-seven telephone boxes, of which twenty are on salary and commission; Etang des Caps, Muck Cove. Grand Ruisseau, and Grand Entry Point are on commission only.

ANTICOSTI ISLAND LINES.

No additional mileage built during the past year. Fox Bay office is still closed but in communication by telephone with Heath Point office during the summer.

There has been no change in the staff. The North Shore cable was repaired on July 13 by the cable ship *Tyrian*, and since then has been working well.

NORTH SHORE ST. LAWRENCE LINES.

West of Bersimis.

An extension of five miles was built in the month of July, from Murray Bay to Nairns Falls. The line between Bay St. Paul and St. Agnes was re-poled with cedar, as was also a section of the Peribonka line. On the Port-Neuf-Bersimis section one of the main road bridges and a camp were rebuilt. Outside of damage by fires the general repairs were made with a very small outlay.

The changes were as follows: Lac Charles re-opened May 25, 1916; agent, Mrs. J. Bouliane; Nairns Falls opened July 16, 1916, agent, N. F. Paper & Pulp Co.; Les Eboulements opened as a joint office July 16, 1916, agent, J. A. DesGagne; St. Irenee opened as a joint office July 16, 1916, agent, A. Girard; River au Moulin, opened September 1, 1916, agent, A. T. Villeneuve; Lac Charles, closed October 1, 1916; St. Simeon, agent, Jos. Morin, replaced by J. Tremblay March 12, 1917.

Quebec County Telephone Lines.

Some extensions were made, and nine new instruments were installed, against three withdrawn.

Escuminac Telephone Line.

A small extension was made in September, and two new stations opened, bringing the total number up to 21. The operation of the line by the New Brunswick Telephone Company has been satisfactory during the year.

East of Bersimis.

The lines were kept in good working order throughout the year; very few interruptions which were promptly repaired. During the course of the year, three local telephone lines were erected as accommodation offices; one, a half mile long, was constructed at Natashquan, between the telegraph office and the clergyman's residence, in operation August 4, 1916; a second at Seven Islands, between the telegraph office and the Bishop's palace a distance of one-third of a mile, in operation September 25, but the palace was destroyed by fire December 21, and telephone boxes and apparatus were lost; another line was strung on the telegraph poles, between the Pigou office and the office of the Gulf Pulp & Paper Company, a distance of two miles.

Change in Agents.

June, 1916, John Bolger was appointed agent and repairer at West St. Modest, succeeding his father, Mr. James Bolger. February, 1917, Miss Ella Chevalier, appointed as agent at Bonne Esperance in place of Miss M. Chevalier, deceased. An accommodation office was opened at Shelter Bay on May 11, 1916, with Mr. J. P. Boulianne as agent.

QUARANTINE LINES.

The Crane Island-Montmagny cable which was raised November 12, 1915, was relaid April 21, 1916; again raised November 15, and stored for the winter. The St. Francois--Isle aux Reaux cable was broken by ice March 10, 1916, and repaired in May; 500 feet being replaced near the Isle aux Reaux end. The Isle aux Reaux cable, interrupted May 9, was defective and out of service; was replaced by some new cable and some serviceable cable saved from the abandoned Grosse Isle-Crane Island cable. The Orleans Island-Bellechasse cable, raised November 13, 1915, was relaid April 27, 1916; broken on August 10, not repaired but was raised in November and stored at Quebec. One of the St. Francois-Isle aux Reaux cables was broken by a vessel anchor on October 4 and repaired on October 20; three joints being replaced close to Isle aux Reaux; broken by ice on December 22.

One of the Ange Gardien-St. Pierre telephone cables was broken by ice March 20,

1916, and repaired June 26, but again broken by ice February 5, 1917.

In June, 1916, the Grosse Isle-Crane Island cable was removed from its original location and relaid from Grosse Isle to St. Margaret island, one and a half knots, thence one mile of land line and two and a half knots of cable from St. Margaret island to the west end of Crane island. On December 1 this cable was broken in three places by a gas buoy adrift in the ice; repairs were effected December 12.

A steel wire was strung from Maheux bay to St. Laurent wharf for use of the

signal service.

PELEE ISLAND, ONTARIO, LINES.

After repairing the cable in May, 1916, it has worked most satisfactorily, with the

exception of a short interruption in October, 1916, and is still working well.

The Point Pelee branch on the mainland is in need of new wire, as quite a few places in the old wire, in use since 1888, are badly rusted. This section should be made metallic and have a double instead of a single wire service.

NORTHWEST ALBERTA DISTRICT LINES.

During the year reconstruction of the line between Edmonton and Athabaska was begun and carried through from Edmonton to a point 20 miles from Athabaska.

The High Prairie telephone line was extended to Grouard, a distance of one mile,

thence a half mile line was built to the Dominion lands office.

Requests have been received for the extension of the Athabaska-Fort McMurray line to lake Athabaska, a distance of about 100 miles, and another request for a line from Peace River crossing to Vermillion, about 250 miles farther down the river. These extensions would open up new agricultural and mining districts.

BRITISH COLUMBIA LINES.

During the year 172 miles of new lines were built, 56 repoled, 86 miles of pole line reset, and there are 217 offices, an increase of 35.

Vernon-Kamloops Section.

This line was overhauled and 900 poles reset; an extra wire was strung from Holmwood to Vernon, giving a metallic circuit, to use the simplex system of telephone and telegraph, and completing the telegraph line from A-heroft to the boundary line at Oroville.

Kamloops-Mount Olie-North Thompson Section.

This section was overhauled last year; several new offices have been opened, and business has been very satisfactory.

Heffley Creek-Upper Louis Creek Section.

Built last fall, work starting in September, was completed November 10, and is operated by a switch at Heffley Creek office to the main North Thompson line; seven offices were opened.

Kamloops-Goose Lake Section.

Since last year this line has been brought direct into Kamloops office; previously it was a spur from the Nicola line at Knutsford. At Goose lake, connection is made with the Dominion Forestry Branch line to Fish lake, and a public call office opened at that place.

Kamloops-Revelstoke Section.

(Via Chase, Notch Hill and Sicamous.)

The line from Malakwa to Revelstoke, 35 miles, was made metallic. The section along the east side of Mara lake will be transferred to the government road, which is now completed.

Enderbu-Vernon Section.

Built during the past year and opened in December, 1916, connects the telephone system in the northern part of the Okanagan valley with Vernon and the south, also gives the public a service from the Revelstoke district direct to the Vernon district.

Penticton-Midway Section.

The switching office at Fairview has been closed, and switching is done at Pentieton. The old single line from Fairview to Keremeos has been taken down and the wire will be used elsewhere.

Merritt-Mammette Lake Section.

Built during the year, commencing at Merritt, thence via Lower Nicola to Mammette lake. Three offices have been opened.

Proctor-Creston-Yahk Section.

This pole line was extended through from Creston to Yahk, 29 miles farther east, where connection will be made with the Kootenay Telephone Company to Cranbrook. The wire line was not completed but will be finished in the spring, when four new offices will be opened. The pole line was completed in October, 1916.

Nakusp-Edgewood Section.

Three new offices have been opened. It is important that this line be extended along the Λ rrow lakes to Renata, 24 miles, to connect the line with the Nelson district.

Castlegar-Renata Section.

Last fall this section was built as far as Deer Park, and this spring, 1917, it was completed to Renata; the cable across the lake at Renata was not laid until April. Nine offices have been opened, and business prospects are good.

YUKON TELEGRAPHS.

The line between Hazelton and Kispiox was re-poled, completing the work of general re-poling between Hazelton and Fifth Cabin first undertaken in 1914. 202 new cedar poles were put in between Hazelton and Kispiox. An extension was built from New Hazelton to the Silver Standard Mines, a distance of four and a half miles, the mining company erecting the pole line at their own expense.

A connection was also made between our office at Nechacco and the town of Vanderhoof, on the Grand Trunk Pacific railway, a distance of approximately four miles. Telephones were installed at Vanderhoof, Nechacco and Fort Fraser.

The pole line between Hazelton and New Hazelton was cross-armed with six-pin cross-arms, and lines terminating at New Hazelton were brought in to Hazelton.

High water during the month of July carried out the pack train bridge over the Naas river near Seventh Cabin, as well as foot bridges near Ninth Cabin and over Owl creek.

The renewal of the pack-train bridge necessitated sending a bridge gang from Hazelton, the centre pier and abutments having been carried away a site further up stream was selected and a one-span truss-bridge put in, doing away with a centre pier. The span is seventy-cight feet in length between abutments.

Ashcroft Local.

At Asheroft, on July 5, at 7 p.m., a fire which started in the Asheroft hotel completely destroyed the business portion of the town, including our office and a considerable portion of our equipment. Temporary space was obtained in the Canadian Pacific railway depot, and by noon next day all circuits were installed and normal conditions restored.

Construction Ashcroft-Highland Valley Line.

Work on the construction of this line (25 miles) was begun September 28 and completed October 27. Four telephones were installed at various points.

Houston-Oosta Lake.

This line from Houston to the west end of Oosta Lake (41 miles) was begun on August 25, and the pole line constructed (26 miles) October 30, the work of stringing the wire the above distance was begun March 14 and completed March 24. This leaves 15 miles to be constructed to the objective point at the west end of Oosta Lake.

VANCOUVER ISLAND LINES.

The line between Sechelt and North West bay, a distance of 5 miles, which formerly followed the trail through heavy timber, was re-built along the new wagon road, and the wire transferred to the new poles.

On the Pender Harbour section, a new piece of line was built from the narrows at the head of the harbour to two miles beyond Donnelly's Landing, a total distance of five miles and a short piece of cable laid across the mouth of the harbour to the hotel, and the line continued around the bluffs to the cable box where the cable crosses to Nelson island shortening the line by about five miles.

The cable between Quathiaski Cove and Campbell River was again interrupted in May, and the service of the British Columbia Telephone Company's repair outfit secured to pick up, repair and relay cable in a new position. Advantage was taken to make use of old cable on hand to lay a second cable between these points, to avoid interruption to the main line in the event of a future break in the first cable. The extra cable was put into service to connect the branch line between Quathiaski Cove and Heriot Bay with our Campbell River office.

The cable between Sarah Point and Cortez Island also became interrupted in October, and after several attempts by our line foreman to repair the break, with local assistance, the services of the British Columbia Telephone outfit was again

secured and the cable repaired and relaid in a new position.

On October 11, the cable between Tofino and Clayoquot was interrupted, and on examination it was found to be broken between Tofino and Round Island, and was repaired the following day.

The Telephone Exchange on Salt Spring islands was thoroughly overhauled and necessary repairs made to the lines and equipment. About two miles of new line was constructed to give connection to four new subscribers at the standard rental.

Construction of line from Fisherman's Bay to Shushartie Bay was begun September 1 and completed December 10: approximate length, 26½ miles. Telephones were installed at Fisherman's Bay, Stramby, Nawitti, Shurshartie Cannery and Shurshartie Bay.

There has been a steady increase in the revenue of the Vancouver Island lines, and indications point to a further increase, as renewed activity is reported in the logging, fishing, and mining industries.

Telephones have been installed in several new logging camps and three new

mining camps.

"SS. TYRIAN."

Grand Manan Section.

On April 3. a new cable 1.25 knots, was laid from East Port, Maine, to Owens

Head, Campobello.

On 5th, laid a new cable from White Head island to Chaneys island, and on the 6th, laid cables from Chaneys island to Ross island and from Ross island to Grand Harbour. The cable from White Head to Chaneys is three-quarters of a knot, from Chaneys island to Ross island is half a knot, and from Ross island to Grand Harbour one-quarter knot.

On 8th, laid a new cable from Hay island to Kent island, 31 knot.

On 7th, repaired the Gannet Rock cable a short distance from the rock. This cable failed again, and the ship went there in July; removed a leak on August 2, landing it at Hay island instead of Little Wood island, thus saving cable.

August 8, made a repair on the Deer Island-Wilsons Beach cable near Deer Island

landing. This cable is badly corroded.

15th, diverted the Gannet Rock cable from Little Wood island to Hay island. length now is 4.71 knots, and built the connecting line on Hay island.

March 31, repaired the Seal Cove-Big Wood Island cable 300 feet from the island shore.

Prince Edward Island Cables.

June 6, repaired the Wood Island-Caribou cable off the wharf at Wood islands. putting in 80 feet of new cable.

7th, repaired the same cable one mile off Caribou, Pictou county, N.S.

Magdalen Island Cable.

June 5, repaired an ice crush at the Meat Cove landing.

22nd, repaired the same cable five miles off Meat Cove, where it had been broken by a fishing vessel's anchor.

Long Point-Anticosti Cable.

June 29, repaired this cable just below high-water mark.

July 11, made repair one mile off Anticosti, and on the 13th made a repair of seven miles off.

Bruon Island-Grosse Isle Cable.

July 14, repaired this cable just outside of low-water mark at Grosse Isle, where it had been crushed by ice, and on the 17th made another repair one mile off shore, where cable had corroded.

Scatari-Main-à-Dien Cable.

Repaired this cable on July 21, near the island shore, where it had been crushed by ice.

St. Peters Canal Cable.

This cable had been cut by a dredge, on September 21; it was repaired and left coiled on the bank of the canal to be laid across when the dredging would be completed.

McNutts Island Cable,

On August 21, laid a new cable, 1-15 knots, from McNutts island to the mainland. Shelburne county, N.S.; this cable is to be used by the Barrington Telephone Company.

Bermuda Cable Company.

Repaired the Bermuda Cable Company's cable at the Halifax shore end.

Burgeo-Rameau—Newfoundland.

September 30, repaired this cable about two miles from Rameau; cable chafed and corroded over bad bottom. On October 2, put in a new shore-end section at the Burgeo end, where it had been chafed by ice.

St. Paut Island-Bay St. Lawrence Cable.

On October 13, repaired this cable one-half mile off Bay St. Lawrence, and on November 14 made another repair 5 miles off St. Paul island.

Seal Island-Woods Harbour, N.S., Cable.

Made one repair a mile from Seal island on March 17, and another three miles farther out on the 29th.

" 3. I " 5. 6. 6. 23. May 6. C " 6. 3. " 13. S " 13. C June 17. M " 22. C	Cable on hand from last year Laid East Port—Owens Head, Campobello. "White Head Island—Chaneys Island. "Chaneys Island—Ross Island. "Ross Island—Grand Harbour. "Sent cable to Levis, Que. Gannet Rock—Picked up. "Laid. Seal Island—Picked up. Laid. Condemned.	1 25 75 50 25 3 00	Knots.
April 1	Laid East Port—Owens Head, Campobello. "White Head Island—Chaneys Island. "Chaneys Island—Ross Island. "Ross Island—Grand Harbour. "Sent cable to Levis, Que. Gannet Rock—Picked up. Laid. Seal Island—Picked up. Laid.	1 25 75 50 25 3 00	
" 3. I " 5. 6. 6. 23. May 6. C " 6. 3. 13. S " 13. S June 17. M " 22. C	Laid East Port—Owens Head, Campobello. "White Head Island—Chaneys Island. "Chaneys Island—Ross Island. "Ross Island—Grand Harbour. "Sent cable to Levis, Que. Gannet Rock—Picked up. Laid. Seal Island—Picked up. Laid.	1 25 75 50 25 3 00	- 00
" 6	" Chaneys Island—Ross Island. " Ross Island—Grand Harbour. " Sent cable to Levis, Que. Gannet Rock—Picked up. " Laid. Seal Island—Picked up. " Laid.	3 00 3 00	30
May 6	Gannet Rock—Picked up "Laid Seal Island—Picked up "Laid	30	30
" 13	Seal Island—Picked up Laid Laid		00
June 17		1 07 14	58
	Magdalen Island—Picked upLaid	5 27	5 13
	Condemned	5 53	4 67
" 17E	Condemned Sryon Island—Laid Gannet Rock—Picked up.	30 12	05
	" Laid. Deer Island—Laid. Gannet Rock—Picked up.	13 19	6 93
C	" Laid Condemned McNutts Island—Laid	4 46 20 1 15	
October 13 S	St. Paul Island—Picked up Laid	1 00	39
	Fook aboard at Halifax St. Paul Island—Picked up Laid	5 85	17 25 5 85
	Condemned Sent to British Columbia	50 7 25	
1917.			
" 31B	Seal Island, N.S.—Picked up	52 02	58
" 31C	Cable on hand	11 99 51 90	51 90
Date.	SHORE END CABLE.	Knots.	Knots.
1916.			,
April 1C May 8C	Cable on hand Gannet Rock—Picked up		1 33 05
1917.	Cable on hand		1 90
March 31			1 38
	FOUR CORE CABLE.	1 ,	
March 31 C	Cable on hand		1 19
	TWO CORE CABLE.		
March 31	Cable on hand		1 50

COLLECTION OF REVENUE

By E. T. SMITH, COLLECTOR OF PUBLIC WORKS REVENUE.

During the year 1916-17, the revenue accrued from public works shows an increase of \$19,452.43, being \$292,316.11, while in the preceding year it was \$272.863.68. The collections show a decrease of \$5.783.47, being \$256,789.57, while in 1915-16 they amounted to \$262.573.04.

The revenue accrued from slides and booms was \$97,196.01, or \$11,031.40 less than for the year ended March 31, 1916. The collections were \$97,142.16, or \$11,085.25 less than for the previous year. The outstanding uncollected revenue from slides and booms was \$53.85 more than in 1915-16.

The graving docks yielded \$64,918.37, or \$9.702.14 more than in 1915-16.

Sales and rents collected amounted to \$94,729.03, being \$4,599.64 more than the previous year.

Having dealt with the revenue in a general way, I now submit the particulars in detail, relative to the several services under their respective heads.

SLIDES AND BOOMS.

OTTAWA DISTRICT.

The tolls charged up amounted to \$16,050.97, or \$15,216.64 less than in 1915-16. The number of saw logs that passed through the works was 2.516.375, or 1,395,529 pieces less than the previous year. Of square timber there was none.

All the revenue accrued during the year was collected but \$38.85 overcharged. Of the dues accrued since July 1, 1889, when this department took over the collection, there remains uncollected \$9.200.46. Of the dues accrued before July 1, 1889, there still remains \$56,805.65, all of which should be written off.

The accounts for the Ottawa district stand thus:

Dues accrued during the year to March 31, 1917	\$16,050 97 9,161 61
Collected	\$25,212 58 16,012 12
Balance outstanding, March 31, 1917	\$ 9,200 46
Being composed of:—	
Dues of 1889-90	\$ 6,903 05
" 1890-91	28 42
" 1892-93	379 80
	196 71
" 1896-97	637 37
1903-04	
" 1911-12	723 - 63
" 1912-13	251 15
" 1913-14	25 - 31
" 1914-15	16 17
" 1916-17	- 38 85
	\$ 9,200 46

Balance of dues outstanding prior to July 1, 1889, when this department took over the collection, \$56,805.65.

Herewith are statements in detail regarding the year's business:-

No. 1.—Statement of the number of pieces of square timber, sawlogs, etc., which passed through the Ottawa works during the year ended March 31, 1917.

No. 2.—Statement of dues accrued from each of the slides and works of the Ottawa district during the year ended March 31, 1917.

Apart from two accounts amounting to \$1,044.68, all the revenue from the Ottawa slides and booms, since I took charge in 1889, has been collected, excepting such as should have been written off long ago, or a few items in dispute which I expect will have to be forgiven.

The number of saw logs which passed through the works during the past year was 1,395,529 less than during the previous season, and there were 16,840 cords of pulpwood less than in 1915-16.

The Dumoine works were the only ones of the whole Ottawa River system which gave more revenue than the previous year, and it only amounted to \$176.35. I expected a considerably greater revenue than we had in 1915-16, but the scarcity of labour, lack of water in the streams, and holding back logs made on the tributaries, to enable the operators on the main Ottawa to get their logs down, tended to make the revenue of 1916-17 the smallest on record.

ST. MAURICE DISTRICT.

The revenue, being the largest ever accrued from this district, was \$80,150.45, being \$5,427.10 more than in 1915-16. The collections amounted to \$80,150.45, or \$5,427.10 more than in 1915-16. With the exception of an item of \$3,709.62, dues of 1909-10, disputed, all the dues accrued in this district since I took it in 1892 have been collected.

The amount outstanding prior to July 1, 1892, remains unchanged, viz., \$14,481.49, and should be written off.

The number of pieces of all kinds of timber that passed through the works was equivalent to 10,845,075 pulp and saw-logs or 1,338,775 more than the previous year.

The St. Maurice boom and slide system was leased to The St. Maurice Boom and Driving Association for a period of three years at a rental of \$1 a year; the company is to levy the rates of toll as authorized by Order in Council, and after deducting cost of operation and repairs authorized by the Minister of Public Works, any surplus of revenue is to be paid over to the Government.

NEWCASTLE DISTRICT.

The dues accrued from this district amounted to \$498.09, being \$136.45 less than the previous year, all of which have been collected at this date.

The totals outstanding on March 31, 1917, amounted to \$3,556.89, of which \$3,521.19 should be written off in accordance with a judgment in the Exchequer Court. \$35.70 will also have to be forgiven, the debtor being hopelessly insolvent at the time of his decease.

SAGUENAY DISTRICT.

The dues accrued during the year ended March 31, 1917, amounted to \$496.50, all paid but \$15, of which \$5 is uncollected to date, being \$1,105.41 less than in 1915-16. As the Chicoutimi Pulp Company had no logs coming by the Saguenay river of late years, the revenue has gradually declined, but as soon as the new mill at Bagotville is completed, they will again have large quantities to come through this boom.

GRAVING DOCKS.

ESQUIMAULT GRAVING DOCK.

The revenue from this service was \$17,472.08, being \$4,792 less than the previous year. (See statement No. 3). Of the 136 days the dock was occupied during the year, it was used for 80 days by H.M. and C.G. vessels.

The total number of vessels docked was 22, of 72,731 tons.

LEVIS GRAVING DOCK.

The revenue was \$4,280.52 less than for the year 1915-16, being \$26,215.11. (See statement No. 4.) During the season of navigation the dock was occupied for 239 days by 16 vessels, of 26,168 tons. During the winter of 1916-17, it was occupied by ss. McVittie, yacht Courcellette, and dredges Galveston and Fruhling.

KINGSTON GRAVING DOCK.

On May 1, 1910, the Kingston Shipbuilding Company took possession of this dock under lease, the rental of which, \$10,000 per annum, was payable at the end of each and every year. \$20,000, being two years' rent to May 1, 1916, was collected during the financial year. The rental to May 1, 1917, was also paid, and the rent was reduced to \$5,000 per annum for three years from May 1, 1917.

SELKIRK REPAIR SLIP.

During the last fiscal year the revenue was \$1,181.19, being \$275.34, less than the preceding year.

The total number of vessels drawn up on the slip was 22 and 4 lock gates. The slip was occupied for 21 days by 8 Government vessels, 849 tons, for two days by 4 lock gates, 280 tons, and 14 other craft of 1,343 tons. (See statement No. 5.)

HAILEYBURY SHIP WAYS.

The sum of \$50 was received for hauling out the steamer Meteor, which remained on the ways for seven days in July, 1916.

RENTS.

During the year the revenue accrued from government properties has been in 1916-17, sales and interest, \$140,201.72, or \$39,781.69 more than in 1915-16.

The account stands thus:--

Balance from others years	\$ 35,026 32 140,201 72
	\$175,228 04
Collected Written off Balance due March 31, 1917	11,339 81
	\$175,228 04

The amount written off, namely, \$11,339.81, is composed of commission on collection, cost of maintenance, allowed in lieu of repairs or cancelled on account of poverty, etc. Of the amount uncollected, \$69,159.20, more than one-half of which is an account being adjusted by the Department of Justice. I hope to see this reduced substantially this year, although a very considerable portion will have to be forgiven, some of the parties having disappeared, and others being too poor to pay.

In the administration of these properties there are serious obstacles to obtaining as favourable results, rentals, etc., as compared with the same property in the hands of private individuals. The latter can make terms, periods of leases, etc., as they see fit, but we cannot give any assurance in most cases for more than a thirty-day term, as we do not know when some of these properties may be required for government purposes. Hence, we cannot expect to obtain as good rentals as parties who can give a lease for one or more years, and I may say here that this condition makes it difficult for our agents to retain the tenants we may have. The four agents who look after the Wellington Street property have done their work well, and I do not anticipate much loss of rent, except perhaps from unavoidable misfortune to some of our tenants.

The following is a summary of rents collected from public properties during the year ended March 31, 1917, viz.:—

Hydraulic and other rents	\$ 3,526 50
Ottawa, Sussex street	2,064 00
" Egan block	691 59
" Wellington street north	66,299 71
Toronto Post Office site	7,729 71
Province of Manitoba	441 00
Victoria and Vancouver, B.C	2,244 60
Public Building sites	6,967 30
Sundry places	1,479 71
Sales and interest	3,285 47
	\$94,729 03

Annexed hereto is a comparative table of the public works revenue accrued and collected for the year ending March 31, 1917, compared with that of the fiscal year ending March 31, 1916:—

Comparative Table of Public Works Revenue accrued during the year ended March 31, 1917, compared with that of the Fiscal Year ended March 31, 1916, and amounts collected on account of same.

·	Year ended March 31, 1917.	Year ended March 31, 1916.	Increase, 1917.	Decrease, 1917.
Slides and Booms.				
Ottawa District St. Maurice District Newcastle District Saguenay District.	\$ cts. 16,050 97 80,150 45 498 09 496 50	\$ cts. 31,267 61 74,723 35 634 54 1,601 91	5,427 10	\$ cts. 15,216 64 136 45 1,105 41
Net decrease, \$11,031.40	97, 196 01	108,227 41	5,427 10	16,458 50
Graving Docks.				
Esquimalt, B.C. Kingston, Ont. Lévis, P.Q. Selkirk Repair Slip, Man. Haileybury Slip, Ont.	17,472 08 10,000 00 26,215 11 1,181 19 50 00	22,264 08 10,000 00 30,495 63 1,456 52		4,792 00 4,280 52 275 34
Decrease, \$9,297.86	54,918 38	64,216 24	50 00	9,347 86
Rents and Sales.				
Hydraulie rents Minor Publie Works Other publie properties	$\begin{bmatrix} 3,487&00\\ 26&00\\ 136,688&72 \end{bmatrix}$	$\begin{array}{c} 3,492 & 00 \\ 26 & 00 \\ 96,902 & 03 \end{array}$	39,786 69	5 00
Net increase, \$39,781.69	140, 201 72	100,420 03	39,786 69	5 00
Accrued.				
Slide and boom dues	97, 196 01 54, 918 38 140, 201 72	$108,227 \ 41 \\ 64,216 \ 24 \\ 100,420 \ 03$	39,781 69	11,031 40 9,297 86
Net increase, \$19,452.43	292,316 11	272,863 68	39,781 69	20,329 26
Collected.				
Slide and boom dues. Graving docks Rents and sales.	97,142 16 64,918 38 94,729 03	$\begin{array}{c} 108,227 \ 41 \\ 64,216 \ 24 \\ 90,129 \ 39 \end{array}$	702 14 4,599 64	11,085 25
Net decrease, \$5,783.47	256,789 57	262,573 04	5,301 78	11,085 25

No. 1.—Statement of the number of pieces of Square Timber, Saw Logs, etc., that passed through the Government Slides and Works on the Ottawa river and its tributaries during the fiscal year ended March 31, 1917.

	Pieces.
Square timber	None.
Saw logs	2,516,375
Boom and dimension timber	16,190
Railroad ties	
Cedars	
Fence posts	13,642
-	2,638,010
	2,000,010

Also 34,739.97 cords pulpwood.

The revenue accrued on the above was \$16,050.97.

No. 2.—Statement showing the Dues accrued on the undermentioned works on the Ottawa River and its tributaries during the fiscal year ended March 31, 1917.

River or other improvements-	•		Amount.
Main Ottawa		 	\$ 1,261 87
Cheneaux Boom		 	2,075 30
River Petewawa		 	3,977 53
River Madawaska		 	110 63
Coulonge		 	
Dumoine		 	322 22
Black River		 	309 91
Gatineau		 	5,039 74
			\$16,050 97

THE DRY DOCK AT ESQUIMALT, B.C.

STATEMENT of Dues and other charges collected during the year ending March 31, 1917.

Name of Vessel Docked.	Tonnage.	Period o	f Dockage.	Dockage Charges.		T-4-1
Name of Vesser Docked.	Tonnage.	From	T _O	Charges.	Charges	Total.
S.S. "Mariposa" S.S. "Princess Charlotte" H.M.S. "Newcastle" S.S. "South Pacific" S.S. "Prince Rupert" S.S. "Brisconian" H.M.C.S. "Rainbow" S.S. "Barrister" D.G.S. "Malaspina" S.S. "Kenkon Marn" H.M.S. "Newcastle" S.S. "Princess Charlotte" H.M.S. "Algerine" S.S. "Arabian" Submarine C.C.2 S.S. "Belridge" Submarine C.C. 1 S.S. "Don Benito" S.S. "Prince Rupert" S.S. "Fince Rupert" S.S. "El Lobo" S.S. "Strinda" D.G.S. "Galiano"	3151 3844 4800 3661 3379 4121 1911 3678 392 3596 4800 3844 1100 4714 7000 3379 4850 6369 393	May 9. May 29. June 2. June 5. June 7. June 9. June 9. June 9. June 29. July 17. July 17. Aug. 4. Sept. 25. Sept. 29. Sept. 29. Sept. 30. Oct. 3. Nov. 27. Dec. 13. Dec. 23. Dec. 29. 1917.	July 12 Aug. 2 Sept. 12 Sept. 12 Sept. 26 Sept. 30 Oct. 2 Oct. 24 Nov. 29 Dec. 22 Dec. 25 1917. Jan. 17 Jan. 23 Feb. 19	\$ cts. 200 00 392 20 261 20 453 05 566 05 1,811 83 901 00 500 00 1,968 00 96 10 45 70 1,100 00 750 00 750 00 357 41 1,912 60 442 50 1,054 00 350 00	\$ cts. 9 00 13 20 13 80 18 60 28 20 21 00 9 60 137 40 113 40 15 60 94 20 3 60 240 00 105 00 155 40 4 20	547 50 1,209 40 354 20
						17,472 08

THE DRY DOCK AT LEVIS, P.Q.

STATEMENT of Dues and other charges collected during the year ending March 31, 1917.

Name of Vessel Docked.	Tonnage.	Period of	Dockage.	Dockage Charges.	Other Charges.	Total.
Name of vesser Docked.	Tonnage.	From	То	Charges.	Onarges.	Total.
S.S. "Cascapedia" S.S. "Gaspesian" Dredge "Fruhling" S.S. "Lord Strathcona" 2 Pontoons S.S. "D. A. Gordon" Dredge "Ottawa No. 115" 2 Pontoons Yacht "Chanticleer" D.G.S. "Lady Evelyn" New Dry Dock Dredge "Ottawa" S.S. "Lady Evelyn" S.S. "St. Paul" S.S. "Faton Hall" S.S. "Eaton Hall" S.S. "Cartier" S.S. "Plessis" S.S. "Montcalm" S.S. "Plessis" S.S. "Cartier" S.S. "Plessis" S.S. "Harry E. Packer" Dredge "Beaujeu" S.S. "G. R. Crowe" S.S. "Fremona" S.S. "Champlain" S.S. "Montcalm" S.S. "Arachne" S.S. "Arachne" S.S. "G. R. Crowe" S.S. "G. R. Crowe" S.S. "Arachne" S.S. "Gartier" S.S. "G. R. Crowe" S.S. "Hermona" S.S. "Hermona" S.S. "Femona" Yacht "Courcellette" S.S. "Lord Strathcona"	1945 2029 3711 495 170 556 559 2049 2940 2940 3898	Wint Wint Wint April 19 Entry Entry Wint April 19 May 30 Lab Lab Lab May 31 June 5 June 19 Entry June 10 June 19 Entry April 24 Entry June 14 Entry June 22 July 11 May 31 April 28 Entry	ering. ering. ering. April 24 fee. fee. fee. ering. April 24 May 31 ering. or. June 5 June 13 June 21 fee. fee. fee. fee. June 29 July 1 fee. June 29 June 10 June 30. Sept. 13 fee. fee. fee. fee. fee. fee. fee. f	200 00 200 00	29 75 24 50 41 80	\$ cts. 800 00 200 00 200 00 200 00 400 00 200 00 400 00 200 00 400 00 15 81 23 68 529 56 200 00
				25,958 42	256 69	26,215 11

THE SELKIRK REPAIR SLIP.

STATEMENT of Dues and other charges collected during the year ending March 31, 1917.

Trom To	Name of Vessel Docked.	Tonnage.	Period of	Dockage.	Dockage Charges.	Other Charges.	Total.
Str. "Tempest" 75 May 12 May 16 \$ cts \$ cts Str. "Majestie" 25 July 3 July 3 25 00 25 00 Gov. Launch "Edna C" 21 July 28 July 29 25 00 25 00 Dredge "Assiniboine" and pontoons May 6 May 11 55 00 55 00 Str. "Wolverine" 278 Aug 23 Aug 23 55 60 55 60 Gas L. "Orion" Aug 22 Aug 23 25 00 25 00 Barge "Alexandra" Sept. 3 Sept. 3 Sept. 4 25 00 25 00 Barge "Saskatchewan" 219 Sept. 7 Sept. 12 89 79 89 79 Str. "Idel" 84 Sept. 13 Sept. 15 35 00 35 00 Gov. Mud Scow 80 Aug. 8 Aug. 9 25 00 25 00 Str. "Bradbury" 500 Aug. 12 Aug. 21 310 00 310 00 Str. "Amisk" 32 Oct. 10 0ct. 10 25 00 25 00 Str. "Amisk" <	Name of vesser booked.		From	То			
1,182 99	Str. "Majestie". Gov. Launch "Edna C". Dredge "Assiniboine" and pontoons. Str. "Wolverine" Gas L. "Orion" Barge "Salexandra". Barge "Saskatchewan" Str. "Idel" Gov. Mud Scow. Str. "Bradbury" Pile driver. Coal barge. Str. "Amisk" Str. "Daisy" Str. "Vaughan" 4 lock gates. Str. "Wolverine" Str. "Wolverine" Str. "Daisy" Dredge 205. Launch "Adanas".	25 21 278 219 84 80 500 500 32 38 110 134 280 32 278 38 248	May 12. July 3. July 28. May 6, 23. Aug. 22. Sept. 3. Sept. 7. Sept. 13. Aug. 8. Aug. 12. Aug. 12. Aug. 12. Aug. 12. Sept. 1 Oct. 10. Oct. 13. Oct. 9. Oct. 10. Oct. 2. Nov. 2. Nov. 2. Nov. 3. Nov. 8. May 23.	May 16 July 3 July 29 May 11 Aug. 23 Sept. 4 Sept. 12 Sept. 15 Aug. 9 Aug. 21 Aug. 23 Sept. 16 Oct. 10 Oct. 10 Oct. 11 Oct. 3 Nov. 3 Nov. 3 Nov. 3 Nov. 4 Nov. 8 May 29	40 00 25 00 25 00 55 00 25 00		40 00 25 00 25 00 55 00 55 00 25 00

REPORT OF THE CHIEF ACCOUNTANT By A. G. KINGSTON, CHIEF ACCOUNTANT.

Amourrs expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1917.

Name of Work.	Construction and Improve-ments.	Repairs and Furniture.	Rents.	Salaries of and Supplies for Caretakers.	Heating.	Lighting.	Water.	Power.	Total.
Public Buildings.	\$ cfs.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	s ets.	& cts.	\$ cts.	\$ cts.
Nova Scotia.									
Amherst experimental farmpost office, etc.		23 59 441 06	26	702 73	248 20	1,748 32	80 00		23 59 3,220 31
Annapolis immigration office			45 00		279 18 326 07		50 00		1, 123 77 1, 273 32
Aricha post office, etc. Baddeck post office.	907 13	28 82 1 67		200 45 436 61	342 00 230 00	60 04 81 90			631 31 1,657 31
Bear River post office	200 00	69 20					31 50		1,107 82
Canso post office		140 21 112 11		434 28 541 93	434 50 232 90	317 15	19 00		1,326 14
" (new)	4, 172 63	245 63					112 00		5,19348 $2,15923$
Glace Bay post office		123 27	2 00				44 00		1,666 40 986 63
Hajifax archives office		07 071	280 00	18	0.000			167 55	310
		1,037 09	1,200 00		363 00		23 34		
			100 00	4 50					
" immigration building		18 35			222 70		459 10		158
" Dennis building (Mil. and Def.) " post office. etc.		308 18	9,237 00	45 00 6,533 69	1,198 38	1,818 46	652 39	582 02	9,590 18 $12,173 85$
" postal station (north end) " Public Works office (clerk of works	12 00								12 00
Trees, Tr		08 07	52 50	2 45	910 30	02 926	23 25		54 95 1.042 53
Kentville experimental farm	570 56	776 35		438 21	414 19 270 96	224 68 444 90	50 00		1,209 43 1,980 42

Amounts expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1917—Continued.

	8 GEOR	GE '	v, A. 1918
Total.	\$ cts. \$ 2,006 53 54 54 54 54 54 54 54 54 54 54 54 54 54	94,817 40	877 72 2, 267 76 162 73 9, 196 45
Power.	o et s. 7 7 90 9	756 57	
Water.	66 Ct 25 S S S S S S S S S S S S S S S S S S	2,834 61	34 00 225 00
Lighting.	\$ cts. 243 37 581 36 581 36 581 36 581 36 582 36 583 37 583 37 583 36 583 36 583 36 583 37 583 36 584 36 5	14,613 29	122 00 12 71 2 34 1,228 95
Heating.	cts	14,612 13	534 38 747 13 1,052 04
Salaries of and Supplies for Caretakers.	\$ cts. 413 44 437 71 498 96 484 45 672 99 672 99 672 99 672 99 673 89 673 89 673 89 673 89 673 89 673 89	27,092 80	673 19
Ronts.	\$ ets. (605 25 (605	12, 455 21	70 00 160 38 14 58
Repairs and Furniture.	\$ cts. 97 19 2 00 2 00 2 00 153 70 158 90 53 70 158 90 53 141 50	8,450 83	183 52 245 40
Construction and Improvements.	\$ cts. 558.87 2,474.22 1.356.66 615.20 1,086.99 442.34	14,001 96	221 34 547 21 3,735 21
Name of Work.	Public Buiddled. Nova Scotia—Concluded. Liverpool post office, etc. Lamenbury post office, etc. Lamenbury post office, etc. North Sychey immigration building. Ransparo post office, etc. Picton custom house, etc. Parrsboro post office, post office. Shelburne post office, etc. Shelburne post office, etc. Shelburne post office, etc. Sychey immigration building. Cries) Cries) Ranspard filee, etc. Sychey limes post office, etc. Sychey limes post office, etc. Sychey limes post office. Westville post office. Truro post office. Westville post office. Welville post office. Windsor immigration office. Welville post office. Wolfville post office. Wolfville post office. Vermouth post office, etc. Namouth post office, etc. Namouth post office, etc.	Totals, Nova Scotia	Prince Educard Island. Charlottetown experimental farm

	SESSIONAL	PAPER	No.	19
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SESSIONAL		PEK																					
53 00 789 13 715 90 1,670 23 2,127 81 1,534 07	19,394 79		1,800 59 1,676 08 1,439 74						_				£ 4	_	744	7,689 54	850			498	3, 582, 50 1, 459, 60	3	170,488 44
				4	22 05									224 15		846 11				5 20			1,097 51
4 50	308 50		5 50 52 00 20 00	26 00	18 00		887 832 832		80 00 14 50				118	1,932 00		537 96				58 00	34 00		5,708 60
44 46 73 78 190 00 548 85 131 42	2,354 51		470 13 646 20 301 09	92 96	116 01		1, 150 54						01 1			308 49	172	298 40			43 08 456 91		11,154 68
405 03 401 61 511 48 751 75 573 75	4,977 17		473 45 424 52 530 05	340 25		-	358 79							_	517	1,026 47	152			528	2,453 53		23,154 57
137 40 184 71 448 35 486 99 472 25	5,098 16		432 86 491 16 316 75				396 72							-	_	2,543 67	461	576 41			1,022 00		23,921 97
24 00	269 63		45 00								25 00			225 00		52 00		150 40					888 40
29 00 197 74 55 80 520 40 295 22 355 98	1,883 06		418 65 62 20 226 85		110 70		216 83									925 20				289 03	129 78	- 1	8,096 52
	4,503 76			00 09	83	4,479 06			20 00						101 40	2,295 75	# : 3 :		00	58 67			96,466 19
" Public Works office (clerk of works res.). Georgetown post office, etc. Montague post office, etc. Summerside post office, etc. Tignish post office, etc.	Totals, Prince Edward Island	$New\ Brunswick.$	Bathurst post office, etc. Campbellton post office, etc. Chatham post office, etc.	Ctart intingration office. Dalhousie post office, etc	Fairville post office. Fradevictor experimental farm	post office, etc. (old)	Grand Falls post office	Hillsborough post office, etc	Marysville post office	Moneton post office Newcastle nost office etc	Osekland (Hampton) post office.	St. John Bank of Commerce building (Marine	agency)	" custom house, etc.	savings bank	" post office, etc. (old)	" West post office	St. Stephen immigration office	"Bridge post office, etc	Sussex post office, etc.	Tracadle lazaretto. Woodstock post office.	Minor offices throughout the province	Totals, New Brunswick

Amouvrs expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1917—Continued.

	Fotal.	s ets.	1, 343 09 1, 173 39		414 175 175 188 199 199 150 150 150 150 150 150 150 150 150 150			4, 353 48 4, 358 09 728 93 9 032 94	12848		E V,	8,690 44 44 00 145 62 8
	Power.	es Si		9								
	Water.	66	28 00	21 PG	36.25	300 002	00 00	25 00 25 00 25 00	150 00	342.93	38 00	
	Lighting.	ee	202 81	238 50	47 99			 \$ 12 23 \$ 12 26 \$ 12 26	92 123	101	21 9 8 21 9 8	33.1 20 52 82
-	Heating.	s cts.	47 50 269 20	262 25	00 6#1		254 56 176 55	25228 2228	30 +02	92 826	20 00	517 13
	Salaries of and Supplies for Caretakers.	ee.	545 40	143.71	84 15	591 26		455 06 327 80 123 13		168 71	480 00	623 80
-	Rents.	et s.		200 00	175 00 24 99	50 00	90 001			675 00	20 00	4-1 00 85 00
	Repairs and Furniture.	ee	381 95 13 39 652 25	83 26	100 49		261 08	161 180 180 180 180 180 180 180 180 180 18	416 19	30 55 55 65 56 65	916 85 82 83 83 83 83 83 83 83 83 83 83 83 83 83	165 08
	Construction and Improvements.	& CE S	1, 112 50			3,861-97 1,269-87		3,290 10	407 50 15,026 14 4 489 23	200 00		7,050-14
	Name of Work.	Public Benidings—Continued. Onclore	Acton Vale post office. Armstrong (Beauer) customs office and immigration office. Arthubaska nost office.		Berthierville post office. Black Lake post office. Brownsburg post office. Brownsburg post office.	Caronna post office. Cap Rouge experimental farm. Chicacottini post office, etc. Chicacottini post office, etc.	Compton post office. Cookshire post office. Drummondville post office, etc.	Dundee custom house. East, Angus post office. Parnham post office.	Grandy post office. Grand Mere public building (site) Grosse Isle quarantine station, improvements Grosse Isle quarantine station, may buildines	Highwater (Brone Co.) immigration office. Hull post office. Huntingdon post office	Derville post office Joliette eustom house—temporary "exeise office	te. spector's office ary)

		_								101		201	529	070															,	<u> </u>	661	66	13.4	1 0	070	395	265	454	1,406.57	191	100	200	495	974	969	10	970	533	153	600	0.1 600,1	0	578	320	510	0000	200	556	375		-
Washing								: : : : : : : : : : : : : : : : : : : :														92.9															862 45				00 623 6	0,570,0	279 00										2, 129 63								
	•		21 00					45 00									28 56					50 00			٠.	_	23 28				Ė	11 64		٠.					220 55		190 02 6	0, 109 20			00 886		_				10 071		•		_				_	0.0	
			133 40	-	_	_			-		-		-					_			-	212 05					33 48					06 64		140		184			112 22			00 626,01								-	00 161			-			_				_
			230 60										-								•	195 30		58 00								18 40							462 50		71 611 17	1,014 1/									10 601										
			170 17					1.1 45														444 02		3 00	000					i d	(3/ 78				100001				305 20		63 336 6	70 000 7			706 80															00 816	
00 196	20101					80 00	00 00																	00 016					-	66 660,14						00 09		112 50			00 200		8,046 00				•						139 00			1 600 00			_		
			49 09															٠.		60 21 6		213 00		4 75	G - T			0.50				19 59							306 10					_	500															900 40	
	691 69	00 100									107 95		_								180 00										2,231 13		3, 134, 83								15 0.01 52	10, 17, 07		82.076 18		1 177 01	1,111,01				06 0			543 00							
" weights and measures office (tem-	on conjector office	Jondaler post office	Knowiton post office, etc	Lachine post office	Lachute post office	(acolle immigration office		Laprarie post omee	L'Assomption post office	Lennoxville experimental farm	Louis own ond one abod	CVIS ALTHOURY AND SHICK	" post office, etc	Longuenil post office	omicornillo most office	oursevante post ourse	Magog post office, etc	Marieville post office.	Matono nost office	actual post office.	Megantic post office	Montmagny post office, etc	" public works storage	Mont Joli post office	ontrool probing office (Duluth building)	ontreat archives office (Dufutti puntumg)	·	" Bonaventure station, mail room.	" metome ourness (Don't landling)	the capters (areat number)	enstom nonse	;	77	" oxemining warplanes (now)	Caroniana Warrenda (m. n.)					" ordnance stores	" nost office ate	(t t) (1.1. TT. (1.1.)			" " " "B"	(C) 3		; ;	;	(d), ,,	מ ייני	**	; ;		,,M,,	((LV))))		:		" Hooholaga	TTOOTICIAR TOOLICE

8 GEORGE V, A. 1918

2222 35 53 74 88 84 00 009 3,448 06 cts. 1,750 1,202 426 359 (12,450 1,005 (6,087 : 10,407 8 888 200 6,253 1,133 1,133 2,253 1,133 1,133 1,133 1,133 1,133 1,1 $\frac{2,547}{7,916}$ AMOUNTS expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1917—Continued. 604 Total. 66 ets. 00 758 675 1,023 525 ø, cts. 66 94 55 82 82 82 893 8 88 8 8 2,104 69 Water. 267 2 25 4.50 60 cts. 45 9 **433333554** 046 19 55 88 253 44 Lighting. 86 = 121 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 1 312 671 29961 66 cts. 88 8888888 63 48 27 Heating. 1,078 217 779 1,043 525555 27666 Supplies for Carctakers. cts. Salaries of : 50 282828283 28388283 98 38 3,000 405 529 300 199 177 144 330 570 541 33 1117,581 æ cts. 88 8 35 3638 3333 00 12,014 00 8 Rents. 1,750 8888 213 888 590 50 1.005009 4 73 cts. 2008 8888888 $\frac{2}{3}$ Curniture. 23 10 Repairs 782882 2 E E $\frac{081}{379}$ 570 258 107 ¢. Construction cts. 200 00 719 98 4.981 13 3 20 Improve-7,802 ments. 60 Montreal postal station Ste. Cunegonde..... Prud'homme block (Pub. Works supervising engineer's office (D.P. 41-45 Union street, valuation of St. Henri.... Windsor station mail room, Mount Royal East postal station... Generally..... Murray Bay post office, etc.
Nicolet post office, etc.
Nominingue immigration building. Peribonka immigration building...... engineer's office, D.P.W. (Merger building).... immigration buildings (Louise eminm. detention hospital (medical imm. detention hospital (Savard Shaughnessey building (Marine eitadel (Gov. Gen'ls quarters)..... Pierreville post office..... Quebec archives office..... Plessisville post office.... property.... Public Buildings—Continued. Candiac post office.... Quebec—Continued. superintendent's res. Name of Work. custom house, etc... D., etc.).... bankment) "

Owing to system of organization of these ¹This sum indicates the total wages of caretakers, firemen, elevatormen and cleaners for all buildings in Montreal. staffs it has not been practicable to assign proper share to each building.

41 25	
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8 9 9 9 19 12 18 18 18 18 18 18 18 18 18 18 18 18 18	
750 00 810 00 810 00 110 00	200 00 00 00 00 00 00 00 00 00 00 00 00
21 : 10 : 88 : 22.831082424888888 : 22.21 : 38 : 38 : 38 : 38 : 38 : 38 : 38 : 3	17 30 20
357 12 64 01 7 220 89 7	271 30 271 40 271 40 271 40 271 40 116 89 119 74 119 18 118 18 8 12
384 37 384 37 583 04 683 04 150 24 328 81 328 81 338 81 348 81 358 81 368 81 378 81 388 15 388 15	
384 384 388 328 328 328 338 331 150 631 193 331 193 331 193 331 193 331	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
84 85 85 85 85 85 85 85 85 85 85 85 85 85	88888888888888888888888888888888888888
,003 14 ,003 14 ,00	
337 50 27 09 210 50 210 50 210 50 200 00 300 00 300 00 2	22 91 112 57 112 57 162 00 50 00 220 00 420 00
3377 270 270 3,000 3,000 3,000 1,450 1,450 1,450 3,000 2,200	200 22 22 163 50 50 420
21	
15 60 287 89 89 89 89 89 89 89 89 89 89 89 89 89	41 24 245 20 285 80 93 50 681 67 720 76 729 90 292 90 78 93 34 52
38 33 31 11 82 82	23.3.3.3.3.4.90 24.3.45 25.4.10
64, 225 85 1, 279 20 7, 119 21 7, 119 21 2, 259 58	1,533 33 84 90 84 90 243 45 45 45 45 45 45 45 41 102 54 4,102 54
office (103 St. Jean). y (King's wharf). d (116 Mountain hill) ters (R. & O. bldg.) e. (mann). see examiner's office. lost office. oost office. a office. s office (D.P.W.). e. etc. inspector's office. n office. s office. s post office. leve exp. farm. co. oost office. sy post office. oost office.	post office. ev. building. fice, etc. t office. cost office. min post office. e, etc. e, etc. fixe, etc. star's office.
(King's wharf) (HKing's wharf) (H6 Mountain) ers (R. & O. blc (main) ers office. office. office. office. etc. teasures office. etc. office building office office office office office inspector's office off	Reauce post office minand rev. building. post office, etc lines lines lines, etc lines, etc lines, etc office, etc Thehemin post office. Thehemin post office. st office, etc st office, etc to office, etc post office, etc
office (103 St y (King's wh) 1 (116 Mounts ters (R. & O se examiner' "B". office. ost office. '76 St. Peterneasures office. 'etc. office (D.P. etc. office (D.P. etc. office. office. office. office. office. office. s post office.	post office. tev. building fice, etc. ter. toffice. etc. min post office. et etc. etc. filee, etc. ster's office. ster's office.
office (116 Mg (King') (King') (King') (Li16 Mg (tars) (R. c. (main, 'B)") (116 Mg (tars) (R. c. (main, 'B)") (116 Mg (tars) (116 Mg (tars) (t	post office. but ince. etc to office etc to office etc min post office e. etc tec tec flice, etc flice, etc
ingration of the state of the s	Beauce post offinand rev. buil and rev. buil and rev. buil and set office, etc. I house. I house. I house. I house office. I office. Set office.
immigration office (103 St. Jean) marine agency (King's wharf) marine school (116 Mountain hill) observatory pilotage quarters (R. & O. bidg.) post office, etc. (main) post office, ease examiner's office postal station "B". St. Roch post office. St. Roch post office. St. Sauveur post office. St. Sauveur post office. St. Sauveur post office. St. Sauveur post office. St. Short in the saud measures office. Generally med post office, etc. post office, etc. post office, etc. In minigration building post office, etc. In minigration building post office, etc. In minigration office. In minigration office. Inspector's office. Inspector's office. In the des Monts post office. In the des Monts post office. In the des Monts post office. In ede la Pocatiere exp. farm ench post office. In ede la Pocatiere exp. farm ench post office. In the des Monts post office. In the des M	in the Beauce bin the inland 1 post of eustom house post office de Matha post office, the Beauce Jort post office, and d'Titche und d'Titche post office rese post office me post office me post office me post office me post office in post office in post office me post office in post office in post office.
marine agency (King, marine agency (King, marine selvol (116 M observatory pilotage quarters (R. pilotage quarters (R. post office, etc. (main, post office, etc. (main, seeds office St. Roch post office St. Roch post office. weights and measures Gonerally. Ilmond post office, etc land post office, etc challs post office, etc ck Island post office, etc ck Island post office, etc wwingan Falls post office. etc wwingan Falls post office. etc ck Island post office, etc wwingan Falls post office. ck Island post office, etc wwingan Falls post office. Agathe des Monts post office. Agathe de Bellevue post office. Agathe des Monts post office. Agathe de Bellevue post office. Agathe de Bellevue post office. Gabriel de Brandon post office.	George de Beauce Hyacinthe inland 1 post office Jean de Matha post office Jeanbert post office Joseph de Beauce I_ambert post office. Jambert post office. Therese post office Therese post office rebonne post office
"mmigration office (103 St. J. "marine agency (King's whar "marine school (116 Mountain observatory. "pilotage quarters (R. & O. b. post office, etc. (main). "seeds office, etc. (main). "St. Roch post office. "St. Roch post office. "St. Roch post office. "St. Sauveur post office. "War tax office, etc. "weights and measures office. "Generally. Richmond post office, etc. Rigand post office, etc. Rigand post office, etc. Rigand post office, etc. Roch Island post office, etc. Roch Island post office, etc. Shawville post office, etc. Ste. Agathe des Monts post office. Ste. Anne de la Plocatiere exp. farm. St. Eustache post office. St. Fustache post office. St. Fustache post office. St. Fustache post office. St. Fustache post office.	St. George de Beauce post office. St. Jean eustran house. St. Jean eustran house. St. Jean de Matha post office. St. Jerome post office, etc. St. Jerome post office, etc. St. Joseph de Prauce post office. St. Lambert post office, etc. St. Momuald d'Etchemin post, office ster, fose post office, etc. Ste. Therese post office, etc. St. Tite post office, etc. Trierbonne post office, etc. Trerford Mines post office, etc. Trerford Mines post office, etc. Treitord Mines post office, etc.
SYST SYST STATE OF THE STATE OF	HHI K K K K K K K K K K K K K K K K K K

Amounts expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1917—Continued.

						8 9	EORGE V, A. 1918
Fotal.	\$ ets. 1,778 29	2, 109 47 304 50 1, 202 69 562 72	680,412 01	Total	\$ ets.	305, 294 62 981 86 11, 025 29 6, 904 60 1, 233, 758 26	90, 289 95 4, 216 57 19, 877 02 4, 681 70 15, 106 58 44, 364 50 349, 443 49 66, 298 20 41, 977 41
Power.	\$ cts.		12, 483 58	Power.	e cts.		15,106 58
Water.	cts. 50 36	90 00	22,323 90 1	Wafer.	s cts.		10 10
	cts. \$	75		Lighting.	s cts.		13,886 85 482 55
Lighting.	\$ ets	188 75	37,617 86	Heuting. Eighting.	s ets.	8,748 56	26,962.25
Heating.	\$ cts.	551 87 308 97 157 02	46,785 89	Salaries and Mapplies.	s cts.	8 00 016 '8	49, 410 85 26, 962 25 13,886 85 780 00 1,073 80 482 55
Sularies of and Supplies for Caretakers.	\$ cts.	606 51 344 98 25 80	176,764 93	Rents.	s cts.		
Rents.	\$ cts.	300 00	46, 599 31	Sundry Mainten- ance,	.cts.		(7, 500 07 4, 631 79 49, 443 49 41, 977 41
Repairs and Furniture.	\$ cfs.	672 34 4 50 312 79 379 90	35,915 31	Repairs.	ets.	99509	
	ets.		301, 921 23 35	Construc- tion and Improve- ments.	& G(s.	287, 636 06 981 86 11, 025 29 6, 904 60 1, 233, 758 26	4,216 57 40 60 44,364 50 66,298 20
Construction and Improve- ments.							ngs generativ
, Name of Work.	Public Bulldings—Continued. Quebre—Continued. Trois Rivières post office, etc., (temporary) Trois Pistoles nost office.	Valleyfield post office, etc. Verdun post office. Victoriaville post office, etc. Minor offices throughout the province.	Totals, Quebec	Name of Building.	Ottavoa Buildings.	Departmental buildings— Customs building. *Faster block addition Taugevin block—fire proof roof Taugevin block—fire protection, etc. Parliament buildings—restoration.	Chibran and acpartmental buildings generally (Library of Parliament, East, West, and Langevin blocks)— Fire escapes. Greending Major's Hill park). Removal of snow. Power for elevators. Power for buildings. Repairs and furniture. Steel fittings.

SES	SIC	N	ΑL	F	PA	PE	R	Ν	0.	19)																
137,186 79		1.882 73	31,780 72	2,949 00	5,276 95	31,786,00	722 96	9,10657	469 20	24,974.35	8,814 45	15,312 15	5,310 00	2,469 42	740 32	3,527 97	48,743 02			34, 136, 97	13,692 02	39,369 52	3,626 10	313 85	31,853 84	488, 669 US	15, 106 58 3, 154, 712 74
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:	938	172	3,034	467	963	870 76	370	476 19	1 005 27	1,000		5,055 17	:			610 75					192 42				4,588		50,995 06
	530	385	9,334	551		3.814.97		2,788 71	9 469	1	2. E	10,256 98	:	:		1,957 22					6.099 22		1,306 62		9,417	10,615 19	100,659 74
	280 00	300 068	2,850 00	1,560 00					3 030 00	0,000,0	5,310 00	:	:			00 096					280 00		1,800 00		13,080 00		109,510 85
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	9 169 31		15,795 27	000000	3,488 60					510 00		:		:						34,136 97		:					120,252 42
:	36 55	:	766 01	:										1	740.32	000	9,080 99					:					360,673 36
137,186 79		934 36				27, 100 27		5,841 67	7 039 47	24, 464, 35			5,310 00	2,469 42		00000000	39,000 US				6,620	39,369 52			4,767 46		1,955,385 66 360,673 36 120,252 42 442,129 07 109,510 85 100,659 74
Sites for new departmental buildings—Acquirement of proporties— Wellington street, West.	Maintenance of acquired properties— Sussex street	w Wellington street, East.	West	Archives building	Astronomical observatory	Experimental farm	Fisheries museum	Fuel testing building	Geodetic building (Sussoy etract)	National Art Callery (Pictures)	Post office.	Printing bureau.	" elevator	motor generator	repairs to root	Public Works (workshop)	1	777 *Te	Englished and Bight.	720		" extension for Imperial Government	Supreme Court.	Victoria island shipyard	Victoria memorial museum	Sundry rented buildings	Totals, Ottawa

*Salaries, heating, lighting, included in Parliament and Departmental buildings. †Salaries, heating, lighting, included in Parliament and Departmental buildings.

AMOUNTS expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1917—Continued.

		8 GEORGE V, A. 1918
Total.	es cts.	1, 345, 128, 138, 138, 138, 138, 138, 138, 138, 13
Power.	s cts.	321 25
Water.	e s	7,77,79 9,800
Lighting.	es Cts.	11717171717171717171717171717171717171
Heating.	es cts.	2
Salaries of and Supplies for Caretakers.	ee 2.	473 36 474 10 475 86 425 80 425 80 456 48 660 48 660 48 460 43 474 87 474 87 475 92 475 92 475 92 475 92 475 92 476 87 476 87 476 88 436 68 436 68 436 68 436 68 436 68 437 49 436 68 436 68 437 49 438 68 438 68 48 48 48 48 48 48 48 48 48 48 48 48 48
Rents.	ec Cts.	200 000 200 000 108 33 2,000 000 85 00
Repairs and Furniture.	ee Cts.	**************************************
Construction and Improve-ments.	& cts.	2,999 79 2,999 79 567 43 3,622 13 3,631 96 169 34 1,974 36
Name of Work.	Public Buiddings.	Acton post office, etc. Alexandria post office, etc. Amprior post office, etc. Amprior post office, etc. Anthers post office, etc. Athers post office, etc. Avince post office, etc. Avince post office, etc. Avince post office, etc. Belleville post office, etc. Belleville post office, etc. Brampton post office, etc. Branged drill hall (okl) Bridgeburg immigration office, etc. Gradeton Place post office, etc. Brussels post office, etc. Brussels post office, etc. Carden Place post office, etc. Carden Place post office, etc. Cardinal post office, etc. Carden Place post office, etc. Carden Place post office, etc. Chesley post office, etc. Chesley post office, etc. Chourg immigration building. Cobourg immigration building. Bostonto post office, etc. Colnit post office, etc. Colnut post office, etc.

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303 31	252 03			009 50		159 50											101			09 696					-	391 50		:		75.80	20 00		27357							994 98			110 04
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198 59	482 86			155 96		633 71						457 26					450 38		4	307 70				20 00		720 74	:	:	1	C/ 0+/			510 21			445 80					19 50	520 50	
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					943	2	:	:						133	1,500										18(2,322	- 0	027	1,000		999	100	:		25	:					158	125	
82	98 9	52	49 :-		:	85		: 191	. 22	: : 28	33	. 63	: 2:	50) r			3		38	25	9		89	:	38	:	:	. 2	3	95	:	30						: .	38	:		:
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office st. offi	st office.	fice	fice	⊞ce,	Dist	examinir	post ome	ce, et	nost office	office	t offic	t offic	ЭШСе,	post omee, et	office.	# off	post o	office	office	ost of	office,	ost of	st offi	tom h	immigration	inland reven	military hos	Minna and 1	ordinance sto	M.C.	mini	G.T.R. star	post office,	st office	ost on	office office	Office	m ho	eratio	post office, etc	war tax office.		
s post	lle pos	ost of	ost of	post o	illiam		9 - 1-	one c		post,	sod ya	sod A	post	on pos	r nost	Sou no	shurv	T post	l post	ville p	post (line pe	ille po	n cus	im	inl	E S	MI	900	<u> </u>	ner exa	Ü	pc 1-1	and pos	wite p	r nost	l nost	Custo	immi	post	war 1	an pos	
Dundas post office	Eganville post office, c Elmira post office, etc.	Elora post office	Essex post office	Prons	Fort William Dist. En	3 3	14	Gant post office, etc Gananogue custom bor	,,	Glencoe post office, etc	Goderich post office, et	Grimsby post office, et	Guelph post omee, etc.	namilton post office, e	Hanover nost office of	Harriston post office c	Hawkesbury post office	Hespeler post office, et	Ingersoll post office, et	Kemptville post office.	Kenora post office, etc.	Kincardine post office.	Kingsville post office	Kingston custom house	"	3	; ;	"	"	"	Kitchener examining w	; ;		Larelleid post office	ansan	Lyndsay rost office of	Listowel post office et	London custom house	2,7	"	". "O":ian	Markham post office	
ПП	压压	Ξ	国区	F	F		ζ	יי כ)	9	G	50	55	4	Ξ	Œ	H	H	1	1	14	14	ĸ	ĸ							1		-	7,-	4)-	1)-	-	1,-1			-	12	š

8 GEORGE V, A. 1918

Public Bundring—Continued. Ontario—Continued. Matheson post office. Midhad post office, etc. Mithany post office, etc.	68 21 28 28 38 38 38 38 38 38 38 38 38 38 38 38 38	00 00 cts.	63 cts. 63 83 63 83 63 80 151 151	47.5 28.24 50.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	8 ets. 148 06 148 09 173 29 173 76	% C(8.	5 5 5 69	\$ cts. 222 99 222 90 000 1,373 56 180 79 8,061 38 1,175 03 1,175 03
	21. 22. 23. 23. 23. 24. 25. 26. 26. 26. 26. 26. 27. 27. 28. 28. 28. 28. 28. 28. 28. 28. 28. 28	300 00				23 45 24 00 96 00		222 200 1,373 120 120 130 1,173 1,173 1,086 1,086
	218 217 28 28 28 28 28 28 28 28 28 28 28 28 28	00 000				23 45		1, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
	131 00 131 00 132 38 135 41 135					24 00		3,061 1,175 1,086 7,335
	286 32 135 41					00 96		1,175 1,086 1,335
	135 41							1,086 7,335
						15 00		
	\$ 75 57 57 57 57 57 57 57 57 57 57 57 57 5		513 01 791 61	352 90 175 00	311 PA 21 18 21 13	73 41 11 23		1,333
Ningara Falls custom house (Bridge No. 2).			630 41	22 000	61 <u>9</u>	24 98		1,415
North Bay post office, etc.	336 30	00 21	762 65	94 619	287	85 88		9 9 9 9 9 9
Norwich post office, etc.			605 85	138 91	3	00 00 00 00 00 00 00 00 00 00 00 00 00		870
Orillia post office, etc.			198 56	62 669	282	2 9 81 8 -	15 15	-, 673 808
Oshawa post office, etc			545 65	924 S 926 31	181	2.5 2.5 2.5 2.5 2.5 2.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3		1,48
Palmerston post office, etc			11.	90 00 00				14,255
Paris post office	200		195 43	01 250	25 86	95 4		534
Parkini post office, etc. 36 00 36 00 72 52 52 52 52 52 52 52 52 52 52 52 52 52				£2 424 83	340	00 0+		1,575
9)	131 53		431 19	299 70	91.81	20 00		1,004
" new public building (Custom and								102
-		60	739 26	430 62	235 80	75 00		1,790
Weights and measures office.		on oc		29 667	6 <u>2</u> -			1,984
= = = = = = = = = = = = = = = = = = = =	8 8 8 8 8 8		398 4 500 33	298 75 1.790 87	20 821 21 01 01 22 01 01	83 83 	656 36	934 19, 225
				533 00	-	10.5		1,666

2, 206 76 914 64 328 48 1, 284 25 1, 424 35 3, 634 01						-		930 016 463			280 789	280	403 658	164		620	200 00 976 39 1,179 59
	459 75.							79 86		12.			240 93				
41 44 44 44 60 00 60 00 135 14 27 00		14 31 90 90 90 90					132 32	130 43 45 81		10 53					7 09		17 10
438 60 184 44 19 13 146 99 281 30 624 54	46 18 187 68 549 08						138 48	814 02 485 20		190 52	3, 932-18				155 89 136 93	156 20 246 24	43 79 61 47
404 45 45 11 00 163 75 292 00 347 66 400 47	256 80 324 43 1,002 25						212 90 199 75	607 34		492 12			_	_	-	531 96 620 36	1 33 395 39
425 90 420 55 81 97 738 44 548 65 472 90	359 76 523 03 1,842 80						436 78 404 73	923 35 5.799 15		4 25 1 056 93					751 82	$1,618 00 \\ 986 27$	22 82 630 39
100	0.00 0.00					650 00			1,058 95	1,000 000	301 94		2,550 00	2,959 24			00 006
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881 32			1,417 27 66 64				1,066 20		1,216 04		280 00 4,481 26	311,650 61	91 929 67		18 6	19,363 32	
Port Hope post office, etc. Port Perry post office. Prescot custom house. post office. Preston post office, etc. Renfrew post office, etc.	Ridgetown post office. Sandwich post office, etc. Sannia post office, etc.	Scalorth post office.	Smith's Falls post office, etc	St. Mary's post office, etcSt. Thomas post office.	Strethon post onice, etc	Struggen Jalls post office. Sudbury post office, etc.	Sydenham post office. Tilbury post office. Tillsonburg post office, etc.	Toronto customs building (new)	" engineer's office (D.P.W.).			addition still occupied b tenants postal station "A." new G.	" " " " A," old G.T.R. stn.		。	33	" "G," old " " " " " " " " " " " " " " " " " " "

Amounts expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1917—Continued.

		8 GEORGE V, A. 1918
Total.	\$ cts. 2, 863 15 8, 444 84 1, 340 88 1, 113 80 1, 113 90 4, 427 90 1, 173 07 1, 173 07 1, 173 07 1, 174 24 1, 265 35 3, 453 50 284 33 805, 998 89	1,749 45 9,803 69 1,803 69 1,684 68 1,684 68 1,727 13 1,533 16 1,333 16 6,53 60 6,53 60 6,53 60 1,53 00 1,53 0
Power.	\$ cts.	
Water.	\$ cts. 34 92 73 75 73 75 73 75 73 75 89 00 88 00 88 00 88 00 7,340 56	33 % 57 & 81 8 % %
Lighting.	\$ cts. 235 00 235 00 217 15 212 50 155 74 155 74 148 42 78 50 99 60 4 4 43 367 53 159 02	116 40 36 95 924 68 175 52 345 60 85 53 356 20
Heating.	\$ cds. 816 29 816 29 813 74 8273 66 877 74 479 94 852 41 248 96 417 90 804 30	24 84 508 37 1, 056 29 296 69 579 08 78 06 78 26 780 26 197 70
Salaries of and Supplies for Caretakers.	\$ cts. \$, 904 32 8, 444 34 507 31 3855 28 3855 28 3855 28 434 24 472 76 472 76 1401 81 136, 742 10	976 80 490 53 524 75 525 33 816 47
Rents.	\$ cts.	300 00 163 00 163 00
Repairs and Furniture,	\$ c(s. 663 62 62 155 84 209 55 211 90 142 69 155 87 470 96 115 80 7 470 96 115 80 373 38 345 58 58 345 58 58 58 58 58 58 58 58 58 58 58 58 58	592 35 55 59 59 59 59 59 59 59 59 59 59 59 59 5
Construction and Improvements.	\$ cts. 2,949 46 2,949 46 369 80 2,064 41 503,680 60	9, 178 32
Name of Work.	Public Bundings—Continued. Ontario—Concluded. Toronto post office gurage, Richmond st. "generally. Trenton post office, etc. Walkerlon post office, etc. Walkerlon post office, etc. Walkerlon post office, etc. Walkerlon post office, etc. Whithy post office, etc. Whithy post office, etc. Whithy post office, etc. Whithy post office, etc. Windsor dist. engineer's office. "post office. "post office. "post office. Wingham post office. Wingham post office. Woodstoek post office. Woodstoek post office. Totals, Ontario, excluding Ottawa	Manitoba. Brandon examining warehouse. " experimental farm. " immigration building. " post office, etc. Damphin post office, etc. Delegance office, etc. Le Pas Dom. land office. " post office. Melita post office. Melita post office.

SESSIONAL PAPER No. 19					
1,685 44 1,410 722 1,410 722 1,405 786 1,965 378 1,284 700 1,284 51 1,80 00 1,284 51 1,80 00 1,284 51 1,80 00 1,284 51 1,80 00 1,284 51 1,80 00 1,28 50 1,28 5	273		2, 434 90 621 22 5, 750 95 41 44	142,931 06	58 00 3,290 14 90 00 25 45 1,009 76 10 50 627 60
		26 21 158 97 115 91 115 91 229 06 20 91 2 58		553 64	
32 76 151 40 25 75 37 50 37 50 25 31 150 35 18 37		153 00 299 04 1,222 61 840 42 90 12		3,237 85	36 93
211 17 82 50 162 85 12 00 605 29 80 75 143 29 46 70	27 49	82 97 719 34 837 22 5 88 793 31 3, 192 87 275 36 77 00 71 00	4 97 35 95	9,029 21	8 00 511 59 161 42 37 25
503 79 460 13 615 25 587 90 478 44 478 44 105 97 105 97 60 35 649 65		2,363 01 4,090 65 42 06 5,945 78 8,130 83 8,46 24 846 24 846 24 85 52 85 52		30,232 49	50 00 822 67 197 98 9 50 273 75
700 80 741 50 461 20 632 96 647 45 573 65 639 65 640 02		7,676 00 6,772 45 1,925 00 13,221 92 2,389 00 276 00 314 35	5,715 00	47,047 31	582 65 531 97 155 00
112 00 330 00 180 00 180 00 230 00 250 00	2,239 33	845 652 37 37 740 600	2,416 00 506 25 40 00	23, 135 68	90 00 1 1 00
269 68 93 83 12 16 102 73 32 75 77 13 55 89 55 89 454 70	2 00		18 90 110 00 114	8,380 43	1,336 30 25 45 100 44 161 60
468 26.		1,369 41 2,796 35 436 436 1,716 26 4,813 26		21,314 45	
" post office, etc. Neepawa post office, etc. Portage la Prairie armoury, etc. « post office. Reston post office. Roblin forestry office. Shoal Lake post office. Souris post office, etc. St. Boniface post office. St. James drill hall St. James drill hall Stonwall post office. Transcona post office. "Yirden immigration office. Virden immigration building. "I most office, etc.	Winnipeg Boyd building (Archives, Railway Commission, etc.)	Chamber of Commerce building (Int. Dept., etc.)	" war ton office. " war tax office (Union Bank building) " generally. Minor offices throughout the province	Totals, Manitoba	Saskatchewan. Battleford immigration building. Big River forestry office. Biggar immigration building. Estevan post office, etc. Gravelbourg immigration building.

8 GEORGE V, A. 1918

Anounts expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1917—Continued.

Water, Power.
Lighting.
. Heating.
Supplies for Carctakers.
Rents.
Parmiture,
Improve- ments.
Name of Work. Period Burdings—Confined.

SESSIONAL	PAPER	No.	19
SESSIVIVAL		110.	10

4,254 60 11 45 17293 45 17293 45 2,552 69 1,256 68 1,256 68 1,210 80 1,689 57 2,103 83 2,520 30 2,520 30 3 107 48 3 107 48 4 107	125,807 25	117 66 6, 826 92 993 41 13, 497 90 450 00 690 08 7, 736 79 7, 546 78 7, 546 78 7, 546 78 7, 546 78 7, 546 78 1, 327 70 256 38 744 20 1, 270 24 1, 270 24 2, 60 3, 781 86 6, 80 8, 80 1,
	736 37	
7 94 140 03 158 72 59 90	2,014 89	90 64 52 65 64 64 64 64 64 64 64 64 64 64 64 64 64
27 85 12 41 46 69 524 69 74 75 74 75 79 40 59 40 359 40 359 40 1 50 691 47	8,205 46	238 97 238 97 1 08 48 04 266 80 15 36 3 20 1, 842 75 10 24
794 19 249 55 11,505 33 313 80 30 00 12 00 140 10 750 13 159 15 921 85	20,492 51	109 66 568 50 1,603 71 103 57 605 88 46 60
1,705 43 1,705 43 536 75	15,761 14	386 70 736 35 3,599 67 34 95
4,200 00 1,140 67 2,400 00 720 00 1,200 00 1,260 00 1 00 1 00	17,967 59	1 00 35 00 450 00 7, 668 00 360 00 7, 500 00 7, 500 00 1, 260 00 1, 260 00 1, 260 00 3, 725 40 3, 061 82
26 75 140 37 73 05 152 69 1,187 94 10 15 3 00 3 5 00 3 5 5 8 197 06 8 7 8 197 06 8 3 75	7,562 74	7 00 113 40 123 40 298 35 89 00 20 75 469 70 469 70 469 50 469 50 162 50 162 50 163 56 165 56 165 56
11 45 7 7 7 4 4,387 42 978 13 4,299 91	53,066 55	5, 591 72 8.86 072 1, 530 46 7, 346 78 3, 864 30 2, 683 70
" " " " " " " " " " " " " " " " " " "	Totals, Saskatchewan	Athabaska immigration building mail room (Revillon Freres). Bassano post office, etc. Calgary Asst. Rec. Gent's office. Barns building (Grisation). " Gadogan building (Grol. Survey). " Cadogan building (Rolland Rev.)." " Cadogan building (P. D. and I.R.). " Castello building (Weights and measures). " drill hall. " examining waredouse. " forestry and irrigation branch bilds. " forestry and irrigation branch bilds. " hersald Building (Railway Com.). " Merchard's Bank building (Recruiting office). " Recels office (new). " Herald Building (Recruiting office). " Arehald Suilding (Railway Com.). " Thomas building (Int. D.). Castor immigration building. " Castor immigration building.

AMOUNTS expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1917—Continued.

Total.	& cts.	8 GEORGE V, A. 191 17, 381 18, 382 18, 383 18, 384 18, 384 19, 384 19, 384 19, 384 19, 384 19, 384 19, 384 19, 384 19, 384 19, 384 10, 384 10, 384 11, 384 11, 384 12, 384 13, 384 14, 384 15, 384 16, 384 17, 384 18, 384 1
Power.	& cts.	322 65
Water.	\$ cts.	265 59 195 10 185 10 18 46 18 46 19 20 20 60 20 30 20 51 124 30 39 00 1,439 82
Lighting.	s cts.	118 46 252 56 6 00 1,501 82 227 72 72 14 44 40 59 21 59 21 850 91 850 91 850 91 7,011 12
Heating.	s ets.	341 59 341 59 1,064 87 1,064 87
Salaries of and Supplies for Caretakers.	s cts.	312 85 6,575 06 932 35 9 65 6 65 1,686 30 1,625 97 1 40 72 1 40 72 1 40 72
Rents.	ets.	6,600 00 175 00 175 00 178
Repairs and Furniture.	æ 23.	842 55 216 11 184 35 670 00 146 50 600 00 145 75 5 00 28 00 64 48 64 48 106 39 5 00 136 64 35 93 6 74 6 74 8 7,577 87
Construction and Improve-	es ets.	1, 562 09 1, 562 09 1, 158 77 695 50 2, 447 43
Name of Work.	Public Buldings—Continued. Alberta—Concluded.	Edmonton innuigration building " had office. " new drill hall. " weights and measures office. Edmonton South (Stratheona) immigration building. " post office, etc. Edson inmigration building. Edson inmigration building. Edstwistle immigration building. Edson immigration building. Entwistle immigration building. Entwistle immigration building. Independent office. Independent of

5		8	13	51			1, 104 77		e S			1,775 03										69.1	9.619.30	6			137						8,750 38						9 700 61				1,450 00		008 10 12,272 94
_																										356 00																			627 00
						15 00	90 NO			88		99 25			82 00				24 00		36 00		72 00			73 10			14 40			12 60	30 60				101	101 07							82 05
					26 26 37 37 37 37 37 37 37 37 37 37 37 37 37					246 14			229 04		295 77				114 29		722 81		809 32			757 72							931 50				400 17	400 17		145 94				10 11	285 20
	717 58.		42 00		05 141					102 00					569 03				116 00		416 50		505 16			889 13						214 58					30 GO1	407 704	150 00	191 00					1,323 94
-				- 1	02 091		60 966			667 32			914 03						610 55		1,537 14		714 02			2,775 45	677		703 35				132 73				6.10 15	04.0 10		959 70					8,503 19
		80 00	300 00		00.06	no ne											2,949 85						108 00			181 00					1,750 00	2 00	6,890 00		1 900 000	1,200 00		111 00	111 00		100 00		1,407 00	690 00	5 35
-			252 13		e) /c	47.80						121 60					cn cn/				460 93		410 80			69 986			12 10				765 55					#00 K		404 06	, ,		43 00	16 00	1,441 21
	3,487 41			11, 407 31	60 55	64.00		19 20								508 72				4 00				20 40		4,400 60				203 72				19.20			or iti		2.551.76	1 -					
British Columbia.	Agassiz experimental farm	Alberni (old) post office	Asheroit mail room (Inland Express 18)	A the next off so sta	Chase post office	Chilliwack post office, etc.	Comox post office, etc.	Courtenay post office	Cranbrook post office, etc	Cumberland post office, etc	Darcy Island quarantine station	Duncan post office, etc	Fernie post othee, etg	Grand Forks post office, etc.	Greenwood post office, etc	Invernere experimental tarin.	Maintoops Acadia block (Int. Dept)	Tell post office	Ladysmith post office	Mission City post office	Nananno post office, etc	Nelson engineer's office (D.P.W.)	post office, etc	New Huzelton post office	New Westminster Indian and fisheries bldg.	post office, etc	North Vancouver post office	Pacific Highway immigration office	Fort Alberni post office, etc	Towell River post office	Trince Kupert examining warehouse	D. D	Frince Kupert post office, etc. (Federal block)	Rovolstoke Conscient Bent of Commence	treversione Canadian Dank Of Commerce	" nost office	Rossland post office, etc.	Salmon Arm post office.	Sidney experimental farm	Union Bay post office	uver Chinese detention building.	" dredging office D.P.W. (Birks	building) " Eroning building (Man one) Est.	Dent.)	" examining warehouse

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Continued.	Total.	es ets.	110 00	17,623 4,542 25,182 3,816 3,360	10, 492 00 5, 545 23 90 00 227 69 1, 950 35	30,651 300 1,597 6,903	2, 585 66 1, 264 17 28, 734 10 28, 734 10 20, 921 28 862 87 4, 996 85	261,645
aurtment of Public Works of Canada during the fiscal year ended March 31, 1917—Continued.	Power.	s ets.		297 00 453 55		74 54	750 75	2,798 42
	Water.	s ets.		140 55 147 00 77 45	81 05 36 60 48 75	21 43	86 43 19 08 111 51 151 23	1,850 89
year ended	Lighting.	s ets.		977 10 3,453 03 137 07	318 29 177 21 1 00 338 38	28 11 185 74 87 09		15, 522 96
by the Department of Public Works of Canada during the fiscal year ended March 31, 1917—Continued.	Heating.	ets.	:	1,176 76 1,992 77 662 15	478 11 567 09 528 20	105 10 271 83 80 71	369 46 116 01 2,013 54 95 23 3,636 04	21,154 22
	Salaries of and Supplies for Caretakers.	\$ ets.		793 02 13, 761 72 1,814 15	1,979 00 1,655 91	873 35	952 65 11,717 24 296 45	60,051 60
	Rents.	ee 2.	110 00	60 50	7,200 00	300 00	27 50 136 00	32,932 68
ublic Wor	Repairs and Furniture.	& cts.	:	1, 157 91 532 46 1, 126 11 280 95	250 55 231 77 84 69 97 20	432 25 245 48 107 06	398 05 182 80 180 00	13,980 62
rtment of P	Construction and Improvements.	es cts.	- 1	17, 623 48	2,876 65	30,011 10	1,540 22 28 783 50 4,387 69 280 81	113, 354 52
Amounts expended by the Depart	Name of Work.	Public Buildings—Concluded.	British Columbia—Concluded. Vancouver fisheries inspector's office, 519 Pender.	in migration detention bldg. (new) in new post office, etc. in old post office (Assay office) in weard station 'A' (C P P)	" " " " " " " " " " " " " " " " " " "	Victoria astronomical observatory (LAU16 Samén mountain) Belmont building (D.P.W., P.O.D) eustoin house (old) (Marine office). cannining warehouse (Ames-Holden B.).	" fumigating plant (C.P.R. wharf) "immigration building." "neteorological observatory." "new drill hall." "new post office, etc." "old post office, etc." "old post office, etc."	Minor offices throughout the province Totals, British Columbia

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Name of Work.	Construction and Improvements	Repairs.	Staff and Maintenance.	Total.
Public Buiddings.	\$ cts.	es cts.	s cts.	\$ cts.
Puton Territory. Heating, lighting, water, etc., for all public buildings in Yukon Territory			49, 467 62	49,467 62
Total, Yukon Territory			49, 467 62	49,467 62
Generally.				
Advertising coal tenders—Dominion buildings. Post office fittings and supplies—stock taken at Toronto for distribution throughout the provinces. Flags for Dominion public buildings. Printing, stationery, instruments, travelling, etc. Salaries of resident elerks of works, etc.	6,101 38		2, S81 44 5, 097 34 20, 368 11 50, 964 61	2,881 44 6,101 38 5,097 34 20,368 11 50,964 61
Totals—Generally		6, 101 38	79,311 50	85,412 88

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Amounts expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1917—Continued.

Harbours and Rivers.	Dredg	ing.	Const tion a Impro men	and ove-		Repa	irs.		aff and tenance	Tot	al.
Nova Scotia.	\$	cts.	\$	ets	s.	\$	cts.		\$ cts.	\$	cts.
Advocate wharf, improvements			1	1 09							1 09
Amherst harbour	6,442	78								6,44	
Anderson's Cove, removal of gravel Arichat wharf		• • • •		9 65		16	10				9 65
Arienat wharf Arienia wharf extension			19	3 51		10	18				6 18 3 54
Arisaig wharf extension. Baker's Point (East Jeddore) wharf Barachois—Training pier Barrington Head, wharf.			12	0 04		64	67				4 67
Barachois—Training pier			1.	649	9 7 .					1,64	
Barrington Head, wharf						824	10			82	4 10
Barrington Head, whari. Bass River wharf. Battery Point North, breakwater. Bear Cove (Halifax Co.), boat skid Belliveau's Cove, North breakwater. Black Point, breakwater. Black Rock, Ferry landing. Blanche breakwater. Boularderie Centre wharf. Bridgenort coe. Liggen Beach	[798	87			79	8 87
Battery Point North, breakwater						399					9 88
Bear Cove (Halifax Co.), boat skid			8	6 40							6 40
Blook Point brookwater				· · · •	-		00				9 00
Black Rock Ferry landing			93	a an		240	00				9 90
Blanche breakwater			20	0 00	1	203	68				3 68
Boularderie Centre wharf							67				9 67
Broad Cove Marsh, wharf						1,015	25			1,01	5 25
Burlington wharf						73	31				3 31
Caldwell's Cove, breakwater			49	$\frac{9}{7}$ $\frac{96}{20}$							9 96
Caribou Island raising conserver etc.			9 20	$\frac{7}{7}, \frac{32}{22}$						2,39	$\frac{7}{7}$ $\frac{32}{22}$
Caldwell's Cove, breakwater Canso wharf extension Caribou Island, raising causeway, etc Catalone Gut (Cape Breton), protection			2,59	(00	1					2,09	1 00
work			33	9 32						339	9 32
Centreville (Digby Co.), old breakwater						499	94				9 94
entreville (Shelburne), wharf						249	95			24	9 95
Thebogue. beach protection						149	66				9 66
hegoggin, breakwater					-	99	57				9 57
lements Port	1,600	00		· · · ·		000				1,60	
omeau's Cove breakwater			1 40	0.01	-	203	30		 	1,49	3 30
Cow Bay (Port Morien) breakwater			1,49	0 94	1	2,199	85			2.19	
Devil's Island breakwater						518					8 48
Digby \$15, 121 32						010	10			0-	
Catalone Gut (Cape Breton), protection work. Centreville (Digby Co.), old breakwater Centreville (Shelburne), wharf. Chebogue. beach protection. Chegoggin, breakwater. Clements Port. Comeau's Cove breakwater. Cottage Cove, breakwater. Cow Bay (Port Morien), breakwater. Devil's Island breakwater. Devil's Island breakwater. Less, work done for private firms. 750 00	ļ										
vate firms											
D: 1	14,371	32								14,37	
Digby, pier renewals	7 044				-	783	52				3 52
Digby (Racquet) East Chezzetcook (Red Island), break-	7,011	90								7,01	1 90
water						1 201	06			1,20	1 06
East Jordan, wharf						4	50				4 50
Eastern Points (Co. Lunenburg)	324	68								324	4 68
East River (Pictou Co.), impts	6,361	40	150,29	1 86						150,65	3 26
Latonville breakwater						799	95				9 95
water. East Jordan, wharf. Eastern Points (Co. Lunenburg). East River (Pictou Co.), impts. Eatonville breakwater. Ecum Secum (Halifax Co.) wharf. Eel Brook, channel piers. Englishtown (Victoria Co.), wharf. Einlay Point, breakwater			14	9 52							9 52
Englishtery (Victoria Co.) where			1,44	$\frac{2}{2}$ $\frac{16}{2}$	1					1,44	$\begin{array}{ccc} 2 & 10 \\ 2 & 00 \end{array}$
Sinlay Point breekwater				2 00		500	60				$\frac{2}{9} 69$
ox Island breakwater approach						1 011	12			1,01	
French River extension of breakwater		- 1								-,	
pier. Fruids Point wharf Gabarous Hr., beach protection. breakwater.			5	0 15							0 15
Fruids Point wharf						3	50		,		3 50
Jabarous Hr., beach protection			25	9 87							9 87
breakwater					-	121	21			121	1 21 1 12
Georgeville wharf					1	350	00				$\frac{1}{9} \frac{12}{00}$
Gold River (Lunenburg Co.)	897	94				909	00			897	794
Glace Bay, protection works. Gold River (Lunenburg Co.) Grand Etang wharf.	001	U-I				25	16			2.	5 16
Hall's Harbour, breakwater						1.323	05	l	!	1,323	3 05
Iampton, breakwater extension			93-	1 67		1,323 1,248	67			2,183	334
Hall's Harbour, breakwater Hampton, breakwater extension Herring Cove, wharf						-952	23				2 23
nverness, harbour imptsrish Cove, wharf			35	1 00							1 00
rish Cova wharf		1	7.5	7 70	1 .			Ι		757	7.70

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Harbours and Rivers.	Dredging.	Construc- tion and Improve- ments.	Repairs.	Staff and Maintenance	Total.
Nova Scotia—Continued.	\$ ets.	\$ ets.	\$ cts.	\$ cts.	\$ cts.
Jamesville, breakwater Jeddore, Oyster Pond, wharf Johnson's Harbour, wharf. Kelly's Cove, breakwater "old wharf. Kraut Point, wharf. L'Ardoise, beach protection "breakwater Lingan Beach (Bridgeport, Cape Breton)		447 13 200 08	73 89 290 00 631 24 294 93 499 52		1,029 68 73 89 200 00 631 24 294 93 447 13 200 08 499 52
protection works. Little Anse (Richmond), breakwater. Little Bass river improvements. Little Bras d'Or, wharf. Little Harbour (Pictou Co.), wharf. (Shelburne), b'kwater. Liverpool Livingstone's Cove, wharf. Long Cove (Queen's Co.), breakwater.	24,649 30	781 03 10 00 213 40	650 75 700 10 217 30 299 40		781 03 488 75 10 00 650 75 213 40 700 10 24,649 30 217 30 299 40
boulders. Lunenburg, harbour back harbour. Mabou Harbour, jetties. Main-a-Dieu, breakwater Malagawatch. Malignant Cove, breakwater. Marbe Mountain, wharf. Margaree Harbour, "" breakwater. "" wharf. "" Island, breakwater. Margaretville, breakwater. Margaretville, breakwater. MeKay's Point (Judique), breakwater. Meat Cove, boat harbour.	51,764 03 1,386 28 621 59 200 00	120 00	350 75 246 54 451 06		120 00 51,764 03 1,386 28 350 75 246 54 621 59 121 40 451 06 200 00
Meteghan, breakwater Meteghan River, breakwater Midde River (Lower), closing channel ("(Lower), shear dams		999 99	199 97		665 63 486 21 258 13 699 68 192 75 656 36 999 99 199 97 194 04 500 50
" (Upper), shear dams Mill Cove, breakwater extension Morden, breakwater Mosher's Bay, breakwater Mulgrave, purchase of site for wharf Murphy's Pond (Port Hood), Boat har-		471 09 3,697 61	775 41		$\begin{array}{r} 499 \ 90 \\ 471 \ 09 \\ 775 \ 41 \\ 3,697 \ 61 \\ 200 \ 00 \\ \end{array}$
bour Necum Teuch, wharf. Neil's Harbour, breakwater. New Campbellton, wharf. Newelton, wharf. North River (St. Ann's), wharf. North Sydney, ballast wharf.			$\begin{array}{c} 1,314 & 71 \\ 599 & 12 \\ 200 & 62 \\ 186 & 95 \end{array}$		$\begin{array}{c} 16 & 25 \\ 1,314 & 71 \\ 599 & 12 \\ 200 & 62 \\ 186 & 95 \\ 299 & 57 \\ 27 & 50 \\ \end{array}$
North West Cove (See Tancook Isl'd.). Nyanza, wharf. Oakland (Lunenburg Co.). Parker's Cove, breakwater. Path End (Victoria Co.), boat landing. Phinney's Cove, breakwater. Pictou Harbour, channel. "Island, wharf. Pleasant Bay, wharf. Port Clyde, wharf.	2,688 39 990 73 35,323 52	54 30	99 91 1,099 99 200 13 75 95 700 00 158 28		99 91 2,688 39 2,090 72 200 13 75 95 35,323 52 700 00 158 28 54 30

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Amounts expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1917—Continued.

Harbours and Rivers.	Dredging.	Construc- tion and Improve- ments.	Repairs.	Staff and Maintenance	Total.
Nova Scotia—Continued.	\$ cts.	\$ cts.	\$ cts.	\$ ets.	\$ ets.
Porter's Lake, boat channel to Three Fathom harbour		560 35			560 35
Port George (Annapolis Co.), break- waters Port Hastings, wharf			1,358 40		1,358 40
Port Hastings, wharf		450 02	35 41		$\begin{array}{r} 35 & 41 \\ 450 & 02 \end{array}$
Port Hood, wharf Port Lorne, breakwater			630 74		630 74
Port Maitland, breakwater		1,524 24	2,944 00		2,944 00 1,524 24
Port Wade, pier Portuguese Cove, breakwater			1,160 37		1, 160 37
Poulamond, approach to wharf			509 83 390 20		509 83 390 20
River John wharf			1 990 00		990 00
Rose Bay (Lunenburg Co.), breakwater. Salmon River (Digby Co.), breakwater.		50 41	500 60		50 41 500 60
Salmon River (Digby Co.), breakwater. Sandy Cove, breakwater. Saulnierville, breakwater. Seaforth, breakwater. Seaforth, breakwater. Seaside (Inverness), wharf. Selma (Hants Co.), wharf. Shad Bay, wharf extension. Short Beach, breakwater. Skinner's Cove, channel piers. South Cove (Victoria), wharf approach. South Gut, St. Ann's (Victoria Co.),			523 34		523 34
Saulnierville, breakwater		1,442 03			1,442 03 1,684 90
Seal Island (Shelburne), breakwater			565 01		565 01
Seaside (Inverness), wharf			203 61 897 68		203 61 897 68
Shad Bay, wharf extension		83 70			83 70
Short Beach, breakwater			2.929 41		6360 $2,92941$
South Cove (Victoria), wharf approach			50 55		50 55
South Gut, St. Ann's (Victoria Co.),			302 87		302 87
wharfSouth Side (Donald's Head), breakwater			778 14		778 14
South Wallace, wharf		971 28	1,795 43		$\begin{array}{c} 1,795 \ 43 \\ 271 \ 38 \end{array}$
Spry Bay (Josie's), wharf		2.11 00	190 42		190 42
South Side (Donald's Head), breakwater South Wallace, wharf. Spry Bay, wharf. Spry Bay (Josie's), wharf. Stoney Island, wharf. St. Joseph (Inverness Co.), breakwater. St. Peter's Narrows Summerside, wharf. Swim's Point, wharf. Sydney Harbour, South Bar (cribwork). Tancook Island, breakwater at North-			350 63		350 63 150 00
St. Peter's Narrows	101 50		130 00		101 50
Summerside, wharf	• • • • • • • • • • • •	225 14	84.95		$\begin{array}{c} 225 & 14 \\ 84 & 25 \end{array}$
Sydney Harbour, South Bar (cribwork).	• • • • • • • • • • • • • •		762 64		762 64
Tancook Island, breakwater at Northwest Cove		4,918 87			4.918 87
Terence Bay, wharf		450 48			450 48
Three Fathom Harbour, beach protection works, etc			600 04		600 04
The Wharves (Lunenburg Co.), break-					
water Trout Cove (see Centreville).		1			76 40
Truner's Island, wharf. Upper Washabuck, wharf. Upper Woods Hr. wharf, causeway. Washabuck Centre, wharf. Wedge Point (Yarmouth Co.), break-			599 84		599 84
Upper Washabuck, wharf	• • • • • • • • • • • •	2 510 20	247 61		$247 61 \\ 2,540 20$
Washabuck Centre, wharf	•••••	2,340 20	59 96		59 96
Wedge Point (Yarmouth Co.), break-			808 72	 	808 72
West Arichat, breakwater	• • • • • • • • • • • • • • • • • • • •	355 35	805 72		355 35
West Arichat, breakwater West Arichat, breakwater West Chezzeteook, breakwater West Dublin Western Head (Queens), breakwater	651.49		599 96	1 1	599 96 654 43
Western Head (Queens), breakwater	004 43		309 45		309 45
					595 62 294 51
White Point, breakwater. Whitewaters, wharf. Whycocomagh, wharf.		∠94 51	495 27		495 27
Whycocomagh, wharf		1,471 64			$1,471 64 \\ 178 43$
Windsor harbour, boat landing	· • • • • • • • • • • • • • • • • • • •	105 14			105 14

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Harbours and Rivers.	Dredging.	Construc- tion and Improve- ments.	Repairs.	Staff and Maintenance	Total.
	\$ cts.	\$ cts.	\$ cts.	\$ ets.	\$ cts.
Nova Scotia—Concluded.					
Yarmouth harbour	24,425 81 3,691 98	72 00	4,408 18	3,810 66	28,833 99 72 00 7,502 64
Totals, Nova Scotia	183,507 58	188,875 34	57,040 62	3,810 66	433,234 20
Bay Fortune, breakwater extension. Belfast, wharf approach. Brae, breakwater. Brudenell, wharf reconstruction. Chapel pier, approach. Charlottetown, Asylum wharf. "Connelly's wharf. "harbour warehouse. "railway wharf. Cove Head, Shear dam. Cranberry, pier. Georgetown. Graham's Pond, Murray Hr. North, breakwaters. Grand River North, pier. Hickey's wharf. Hurd's Point, wharf. Lennox Island, wharf. Lennox Island, wharf. Malpeque. McAulay's, shore. McConnel's, wharf. Murray Harbour, south wharf (slip). Naufrage Hr., breakwaters. New London, beach protection. North Lake, boat harbour. Panmure Island, wharf. Point Prim Island, wharf. Poolar Point (Prince Co.). Port Hill, Cooper's Shore, wharf. Rustico, breakwater. Souris Harbour, breakwater extension. St. Mary's Bay, wharf. St. Peter's Bay (Head), wharf. Sturgeon, wharf. Sturmerside, breakwater. Tignish, breakwater. Generally.	5, 177 20 2, 869 65 3, 609 24 1,409 28 2,375 39 9,030 66 2,672 42 1,489 06 1,759 96 1,759 96 1,775 04 10 50 1,718 62 2,020 85 2,233 58	18 18 10 10	943 07 302 25 1,080 76 49 79 748 96 746 53 991 10 2,297 30 669 00 17 25 75 12 271 65 198 25 948 57 24 65 74 90 1,003 90		35 11 943 07 302 25 175 64 1,080 76 5,177 20 2,869 65 49 79 3,609 24 268 88 748 96 746 53 1,409 28 991 10 4,672 69 669 00 17 25 75 12 271 65 9,030 66 2,672 42 1,489 06 18 18 198 25 948 57 10 10 6,877 99 24 65 1,559 96 74 90 2,778 94 10 50 1,718 62 12 00 2,020 85 18 18 60 2,233 58 41 62 20 00 3,434 15
Totals, Prince Edward Island	46,672 23	539 91	10,503 27	1,591 36	59,306 77
	l 	·	l		

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Amounts expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1917—Continued.

Harbours and Rivers.	Dredging.	Construe- tion and Improve- ments.	Repairs.	Staff and Maintenance	Total.
	\$ ets.	\$ ets.	\$ cts.	\$ cts.	\$ ets.
New Brunswick.					
Albert, berth for vessels Anderson's Hollow, wharf. Baie du Vin, wharf. Barker's wharf (Riv. St. John). Bass River, wharf. Bathurst, harbour. Less, work done for private firms 1,132.00			12 50 113 04		203 17 12 50 113 04 40 94 106 02
Bayswater ferry landing (Riv. St.John). Black's Harbour (Charlotte Co.), wharf. Black River (Kent Co.) Brundage Point Buctouche Beach, breakwater Buctouche \$22,818.81	2,561 02 760 84	1,757 55	482 53 67 25		105,714 90 1,757 55 482 53 2,561 02 760 84 67 25
Less, work done for private firms	20,616 14 2,285 02 1,745 80 100 00	2,851 36 20 00 264 07 180 84 1,097 93	2,036 48 10 50 229 50 6 00 297 98 5 00		20,616 14 46 28 2,036 48 10 50 299 50 2,285 02 1,745 80 20 00 100 00 264 07 297 98 5 00 180 84 495 09 1,808 05 2,794 79 75 00 35 44 95 55
Kenebecasis Island, ferry landing (Riv. St. John) Lameque, wharf. Leonardville, wharf. Leonardville, wharf. Long Point (King's Co.), wharf. McGowan's wharf (Riv. St. John). Main River (Kent Co.). Martin's Head, breastworks. Maugerville, wharf (Riv. St. John). Mill's Point, wharf. Neguac, wharf. Nelson, Maloney's wharf. North Head, breakwater wharf. Oak Point, wharf. Palmer's wharf. Petit Rocher, breakwater, etc. Point Sapin. Portage River, channel impts.	210 72 4,971 02 514 85 815 96	1,815 55	301 75 98 16 99 78 54 61 275 28 373 32 9 50		24 75 1, 815 55 301 75 98 16 99 78 54 61 275 28 210 72 1, 981 30 373 32 9 9 50 1, 714 95 4, 971 02 1, 477 385 50 50 514 85 219 55 815 96 217 45
Quaco (St. Martin's), Eastern break- water Quaeo (St. Martin's), Exchequer Cour award re site for wharf Renforth wharf (Riv. St. John)	t	15 65 3,796 14 70 00	198 93		214 58 3,796 14 70 00

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Harbours and Rivers.	Dredging.	Construc- tion and Improve- ments.	Repairs.	Staff and Maintenance	Totals.
New Brunswick—Concluded.	\$ ets.	\$ cts.	\$ cts.	\$ cts.	\$ ets.
Richardson, wharf]				2,228 90
waters. Richibucto Cape, breakwater. River Kouchibouguac. River St. Charles. River St. Croix. River St. John, removal of snags. River St. Louis. St. Andrews wharf. St. John Harbour Improvements:—	533 67 889 68 20,982 25 434 84	1,998 36	305 18		772 89 1,998 36 533 67 889 68 20,982 25 1,973 00 434 84 305 18
Channel		599,692 43			9,142 69 749,692 43 730 00
deep-water wharf. West, retaining wall and reclamation Piers, sheds, etc Deepening slips and berths St. Nicholas River (South Branch), re	23,500 00	156,860 05	4,002 72		1,240 08 78,661 36 160,862 77 23,500 00
site Sackville, wharf. Scotchtown, wharf. Shediac Bay. Shippegan Gully, breakwater Stonehaven, breakwater Tabucintac, beach and blacklands			67.01		63 50 402 10 67 91 628 37 3,945 64 677 82 799 95
Thomas Creek, breakwater (St. John Co.). Upper Jemseg (Riv. St. John) Welshpool (Campobello), wharf Wilson's Beach (Campobello), wharf Generally			14 13 341 92		91 06 14 13 10 91 341 92 7,759 37
Totals, New Brunswick	354,473 21	860,441 06	16,921 32	4,073 79	1,235,909 38
Quebec.					
Amherst Wharf, Magdalen Islands "Point Shea, Madgalen Islands,			995 61		1,569 09
landing pier. Angers, wharf. Anse à Beaufils, breakwater. Anse à Fougère, removing boulders. Anse à la Grosse Roche, wharf. Anse à L'Eau (Tadousac), wharf. Anse aux Gascons, wharf. Anse aux Griffons, removal of boulders. Anse St. Jean, wharf extension. Ayer's Cliff (Stanstead Co.), wharf.		225 25 2,979 38	28 90 1,631 43 450 07		59 19 1,402 91 50 00 28 90 1,631 43 450 07 225 25 2,979 38 11 80
Aylmer (Lake Deschenes), wharf	922 19	6,444 44 1,503 00 1,004 95	125 58 1,346 58 664 47 985 13 34 50 25 00		125 58 922 19 6,444 44 1,346 58 1,709 18 664 47 1,004 95 985 13 34 50 25 00
Bryant's Landing, wharf. Buckingham (Labelle), landing float Cacouna, wharf. Cannes de Roches, wharf.			47 40	5 00	47 40 5 00 155 70

8 GEORGE V, A. 1918

Amounts expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1917—Continued.

Harbours and Rivers. Dredging. Construction and Improvements. Repairs. Staff and Maintenance Total.						
Cap & l'Aigle, wharf (shed)	Harbours and Rivers.	Dredging.	tion and Improve-	Repairs.		Total.
Cap Chat, pier. 2,990 36 2,990 36 Cap de la Madeleine, wharf 2,732 75 2,732 75 2,732 75 2,732 75 2,732 75 2,732 75 2,732 75 2,732 75 2,732 75 2,732 75 2,732 75 2,732 75 2,732 75 2,232 11 322 21 <td< td=""><td>Quebec-Continued.</td><td>\$ ets.</td><td>\$ ets.</td><td>\$ cts.</td><td>\$ ets.</td><td>\$ ets.</td></td<>	Quebec-Continued.	\$ ets.	\$ ets.	\$ cts.	\$ ets.	\$ ets.
Cap St. Ignace, wharf. 322 21 322 21 322 21 1 230 41 1 250 41 1 250 41 1 250 41 1 250 41 1 250 41 1 250 41 1 250 41 1 250 41 1 250 41 1 250 41 1 250 41 1 250 41 1 250 41 1 250 41 1 250 41 1 250 41 1 250 41 1 250 41 2 150 48 25 00 25 00 25 00 25 00 26 00 25 00 26 00 26 00 26 00 25 00 26 00 26 00 26 00 26 00 26 00 26 00 26 00 26 00 26 00 26 00 26 00 27 77 16 27 77 16 27 78 16 27 77 16 27 77 16 27 78 16 27 77 16 27 78 16 27 78 16 27 77 16 27 78 16 28 77 16 28 77 16 28 77 16 28 77 16 28 77 16 28 77 16 28 77 16 28 77 16 28 77 16 28 77 16 28 78 16 28 78 16 28 78 16 28 78 16 28 78 16 28 78 16 28 78 16 28 78 16 28 78 16 28 78 16 28 78 16 28 78 16 28 78 16 28 78 16 <t< td=""><td>Cap à l'Aigle, wharf (shed)</td><td></td><td></td><td>5 00</td><td></td><td></td></t<>	Cap à l'Aigle, wharf (shed)			5 00		
Cap St. Ignace, wharf. 322 21 322 21 322 21 1 230 41 1 250 41 1 250 41 1 250 41 1 250 41 1 250 41 1 250 41 1 250 41 1 250 41 1 250 41 1 250 41 1 250 41 1 250 41 1 250 41 1 250 41 1 250 41 1 250 41 1 250 41 1 250 41 2 150 48 25 00 25 00 25 00 25 00 26 00 25 00 26 00 26 00 26 00 25 00 26 00 26 00 26 00 26 00 26 00 26 00 26 00 26 00 26 00 26 00 26 00 27 77 16 27 77 16 27 78 16 27 77 16 27 77 16 27 78 16 27 77 16 27 78 16 27 78 16 27 77 16 27 78 16 28 77 16 28 77 16 28 77 16 28 77 16 28 77 16 28 77 16 28 77 16 28 77 16 28 77 16 28 77 16 28 78 16 28 78 16 28 78 16 28 78 16 28 78 16 28 78 16 28 78 16 28 78 16 28 78 16 28 78 16 28 78 16 28 78 16 28 78 16 28 78 16 <t< td=""><td>Cap Chat, pier</td><td></td><td></td><td>2,990 36</td><td></td><td></td></t<>	Cap Chat, pier			2,990 36		
Cape Cove. pier. 1,250 41 1	Cap de la Madeleine, whart			2,732 75		
Dodd's Landing (Labelle), float. 36 30 30	Cape Cove. pier			1,250 41		
Dodd's Landing (Labelle), float. 36 30 30	Carleton, protection works		515 43			515 43
Dodd's Landing (Labelle), float. 36 30 30	Champlain, wharf	· · · · · · · · · · · · · · · ·	420.00	25 00		
Dodd's Landing (Labelle), float. 36 30 30	Charlemagne	4 636 11	450 80			
Dodd's Landing (Labelle), float. 36 30 30	Chateauguay Basin, whari	1,000 11		304 S6		
Dodd's Landing (Labelle), float. 36 30 30	Chicoutimi, channel	27,771 68				
Dodd's Landing (Labelle), float. 36 30 30	Chieoutimi, wharf	2,139 48	3,144 96	730 00	8 08	
Dodd's Landing (Labelle), float. 36 30 30	Chlorydormes removal of boulders		74 86			
Dodd's Landing (Labelle), float. 36 30 30	Como Me Naughton's wharf		5 00			
Dodd's Landing (Labelle), float. 36 30 30	Contrecoeur, wharf			65 72	14 00	
Dodd's Landing (Labelle), float. 36 30 30	Cross Point, wharf			300 48		
Dodd's Landing (Labelle), float. 36 30 30	Descente des Femmes, whart			56 00		
Duck Creek (Saguenay), spur dyke. 306 03						
Escoumains, wharf.	Duck Creek (Saguenay), spur dyke		306 03			306 03
Fabre wharf.	East Templeton, wharf			417 15		
Faster, Ice-breaker (Ottawa River). Father Point, wharf. Father Point, wharf. Caspe, wharf. Cardad Baie (Chicoutimi), wharf. Cardad Baie (Magdalen Islands), breakwater. Cardad Baie (Chicoutimi Co.), wharf. Cardad Baie				201 05		
Father Point, wharf.	Fabre, whari			22 65		
Fraserville (see Riv. du Loupen-bas). 1,969 13 139 80 2,108 93	Father Point, wharf		2.558 48	30 -1		
Georgeville, wharf. 28 50 28 50 27 50 27 50 Graham, wharf. 27 50 27 50 27 50 Grabam, wharf. 40 00 40 00 40 00 40 00 Grande Baie (Chicoutimi), wharf. 50 20 <td>Fraserville (see Riv. du Loup-en-bas).</td> <td> </td> <td>2,000</td> <td></td> <td>1</td> <td></td>	Fraserville (see Riv. du Loup-en-bas).		2,000		1	
Glen Almond (Labelle), landing float.	Gaspe, wharf		1,969 13	139 80		
Graham, wharf. 40 00 40 00 Grande Baie (Chicoutimi), wharf. 50 20 50 20 Grands Mechins, wharf enlargement. 2,369 91 337 94 Grande Riviere de Gaspe, wharf. 337 94 337 94 Grindstone (Magdalen Islands), breakwater. 998 70 998 70 Grosse Isle (Magdalen Islands), breakwater. 470 53 42 73 42 73 Grosse Isle (Eastern wharf 470 53 470 53 470 53 Grosse Isle, Eastern wharf 1, 132 94 1, 132 94 1, 132 94 "Western wharf 3,009 42 3,009 42 300 42 "A. Lemay's claim 3,009 42 2,487 64 2,487 64 Havre aux Maisons (Magdalen Islands), repairs to pier. 5 165 86 165 86 High Falls (Labelle Co.), landing float at foot. 5 15 515 515 Hospital Bay (Magdalen Islands), breakwater. 1,252 90 1,252 90 1,252 90 Hudson, wharf 835 78 835 78 182 50 Iberville, wharf 835 78 835 78 182 50 Ibe ville, wharf	Georgeville, wharf			28 50		28 50
Grande Baie (Chicoutimi), wharf. 2,369 91 50 20 50 20 Grands Mechins, wharf enlargement. 2,369 91 2,389 91 2,389 91 Grande Reviere de Gaspe, wharf. 337 94 337 94 337 94 Grindstone (Magdalen Islands), break-water. 998 70 998 70 Grondines, wharf. 42 73 42 73 Grosse Isle (Magdalen Islands), break-water. 470 53 470 53 Grosse Isle, Eastern wharf 1, 132 94 1, 132 95 "Western wharf. 1, 132 95 1, 132 95 "Quarantine station 2, 487 64 2, 487 64 Havre aux Maisons (Magdalen Islands), repairs to pier. 165 86 165 86 High Falls (Labelle Co.), landing float at foot. 5 15 5 15 Hospital Bay (Magdalen Islands), break-water. 1, 252 90 1, 252 90 Hudson, wharf. 985 38 182 50 182 50 Iberville, wharf. 835 78 835 78 835 78 Ile aux Coudres, wharf. 1, 921 03 1, 499 19 1, 499 19 "South, wharf. 999 86 999 86 999 86 <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td></tr<>						
Grindstone (Magdalen Islands), break-water	Grande Baie (Chicoutimi), wharf			50 20		
Grindstone (Magdalen Islands), break-water	Grands Mechins, wharf enlargement		2,369 91			
Grosse Isle (Magdaten Islands), break-water	Grande Riviere de Gaspe, wharf			337 94		337 94
Grosse Isle (Magdaten Islands), break-water	Grindstone (Magdalen Islands), break-		005 70			998 70
Grosse Isle (Magdaten Islands), break-water	Grondines, wharf		000 10	42 73		
Grosse Isle, Eastern wharf	Grosse Isle (Magdalen Islands), break-					
(quarantine stn.) 1,132 94 1,132 94 " Western wharf 3,009 42 1,132 95 1,132 95 " A. Lemay's claim 3,009 42 3,009 42 3,009 42 " Quarantine station 2,487 64 2,487 64 Havre aux Maisons (Magdalen Islands), repairs to pier. 165 86 165 86 High Falls (Labelle Co.), landing float at foot. 5 15 5 15 Honfleur (Chicoutimi Co.), wharf. 509 26 509 26 Hospital Bay (Magdalen Islands), breakwater. 1,252 90 1,252 90 Hudson, wharf. 985 38 985 38 Hull, wharf. 182 50 182 50 Iberville, wharf. 835 78 835 78 Ile aux Coudres, wharf. 104 10 104 10 Ile Perrot, basin. 1,921 03 1,921 03 " North, wharf. 999 86 999 86 " South, wharf. 1,499 19 1,499 19 " Ste, Jeanne, wharf. 127 50 127 50 Ile Verte, wharf. 4,499 47 4,499 47 Jersey Cove (Co. Gaspe), removal of boulders. 40 00 Kamouraska, wharf. 177 38 177 38 <td></td> <td></td> <td></td> <td></td> <td></td> <td>470 53</td>						470 53
Havre aux Maisons (Magdalen Islands), repairs to pier	Grosse Isle, Eastern whari			1 122 04		1 122 04
Havre aux Maisons (Magdalen Islands), repairs to pier	" Western wharf			1, 132 94		
Havre aux Maisons (Magdalen Islands), repairs to pier	" A. Lemay's claim "		3,009 42			
Havre aux Maisons (Magdalen Islands), repairs to pier	Quarantine station				2,487 64	2,487 64
Act 100t	Havre aux Maisons (Magdalen Islands),			10= 00		162 86
Act 100t 1	High Falls (Labelle Co.) landing float			100 80		100 30
Hudson, wharf. 985 38 985 38 Hull, wharf. 182 50 182 50 Iberville, wharf. 835 78 835 78 Ile aux Coudres, wharf. 104 10 104 10 Ile Perrot, basin 1,921 03 104 10 1,921 03 " North, wharf. 999 86 999 86 " South, wharf. 1,499 19 1,499 19 1,499 19 " Ste. Jeanne, wharf. 127 50 127 50 Ile Verte, wharf. 4,499 47 4,499 47 Jersey Cove (Co. Gaspe), removal of boulders. 40 00 Kamouraska, wharf 177 38 177 38	at foot			5 15		
Hudson, wharf. 985 38 985 38 Hull, wharf. 182 50 182 50 Iberville, wharf. 835 78 835 78 Ile aux Coudres, wharf. 104 10 104 10 Ile Perrot, basin 1,921 03 104 10 1,921 03 "North, wharf. 999 86 999 86 "South, wharf. 1,499 19 1,499 19 1,499 19 "Ste. Jeanne, wharf. 127 50 127 50 Ile Verte, wharf. 4,499 47 4,499 47 Jersey Cove (Co. Gaspe), removal of boulders. 40 00 Kamouraska, wharf 177 38 177 38	Honfleur (Chicoutimi Co.), wharf		509 26			509 26
Hudson, wharf. 985 38 985 38 Hull, wharf. 182 50 182 50 Iberville, wharf. 835 78 835 78 Ile aux Coudres, wharf. 104 10 104 10 Ile Perrot, basin 1,921 03 104 10 1,921 03 "North, wharf. 999 86 999 86 "South, wharf. 1,499 19 1,499 19 1,499 19 "Ste. Jeanne, wharf. 127 50 127 50 Ile Verte, wharf. 4,499 47 4,499 47 Jersey Cove (Co. Gaspe), removal of boulders. 40 00 Kamouraska, wharf 177 38 177 38	Hospital Bay (Magdalen Islands), break-		1 050 00			1 0*0 00
Hull, wharf. 182 50 Iberville, wharf. 835 78 Ile aux Coudres, wharf. 104 10 Ile Perrot, basin. 1,921 03 "North, wharf. 999 86 "South, wharf. 1,499 19 "Ste. Jeanne, wharf. 127 50 Ile Verte, wharf. 127 50 Jersey Cove (Co. Gaspe), removal of boulders. 40 00 Kamouraska, wharf. 177 38 177 38						
Iberville, wharf	Hull, wharf			300 00	182 50	
Ile Perrot, basin. 1,921 03 "North, wharf. 999 86 "South, wharf. 1,499 19 "Ste. Jeanne, wharf. 127 50 Ile Verte, wharf. 4,499 47 Jersey Cove (Co. Gaspe), removal of boulders. 40 00 Kamouraska, wharf. 177 38 177 38	Iberville, wharf			835 78		835 78
"North, wharf 999 86 999 86 "South, wharf 1,499 19 1,499 19 "Ste. Jeanne, wharf 127 50 127 50 Ile Verte, wharf 4,499 47 4,499 47 Jersey Cove (Co. Gaspe), removal of boulders 40 00 40 00 Kamouraska, wharf 177 38 177 38	Ile aux Coudres, wharf			104 10		
" South, wharf. 1,499 19 1,499 19 " Ste. Jeanne, wharf. 127 50 127 50 Ile Verte, wharf. 4,499 47 4,499 47 Jersey Cove (Co. Gaspe), removal of boulders. 40 00 40 00 Kamouraska, wharf. 177 38 177 38				000 88		
" Ste. Jeanne, wharf. 127 50 Ile Verte, wharf. 4,499 47 Jersey Cove (Co. Gaspe), removal of boulders. 40 00 Kamouraska, wharf. 177 38 177 38						
Ile Verte, wharf. 4,499 47 4,499 47 Jersey Cove (Co. Gaspe), removal of boulders. 40 00 40 00 Kamouraska, wharf. 177 38 177 38				1		
boulders 40 00 40 00 Kamouraska, wharf 177 38 177 38	Ile Verte, wharf			4,499 47		
Kamouraska, wharf			40.00			40.00
Lachine	Kamouraska, wharf		177 38			
		166 98	1			

SESSIONAL PAPER No. 19

Harbours and Rivers.	Dredging.	Construc- tion and Improve- ments.	Repairs.	Staff and Maintenance	Total.
$\it Quebec$ —Continued.	\$ cts.	\$ cts.	\$ cts.	\$ ets.	\$ cts.
Lanoraie, wharf	1,801 58	18,728 34			629 39 18,728 34 1,801 58
Lauzon dry dock (see Levis). Lavaltrie, wharf Les Eboulements, wharf Levis, deep water wharf Levis, graving dock (Lorne dock) Levis, Lauzon graving dock (new)	2,858 17	100 00	1,320 32 472 83	30 31	1,350 63 3,331 00 100 00
Levis, graving dock (Lorne dock) Levis, Lauzon graving dock (new) L'Islet, wharf Little Bonaventure Island, breakwater		1,124,763 83	1,762 50	22,178 39	22,178 39 1,124,763 83 1,762 50
Little Harbour (Mechins), removal of		6 19			6 19 138 88
boulders. Longueuil, Canada S.S. Lines wharf Longueuil, wharf Lotbiniere, wharf	264 48 17,148 27	133 63	9 00 32 73	22 75	264 48 17,157 27 55 48
Louiseville (see Riv. du Loup, en haut). Magog, wharf. Malbaie, pier Matane, wharf. Megantic, wharf. Mille Vaches, wharf	11 50	297 23			297 23 11 50 1,002 19
Matane, wharf			30 00 506 95 1 197 75		30 00 506 95 1,197 75
Megantic, wharf. Mille Vaches, wharf. Montmagny, wharf. Montreal, dry dock. Moose Bay, wharf. Murray Bay wharf, improvements. Natashquan, extension of wharf. Nominingue, Baie Richard wharf. "Laroche wharf. North Hatley (Stanstead), wharf. Norway Bay, wharf (Ottawa Riv.). N. D. des Sept. Douleurs (Ile Verte), wharf, East end.		4,216 41	18 50	213,363 50	213,363 50 18 50 4,216 41
Natashquan, extension of wharf Nominingue, Baie Richard wharf "Laroche wharf		218 24	86 77 20 00		218 24 86 77 20 00 10 00
North Hafley (Stanstead), wharf Norway Bay, wharf (Ottawa Riv.) N. D. des Sept. Douleurs (Ile Verte),		399 93	31 83		31 83 399 93
N. D. des Sept. Douleurs (He Verte), wharf, West end		399 97			399 97
of boulders. Percé, wharf. Peribonka, wharf. Petite Rivière Est, breakwater. Petites Bergeronnes, removal of boulders		200 00	30 86 152 60		200 00 30 86 152 60
Petite Rivière Est, breakwater Petites Bergeronnes, removal of boulders Piché Point (see Pointe Piche).		15 00 499 68			15 00 499 68
Pierreville, wharf and shed		363 01 7 40	477 14 778 68		840 15 778 68 7 40 299 94
Pointe aux Esquimaux, wharf			299 94 35 00 1,400 17	150 00	185 00 1,400 17 31 00
Pointe Point (see Pointe Picne). Pierreville, wharf and shed Pointe à Elie, breakwater (Mag. Isds.). Pointe à la Frégate, removal of boulders. Pointe aux Esquimaux, wharf Pointe Claire, wharf Pointe Piché, wharf (Timiskaming) Pointe St. Charles Pointe St. Pierre, breakwater Poltimore (Riv. du Lièvre), landing float Port Lewis, wharf.	31 00		497 57 67 55 1,691 12		497 57 67 55 1,691 12
Poupore (Riv. du Lièvre)	9,857 93				9,857 93 385,202 11
Quebec Harbour (Riv. St. Charles), improvements to navigation. Quyon, wharf. Repentigny, wharf. Rigaud, wharf. Rimouski, harbour improvements "wharf. Riv. aux Renards (Co. Gaspé)		843 63	1,440 84 288 63		843 63 1,440 84 288 63 136,617 00
" wharf Riv. aux Renards (Co. Gaspé)	5 60	130,017 00	2,996 06	1,245 97	4,242 03 5 60

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Amounts expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1917—Continued.

Harbours and Rivers.	Dredging.	Construc- tion and Improve- ments.	Repairs.	Staff and Maintenance	Total.
Quebec—Continued.	\$ cts.	\$ cts.	\$ ets.	\$ ets.	\$ ets.
Riviere aux Vases (Chicoutimi Co.), wharf Batiscan Bonaventure, training pier Riviere ('hicot (L'Assomption Co.). Riviere du Lievre, lock. Riv. du Loup (Fraserville), wharf impts. Riv. du Loup (Louiseville), wharf.		479 99		0,032 40	498 00 9,687 01 426 42 1,759 24 3,082 45 472 92 3,037 35
Riv. du Moulin (Saguenay), bank protection. Riv. Gatineau, bank protection. Riv. Noire (St. Zenon), bank protection Riv. Ouelle, wharf. Riv. St. Maurice, middle channel. Riv. St. Maurice, western channel. Riv. Saguenay. Riv. Verte, dyke. Ruisseau à Loutre, removal of boulders. Ruisseau à Patates, removal of boulders. St. Alphonse de Bagotville. St. Andrews (Argenteuil), wharf. Ste. Anne de Beaupre, wharf. Ste. Anne de Bellevue. Ste. Anne de Ballevue. Ste. Anne de Bayenay. Ste. Anne de Stellevue. Ste. Anne de Saguenay, wharf. Ste. Anne de Saguenay, wharf.		1.981 32			1,981 32 362 90 684 68 4,789 39 5,210 25 4,341 02 1,541 09 200 05 32 00 28,861 13 346 45 772 52 301 6,860 42
Ste. Anne de la Pocatiere, wharf. Ste. Anne des Monts, landing pier, etc Ste. Anne du Saguenay, wharf St. Antoine Station (Pte Dansereau), wharf St. Barthélemi (Berthier Co.), dyke			282 25		1,495 26 35,003 75 10,629 50 282 25 668 40
St. Charles Borromée (Chicoutimi Cowhari. St. Charles de Caplan, whari. St. Eloi (Temiscouata), whari (shed) St. Emélie (Leclereville), whari. Ste. Famille (Ile d'Orleans), whari.)		1		149 64 100 08 296 79 895 79 31 50
dykes Ste. Felicité, wharf St. Fidèle (Charlevoix), wharf		37 90	609 14 10 40		37 90 609 14 10 40
st. François (ne d Orieans, south side), wharf					56 00 70 50 2,053 21 555 00
wall. Ste. Geneviève (He Bizard), approaches. St. George de Malbaie, breakwater. St. Godiroi, wharf. St. Ignace de Loyola, dykes. St. Irenée les Bains, wharf. St. Jean des Chaillons, wharf. St. Jean (He d'Orleans), wharf. St. Joseph de Sorel, ferry approach. St. Laurent, (He d'Orleans), wharf. St. Mathias, wharf. St. Michel de Bellechasse, wharf. St. Michel de Bellechasse, wharf. St. Omer, wharf.		1,933 80 474 03 796 75	583 78 300 62 1,332 87 64 51 40 27 166 36 1,951 34 199 56 597 24 113 95	26 25 6 00 50 05 89 25	615 33 583 78 30 00 300 62 1,933 80 1,332 87 66 52 6 60 524 08 796 75 255 61 1,951 34 199 56 597 24 113 95

SESSIONAL PAPER No. 19

Harbours and Rivers.	Dredging.	Construc- tion and Improve- ments.	Repairs.	Staff and Maintenance	Total.
	\$ cts.	\$ ets.	\$ cts.	\$ cts.	\$ cts.
Quebec—Concluded.					
St. Roch de Richelieu, wharf		1,059 82			1,059 82
St. Valier, extension to wharf		199 69	178 40	15 70	194 10 199 69
St. Valier, extension to wharf		310 44			310 44
Squateck (Lake Temiscouata), landing			041 45	1	541 43
pier Terrebonne wharf, approach		1.144 97	399 81		399 81 1,144 97
Squateck (Lake Temiscouata), landing pier. Terrebonne wharf, approach. Three Rivers, wharf. Vaudreuil, wharf.			10,517 07	100 00	10,617 07
Verchères, wharf			366 67	67 47	48 88 434 14
Verchères, wharf Verdun, Grand Trunk Boat Club " la Tortue " wharf	$\begin{bmatrix} 2,809 & 60 \\ 7.827 & 23 \end{bmatrix}$				2,809 60 7,827 23
" wharf Ville Marie, wharf (Timiskaming)			1,364 51		1,364 51
Wohurn wharf	1	f .	53.70		729 97 53 70
Woodman's Beach, breakwater Yamachiche, landing Yamaska, lock and dam Generally			206 50		206 50 40 00
Yamaska, lock and dam		4,093 32		1,588 33	5,681 65
				36,139 58	36,139 58
Totals, Quebec	151,827 17	1,771,750 89	75,958 08	281,411 90	2,280,948,04
Ontario.					
Allandale, wharf			918 46		918 46
Arnprior, wharf			24 00	22 50	22 50 24 00
Barrie (Bayfield St.), wharf. Bayfield, north pier. Beaumaris, wharf. Belleville, wharf. Black River, dam Bobcaygeon, floating wharf. Bracebridge, wharf		1,700 00	10.20		1,700 00
Belleville, wharf		4,832 10	10 50	128 40	10 30 4,960 50
Black River, dam		573 40		70 96	70 96 573 40
Bracebridge, wharf			3,556 64		3,556 64
Brighton, wharf. Bruce Mines, wharf, etc Burleigh Falls, wharf.		12,509 79	496 62		496 62 12,509 79
Burlington	5 805 16		234 57		234 57 5,805 16
Burlington Burlington Beach, old Elsinore wharf		3,079 25			0 0 0 0 0
Burlington Channel and bridge		12,970 30		3,006 34	$\begin{array}{c c} 3,006 & 34 \\ 12,970 & 30 \end{array}$
Charlton (Nipissing), wharf			427 08 12 875 89		427 08 12,875 89
" harbour	4,660 94			45 000 00	4,660 94
Burlington Beach, old Elsnore whark. Burlington Channel and bridge. Burlington, revetment wall. Charlton (Nipissing), wharf. Cobourg, east pier. "harbour. Collingwood, graving dock No. 1. "No. 2. "harbour improvements.				9,208 96	15,000 00 9,208 96
" harbour improvements Crow's Landing, wharf	7,282 63		235 69		7,282 63 235 69
Cumberland, wharf			98 37		98 37 195 01
" harbour improvements Crow's Landing, wharf. Cumberland, wharf. Dyer's Bay, wharf. Fort William, harbour impts Froddy Channel (Coorring Bay)	453,551 07	54,385 00	199 01		507,936 07
Freddy Channel (Georgian Bay) French River, dam	$1,858 20 \\ 2,578 01$			2,829 83	1,858 20 5,407 84
" waterways impts		45,083 95			45,083 95 78 00
Gananoque, wharfGoderich, harbour improvements—		78 00			
Southwest breakwater		82,268 60 2,582 75			82,268 60 2,582 75
Repairs to piers			1,930 03		1,930 03 2,561 55
River breakwaterGrand Bend, piers, etc		2,561 55	1,021 95		1,021 95
Griffith's Island, wharf			815 99		815 99

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Amounts expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1917—Continued.

Harbours and Rivers.	Dredging.	Construc- tion and Improve- ments.	Repairs.	Staff and Maintenance	Total.
Ontario—Continued.	\$ ets.	\$ ets.	\$ ets.	\$ ets.	\$ cts.
Hamilton, grading adjacent to south en-		450.00			450.00
trance pier. "harbour improvements	10,931 32	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			450 00 18,776 54
Hawkesbury	7,898 50				7,898 50
Juniper Island (Stoney Lake), wharf	· · · · · · · · · · · · · · · · · · ·	670.07	64 50		64 50
Kensington, wharf and warehouse		360 40		150 00	829 07 360 40
Kincardine, breakwater		000 10	9 75		9 75
Kingston Harbour, improvements		119,901 24			119,901 24
Learnington wharf			295 86		295 86 1,596 48
Little Castor River, improvements		4 166 32	1,390 48		4,166 32
Little Detroit river	5,800 06	1,100 02			5,800 06
Little Castor River, improvements. Little Detroit river. Meaford, removal of stone. "revetment wall. McCracken's Landing (Peterborough) wh Midland, wharf. Minaki wharf, temporary walk. Montreal River (Latchford dam). Oliphant, wharf. Ottawa River, Victoria Island, channel. Owen Sound, harbour improvements. Parry Sound, wharf. Pelee Island, docks. Pembroke, wharf. Penetanguishene. Peterborough, George street wharf. Pienic Islands, impts. (Georgian Bay). Point Edward. Port dayard. Port Arthur, dry dock. "harbour improvements. Port Bruce, piers. Port Bruce, piers. Port Burwell. Port Dover, harbour improvements. Port Hope, harbour improvements. Port Maitland. Port Rowan, pier. Port Rowan, pier. Port Stanley, reconstruction of piers.		62 95			62 95
McCracken's Landing (Peterborough) wh	orf	6 80			$\begin{array}{c} 6 & 80 \\ 408 & 00 \end{array}$
Midland, wharf	air.,	405 00	6.00		6 00
Minaki wharf, temporary walk		155 21			155 21
Montreal River (Latchford dam)		344 08		2,678 73	3,022 81
Ottowa River Victoria Island channel	608 27		800 00		800 00 698 37
Owen Sound, harbour improvements	7.311.43				7,311 43
Parry Sound, wharf		1,500 00			1,500 00
Pelee Island, docks			694 06		694 06
Pembroke, whari	11 671 50		599 41		599 41
Peterborough, George street wharf	11,074 39			72 01	11,674 59 72 01
Picnic Islands, impts. (Georgian Bay)	3,129 88				3,129 88
Point Edward	1,02575				1,025 75
Port Arthur dry dock			340 35	25 641 50	340 35 35,641 50
" harbour improvements	55.985 90	626 20		55, 641 50	56,612 10
Port Bruce, piers			903 30		903 30
Port Burwell	26,561 09		8,119 11		34,680 20
Port Hope harbour improvements	7 381 00	306 06			306 06 7,386 06
Port Maitland	70,326 85	1 97			70,326 85
Port Rowan, pier			30 00		30 00
Port Stanley, reconstruction of piers		4,164 79			4,164 79
Rainy River maintenance of gauges		301 25		024.45	301 25 934 45
Port Maitland. Port Rowan, pier. Port Rowan, pier. Port Stanley, reconstruction of piers. Rainy River, maintenance of gauges. River Thames at mouth. River Thames, at Chatham. Robin's Landing, wharf. Rondeau Harbour, piers, etc. Rosseau wharf. St. John creek stop log dam. St. Joseph Island, wharf K line. St. Williams (Lake Erie), piers. Sanda Point, wharf (Renfrew).	11.075 58			904 40	11,075 58
River Thames, at Chatham	2,090 75	38 00			2,128 75
Robin's Landing, wharf				25 00	25 00
Rosseau wharf			998 68		998 68 1,000 00
St. John creek stop log dam	· · · · · · · · · · · · · · · · · · ·		1,000 00	79 00	79 00
St. Joseph Island, wharf K line			200 00		200 00
St. Williams (Lake Erie), piers			311 66		311 66
Sand Point, wharf (Renfrew)			108 73		108 73
wharf		83 50			83 5 0
Sault St. Marie, whart	28 00		5,056 65		5,084 65
" custom house on wharf.		758 26			758 26
Severn River at Washago, dam	• • • • • • • • • • • • • • • • • • • •	503 50	64 13	248 00	751 50 64 13
Southampton, breakwater					497 20
Silver Centre, wharf. Southampton, breakwater. " piers			2 005 50		2,995 50
Stanley Island, wharf. Sturgeon Falls, wharf. Telegraph and Nigger islands. Thornbury, wharf. Tobermory glance booms.		· · · · · · · · · · · · · · · · · · ·	808 83		808 83
Telegraph and Nigger islands	34 616 90		270 89		270 89 34,616 90
Thornbury, wharf	51,010 30		212 85		212 85
				25 00	25 00

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Amounts expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1917—Continued.

								-	
Harbours and Rivers.	Dredgi	ng.	Constr tion a Impro ment	nd ve-	Repair	rs.	Staff Mainter		Total.
Ontario—Concluded.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$ cts.
Toronto Harbour Improvements:— Canadian Stewart contract Diving scow re inspection of Canadian		- 1	586,47	- 1					586,472 54 8,775 00
Stewart contract			1,22	5 44					$\begin{array}{c} 9 & 35 \\ 1,226 & 88 \\ 5 & 44 \end{array}$
New western entrance. Queen's wharf. Vail's Point, wharf. Waubaushene. Wendover, wharf.	l				(02)	3 40	10		$ \begin{array}{c cccc} 100 & 00 \\ 6 & 40 \\ 5,149 & 95 \\ 927 & 40 \end{array} $
wheatley, whari					203	3 00 7 19	1,20	00 00	786 00 207 19 1,791 58
Wiarton, whari Windsor, dock Generally Totals, Ontario			961,76		50,76			11 16 31 84	14,911 16 1,836,876 69
${\it Manitoba}.$					0.07	4 45			2,274 45
Assiniboine River (High Bluff), dykes. Big George island	'								
Dauphin riverGimli (Lake Winnipeg), shore protection	5,29	9 06 6 64	1 2	72 69	1 40				5,296 64 1,272 69
Hnausa (Lake Winnipeg) Hole River, dam Le Pas, wharf. Lockport.	34	8 42 2 79	2,30	51 22	1,48				4, 102 79
Mossy River, channel	2,87 4,87 8,06	8 49 5 49 0 15			9,19	6 14			8,060 15
St. Andrews Rapids, lock and dam Selkirk marine railway middle ground slough	7,83	9.85		• • • • •				 	7,439 10
Snake Island (Lake Winnipegosis) Winnipeg City, wharfs Generally	1,60	2 91	. 6		15				762 70
Totals, Manitoba	47,52	22 90	6,8	64 56	13, 10	5 65	24,5	207 58	91,700 69
Saskatchewan and Alberta. Saskatchewan river, improvements			5	90 17	177				590 17
Generally			-					$044 71 \\ \\ 044 71$	
British Columbia.									
Arrow Head		15 21	.1 :	37 14					2,815 21 137 1- 165 42
Upper improvements Bindlay's Landing, float. Bishop's Bay, landing float. Birdwood Bay, float. Bold Point, float.		 		165 42 689 12 65 00	3	10 00 17 6	0		010 00

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Amounts expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1917—Continued.

	Dredging.	tion and Improve- ments.	Repairs.	Staff and Maintenance	Total.
British Columbia—Continued.	\$ cts.	\$ cts.	\$ ets.	\$ cts.	\$ cts.
Burton protection work. Cadboro Bay, dolphins. Campbell river, wharf. Christiana Creek, fish screen. Church House, float. Clayoquot, wharf. Columbia river, improvements. Comox, wharf. Cottonwood Point. Cowan's Cove, wharf. Cowichan river. Cracroft Island, float. Crofton, wharf. Digby Island Quarantine stn., wharf. Digby Island Quarantine stn., wharf. Esquimalt (Rod Hill wharf) "new dry dock. "old dry dock. Fanny Bay, float. Fraser River, improvements:— Chilliweds reversed of progra		8,722 46			8,722 46
Cadboro Bay, dolphins		350 00			3 5 0 00
Campbell river, wharf			247 10		247 10
Church House float		1,44, 85	999 81		1,447 85 222 81
Clayoquot, wharf			19 40		19 40
Columbia river, improvements		532 75			532 7 5
Comox, wharf	0.010.40		250 00		250 00
Cowan's Cove wharf	2,918 40		746.82		$2,918 40 \\ 746 82$
Cowichan river	323 41		140 02		323 41
Craeroft Island, float		1,975 80			1,975 80
Crofton, wharf			729 41		729 41
Digny Island Quarantine stu., whar Dignan's Bay, float			13 20		13 20 88 44
Esquimalt (Rod Hill wharf)	267 61				267 61
" new dry dock		21,006 97			21,006 97
" old dry dock			100.01	20,477 70	20,477 70
Forest Glen	3 138 21		120 81		126 81 3,138 21
Fraser River, improvements:—	0,105 21				0,100 21
Chimiwack, removal of shags		994 02			994 02
Eburne (bank protection)		2,454 09			2,454 09
Nicomen McDonald's Bar	5.137.96	443 32			443 32 5,137 96
North Arm		139,718 96			139,718 96
Eburne (bank protection) Nicomen slough (bank protection) Nicomen, McDonald's Bar North Arm "South Fork 1,400 ft. below Lulu island	18,459 30				18,459 30
bridge	12 422 13				12,422 13
Snagboat Samson	12, 122 10			18.004 18	18,004 18
Steveston jetty		360,005 40			360,005 40
Snagboat Samson. Steveston jetty sandheads. Westham Island, wing dams. Fulford, landing float Gillies Bay (Shelter Point), float.	72, 198 17	6 610 19	106 15		72, 198 17 6, 815 57
Fulford, landing float		0,013 12	293 17		293 17
Gillies Bay (Shelter Point), float Glen Valley, wharf			398 28		398 28
Glen Valley, wharf. Gower Point, float. Grace Harbour, float. Graham's Landing. Granite Bay, float. Grantham's Landing, wharf. Heriot Bay, wharf. Holberg, wharf. Hope Point, float. Jedediah Island, float. Kelowna. "saw mill.			299 27		299 27 175 10
Grace Harbour, float			150 00		150 00
Graham's Landing	2,105 21				2,105 21
Granite Bay, float			140 87		140 87
Grantham's Landing, whari Heriot Bay wharf		196.36	99 16		99.76 196.36
Holberg, wharf			14 00		14 00
Hope Point, float		921 22			921 22
Jedediah Island, float	1 607 69	742 06			742 06 1,697 68
" saw mill	332 13				332 13
Kincolith, wharf			498 55		498 55
Kitimat, landing float		2,499 11			2,49911 $3,51551$
Kootenay Landing	9 509 99	3,515 51			9,509 99
Lilloet river	1,171 21				1,171 21
Kelowna. " saw mill. Kincolith, wharf. Kitimat, landing float. Kootenay Lake, improvements Kootenay Landing. Lilloet river Little River (Cape Lazo), wharf Lloyd's Point, float		4,002 00			4,002 00
Lioya s Point, float		994 56	100.00		994 56 100 00
Maples (Gabriola), wharf			180 00		180 00
Mary Island, wharf			90 48	1	90 48
	1	I	13 40		13 40
Massett, wharf			700 -	1	F00 F0
Little River (Cape Lazo), whan Lloyd's Point, float Lund, wharf. Maples (Gabriola), wharf. Mary Island, wharf. Massett, wharf. Metchosin, wharf. Vaas river	4 074 77		13 40 700 76		700 76
Massett, wharf. Metchosin, wharf. Naas river. Nanaimo harbour, improvements New Brighton, float. Nootka Island, wharf.	4,974 77 34,761 65		700 76 		700 76 4,974 77 35,971 54 1,577 97

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Harbours and Rivers.	Dredging.	Construc- tion and Improve- ments.	Repairs,	Staff and Maintenance	Total.
••					
British Columbia—Concluded.	\$ ets.	\$ ets.	\$ ets.	\$ ets.	\$ ets.
Okanagan Landing Okanagan, river improvements "river control dam	4,860 56 413 44				532 05 5,763 51 413 44
Pender Harbour, float	704 82		168 31		168 31 704 82
Port Clements (Queenston), wharf Powell River, breakwater Prince Rupert graving dock (inspection).	3,131 74	2,500 00	492 47 8,498 21	2,700 00	492 47 8,498 21 5,631 74
Prince Rupert graving dock (inspection). Quatsino, wharf Refuge Bay, wharf.			255 75 4,611 41	2,700 00	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Prince Rupert graving dock (inspection). Quatsino, wharf. Refuge Bay, wharf. Robert's Bay, float Robert Creek, wharf. Roy, float Royston (Roy's Beach), wharf Saninchton, float.		1,682 50	303 25		303 25 1,682 50
Royston (Roy's Beach), wharf	932 18		247 98 2,000 00 230 00		2,932 18
Colored Anna Citat subset		295 ±1	05 05		298 47 25 97
Savary Island, wharf		550 00	497 12		497 12 550 00
Samon Arm City, wharf. Sand Spit Point, wharf. Sea Otter Cove, float. Seaside Park, float. Shoal Bay, wharf. Shushartie Bay, wharf. Sidney Island, wharf. Sidney wharf.			150 00 240 00 155 00		
Sidney Island, wharf			900 00 2,100 00		000 00
Sidney, wharf. Skeena river. Smith's Landing (Cortez island), float (Howe sound), wharf	11,870 61	1,590 20	2,496 31		11,870 61 1,590 20 2,496 31
Squamish, retaining wall.	20,335 46	4,443 42	9 94		5 94 24,778 88 724 78
Stag Bay, float. Stewart (Portland Canal), wharf.		65 00	1,697 12		65 00 1,697 12
Stag Bay, float. Stewart (Portland Canal), wharf. Stickine river improvements. Summerland. Surge Narrows, float. Tofino, wharf.	535 41	1.087 56			4,697 13 535 41 1,087 56
					1,396 60 1,224 68
Ucluet, wharf. Union Bay, wharf. Van Anda, wharf. Vancouver, False Creek "First Narrows." harbour improvements Vargus Island, wharf	6,605 02		5 00 800 00 91 15		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Vancouver, False Creek	281,693 09 96,524 42	62 015 96			281,693 09 96,524 42
Vargas Island, wharf. Victoria Harbour, improvements. Welcome Harbour, float.	161,789 61	999,990 51	750 00		$\begin{array}{r} 63,015 & 26 \\ 576 & 31 \\ 1,162,530 & 12 \end{array}$
Welcome Harbour, float		696 77 821 30	37 92		696 77 37 92 821 30
Whaletown, wharf White Rock, wharf William's Head, quarantine station Winter harbour, float Wolfsen's Bay Hoot	919 68	2,996 58	250 01		$\begin{array}{r} 3,916 & 26 \\ 250 & 01 \end{array}$
Wyatt Bay, floats			246 40 142 60		246 40 142 60 129 00
Yellow Point, float				8,385 22	8,385 22
Totals, British Columbia	763,081 13	1,645,967 64	38,583 44	49,567 10	2,497,199 31

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Yukon River, impts. to navigation. Improvements. State Improvements.	cts.
Yukon Territory. Yukon River, impts. to navigation	ets.
Totals, Yukon Territory	394 82
	394 82
Generally.	
Salaries of district engineers, assistants,	,377 85 ,627 85
	,458 52
Totals, Harbours and Rivers generally	,464 22
Construction and Improvements. Construction and Improvements. Repairs. Staff and Maintenance	otal.
Dredging Plant. \$ cts. \$ cts. \$ cts. \$	ets.
Ontario and Quebec 17,005 93 64,677 39 81	,325 79 ,683 32 ,003 31 300 00
Totals, Dredging Plant	,312 42
Slides and Booms.	
River St. Maurice. 13,250 86 38,710 33 51	521 89 , 249 16 , 961 19
Coulonge River. 3,631 06 3 Dumoine river. 197 85 600 00 Gatineau river. 153 78 600 00 Madawaska river. 5,454 62 5 Ottawa river. 378 88 27,999 18 28 Petewawa river. 4,270 21 4 Trent and Newcastle district. 117 68 202 63	,610 00 ,631 06 197 85 753 78 ,454 62 ,378 06 ,270 21 320 31 ,528 27
	,876 40

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	Construc- tion and Improve- ments.	Repairs.	Staff and Maintenance	Total.
	\$ ets.	\$ cts.	\$ cts.	\$ cts.
ROADS AND BRIDGES.				
Maritime Provinces.		-		
International bridge—St. Leonard, N.B. and Van-Buren, Maine		2,136 87		2,136 87
Quebec and Ontario.				
Bryson bridge. Chapeau bridge. Des Joachims bridge Interprovincial bridge at Hawkesbury. Matapedia road. Pond Creek bridge (Wright Co.). Portage du Fort bridge. Sauvé bridge (River St. Louis). Ottawa City bridges and streets maintained by Government.—	\$48 53 1,995 00 50 00 1,133 81	599 52		900 00 848 53 1,995 00 50 00 1,133 81 599 52 99 50 189 52
Chaudiere bridge Connaught Place and Wellington street Lighting all above York bridge (Grand river)	1		10 200 60	4,162 50 19,300 62 1,491 82 186 66
Manitoba, Saskatchewan, and Alberta.				
Banff, old bridge (Alta.) Netley Cut bridge (Red river)	699 35	4,471 81		4,471 81 699 35
Totals, Roads and Bridges	4,916 21	12,556 86	20,792 44	38,265 51

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Amounts expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1917—Continued.

Telegraph Lines.	Construc-	Repairs.	Staff and Maintenance	Total.
New foundland.	\$ cts.	\$ ets.	\$ cts.	\$ ets.
Cape Ray (subsidy)			250 00	250 00
Maritime Provinces.				
Bay of Fundy Lines. Cape Breton Lines. Escuminac Line. Prince Edward Island Cable and Mainland.		. <i></i> . 	5,709 83 46,429 78 1,453 91 15 50	5,709 83 46,429 78 1,453 91 15 50
Quebec Mainland.				
North Shore, East of Bersimis. "West of Bersimis Quebec County lines Timiskaming lines			28,329 12 20,821 33 1,943 60 3,415 98	28,329 12 20,821 33 1,943 60 3,415 98
$Quebec\ Islands.$				
Anticosti system. Cable ship Tyrian. Grosse Isle-Isle aux Coudres & Is. of Orleans system. Magdalen Islands system. Maritime Provinces and Gulf generally.			6.665 85	8,333 90 60,096 88 8,805 43 6,665 85 2,290 29
Ontario.				
Pelce Island cable			2,652 25	2,652 25
Saskatchewan Lines.	3,682 49		48,623 53	52,306 02
Alberta Lines.	12,604 51		67,782 80	80,387 31
British Columbia and Yukon.				
Ashcroft-Dawson system	46,490 94		212,666 15 56,035 86 91,509 47	231,524 98 102,526 80 111,023 62
Telegraph Service generally			357 28	357 28
Totals, Telegraph Lines	101,150 92		674,188 74	775,339 66

Miscellaneous.	Construc- tion and Improve- ments.	Repairs.	Staff and Maintenance	Total.
Surveys— Maritime Provinces. Quebec. Ontario. Manitoba. Saskatchewan and Alberta British Columbia Generally. Upper Ottawa Storage dams— Kippewa dam Latulippe township (survey) Mattawa (survey). Metering flow. New Liskeard.	60 00		\$ cts. 20,210 82 23,981 48 16,722 12 1,655 53 2,947 52 8,823 01 1,625 95	\$ cts.
Quinze dam	174,056 04 33,744 66		20.168-98	255, 257 73 20, 168 98
Monument to His late Majesty King Edward VII Operation and maintenance of inspection boats River gaugings and meterings War Appropriation—Salaries in connection with mili-	1,350 00		9,827 10 5,883 88 44,180 48 25,174 75	17,794 82 9,827 10 5,883 88 1,350 00 44,180 48 25,174 75
tary service Totals, miscellaneous			104,078 76 303,075 20	104,078 76 559,682 93

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RECAPITULATION.	Dredging.	Construction and Improvem'ts.	Repairs.	Staff and Maintenance.	Totals.
Totals, Public Buildings— Nova Scotia Prince Edward Island New Brunswick. Quebec. Ottawa buildings. Ontario (excluding Ottawa) Manitoba Saskatchewan Alberta. British Columbia. Yukon Territory. Public Buildings, generally. Totals, Harbours & Rivers— Nova Scotia.		\$ ets. 14,001 96 4,503 76 96,466 19 301,921 23 1,955,385,66 503,680 60 21,314 45 53,066 55 28,915 57 113,354 52 6,101 38 188,875 34	\$ ets. 8,450 83 1,883 06 8,096 52 35,915 31 360,673 36 37,675 46 8,380 43 7,562 74 7,577 87 13,980 62	\$ cts. 72,364 61 13,007 97 65,925 73 342,575 47 838,653 72 264,642 83 113,236 18 65,177 96 89,867 85 134,310 77 49,467 62 79,311 50 3,810 66	\$ cts. 94,817 40 19,394 79 170,488 44 680,412 01 3,154,712 74 805,998 80 142,931 06 125,807 25 126,361 29 261,645 91 49,467 62 85,412 88
Prince Edward Island New Brunswick Quebec Ontario Manitoba Saskatchewan and Alberta British Columbia Yukon Territory Harbours and Rivers gener	46,672 23 354,473 21 151,827 17 738,016 60 47,522 90 763,081 13	539 91 860,441 06 1,771,750 89 961,767 37 6,864 56 590 17 1,645,967 64 3,394 82	10,503 27 16,921 32 75,958 08 50,760 88 13,105 65 38,583 44	1,591 36 4,073 79 281,411 90 86,321 84 24,207 58 3,044 71 49,567 10	59,306 77 1,235,909 38 2,280,948 04 1,836,876 69 91,700 69 3,634 88 2,497,199 31 3,394 82
ally Totals. Dredging plant "Slides and booms "Roads and bridges "Telegraph Lines "Miscellaneous Grand totals of expenditure		9,458 52 17,305 93 13,250 86 4,916 21 101,150 92 256,607 73 8,941,593 80	108,006 49 18,335 97 12,556 86 891,968 78	382,005 70 80,289 57 20,792 44 674,188 74 303,075 20 4,042,932 80	391, 464 22 125, 312 42 111, 876 40 38, 265 51 775, 339 66 559, 682 93

MISCELLANEOUS REPORTS, CONTRACTS, Etc. By J. A. CHASSE.

STATEMENT No. 1.—Contracts let by the Department of Public Works of Canada, from April 1, 1916, to March 31, 1917.

Works.	Names of Contractors.	Date of Contract.	Amount.
Public Bulldings.			
Coal per ton—Bit	W. A. Fillmore Intercolonial Coal Mining Co. Edward Haley. C. P. Terrary A. G. McDonald Intercolonial Coal Mining Co. A. N. Whitman & Son Dartmouth C. & S. Company.		2 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
Digby. Post Office (new) Bit Day Glace Bay " Bit W. Glave Bay " Bit Do Guysborough " Bit Lee Halifax. " Anth. egg H Examinism Warehouse " Anth. egg H Examinism Warehouse " Anth. egg H Inverpose " Anth. egg H Experimental Farm " Anth. egg H Kentville Experimental Farm " Anth. egg H Inverpool Post Office " Bit Anth. Liverpool Post Office " Bit H Luncaburg " " Anth. Ant New Glasgow " Bit H New Glasgow " Bit H Interpretation Office " Bit H Post Office " Bit H Post Office	Dartmouth C. & S. Company W. E. Van Blarcom Dominion Coal Co. Lewis Hart & Company. S. Cunard & Company. H. D. Mackenzie Company. H. D. Mackenzie Company. H. D. Mackenzie Company. H. D. Mackenzie Company. C. L. Dodge. C. L. Mackenson Company. Intercolonial Coal Mining Co. Intercolonial Coal Mining Co. H. G. Campbell. W. J. Berry. Intercolonial Coal Mining Co. Estate Joseph MeGill. G. W. McKnight. G. W. McKnight. H. G. Campbell.		0 0 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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.3	3		3			
: :	: 3			Anth., egg	. The Stothart Mer. Company	
Dalhousie	: :			. Bit	Chas. Fowell.	
: :	: :			. Anth., turn	Chas, Powell	
Fairville	: :			Anth, egg	Estate C. E. Colwell	
	: :			Anth., nut	Estate C. E. Colwell	
Fredericton	: :			-	S. L. Morrison	
:	: '			:	S. L. Morrison	
[x:H	perime	Experimental Farm		:	S. L. Morrison.	
	5			:	S. L. Morrison	
	ing w	New Building			S. L. Morrison	
; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	: 6			:	S. L. Morrison.	
	st Omo	Post Office		Anth., furn	J. L. White	
Hampton	; ;			Anth., egg	J. W. Smith	
::	: :				J. W. Smith	
	: :			:	J. W. Smith.	
HartlandPos	st Offic	Post Office		:	Burtt Hardware Co	
	: :			Anth., nut	Burtt Hardware Co	
	: :			Anth., egg		
Marysville	; ;			Anth., egg	S. L. Morrison	
3.f:114.	: 3			Anth., nut		
WILLTOWN	. 3			Anth, egg	_	
M	"			, A = 41. 5	TOPO, II. DUUG	
Newcastle	>>			MILLION, INCH.	The Blothart Mer. Co.	
D: 1.1.	. 39		. 3	1510	I he Stotnart Mer. Co	
Kichibueto	: 3				If. O'Leary	
:	: 1			Anth., stove	If. U Leary	
St. JohnOld	rost	Old Fost Omee			J. S. Gibbon & Company	
	. 37			:	Jas. McCilvern.	
	: ;			:	K. P. & W. F. Starr	
Ne	w Post	New Post Office		:	. R. P. & W. F. Starr	
	: :			:	K. P. & W. F. Starr	
	: '			:	K. P. & W. F. Starr	
Sa	vings E	Savings Bank			J. S. Gibbon & Co.	
	; ;			Anth., nut	J. S. Gibbon & Co.	
	F	T		D1U	L. F. & W. F. Marr	
3	stoin r	Custom House		Anth., 10rn	T & Carles & C.	
,	r more	10gse		Rit Bit	D & W E Grown	
m1,	migrat	tion Building		" Anth furn	Estate C E Colwoll	
77	a series	·····		" Anth nut	Estate C. E. Colwell	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		7.7		Rit.	_	
" (West) Po	st. Office	90	,	" Anth. stove		
St. Stenhen.	,,	hen.		Anth egg	Las McVav & Son	
37	33			W Anth., stove	Jas. McVay & Son	
<u></u>	migrat	tion Office		" Anth stove	Geo H Budd	
Sussex	st Offi	Post Office.		Anth., furn	W. H. Culbert	
	,,,			" Anth. nut	W. H. Culbert	
TracadicLa	zarette	Lazaretto		" Anth., egg	The Stothart Mer Co.	
:	3.9		•	" Bit	The Stothart Mer. Co	
WoodstockPo	st Offi	Post Office	•	" Anth., furn	Fleming Coal & W. Co	
	7.7			" Anth., nut	. Fleming Coal & W. Co	_

8 GEORGE V, A. 1918

Statement No. 1.—Contracts let liv the Department of Public Works of Canada, from April 1, 1916, to March 31, 1917—Continued.

	Works.		Names of Contractors.	Date of Contract.	Amount.
C18.0.T	Public Buildings—Continued. Onebec.				es ets.
Actonvale Post Office Arthabuska Post Office Aylmer Borthierville Buckingham		. Coal per ton—Anth., egg Anth., egg Anth., egg Anth., stove Anth., egg	V. T. Mongeau L. O. Pepin & Son Aylmer Coal & S. Co J. E. Chartier. The Traders Co The Traders Co		დ <u>ო</u> დდდდ
Cap Rouge Experimental Farm	tal Farm	Anth., nut Anth., egg Bit Anth., furn	O. Girlanes Co. O. Girlanes Co. E. P. Berube. Canadian Import Co. G. P. Marcotte.		တြေလာက္
Conticooke Post Office Cookshire " Dundlee Custom House	ice	Anth., furn	Cofe, Boyun & Co. Hall & Albard. B. J. Smith & Son. E. J. Planche & Co. Mrs. A. S. Matthews.		D ∞ ∞ ∞ ⊱ 0
DrummondvillePost Office		Anth., egg Anth., egg Anth., egg	arrs, A. S. Mattnews. J. O. Montplusir. J. A. Planche J. A. Planche		5 ∞ ∞ ∞ 1
Farnham Frasorville		Anth., egg Anth., egg Anth., egg Anth., egg Anth., nut	Arthur Ciroux. La Compagnie de Cl Phoenix & Girard Evans Bros		- G & & C -
Hull Pherville		Anth., erge Anth., erge Anth., erge Anth., mut Anth., mut Anth., mut	Truff Coll Co. J. Donagliy. S. Bourgeois. G. P. Marcotte. G. P. Marcotte. A. F. Ralston.		-ယောဘတတတတ
Lachine " Lachute " Lacotle Inamigration Office Laprairie Post Office	in Office	Anth., egg. Anth., nut. Anth., egg. Anth., stove. Anth., egg.	Mar'in Cie. Martin Cie. R. Croswell. J. E. Martin Demers & McGee.		∞ ∞ ∞ ∞ ι~

82228888888888888888888888888888888888	5	22.22.22.22.22.22.22.22.22.22.22.22.22.	
88 99,474 77 77	%r=12r00400000000	66666666666666666666666666666666666666	

L'Assomption.	 Experimental Farm.	" Anth., nut Anth., furn	Demers & McGee Chas. Rho La Cie Coderre et Fils.	
: 3 3	Dairy Cattle Barn	Construction of	Clarke & Stewart. Poudrier & Boulet. I A CLARE & CLARE	
Levis.	Post Office	Coal per ton—Anth., egg.	Eabrecque & Carette Thomas Willette	Jan. 11, 1917.
, , , , , , , , , , , , , , , , , , , ,			Thomas Millette	
Louiseville	3	" Anth., egg.	L. A. Plante	
Magog			J. H. Perey & Son.	
Marieville		Anth., nut.	W. 15. Poulin	
Matane		April., egg.	J. A. Bonlax.	
Megantic	:	" Anth., egg.	A. H. Evans	
Montmagny	3	Anth., egg	Canadian Import Company	
Montreal	Custom House	Auth., furn	Evans Bros.	
	Examining Warehouse	Bit.	A. Baile	
3	New Examining Warehouse	" Anth., furn.	Evans Bros.	
3 3	P.O. Station "A".	Anth., egg	Evans Bros.	
: :		Anth., egg.	Evans Bros.	
:		. Anth., egg	Evans Bros.	
		Anth., egg	Evans Stos.	
		Auction CES.	Evans Dros.	
		Anth form	France Drose	
3		" Anth egg	Evans Bros	
"		Anth., egg.	Evans Bros.	
3	:.X:	" Anth., furn	Evans Bros.	
	. Herald Building.	Anth., egg.	Evans Bros.	
	D D111:	Anth., nut	Evans Bros.	
3	Forestry Branch	" Anth, egg	Evans Bros.	
77	Detention Hospital	Anth., furn.	Evans Bros.	
"		" Anth., stove	Evans Bros.	
		Alterations to Heating Plant.	Thomas O'Connell	Aug. 22, 1916.
, , , , , , , , , , , , , , , , , , , ,	-Postal Mathon "A" F	Freight Elevator	The Turnbull Elevator M'f'g. Co. Ltd	Oct. 17, 1916
	Examining Warehouse.	Alter, and additions to fittings	Houry Morgan & Co. 14d	Jan. 11, 1917.
Murray Bay		Coal per ton—Anth., egg.		
Misselled		Anth., nut	_	
Pierreville.		Anth., egg	Shooner & Commune	
D	- Ja	٠ 🖵	The Solex Company Limited	April 11, 1916.
Chebre	Custom House	Coul per ton—Anth., egg	Conding Image Commun.	
3 3	Marine Agency	Anth., furn	Labreeque & Carette	
	Examining Warehouse. Immigration Hospital	" Anth., furn	Canadian Import Company	
		" Anth., stove		

STATEMENT No. 1.—Contracts let by the Department of Public Works of Canada, from April 1, 1916, to March 31, 1917—Continued.

Amount.	8 cfs	8 2 3 3 4 4 4 4 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Date of Contract.	Dec. 20, 1916 Dec. 1, 1916	
Names of Contractors.	Canadian Import Company. Canadian Import Company. Canadian Import Company. Laborcque & Caretto. Laborcque & Caretto. L. D. Smith. J. H. Chevrier. J. H. Chevrier. Canadian Import Company. Ned. Talbot. (C. P. Marcotte. P. A. Potvin. Kathan & Hopkins. C. H. Flannand. The Independent Coal Co. Le Goderre & Fills. Leclaire & Son. O. C. Glen.	Labrecque & Carette. Labrecque & Carette. Evans Bros. A. Cadorette. S. G. Laviolette. J. Donaghy. J. Donaghy. P. Brossurd. P. Brossurd. Fivans Bros. Canadian Import Company Canadian Import Company A. Blanchard. A. Blanchard. A. Blanchard. M. Moody & Sons.
Works.	Public Building—Continued. Quebec—Concluded. Quebec—Concluded. Quebec—Concluded. Weights and Measures. "Anth, furn. Anth, egg. Richmond. "Anth, egg. Rigand "Anth, egg. Riberval Roberval Roberval.	New Anne de la

8 30 7 50 87,500 00 7 50 8 50 6 93

Thetford Mines Three Rivers. Valleyfield Victoriaville Westmount	Public Building. Post Office.		Construction of Anth., egg Construction of Anth., egg Coal per ton—Anth., egg Anth., egg	Anth, egg. Anth, egg. Anth, egg. Anth, egg.	A. Blais. L. Marchand & Son. Jos. Bourque. A. Langavin. J. E. C. Gironx. L. Evans Bros.	Feb. 22, 1917	1917.
		Ontario.		:	7		
ActonI	'ost_Office	Post Office	out per ton-	-Anth., stove	J. C. Hill.	:	:
Alovandria	: 3		: 3	Anth., nut	Morris Bros.		
Almonte	,,		**	Anth., egg.	Taylor Bros.		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	;		:	Anth., nut	Taylor Bros.	:	
Amherstburg	3 3		: 3	Anth., furn	Palls-Barron ('o	:	:
Arnprior	: 3		: 3	Anth. egg.	P. S. Drysdale		: :
Athens	13		:	Anth., furn	E. J. Pureell.		
Aurora	3 3		3 3	Anth., egg	B. F. Davis	:	:
	: :		: 3	Amth., nut	Count Rend	:	:
Barrio	:		:	Anth. egg	The Sargeant Company.		
27	,,		:	Anth., nut	B. Purker		
Belleville	"		3	Anth., stove	Downey Coal Company		-
Berlin	3 :		: :	Anthu, egg	Geo. Braum	:	:
	; ;		: :	Anth., egg	17. 12. 17. 17pe.		
D	: 7		: 3	Antho, ogg	Mochief & Company	:	:
bowmanyllle	, ,,		:	Anth, stove	E. W. Loscombe		:
Braeebridge	"		;	Anth., stove	Geo. W. Ecclestone		
Brampton	"		\$ -	Anth., stove	Brampton Coal Company	:	-
:	a 5.1.1% 12.43	Doctors Doctors	olesatuia minim	Colored and minimum and littings	Brampton Coal Company	0.01 0.0 1016	1016
Brantford	ost Office		Coal per ton—	-Anth., egg.,		1 1	
: :	1				E. Benner & Sons.		
Brockville	3 :		,,	Anth., egg	Brockville Lumber Company	:	:
Burford	: :		: :	Anthu, stove	Brockvine fumber Company		
Cardinal	3		Painting and decorating of	decorating of		Jan. 2	1917.
9,9	3		Iot air heati	Hot air heating apparatus for			2, 1917.
	3 3		Fittings		:		1917
Carleton Place	ost Office	Office	Fiedrine Wiring Coal per ton—	Coal per ton—Anth. egg.	Taylor Bros.	. :	1317
Chatham	**				1. R. Crow		
Chesley	3 :		: :	Anth., egg	Patchell Bros.	:	:
Clinton	3 3		: :	Anth, egg	M. & M. Forbes	:	:
Cobourg	:		:	Anth. egg.	Geo, Plunkett.		
	mmigratic	Immigration Office	3 7	Anth., nut	Thompson Maedonald Company.	:	-
Collingwoodrost Office	ost Office		; ;	Anth., nut	Loner & Gregory		

8 GEORGE V, A. 1918

N.	Works.	Names of Contractors.	Date of Contract.	Amount.
PUBLIC BUILDINGS—Continued Ontario—Continued.	'entinued . tinued .			e ets.
Collingwood Public Bailding.	Customs fittings Coal per fon—Auth, egg. Fittings. Auth, form Auth, form Anth, form Anth, form Anth, aut Anth, egg. Anth, aut Anth, egg. Anth, aut Anth, stove Anth, aut Anth, aut		Мау. 9, 1916. Aug. 25, 1916	20
Hamilton. Weights and Measures. Hamover. Post Office. Harriston.	Anth., egg. Anth., egg. Anth., egg. Anth., nut. Anth., nut.	Thos. Myles & Sons. Thos. Myles & Sons. W. H. Eydt. John Howes.		6 6 4 5 6 6 4 5 6 6 4 5 6 6 4 5 6 6 6 4 5 6 6 6 6

	" Anth., egg " Bit., nut " Anth., nut " Anth., nut " Anth., ut Coal per ton—Anth., lum " Anth., egg " Anth., nut " Anth., egg " Anth., ut " Anth., egg " Anth., ut " Anth., ut	Scott & Daniels Scott & Daniels Scott & Daniels Soott & Daniels Sort & Daniels W. Patterson M. M. McLaughlin J. W. Wilson J. W. Wilson J. W. Wilson S. Anglin & Company	Feb. 14, 1917.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
	Building for Riding School—Construction of Coal per ton—Anth egg.	Kingston Construction Company, Limited W. J. Charlton	July 24, 1916.	29,000 00
2 2 2 2		W. J. Charlton. D. Smith. D. Smith. Flavelles, Ltd. Flavelles, Ltd		88444 88444 890 890 890
Listowell	Anth., egg Anth., nut Anth., egg Anth., egg Anth., egg Anth., egg.	R. Oliver R. T. Kemp & Son Chartler Bros. R. Welsh		7 00 7 15 6 86 6 86 7 90
Midhand	" Anth, egg " Anth, nut. " Anth, egg " Anth, egg " Anth, egg " Anth, egg	The Sarjeant Co. The Sarjeant Co. Alex. Kramer. Blain & Hannant. J. G. Hamilton.		7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 9 0 9 9 9 9
Mitchell	Anth., furn	R. J. Cook. R. J. Cook. G. G. Brebber. F. E. Vanluven.		8 8 77 77 77 8 8 8 72 72 9 8 8 8 72 72 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
" " " " " " Wa" " " " " " " " Gre Niagara Falls " " " " " " " " " " " " " " " " " "	Waterproofing basement wall of. Fencing property of. Grading, paving, etc. Coal per ton—Anth., furn "Anth., nut "Anth., iurn "Anth., iurn "Anth., iurn	Geo. Lewis. Geo. A. Cliff. Geo. A. Cliff. Geo. Dilver Dilke. W. E. Thomas. North Bay Fuel Company. C. Wilcox.	July 18, 1916. Aug. 15, 1916. Aug. 15, 1916	1,350 00 790 00 4,650 00 7 00 6 60 7 60 6 60 7 60 6 55
OntarioPublic Buildings generallySup	Anth., Stove. Ings generally Supply of 200 Four cap drawer Cabinets	Office Specialty M'f'g Company, Ltd	Sept. 5, 1916.	8,630 00

STATEMENT No. 1.—Contracts let by the Department of Public Works of Canada, from April 1, 1916, to March 31, 1917.—Conlinued.

Amount.	& G. S.	2, 650 00 6 70 7 25 7 25 7 25 7 35 7 45	41,915 00	27,990 00 1,502 00 275 00 85,757 50	3,027 00	642 00 885 00	1,086 00 1,746 00 1,760 00 2,500 00	2, 228 00	462 00	Aug. 28, 1916. Aug. 29, 1916. Sept. 2, 1916 Cost plus 20% plus 10% Sept. 11, 1916. 10.50 (per 1,000)
Date of Contract.		Nov. 7, 1916	May 22, 1916.	May 22, 1916. May 23, 1916. May 19, 1916. June 13, 1916.	June 13, 1916.	July 8, 1916. July 11, 1916.	July 10, 1916. July 24, 1916. Aug. 2, 1916.	Aug. 14, 1916.	.Лак. 28, 1916.	Aug. 28, 1916. Aug. 29, 1916. Sept. 2, 1916. Sept. 11, 1916.
Names of Contractors.		The Berlin Interior Hardwood Company, Ltd. C. G. S. Hannah. S. E. Carrs Lumber Company. B. Y. Lander W. Merritt	The Steel Equipment Company, Ltd	Office Specialty MTg Co., Ltd., The Steel Equipment Company, Ltd., John Heney & Son, Ltd.	Office Specialty MTE, Co., Ltd	The Steel Equipment Company, Ltd	Dennis Wire & Iron Works Co., Ltd	Office Specialty MTg Co., Ltd	The Steel Equipment Co., Ltd.	Museum Museum Museum Museum Museum Museum The Steel Equipment Co., Ltd. Aug. 28, 1916 1,745 00 1,745
Works.	Public Buldings—Continued. Ontario—Continued.	Ontario, Post Offices generallySupply of Sorting cases Orangeville	Ottawa Ustoms Examining Warehouse (Sussex St.)	(Sussex St.). Naval Service. Neverlary of State Dept. Public Buildings.	Branch)		Central Relivery Co Finance Der		Defence DeptOffice)	National Memorial (National Actional Depurtments generall "" "" "" "" "" "" "" "" "" "" "" ""

SESSIONAL	PAPER	No.	19

1 85 p. brl. 1 60 p. ton. 3 70 p. ton. 4,752 50 7 50 7 75 7 50	12,997 00 87cup to \$4,000- 000 & 7% for further mil- lion and no commission above \$5,000,00	3 70 p. ton.	9,895 00	Sched. of rates. 398 00 4,195 00	1,475 00 1,195 00	106 00 р. ton.	3, 639 90 639 90 7 15 8 8 20 1, 228 80 7 1 25 7 7 50 8 25 7 7 50 8 25 8 25 8 25 8 25 8 25 8 25 8 25 8 25
Sept. 11, 1916. Sept. 11, 1916. Sept. 11, 1916. Sept. 13, 1916. Sept. 19, 1916.	Sept. 29, 1916. Sept. 29, 1916	Sept. 29, 1916.	Oct. 19, 1916.	Dec. 9, 1916 Dec. 20, 1916 Jan. 2, 1917	Jan. 11, 1917. Jan. 11, 1917.	Jan. 29, 1917.Mar. 12, 1917.Mar. 13, 1917.	Mar. 23, 1917. Mar. 23, 1917. Nov. 23, 1916.
Alfred Rogers, Ltd. sined Howard Roek. sand dand Canada Cement Co., Ltd The Canadian Tungsten Lamp Co., Ltd	Office Specialty Manufacturing Co., Ltd Sept. 29, 1916. P. Lyall & Sons Cons. Co., Ltd Sept. 29, 1916	pean Foran & Thibault	F. H. Catheart & E. Webster	10f The Ottawa Electric Company. The Steel Equipment Co., Ltd. Office Specialty MTg Co., Ltd.	The Steel Equipment Company, LtdOffice Specialty MTz Co., Ltd	tons The Dominion Bridge Co., Ltd sand Nepean Sand Stone Quarries, Ltd sund Campbell McKee & Williams	The Steel Equipment Company, Ltd. Garrioch Godard & Company. Davis-Smith-Malone Company. E. B. Warren. The Berlin Interior Hardwood (°o., Ltd. Nov. 23, 1916. Paris C. & L. Company. Wm. Leary. Dunlop & Company.
	" Hallding) Manufacturing Co. Balldings Manufacturing Co. Balldings Manufacturing Co. P. Lyall & Sons Cons. Co., Ltd	3	Experimental Farm (F	" Government Buildings Supply of electric current for Interior Department Filing cases Militia & Defence Steel sections.			" "" "" "" "" "" "" "" "" "" "" "" ""

Statement No. 1.—Contracts let by the Department of Public Works of Canada, from April 1, 1916, to March 31, 1917—Continued.

Amount.	& cts.	28 88 88 88 88 88 88 88 88 88 88 88 88 8
Dafe of Contract.	-	Ачж. 1, 1916.
Names of Contractors.		Dunlop & Company. H. B. Taylor & Son. Hepburn Bros. Whitehead Ltd. Dr. W. Carter E. Brown & Company. C. L. Vickery. I. W. Plumb & Son. Jas. Gillies & Son. Jos. Bourque E. Bown. Sault Ste. Marie C. & W. Co. E. L. Box. R. A. Jelly. Thos. Graham. H. A. Crate.
	s—Continued. ntinued.	Anth., mat. Anth., egg. Anth., egg. Anth., nut. Anth., nut. Bit. Bit. Anth., nut. Anth., egg. Anth., egg. Anth., nut. Anth., egg. Anth., egg. Anth., nut. Anth., egg. Anth., nut. Anth., etg.
Works.	Public Buildings—Continued Ontario—Continued.	Penbroke Post Office

77 79		" Anth., nut	"	
Stratford		Anth. egg	Frebeg & Heagy.	
Strathrov "		" Anth furn	R M Pincombe	
"		" Anth nut	79	
Sudbary		" Anth fum	Sudbury C. & W. Co	
,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,		" Anth mut	Suddouts C. W. Commercial	
At Cothograph		" Anthone	I D Chaplin	
2t Money		Anth can	A Degree of	
, c. man y 5		4 Anth. 586		
A Thomas		Anth one	M B Johnson & Son	_
Poronto Custom	House	Croto	D Rugas & Co	
TOTOLING	TIOUSE	Grate	L . Dutins & Co	
3		Auth., nut		
F	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	D10		
		Anth., stove	F. Burns & Company	
		Anth., egg		
		" Bit		
" Examin	Examining Warehouse	" Anth., grate	***************************************	
:		" Bit	3	
"Post Of	Post Office.	" Anth., egg.	***	
"		" Anth. grafe	3	
77		" Anth nut	3	
23		the Dist		
3	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	3310		
	oz Adelaide St	Anth., egg	***************************************	
	Station "C	Anth., egg		
		" Anth., egg		
		" Anth., egg		
3	· · · · · · · · · · · · · · · · · · ·	" Anth., nut	3	
"	, "C.	" Anth. egg	:	
33		" Bit	•	
3	",", "	" Anth. egg.	3	
77		" Anth nut	•	
3	99 Adelaide St	" Anth ogg	3	
33	zz Auelaiue St	MILLING CEED		
		D16		
		Anth., egg		
		" Anth., nut		
"	P. O. Garage	" Anth., egg		
"		" Bit	3	
	Post Office (59 Victoria St).	" Anth., egg	***	
**	3	" Bit	***	
renton		" Anth furn	T. H. Gothart.	
**		" Anth nut	B. W. Powers & Son	
Uvhridge		" Anth ogg	Jones Hardware Co.	
3		Anth. nut	3	
Walkerton		" Anth furn	Alox Goorge	
Walkerzille "		Anth one	W Woollatt	
the state of the s		Anth put		
W. atambas		:	Montin Doidal	
Water100		Anth, egg.	WELLIN Deluction	
747-111-14		:	WIR I DOKK	
Weiland		whith, stove	To D Diem	
whitby			. E. K. Blow.	7

STATEMENT No. 1.—Contracts let by the Department of Public Works of Canada, from April 1, 1916, to March 31, 1917—Continued.

Amount.	& ets.	77 77 77 74 75 75 75 75 75 75 75 75 75 75 75 75 75	$\begin{array}{l} 5 \times 1 \times 4 = 0.11200 \times 0.2110 \times 11110 \times 0.011 \times $
Date of Contract.			
Names of Contractors.		Anth., nut. E. R. Blow. J. A. McLean Anth., nut. Anth., egg.	Anth., stove. Morth American Collieries. Anth., stove. Bir-Can. Anth., egg. Anth., egg. Anth., furn. Bir. Anth., furn. Bir. Anth., egg. Western Coal Co. Bir. Anth., furn. North American Collieries. Anth., egg. Anth., egg. Western Coal Co. Anth., egg. North American Collieries. Anth., egg. Anth., egg. Anth., egg. Anth., egg. Western Coal Co. Anth., egg. Western Coal Co. Western
Works.	Public Buldings—Continued. Ontario—Concluded.	Whitby: " Wingham: " Anth, furn. Anth, nut. Woodstock: " Anth, egg. Anth, egg.	Brandon Experimental Farm Goal per ton—Anth, stove

11 85 81 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	282, 629 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	13 50 6 55 6 55 7 6 55 7 6 6 6 8 50 8 50 8 50
	Sept. 29, 1916.	
Western Coal Co. North American Collicries. Standard Supply & Fuel Co. J. G. Hargrave & Co. Western Coal Co. J. G. Hargrave & Co.	Athabaska Feed Co Atlas Lamber Company. F. W. Mapson & Co Northancrican Collieries. Sept. 29, 1916. A. D. McComnack. Crown Coal Co North American Collieries. C. H. Dunlop. H. A. Day. City Cartage Company. North American Collieries. North American Collieries. Steve Jones. Steve Jones. Steve Jones. Steve Jones. Steve Jones. Steve Jones. Steve Jones.	North American Collieries. North Battleford Manufacturing Co. North American Collieries. T. D. Munro.
Anth., egg. Bit. Anth., egg. Anth., egg. Anth., egg. Anth., egg. Anth., egg. Bit. Anth., egg. Anth., egc.		ton—Anth., egg
2 2 2 2 2 2 2 2 2	Coal per ton " " " Construction Coal per ton " " " " " " " " " " " " " " " " " " "	Joal per " "
Virden " Winnipeg Immigration Hall No. 1 6 " 1 No. 2 No. 2 No. 3 1 No. 3 2 No. 3 3 No. 3 4 No. 3 6 No. 3 6 Oldb. 7 Nowe Examining Warchouse 8 Postal Station "B" 1 Postal Station "B"		Battleford Post Office Coal per ton—Anth., egg. Bit Anth., egg. " (North) " Anth., egg. Bit Bit Bit Bit Estervan Post Office Lignite Lignite

STATEMENT No. 1.—Contracts let by the Department of Public Works of Canada, from April 1, 1916, to March 31, 1917—Continued.

	Amount,	\$ cts.	8 29
	Date of Contract.	June 24, 1916.	
	Names of Contractors.	Anth., stove North American Collicries. Bit., cag. Bell & Dohm. Anth., nut. James Conn. Anth., nut. James Conn. Anth., furn. " Anth., furn. " Bit. North American Collicries. Bit. A. A. Moncley & Co. Bit. A. A. Moncley & Co. Bit. Anth., egg. W. Jammah. Anth., egg. Morth American Collicries. Month. Bit. Anth., egg. Multimore Bros. Month. Anth., egg. Month. Month., egg. Month. Anth., egg. Bit. Anth., egg. C. S. Hiltgen & Co. Bit. C. S. Hiltgen & Co. Bit. C. S. Hiltgen & Co.	Prince Rupert L. C
	Works.	Concluded. Coal per ton— """ """ """ """ """ """ """	WadenaImmigration Building Bit

7 45 8 50 14 00	9,757 00 855 00 300 00 185 00	125 00	Schedule of prices 0 28	0 30 0 30 Schedule of prices. Cost plus 10% Schedule of prices.	Schedule of prices. 51,500 00 09			
	Oct. 30, 1916 June 19, 1916 Aug. 9, 1916. May 6, 1916	Nov. 30, 1916.	June 14, 1916. Nov. 29, 1916.	o. Ltd June 22, 1916. o. Ltd July 15, 1916 Nov. 14, 1916 Nov. 27, 1916 Dec. 22, 1916.				
Bit	uinting of dome	The Office Specialty M'f'g. Co., Ltd.	Roger Miller & Sons, Ltd June 14, 1916. The Coastal Dredging & Cons. Co. Ltd Nov. 29, 1916.	The Northern Dredging & Cons. Co. Lt The Maritime Dredging & Cons. Co. Lt " " D. C. Clark J. E. Kane & W. T. Ring	The Laurentide Co., Ltd Dec. 28, 1916.			
omigration Building	Ashcroft Construction of Little Saanich (Victoria)	The following item was received too late for insertion in last year's annual report (1915-1916). OttawaIrrigation BranchSteel Cabinets	Nova etc	St. John (West) Back filling and retaining wall " "Shifting of filling. " " Wooden shed on pier No. 1— Berth 16 Construction of 1—Berth 16	Grand'Mere FallsConstruction and Maintenance of log slides, etc Laprairie			

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Amount.	eta.	1 30 approximate price	\$16,188.49 0.42 0.18 0.12 0.12 Selectule of prices.	0 25	Schedule of prices. 44, 994-00	Schedule of	prices.	:
Dute of Contract.		July 13, 1916. 1 30 Oct. 5, 1916. approximate	July 20, 1916. May 29, 1916. June 10, 1916. Nov. 23, 1916. Nov. 2, 1916.	July 8, 1916.	Aug. 15, 1916. May 2, 1916.	May 1, 1916. Schedule of	1916 1916 1916 1916 1916 1916 1916 1916	. 1, 1916.
Names of Contractors.		The Thunder Bay Contracting Co. Ltd	The Great Lakes Dred'g Company Ltd The Randolph Macdonald Co. Ltd Confederation Cons. Co. Ltd The Great Lakes Dred'g. Co. Ltd M. J. Hogan	The Pacific Dredging Co. Ltd	Marsh-Huffon Powers Co. Ltd Aug. 15, 1916 Scheduld prices	Quebec R. E. Boyd and Company	Builders Sales Ltd. Chadyer Tire & Rubber Goods Co., Ltd. Goodyear Tire & Rubber Goods Co of Cunda, Ltd. Canadian Consolidated Rubber Co., Ltd. Canadian Fairbanks Morse Co., Ltd. The Garlock Packing Co.	The Ottawa Paint Works Limited
Works.	Harbour and Rivers—Continued. Ontario.	Fort William (Mission River)	Crand River Dredging	Palse CreekDredging (additional) Class "B" per cabit yard	Crusser Continuation of jetty Continuation of	VESSELS DREDGES AND PLANTS. Supply of brooms and brushes for departmental dredging plant for Ontario & Quebee for 1916-17.	Supply of hurdware for departmental dredging plant for Ontario & Quebee for 1916–1917. Builders Sales Ltd. Supply of hose for departmental dredging plant for Ontario & Quebee for 1916–1917. Duniop Tire & Rubber Goods Co., Ltd Supply of hose for departmental dredging plant for Ontario & Quebee for 1916–1917. Goodyear Tire & Rubber Goods Go of Can-Supply of hose for departmental dredging plant for Ontario & Quebee for 1916–1917. Canadian Consolidated Rubber Co., Ltd Supply of hose for departmental dredging plant for Ontario & Quebee for 1916–1917. Canadian Pairbanks Morse Co., Ltd Supply of hose for departmental dredging plant for Ontario & Quebee for 1916–1917. The Gardock Packing Co Supply of packing for departmental dredging plant for Ontario & Quebee for 1916–1917. The Gardock Packing Co	for 1916-1917.

" 1, 1916. " " 1, 1916. " " 1, 1916. " " 1, 1916. " " 1, 1916. " " 1, 1916. Schodulo of	prices.	6 15 milite in 15	0040 4000400 40000 8000 8000 8000 8000
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redging plant for New Brunswick and Nova Scotia dredging plant for New Brunswick & Nova Scotia dredging plant for New Brunswick & Nova Scotia dredging plant for New Brunswick and Nova Scotia dredging plant for New Brunswick and Nova Scotia dredging plant for New Brunswick and Nova Scotia The Garlock Packing Company. The Garlock Packing Company.	tental dredging plant for Prince Edward Island for The Rogers Hardware Co., Ltd. The Rogers Hardware Co. of Can., Ltd. The Rogers Hardware Co. of Can., Ltd. The Rogers Hardware Co., Ltd.	redging plant for Prince Edward Island for 1916 redging plant for Manitoba for 1916–1917 degrage plant for Manitoba for 1916–1917 redging plant for Manitoba for 1916–1917 redging plant for Manitoba for 1916–1917 redging plant for Manitoba for 1916–1917 The Standard Paint & Varnish Co. Ltd. Andrew Baile	redging plant for Quebee for 1916–1917, per 10n. redging plant for Place for 1916–1917, per 10n. redging plant for Place Rivers, Que., for 1916–1917, per ton. redging plant for Verdun, Que., for 1916–1917, per ton. redging plant for Verdun, Que., for 1916–1917, per ton. Cedging plant for Haileybury, Ont., for 1916–1917, per ton. Cedging plant for Haileybury, Ont., for 1916–1917, per ton. Ottawa Transportation (°°, Ltd. dredging plant for Port Burwell, Ont., for 1916–1917, F. P. Weaver Coal (°°), Ltd.
Supply of steampipes, valves & fi Quebec for 1916–1917	Supply of brooms and brushes island for 1916–1917. Supply of hardware for departm 1916–1917. Supply of hose for departmental d Supply of Packing for departmental 1917. Supply of Packing for departmental 1917.	Island for 1916-1917. Supply of Wire rope for departmental d. Supply of hose for departmental d. Supply of packing for departmental d. Supply of paints and paint oils for 1917. Supply of coal for departmental dra	Supply of coal for departmental di Supply of coal for departmental di Supply of coal for departmental di Per ton. Supply of coal for departmental di Supply of coal for departmental discussions.

STATEMENT No. 1.—Contracts let by the Department of Public Works of Canada, from April 1, 1916, to March 31, 1917—Continued.

Works.	Names of Contractors.	Date of Contract.	Amount.
Vessels, Dredges and Plant—Concluded.			\$ cts.
	P. P. Weaver Coul Co., Ltd	May 1, 1916.	3 33
Supply of coal for departmental dredging plant for Sturgeon Falls, Ont., for 1916–1917, Ber ton Supply of coal for departmental dredging plant for Bathurst, N.B., for 1916–1917, p. ton. F. P. Elkin.	E. P. Elkin.	" 1, 1916. " 1, 1916. " 1, 1916.	5 5 90 5 90 5 90
Supply of coal for departmental dredging plant for Shippigan, N.B., for 1916-1917, Supply of coal for departmental dredging plant for Shippigan, N.B., for 1916-1917, Der fon	3	" 1,	6 40
lepartmental dredging plant for Campbellton, N.B., for 1916-1917, constructed dredging plant for Causo, N.S. for 1916-1947, ner ton.	R. K. Shives. A. N. Whitman & Son, Ltd	" 1, 1916. " 1, 1916.	5 50 5 00
Supply of coal for departmental dredging plant for Fort Lawrence, N.S., for 1916-1917, per ton.	W. A. Fillmore	, 1,	4 15
Supply of coal for departmental dredging plant for Liverpool, N.S., for 1916–1917, p. ton. Southern Sulvage Co., 14d. Supply of coal for departmental dredging plant for Mugrave, N.S., for 1916–1917, p. ton. A. C. Aucoin. Supply of coal for departmental dredging plant for Yetou, N.S., for 1916–197, p. ton. (Sammon & Weir.	Southern Salvage Co., Ltd. A. C. Aucoin. Gammon & Weir.		0 0 4 4 70 80 80 80 80 80 80 80 80 80 80 80 80 80
Supply of coal for departmental dredging plant for Charlottetown, P. E. L., for 1916-1917, per ton. Supply of coal for departmental dredging plant for Selkirk, Man., for 196-1917, p. ton.	Buntain Bell Co., Ltd	" 1, 1916. " 1, 1916.	3 00 6 60
Supply of coal for departmental dredging plant for Winnepegosis, Man., for 1916-1917, per ton	The Winnipeg Supply & Fuel Co., Ltd	" 1, 1916.	7 80
departmental dredging plant for Ontario and Queboe,	The British American Oil Co., Ltd	17, 1916.	0 38
	The British American Oil Co., Ltd	. 17, 1916.	0 10½
	The Imperial Oil Co., Ltd	17, 1916.	0 533
o "		" 17, 1916.	0 02,00
dredging plant for Ontario and Quebee, for 1916-1917,	McCool Bros. & Company	" 17, 1916.	0 151
Supply of compression grease for departmental dredging plant for Ontario and Quebec, for 1916-1917, per lb		" 17, 1916.	0 02
lepartmental dredging plant for New Brunswick and	The British American Oil Co., Ltd	" 17, 1916.	0 36
Supply of Coal oil for departmental dredging plant for New Brunswick and Nova Scotia, for 1916-1917, per gal	" " " " " " " " " " " " " " " " " " "	, 17, 1916.	0 18

90 0	0 54}	0 03	80 0	0 38	0 54}	0 03	\$61.0	£90 0	80 0	0 50	0 561	0 03\} 0 20	0 07	6 15	3 79	4 79	6 05	4 37	5 55	6 60 3,000 00 Unit prices. 7,024 93
17, 1916.	17, 1916.	1916.	1916.	1916.	1916.	17, 1916.	1916.	1916.	17, 1916.	17, 1916.	1916.	1916. 1916.	17, 1916.	1916.	1916.	1916.	1916.	1916.	1916.	1916. 1917. 1917. 1917.
, 17,	" 17,	" 17,	" 17,	" 17,	" 17,	" 17,	" 17,	" 17,	" 17,	" 17,	" 17,	" 17, " 17,	" 17,	ŗ,	" 5,	ά 5,	, 5	e,	e,	Sept. 27, Jan. 27, Feb. 15,
	:	<u>.</u>	<u>.</u>	-		-	.	<u>.</u>						June	<u>.</u>	.	· ·	*	•	
Supply of compression grease for departmental dredging plant for New Brunswick and Nova Scotia, for 1916-1917, per lb. Supply of Marine engine oil for departmental dredging plant for New Brunswick and	Nova Scotia, for 1916-1917, per gal. Supply of chain and cable grease for departmental dredging plant for New Brunswick	and Nova Scotia, for 1916-1917, per lb. Supply of tallow for departmental dredging plant, for New Brinswick and Nova Scotia	for 1916-1917, per lb. Canadian Oils Companies, Ltd. Supply of Marine evlinder oil for departmental departmen	for 1916-1917, per gal. Sumply of Marine engine oil for departmental dendering about for Prince Edward Island	for 1916-1917, per gal. Supply of chain and cable greese for denartmental dredening along for Prince Petwered.	Island, for 1916-1917, per lb. Supply of coal oil for departmental dredeing plant for Prince Edward Island for 1916.	1917, per gal. Supply of compression grease for departmental direction along for Period Bros. & Co.	for 1916-1917, per lb Supply of Tallow for departmental dredeing plant for Prince Edward Island for 1916.	1917, per Ib. Supply of Marine evlinder oil for departmental dradeing ulant for Manitoka for 1916.	Sumby of Marine engine of for demortance and depote the for Manipals f	Pref. 21. Supply of cliain and cable greass for departmental developmental development for Manitoles for	1916-1917, per lb. Supply of coal of departmental dredging plant for Manitoba, for 1917, per gel. Canadian Oils Companies, Ltd. Supply of commercial for departmental dredging along the Manitoba of the Supply of commercial for for 1916.	Supply of 200 tons of coal for departmental dradering plant for Chicacteria; One for	1916-1917, per ton. Supply of 1.500 tons of coul for departmental develuence when for Montreal One for	1916-1917, per ton. Supply of 800 tons of coal for departmental draderner plant for Ondrae for 1016-1017	per ton. Supply of 200 tons of cond for demartmental directering plant for Rimonski One for 1016.	Supply of 575 tons of east for departmental developmental for Three Pives One for	Supply of 125 fons of coal for desarthmental discharation but for Vordan One, for 1016, 1017	per ton. Supply of 500 tons of coal for departmental dredwing about for Towis One for 1016-1017	Pierre Robitaille. Construction of boiler for Dredge "P. D.W. No. 129" Construction of boiler for Dredge "P. D.W. No. 129" B. C. Marine, Limited Supply of timber for Dredge "P. W. D. No. 125" Mason Gordon & Company

8 GEORGE V, A. 1918

77.25		Date	
M OFRS.	Names of Contractors.	of Contract.	Amount.
Govbriment Telegraph Sprayer.			
Preighting of supplies for Yukon Telegraph Line at Hazelton, B.C., per lb. Geo. M. Beirnes Smaly and deliveres of the brots of Schonomic Colla, at Dalfac, W.C., per lb J. F. Callbreath	deo. M. Beirnes.	May 12, 1916. 0 17	0 17 0 11 58 0 11 58
pply of 163, 500 lbs. of Telegraph wire for Government Telegraph Lines at Kamloons	loops.	July 5, 1916.	12, 165 00
and Vancouver, B.C.	The Steel Co. of Canada, Ltd.	. 31, 1916, 10, 273, 50	10.273.50

SESSIONAL PAPER No. 19

STATEMENT No. 2.—Properties purchased or sold by the Department of Public Works of Canada from April 1, 1916, to March 31, 1917.	Price.	\$ ets. \$ 14,122 30 00 14,122 30 00 300 00 50 00 100 00 77,000 00 77,000 00 100,000 00 65,000 00 65,000 00	41 50
	Area.	\$ et 3.46 acres. 14,122 3 0.6 ucre. 300 (0.28 acre. 50 (0.9 ucre. 50 (0.9 acre. 7,000 (7,000 (100,000	
	For what purpose.	McKellar Riv. Impvts 3.46 acres East River Imprvts 0.6 acre Site for wharf (New Lisk-20, 625 feet Right of way to wharf 0.28 acre Site for wharf 0.9 acre Timiskaming Reservoir Dam Site for Public B'ld'g Site for new Dept. B'ld'g "" Site for wharf "" "" Site for wharf " "" Site for wharf "" "" Site for wharf "" "" Site for wharf	Timiskaming Reservoir Dam
	Description of Property.	Sale of parts of lots Nos. 6 and 7, Fort William (MeKellar Riv., Ont). Sale of land on west side of East River, Stonehouse Point, N.S. Transfer of part of lot No. 9, 1st Con, Tp.: of Dymend, Ont. Sale of land at Spry Bay, N.S. Sale of land at Malignant Cove, N.S. Sale of land at Malignant Cove, N.S. Release for all damages and claims in reflocing of lot No. 48, Tp. of Guigues, Que. Le Pas, Man. Let Pas, Man. Sale of scrap mertal from Farlt, B'ldgs., Ottawa, Ont Release for all damages and claims in reflectase for all damages and salms in reflect of bearon site, etc., St. Francois du Lac, O. Sale of lots Nos, 25 and 26, Kent St., Ottawa, Ont., and lots No. 27 and 28 Wellington St., Ottawa, Ont. Sci., Ottawa, Ont. Outawa, Ont. Outawa, Ont. Outawa, Ont. Subale of lots Nos, 19 and 20 Vittoria St., Conveyance of lot No. 4, south side of Vittoria St., and parts of lots Nos. 39 and 31 north side of Wellington St., Ottawa, Ont. Sci., Ott	of Duhamel, Que
	Purchasers.	His Majesty	
	Vendors.	Webb & Bradburn Geo. Chisholm Finiskanning & Northe Railway Commission. C. H. Henley & al. T. K. Sevoril. J. D. McEachern. J. Bedard. J. Bedard. His Majesty Emma Ayhner Arthur Lachapelle J. Manuel. A. A. Fournier, Ltd. G. H. Gennmill. F. B. McLaren et ux. loseph Houle	
STATEMENT N	Date of Conveyance.	April 1 " 10. " 16. " 28. " 29. May 2. " 17. " 17. " 25. " 31. " 1 .	

Statement No. 2.—Properties purchased or sold by the Department of Public Works of Canada from April 1, 1916, to March 31, 1917.—Continued.

	3. Purchasers. Description of Property. For what purpose. Area. Price,	" " " " " " " " " " " " " " " " " " "	His Majesty Sale of part of cust. 4 of lot No. 9, 5th con Timiskum, Reserv. Dam. 2·75 acre Transfer of backe, Ont Transfer of wharf site at Bayswater, N.B His Month of transfer of wharf site at Gaugetown, N.B His Month of transfer of wharf site at Gaugetown, N.B His Month of transfer of wharf site at Gaugetown, N.B His Month of transfer of wharf site at Gaugetown, N.B His Month of transfer of wharf site at Gaugetown, N.B His Majesty. His Month of transfer of wharf site at Gaugetown, N.B His Majesty. Dam. 2·75 acre His Majesty	His Majesty Release for all claims in re injuries caused by Taniskam, Reserv. Dam. Release for all claims in re death caused by an explosion. Release for all claims in re injuries caused by an explosion. Release for all claims in re injuries caused by an explosion. Release for all claims in re injuries caused by an explosion. Release for all claims in re injuries caused by an explosion.	Commiss. Sale of part of lot No. 9, 1st con., Tp. of Wharf at New Liskeard [0.47 aeres Dyment, Ont	part of lot No. 24, Hamilton, Out. Sale of piece of land at Terrance Bay, N.S. Right of way to wharf. Sale of land at Young's Cove, N.S. Release for all damages re part of lot No. 24, Hamilton, Out. Release for all damages re west ½ of lot No.	40, Itange 2, 1p. of Pabre, Que Thurskam. Reserv. Dam.
		" Release for damng sear, Bois Blanc, " Release for damng sear, Bois Blanc, lynoration of Sale of part, Que	is Majesty Sale of part of cast Tp. of Bucke, On form. Govern, Transfer of wharf's Transfer of wharf's				40, Kange 2, Tp.
1	Vendors.	Norbert Dupuis	D. McIntosh	klanger)	23. Temiskaming Northern, Ont., Railw. Commiss. 26. A. M. Andrews.	hite.	D. D
	Date of Conveyance.		" 16 " 20 " 20			July 3	18 "

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1,000 00	•	1 00	406 24	1 00 1 00		488 00	165 64		300 00	3,075 73		49 00 I 00	37 50 Free transfer.		Free transfer.	150 00 430 82 267 08		Free transfer.	144 UV
								13.75 acres			191 acres	0.77 acre		1 acre		0.146 acre		Free transfer.	
Public Building Site		N 200 D 135	TYCW Departs Dundings	New Depart. Buildings Post Office		Timiskam. Rese		э э	Timiskam. Reserv. Dam.	sion River 1	Timiskam. Reserv. Dam. 191 acres	ses	Boat landing Dry Dock	Site for wharf	Right of way to wharf 0.17 acre	Timiskam, Reserv. Dam. Wharf Latchford, Dam	Approae!	Telegraph Service	
Sale of land at Sydenham, Ont	Release for all damages caused by dredging at	₹		Cluit claim deed re certain streets and portion of streets, etc., Ottawa, Ont	Release for all claims and damages caused by flooding part of lot No. 35, Tp. of Guigues,	Oue. Release for all claims and damages caused by flooding part of lot No. 35, Tp. of Guigues,	Que. Sale of part of north $\frac{1}{2}$ of lot No. 8, Con. 2,	Tp. of Casey, Ont. Sale of parts of lot No. 45, Esquimait, B.C. Release for all claims and damages re flood- ing of lot No. 38, Range 3, Tp. of Guirenes	Que Sale of part, of lot No. 10 con. D. Isid. No.	2, Fort William, Ont. Sale of part of lot No. 8, Con. 5, Tp. of Harris,	OntRelease for all claims and damages re lot No.	63, Tp. of Fabre, Que	Sale of land at Bear Cove, N.S. Works Transfer of land at Tuff's Cove, Halifax, N.S. Dry Dock	Abandonment of land at Albert, N.B	Port Arthur. Grant of parcel of land at Port Arthur, Ont. is Majesty Sale of land at Weldford, N.B	Liskeard, Ont. Letters patent re water lot, Hudson, Que Sale of lot No. 190, Latchford, Ont. Exchange of land at St Generière de Betis.	can, Que. Exchange of land at St. Geneviève de Batis-	Pub. Wks. Dept Transfer of tract of land northeast 4 of sect. 30, Tp. 70, Calling River, B.C.	paid of faulti on trane introduk
,,		Corporation of the City of		His Majesty	*	3	;	3 3	33	"	"	the His Majesty		Corporation	Port Arthur	Dominion Gov'. His Majesty		Pub. Wks. Dept F. E. Clark	F. E. Ciona
31 A. Slavin & C. Slavin		7 His Majesty		Ortawa	David Cadieux (father)	David Cadieux (father and son.)	Daniel Dempsey	Certificate of TitleJoseph St. Germain	T. P. Kellv.	A. M. Andrews	A. Piche	The Corporation of the	S. Christian & al Naval Service	Notice of Abandonment His Majesty	C. E. McDonald et ux	sbee.		Interior Department His Maiestv	
31		7	t	,	11	12	13	1428	29	5	9	15	67	711	" 17 Nov. 2	5 × × × × × × × × × × × × × × × × × × ×	5	14	:
λ,	Shar	×	×	: :	×	×	"	3 3	"	Sept.	"	"	Oct.	3 3	" Nov	" Dec.	"	" "	

Statement No. 2.—Properties purchased or sold by the Department of Public Works of Canada from April 1, 1916, to March 31, 1917.—Continued.

			8 GEORGE V, A. 1918
Price.	\$ c18.	Free grant. 1 00 300 00 300 00 300 00	650 00 1,000 00 11,000 00 with 5% interest. 30 00 2,000 00
Area,	830-1 sq. feet	9-25 acres. 82 acres. 1 acre. 1 acre. 5.25 sq. ft. 6,578 sq. ft.	0-23 acre
For what purpose.	uinnalt tiscan, Approach to wharf 830-1 sq. feet	Harbour construction Timiskam, Reserv. Dam. Private enterprise Governm, Teleg, Office Site for wharf	Telegraph Office. What'f Teleg. Office. 3,926 ft. 650 00 Post Office extension. Government purposes. Site for wharf. Site for Public Building. 9.23 acre. 650 00 1,000 00 with 5% interest. 3,926 ft. 650 00 1,000 00 2,000 00
Description of Property.	vsWesternImpe- rial Co., Ltd., ('crtificate of judgment in re Esquimalt et al. Graving Dock. His Majesty Sale of land at St. Geneviève de Batisean, Que		Sale of part of lot No. 2617, North Bulkley, Telegraph Office. By Sale of part of river lot No. 4a, Le Pas, Man, Wharf Sale of Block "A", Sect. I, Clayequot, B.C. Teleg, Office. Sale of Back "A", Sect. I, Clayequot, B.C. Teleg, Office. Sale of machinery of old "Baker Laundry" Ottawa, Ont. Sale of tract of land at Quebec, Que. Sale of land at Bass River, N.B. Site for wharf. Site for Public Building.
Purchasers.	vs Western Imperial (°°), Etd., et al et al His Majesty	Hamilton Harbour Commissioners. His Majesty Jos. Hogue His Majesty His Majesty	Town of Lev Sacho Bros. His Majesty
Vendors.	1916. Dec. 29. The King	His Majesty. P. F. Bulger. W. Rosenberger. His Majesty. Notice of Abandonment. Margaret S. Christic. Notice of Expropriation. J. A. Ghad.	Certificate of Title " " " " " " " " " " " " " " " " "
Date of Conveyance.	1916. Dec. 29	Jan. 15 " 16 " 26 " 26 " 30 " 15 " 15 " 15	Mag. 3 28 29 20 21 21 21 21 21 22 33 34 36 37 38 38 37 37 37 37 37 37 37 37 37 37

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		0-23 acre		1 acre	5. 893 sq. ft		2, 600 sq. ft	A core		Domo C 60)	4.00 acres			1 acre	its 1.8 acre	n.			TO SECULOR
	ay-Wharf	Government purposes	das Drill Hall	Wharf	oles, Wharf and annroach. 5.893 sq. ft	Public Building.	3	Wheel			4	ımıskan. Keserv. Dam.		rast raver improvements 1124 acres Telegraph Service	East River Improvements 1.8 acre	Timiskam. Keserv. Dam.		,	East (river improvements); § acres. Hamilton Harbour
The following items were received too late for insertion in last year annual report (1915-1916)	Expropriation of land and water lot at Bay-field N S	Sale of part of lot No. 18, Port Arthur, Ont. Government purposes 0.23 acre	Sale of part of lot No. 5, east side of Dundas	nglishtown, N.S	His Majesty Sale of part of lot No. 182, Trois Pistoles,		Expropriated land at Dalhousie, N.B			in front of north westerly ½ of lot No. 6 and part of westerly portion of lot No. 6	at Fort William, Ont	Release for damages in re lots Nos. 481 and	Marie, Que l at Stonehouse Point, E	Sale of land at House River, Alta. Sale of land at Stonehouse Point, East River,	N.S. Release for damages re lot No. 10, Ville	Marie, Que Release for damages re lot No. 21, Ville	Marie, Que	Sale of land at Cantley Point, East River,	N.S. Sale of part of lot No. 13, Hamilton, Ont Hamilton Harbour
late for insertion		His Majesty	3	:	His Majesty	His Majesty		His Majesty	:		**	<u> </u>	3.	3 3		;	*	3	3 3
wing items were received too	1893. Notice of Expropriation	T. Marks et ar	1899. Dec. 13 T. Macbeth	Notice of Expropriation	J. Arthur Lavigne	W. Ash & E. R. Rogers His Majesty Sale of land at Aurora, Ont	Notice of Expropriation	915. 5 W. D. Morris <i>et ux</i>	Elie Joel Rochon		T. Simard	Louis Fleury	John Campbell et ux	Oct. 11. F. Taylor. Nov. 15. A. F. Milligan		Jos. Lavigne	Palma Ranger	E. S. Carew	31 T. W. Jutten <i>et ux</i>
The follor	1893. July 24	1895. July 10	1899. Dec. 13	1901. May 16	1906. Oct. 20	1913. May 21	1914. Aug. 15	1915. Jan. 5	Mar. 8		Aug. 3	Sept. 21	Oct. 2	Oet. 11	Nov. 24.	Dec. 29		29	

Statement No. 2.—Properties purchased or sold by the Department of Public Works of Canada from April 1, 1916, to March 31, 1917—Concluded.

Date of Conveyance.	Vendors.	Purchasers.	Description of Property.	For what purpose.	Area.	Price.
1916.						s ets.
Jan. 15	Jan. 15 Adam Burwash	3 3	Sale of part of lot No. 69-1, Tp. Guigues, Que Bridge Over Quinze River 64,500 sq. ft Release for damages re lots Nos. 13 and 44, av. et a	Bridge Over Quinze River	34, 500 sq. ft	50 00
15	15 Alexis Bombardier	3	Valle Marry, Que. Release for dannages re lots Nos. 592 and 593,	I Imiskami. Reserv. Dain.		00 606
	17 J. B. Lacusse	1	Notice, Marie, Vgu. Notice of damages re lot No. 64, Ville Marie, Que.	:		70 00
Feb. 2	Feb. 2The Community General Hosp. etc., of the Sisters of Charity	"	Release for damages re lot No. 1, Subdivision of lot No. 24, Ville Marie, Que	3		591 00
	" 17 J. B. Bruneau	: :	Release for damages re lot No. 47, Tp. of Guignes, Que			63 12
	" 19 Donald McIntosh	3	Marie, Que	3 3		84 45
	23 Henri Areand	3 3	Release for damages re lot No. 63, Tp. of Guignes, Que.	3		30 00
Mar. 4	Mar. 4	: 3	Marie, Que	25		591 00
			"Block N.", Subdivision of Sect. 1, Sail Spring Island, Cowiehan District, B.C Wharf	Wharf		1 00

SESSIONAL PAPER No. 19

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Rental.	\$ cts.	450 p. ann.	144 p. ann. 150 p. month.		.06 per foot	350 p. annum.	12 p. month.	t, 270 p. ann.	249 p. annum.	25 p. month.	2,116.20 p. ann.	28 p. month.	200 p. annum.	600 p. annum, renewable.	75 p. month.	240 p. annum.	l p. annum.
Duration of Lease.		1 yr. from 1st May, 19164	l yr. from 1st. 144 p. ann. March, 1916. 1 yr. from 20th 150 p. month.	reb., 1916. during pleasure.	6 mos. from oc- 0.06 per foot	1 yr. from 1st. 350 p. annum	From 1st March 12 p. month.	as required. 1 yr. from 1st. 1, 270 p. ann. June 1916	1 yr. from oc-249 p. annum	12 mos. from 1st 25 p. month. June. 1916.	3 yrs. from oc-2,116.20 p. ann.	1 yr. from 1st. 28 p. month.	1 yr. from 1st. 200 p. annum. June, 1916.	1 yr. from 1st. 600 p. annum, May, 1916. renewable.	6 mos. from 1st. May 1916.	lst.	From 1st. May, 1 p. annum. 1916.
For what purpose.		Colonization Office	Immigration Militia & Defence	Garden plot	Interior Dept	Public Works Depart	Chief Fire Ranger	Railway Commission	Railway-Mail Service	fmmigration	Translators	Immigration	Post Office	Engineers	Interior Department	Public Works Dept	:
Description of Property.		His Majesty Lease of 2nd floor in Building St. John St., Quebee, P.Q	Lease of two rooms in Building, Edmundston, Immigration N.B Lease of 2 stories in Building, Nos. 64 & 66 Militia & Defence	George St., Ottawa, Ont. Civie Permission to use piece of land at Halifax, Garden plot ment N.S	Lease of 3rd & 4th floors in Stephen's B'ld'g., Interior Dept	Queen St., Ottawa, Ont. Lease of two rooms in Building No. 209 Public Works Depart	Sparks St., Ottawa, Ont. Lease of three rooms in rear of "Bank Hamil-Chief Fire Ranger ton Building," Salmon Arm, B.C.	Lease of part of 2nd floor in "Boyd B'ld'g", Railway Commission	Winnipeg, Man. Lease of suite No. 414 in Building, Saskatoon, Railway-Mail Service.	bask. Lease of room on lot No. 1 at Grouard, Alta. Immigration.	Lease of sixth floor in Building, Rideau St., Translators.	Cuawa, Out. Lease of office No. 306, Medicine Hat, Alta. Immigration.	Lease of Building on Main Road at Weymouth, Post Office	Lase of 2nd floor in "Y.M.C.A." Building, Engineers	Lease of premises No. 126 Queen St., Ottawa, Interior Department.	Out. Lease of room in Building No. 111 Bonaven-Public Works Dept tare St., Three Rivers, Que.	June 2 Railways & Camals Dept. Pub. Wks. Dept Lease of pared of land being lot No. 1, Tig- Post Office
Lessees.		His Majesty	3 3	CE	League. His Majesty		"		:	"	::	**	:	::	"	3	Pub. Wks. Dept
Lessors.		J. S. Bergeron	Joseph PelletierThe Molsons Bank	5 His Majesty	The Two (2) Macs, Ltd His Majesty	Russell Blackburn	10 L. J. Robb	W. J. Boyd	The Imperial Canadian	Trust Co.	La Banque Nationale	W. Huckvale & S. T.	Estey Hooper. T. C. Rice	Y.M.C.A	A. L. Foster	La Cie d'Imprimerie et de Publicite de Trois-Ri-	Railways & Canals Dept
Date of Lease.	1916.	Apr. 3	, u	5	10	10	10	20	26	28	May 2	5	12	15	18	19	June 2

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Statement No. 3.—Properties leased to and from the Department of Public Works of Canada from April 1, 1916, to March 31, 1917.—Continued.

Rental.	\$ cts. 900 p. annum. 1 p. annum. 16.66 p. month 840 p. annum. 20 p. annum. 15.155 p. ann. 180 p. annum. 181 p. annum. 1900 p. annum. 191 p. annum. 191 p. annum. 192 p. ann. 1931.20 p. ann. 1940 p. annum. 1950 p. annum.
Duration of Lease.	\$ cts. 5 yrs. from 1st. 900 p. annum. April, 1916. Buring pleusure. 1 p. annum. 1 yr. from 5th 840 p. annum. June. 1916. See. 1 yr. from 5th 840 p. annum. June. 1916. Tring 3 yrs. 20 p. annum. 1911g 5 yrs. from oc- 6,155 p. annum. cupation. I yr. from 1st. 180 p. annum. Sept., 1916. Yrs. from 1st. 180 p. annum. Sept., 1916. Yrs. from 1st. 631.20 p. annum. June. 1916. Yrs. from 1st. 631.20 p. annum. Sept., 1916. Yrs. from 1st. 631.20 p. annum. June. 1916. Yrs. from 1st. 631.20 p. annum. Sept., 1916. Yrs. from 1st. 631.20 p. annum. June. 1916. Yrs. from 1st. 631.20 p. annum. June. 1916. Yrs. from 1st. 631.20 p. annum. Ang., 1916. Yrs. from 1st. 631.20 p. annum. Ang., 1916. Yrs. from 1st. 1916. By Tring pleasure. 1 p. annum. Ang., 1916. Ang., 1916. During pleasure. 56 p. annum.
For what purpose.	Post Office Storage of materials Business profit war taxes. Examining Warchouse Post Office Bureau. Borestry Branch For storing materials Post Office For storing materials
Description of Property.	His Majesty. Lease of L.377 sq. ft. and vault in Building. Post Office. Lease of parred of land at Hamilton, Ont. Storage of materials. Lease of parred of land at Hamilton, Ont. Storage of materials. Lease of parred of land at Hamilton, Ont. Storage of materials. Lease of a company is line at Berthler on Hamilton, Examining Warehouse. Lease of 2 moly sq. ft. on ground floor of Examining Warehouse. Lease of a company is line at Berthler on Hamilton, David Bailting, Stokatoon, Sack. Lease of part of building on Main St., St. Post Office. Lease of part of building No. 69 Victoria Baild. Lease of building No. 69 Victoria St., Toronto Minimal Majesty. Lease of building No. 69 Victoria St., Toronto Lease of Lofto St., St. Skatoon, Railway Mail Service. Lease of building No. 69 Victoria St., Toronto Lease of Lofto St., Lease of part of "Standey Block", Brighton, Post Office. Lease of Lofto St., St. Skatoon, Railway Mail Service. Lease of part of "Standey Block", Brighton, Post Office. Lease of Lofto St., L. on ground floor in Bailding No. 69 Victoria St., Toronto Majesty. Lease of part of "Standey Block", Brighton, Post Office. Lease of Lofto St., L. on ground floor of Post Office. Lease of Lofto St., Lease of part of "Standey Block", Brighton, Post Office. Lease of Lofto St., L. on ground floor of Post Office. Lease of part of "Standey Block", Brighton, Post Office. Lease of part of Standey Block", Brighton, Post Office. Lease of part of "Standey Block", Brighton, Post Office. Lease of part of worth and basement of build-Post Office. Lease of part of worth and basement of build-Post Office. Lease of Lofto Stander, Majes St., Stander, Majes St., Stander, Majes St., Stander, Majes St., Majes Majes St., Majes Majes St., Majes Majes Majes St., Majes
Lossees,	dge " " " " " " " " " " " " " " " " " "
Lessors.	O'Connor Bros. The Hamilton Bridge Works, Co., Lid. Bank of Toronto The Canadian City Town Properties of Saskatoon. Od Ganada, Lid. A. J. Major. T. H. H. Portier. Mrs. L. A. Osment His Majesty The Imperial Canadian Trust Co. Sam. Nesbirt. Donn. Bridge Co., Ltd. Bobert Simpson Co., Lid. Bobert Simpson Co., Lid. His Majesty.
Date of Lease.	June 2 1916. " 15 " 20 " 20 " 20 " 21 " 4 " 5 " 19 " 28 " 28 " 28 " 28 " 28 " 28 " 28 " 28 " 4 " 27 " 28 " 28 " 28 " 3 " 4 " 5 " 4 " 4 " 4 " 4 " 4 " 4 " 4 " 5 " 4 " 5 " 6 " 7 " 7 " 8 " 9 " 10

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2,225 p. ann.	15 p. month.	150 p. annum.	50 p. annum.	1,800 p. ann.	180 whole.	1 compensa- tion.	25 p. month.		150 p. month.	to year. yr. from 1st. 360 p. annum.	yrs. from 1st. 88,711.84 p. an.	May, 1910. yr. from 1st. 675 p. annum	July, 1916. yr, from 1st. 200 p. month.	0.80 p. sq. ft.	yrs. from 1st. 19,500 p. ann.	Nov., 1916. yrs. from 1st. 17,000 p. ann.	1 per annum,	June, 1917.	Schul ofratos	500000000000000000000000000000000000000	343.14 p. ann.	oc-200 p. annum, renewable.
From occupa- tion to 1st.	Oct., 1918. 12 mos. from 6th 15 p. month.	Sept., 1916.	2 yrs. from 1st. 50 p. annum	1 yr. from oc-1,800 p. ann.	6 mos. from 1st. 180 whole. Nov., 1916.	During pleasure.	From 21st. Nov. 25 p. month. 1916. until	bought by his Majesty.	1 yr. and there-150 after from yr.	1 yr. from 1st.	2 yrs. from 1st.		July, 1916.	5 yrs. from 15th, 0.80 p. sq. ft. July, 1916.	5 yrs. from 1st.	Nov., 1916. 5 yrs. from 1st.	From 29th Sept. 1 per annum.	June, 1917.	-		1 yr. from oc-343.14	_
Militia & Defence.	Immigration	Fisheries Inspector	Storing machines, etc	Examining Warehouse	Engineers		Post Office.		Fish sereen	Fisheries Inspector	Domin, Govert, Offices.	Inspector of war profit	taxes. Dom. Lands Office	Trade & Commerce	Railway Commission	Government Offices		Public Works Done	Tublic works axipum		Royal, Can. Engrs	Post Office
Lease of part of 6th floor in "Dennis B'ld'g", Militia & Defence Habbax, N.S.	Lease of room in b'ld'g, at Swan River, Man. Immigration.	Lease of 216 sq. ft. in "McCurdy Building", Fisheries Inspector	rights, N.S. Lease of building at Montmagny, Que	Lease of room in building at Brandon, Man. Examining Warehouse.	Lease of four rooms in building cor. King & Engineers Brock Sts., Kingston, Ont.	<u>~</u>	Lease of pureel of land at Cardinal, Ont Post Office		Lease of part of lot No. 498, Christina Creek, Fish sereen B.C.	Lease of rooms Nos. 3 & 4a in "Post B'ld'g., Fisheries Inspector	Lease of premises. Nos. 12, 14, 26 & 28 Slater Domin. Govert. Offices	Sc., and 04 & 00 Queen Sc., Ottawa, Ont Lease of premises 801 & 803, Winnipeg, Man, Inspector	Lease of premises at Saskatoon, Sask $\left \text{Dom. Lands Office} \right $	Lease of two upper floors and part of ground Trade & Commerce floor and basement in building cor. Sharks	& O'Comor Sts., Ottawa, Onf. Lease of 2nd, 3rd & 4th floors in Central Railway Commission	Station, Ottawa, Ont. Lease of five upper floors and part of base-Government Offices.	ment in "Birks Building, Ottawa, Ont. Lease of part of Beacon Bar Flats, St. John,	Birles & His Majorder I among of recently New Ell Elf. Elf. Elf. & fit Bullia Worles Done	in "Birks Building", Vancouver, B.C.	The Bell 1 cele-tagreement for merchange of business Der- phone Co. of ween Crane Island and Montmagny, Que.,	exchange. Lease of room and vault on 1st floor of "Birks Royal, Can. Engrs. Builting! Ottown One	Lease of part of "Calbert Block", Merrick-Post Office ville, Ont.
Corpora-His Majesty	3		3	3	*	The New Bruns- wick Tele- phone Co. of	ot, John, Iv.B.		3	;	;	;	\$; ;	3	"	Can. Pac. Rail .	His Majosty	ms majesey	phone Co. of	Birks & His Majesty)	*
Dennis Realty Corporation, Ltd.	B. E. Rothwell	. Eastern Trust Company	A. Belanger, Ltd	Mrs. Clara Kerchoffer	The Bank of Toronto	. His Majesty	S. E. Leney.		. W. G. McMyn	Sydney Post Publishing	Imperial Realty Co., Ltd.	Union Bank of Canada	Wilson Bros	The Merchants Bank of Canada.	Ottawa Terminals Rail-	way Company. W. M. Birks, J. H. Birks &	G. W. Birks. His Majesty	W M Birbs I H Birbs &				Thomas Culbert.
Апр. 7	: 19-	-12	28	30	30	Nept. 2	2 "			×		12.	81 "	19	21		26	26	3 6			Oct. 6.

STATEMENT No. 3.—Proporties leased to and from the Department of Public Works of Canada from April 1, 1916, to March 31, 1917.—Continued.

Date of Lease.	f .	LAYSKOPS.	Lessens.	Description of Property.	For what purpose.	Duration of Lease.	Rental.
1916.	9						85 25
Oct. 10		C. B. McAllister.	His Majesty	His Majesty Lease of building at High Prairie, Alta.	Dom. Lands Office	5 yrs, from oc-720 p. annum.	720 p. annam.
" П.		H. D. Johnston	:		Examining Warehouse 3	eupation. 3 yrs. from 14th. 4,200 p. annum	1,200 p. annum
. 16		R. L. & R. Blackburn	3	n Bank Building,		Ang., 1916.	371 p. annum.
:		Fraser McRoberts Co., Li	*	Sparks St., Ottawa, Ont. Lease of two rooms in building at Pincher Forestry Branch		Nov., 1916. From 1st Sept., 30 p. month.	30 p. month.
19	:	Rossin House Company	:	Lease of premises No. 121 King St., West Postal Station "B"		1916. 2 yrs. from 8th. 1,800 p. ann.	1,800 p. ann.
61 ,		Imp. Can. Trust Co	; ;	Lease of suite No. 212 in building at Saska-Inland Revenue	Inland Revenue	Ang., 1916. 1 yr. from 1st. 486 p. annum	486 p. annum.
		J. H. Cameron & A. M. Johnstone.	;	Leave, Pusk. Leave of two rooms in building at Saskatoon, Insp. of Weights & Measur, I v. von 14th, 60 p. month. Sask	Insp. of Weights & Measur.	Nov., 1916.	30 p. month.
20		His Majesty.	Maurice Dion	Lease of 1,630 sq. ft. of lot No. 381 at Levis, Priv. enterprise.	:	Nov., 1910. During pleasure. 2 p. month.	2 p. month.
। ह	24	C. J. Swales	His Majesty	Cense of premises at Hamilton, Ont Postal Station "B"		3 yrs. from 1st. 1,200 p. annum	1,200 p. annum
-	:	His Majesty	W. T. Dawley	W. T. Dawley Lease of lot No. 1, Block 4, Nootka Dist., Private enterprise		Nov., 1916. During pleasure. p. aanum.	l p. annum.
Nov. 8	:	The Canada Life Assur-His Majesty	His Majesty	Pease of rooms Nos. 42, 43, 44, 51 & 52 in National Service Board. From 8th, Nov. 97.05 p. month Co's, b'ld'g, Ottawa, Ont.	National Service Board	From 8th. Nov.	97.05 p. month
<u>:</u>	:	Dr. T. H. Blow	: :	Leave of offices on 1st & 2nd floors of "Blow Irrigation office $\mathrm{B}^{1}\mathrm{Hd}'_{\mathbb{R}^{+}}$ ('algary, Alta.		From 31st. Mar. 489.40 p. mont 1916 to 1st.	189.40 p. mont
, 14	14	W. H. Martin & Co	His Majesty	Lease of basement in building, Wellington Militia & Defence	Militia & Defence	Sept., 1916. 1 yr. from 4th. 900 p. annum.)00 p. annum.
. 16.		16 Hood Bros	:	Sc., Ottawa, Ont. Lease of office in building, Vancouver, B.C. Inspector of Fisheries.	: •	Dec., 1916. From 1st. Nov., 2	22 p. month.
21		Sir Redmond P. Roblin	3	Lease of premises No. 165 Osborne St., Postal Station "C"	Postal Station "C"	April, 1917.	1,500 p. ann.
		C. Thompson.	3	Winnipeg, Man. Lease of ground floor of building, Saskatoon, Customs Department	Customs Department	Feb., 1917. I yr. from 12th, 350 p. month.	550 p. month.
:		T. Y. Newton	: :	Sask. Lease of 2nd Hoor of building on lot No. 6, Supervisor of Riding Moun Roblin, Man	Supervisor of Riding Moun I	Dec., 1916. 1 yr. from 1st. 27.50 p. month Dec., 1916.	27.50 p. month

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yrs. from 1st. 300 p. month.	1. 40 p. month.	Dec., 1910. From 1st. Dec., 66.66 p. month 1916 to 20th. Geb., 1917	70 p. month.	yr. from 1st. 60 p. month.	From 1st. May 5,077.90 p. ann 1916 to 1st.	yrs. from 1st. 6,157.75 p. ann. Sept., 1916.	yr. from 1st. 65 p. month. Jun., 1917.		oe-60 p. month.	Vir. from 1st. 200 p. annum.	е. 0.5 р. с. уd.	l yr. from 15th. 250 p. annun.	., 175 p. month.	Mar., 1917. yr. from 1st. 125 p. annum.	yr. from 15th. 100 p. annun.	yr. from 1st. 350 p. annum. May 1917	yr. from 5th. 1,200 p. ann. June, 1917.	yr. from 1st. 144 p. annum.	yr. from 1st. 1,200 p. ann. May, 1917.
3 yrs. from 1st	1 yr. from 16th. 40 p. month.	Dec., 1916. From 1st. Dec., 1916—to 20th. Feb. 1917	From 1st. Nov. 70 p. month. 1916 and from Month to Mo	1 yr. from 1st	Feb., 1917. From 1st. May 1916 to 1st. Sont 1919	3 yrs. from 1st Sept., 1916.	l yr. from 1s Jan., 1917.		1 yr. from or	rupation. 1 yr. from 18 1 yr. from 18	Daring pleasure. 0.5 p. c. yd.	1 yr. from 15th	March, 1917. From 25th Dee., 1916 to 25th.	Mar., 1917. 1 yr. from 1s	1 yr. from 15tl	1 yr. from 1s May 1917	1 yr. from 5tl June, 1917.	l yr. from 1s	May, 1917.
Examining Warehouse	Building, Chief fire Ranger	Militia & Defence	Postal Station	National Service	:	flrrigation Office	Immigration		Int. Dept	Weights & Measures		Immigration	Nat. Serv	Post Office	Immigration	Pub. Works Department	Examining Warehouse	Immigration	Railway's & Canals
Lease of building, Victoria, B.C.	ons in Bank	Revelstoke, B.C. Lease of addition to top flats, No. 109 Rideau St., Ottawa, Ont.	Lease of ground floor in building No. 1128 Postal Station Mount Royal Ave. East, Montreal, Que.	Lease of premises at Edmonton, Alta Lease of premises at Revelstoke, B.C	Lease of ground floor of "Blow Building", Dominion Lands Office. Calgary, Alta.	Lease of part of 1st & 2nd floors and parts of flrrigation Office. ground floor in "Blow Building, Calgary, Leanne and Calgary.	Anta. Lease of premises at Grande Prairie, Alta. Immigration		Lease of office in "Kerr Building at Le Pas, Int. Dept	Lease of three rooms in building at Peterboro, Weights & Measures	Bros., Permission to take away sand and gravel at Stew-MacNab's Island, N.S.	quier. of His Majesty Lease of building at Virden, Man	Lease of 5th floor in Bank Building, Ottawa, Nat. Serv Ont.	Lease of part of Building, St. Felix de Valois, Post Office.	Lease of lots Nos. 28 & 29, Moose Jaw, Sask. Immigration.	Lease of four rooms in Building cor. Sparks Pub, Works Department	e John Stein Grand, Ohn. Lease of ground floor of building at Saskatoon Examining Warehouse Sask.	Lease of two rooms in building at Edmunds-Immigration.	ton, M.D. Lease of five rooms in "Quebec Bank Build-Railway's & Canals ing", Ottawa, Ont.
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"	:	3	"	3 3	3	4	:		"	"	Foley Welch, art &	quier. His Majes	ા	3	;	3	3	3	:
25(A. J. C. McDermott	Can. Bank of Commerce	27 Edouard Desormeaux	Bank of Hochelaga	K. A. McLeod	19 Dr. T. H. Blow	Dr. T. H. Blow	J. O. Patterson		Robt. Kerr	J. L. Hopwood & W. J.	His Majesty.		Virden La Banque Nationale	J. H. Lavallee	The City of Moose Jaw	Russell Blackburn	Canadian City & Town Properties of Saskatoon,	Sask. Jos. Pelletier	26 Quebee Buildings, Ltd
25	27.	27	5	6	19	19	26	1917.	1	3	9	51	13	15	15	19	25	26	26
3	:	3	Dec.	3 3	3	:	;		Jan.	33	4	3	3	3	"	"	3	3	3

STATEMENT NO. 3.—Properties leased to and from the Department of Public Works of Canada from April 1, 1916, to March 31, 1917.—Concluded.

	Rental.	\$ cts. yr. from oc- cupation and from month to month. yr. from 13th. 50 p. month. yrs. from 13th. 50 p. month. yrs. from 1st. 1 p. annum. Jun. 1917. yr. from 1st. 180 p. annum. Jun. 1917. yr. from 36th. 33 p. month. Apr., 1917. yr. from 36th. 33 p. month. May, 1917. yr. from 1st. 500 p. annum. May, 1917. yr. from 1st. 500 p. annum. May, 1917. yr. from 1st. 200 p. annum. May, 1917. yr. from 1st. 200 p. annum. May, 1917. yr. from 1st. 200 p. annum. May, 1917. yr. from 1st. 600 p. annum. Annum 1st. 1017 p. month. month from 30th June, 1916.
	Duration of Lease.	\$ cts. cupation and from month. 1 yr. from 13th, 50 p. month. Apr., 1917. 3 yrs. from 13th, 50 p. month. Apr., 1917. 1 yr. from 1st. 40nc, 1,018.80 whole 1916 to 15th. June, 1917. 1 yr. from 30th, 33 p. month. Apr., 1917. 1 yr. from 30th, 33 p. month. Apr., 1917. 1 yr. from 1st. 50 p. annum. May, 1917. 1 yr. from 1st. 50 p. annum. May, 1917. 1 yr. from 1st. 50 p. annum. May, 1917. 1 yr. from 1st. 200 p. annum. May, 1917. 1 yr. from 1st. 200 p. annum. May, 1917. 1 yr. from 1st. 600 p. annum. May, 1917. 1 yr. from 1st. 600 p. annum. May, 1917. 1 yr. from 1st. 600 p. annum. May, 1917. 1 yr. from 1st. 600 p. annum. May, 1917. 1 yr. from 1st. 600 p. annum. From month from 30th, 1,677 p. ann. From month from 30th, 1,677 p. ann.
	For what purpose.	Dept
ti matti ot, tott. Concerce a	Description of Property.	ajesty Lease of part of bailding, corner Sparks and Chief Censor
	Lessees.	His Majesty St. Maurice St. Maurice River Boom & Driving Co., Lad
	. KSBOIS.	1917. Hope Realty Ltd. 1917. 1917. Hope Realty Ltd. 29 J. E. Annable. 29 His Majesty. Stewart. Stewart. Stewart. Stewart. 5 Margaret White. 6 A. MeAllister. 6 J. S. Bergeron. 6 9 J. S. Bergeron. 7 8 9 J. S. Bergeron. 7 8 9 5 6 6 6 6 6 6 6 6 6
	Date of Lease.	Jan. 29. ". 29. ". 31. Feb. 5. ". 5. ". 9. ". 19. ". 26. ". 27. Mar. 1.

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Custs. Express Warehouse. 2 yrs. from 30th. 1,200 p. annum	5 yrs. from 1st. 300 p. annum.	yrs. from oc-8,130 p. ann.,	yr. from 1st. 300 p. annum.	'n.	5 yrs. from 15th. 200 p. annum.	EI.	÷	Leave of parts of 1st and 9th floors in "Union Board of Pens. Commis From date of oc-3,652.75 p. ann. Bank Building", Ottawa, Ont.	Lease of 6 floors in "Union Bank Building", Government purposes 3 yrs. from 6th 13,000 p. ann.	3 yrs. from 1st. 11,555.20 p. an	ë
am	ann	6.4 8.4	ann	May, 1917. yrs. from 1st. 1,800 p. ann. May 1917	ann	ъ :	yr. from 1st. 1,270 p. ann.	- d	÷	20 1	5 yrs. from 1st. 300 p. annum. Sept., 1917.
.d	p.	30	i d	00	ъ.	9	70 p	52.7	000	555	<u>a</u>
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fror	Apr., 1916. yrs. from 1 Inn 1917	<u>.</u> <u></u> .	<u> </u>	. E z	rs. from 15	<u>. 6</u>	yr. from	rom date of e	stst. Dec. 1919 yrs. from 6th. Em. 1917	yrs. from	Sept., 1917.
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<u> </u>	Post Office.	~	- <u>H</u>	Least of party of the Color of the State of Party Mail Delivery	<u></u>	Lease of building No. 140 Argyle Ave., House of Commons Res-1 Mr. 1017 Mar. 1017	Lease of part of 2nd floor in "Boyd Building", Railway Commission	<u> </u>	-; -	Leave, Ontake, Chi, 8th and 9th floors in Board of Pens. Commis	<u>:</u>
:	:	Š	Pet	ž	:	ÀV.	ling	ſ"nj	ing		enne.
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The following item had been received too late for insertion in last year's annual report (1915-1916).

Commissioner Commi
Quebec Harbour Commissioner
His Majesty
July 13 His Majesty

THE NATIONAL GALLERY OF CANADA.

Owing to the closing of the premises of the National Gallery in February, 1916, as a result of the destruction of the Parliament buildings by fire and the taking over of the Victoria museum for the Houses of Parliament, the work of the National Gallery during the past year has necessarily been concentrated upon the increase and development of its policy of loan exhibitions, and of utilizing as far as possible the possessions of the National Gallery for the furtherance of artistic knowledge throughout the Dominion.

The grant of twenty-five thousand dollars (25,000) enabled a considerable number of Canadian, as well as a very few foreign works of art to be purchased,.

The following regular annual loans of works of art were sent out during the year: Moosejaw, 21 pictures; Winnipeg, 24 pictures; Halifax, 27 pictures.

A special exhibition of six pictures was sent to the Edmonton art Exhibition, November, 1916.

An exhibition of twelve pictures was held at the summer agricultural and industrial fairs at Regina and Saskatoon, July, 1916.

A special exhibition of fifty modern paintings was lent to the art association of Montreal, January and February, 1917.

Special exhibitions were lent to the art museum of Toronto, consisting of sixtyfive drawings, October and November, 1916, and fifty lithographs, February and March, 1917.

A number of coloured prints of the world's most famous pictures, known as Medici prints, belonging to the National Gallery, were lent to the Ottawa public schools and to the Carnegic library.

The National Gallery annual travelling scholarship of one thousand dollars (\$1,000) was judged for the third successive year by the Council of the Royal Canadian Academy of Arts, and was awarded, with the trustees' concurrence, to Mr. E. R. Glen, 718 Colborne street, London, Ont.

The trustees met formerly on five occasions, and the following works of art were acquired by gift or purchase:—

GIFTS.

An unusual and important gift to the National Gallery was that of an extensive and representative series of the works of the late Elizabeth Adela Stanhope Forbes, the wife of Stanhope Forbes, R.A., who was born Elizabeth Armstrong at Kingston, Out—The trustees approached Mr. Forbes with a view of securing a better representation of the work of one of the most widely known of Canadian born artists. Mr. Forbes' response was most generous. An important oil painting "When Daffodils Begin—to Peer" was purchased by the trustees and according to the wishes of Mr. Forbes and his son Alec., then a lieutenant in the Duke of Cornwall's Light Infantry, the purchase price of the picture was divided equally between the Canadian Red Cross Society and the Young Men's Christian Association war work in memory of Mrs. Forbes. In addition to this Mr. Forbes presented the National Gallery with five water colours, three charcoal drawings, and thirteen etchings, so that now Mrs. Forbes' work is thoroughly well represented in the National Gallery of her native country.

Barrett, W. P. Shook plates. Presented by Sir Edmund Walker.

Manly, C. M., A.R.C.A. Lithograph "Pierette." Presented by C. M. Manly.

Nichols, Juliette S. Wood block "Fete Day." Presented by Juliette S. Nichols.

DIPLOMA PICTURE.

Aurèle de Foy Suzor-Côté, R.C.A.. .. "A Corner of my Village Arthabaska."

Oil Paintings— Harris, Lawren S. John Young. Honosoc, P. F., R.C.A. Johnstone, John Young. Honosoc, P. F., R.C.A. Macdonald, J. E. H., Ala.C.A. March Evening, Northland. Harris Domain. Brownell, Franklin, R.C.A. Golden Age. Moirs, Gerald. A. Halin's Domain. Brownell, Franklin, R.C.A. Golden Age. Moirs, Gerald. A. Forbes, Elizabeth A. S., Ala.W.S. Horling in a Harn. Forbes, Elizabeth A. S., Ala.W.S. Franchère, J. C. A. R.C.A. Franchère, J. C. A. R.C.A. The Flagathers, S. Franchère, J. C. A. R.C.A. Gagnon, C. A. A.R.C.A. The Wayside Cross, Autumn. Leduc, O. Neige Dorée. Liamer, Arthur D., A.R.C.A. Reid, Lorna F. Fallen, A. R.C.A. Reid, Lorna F. Rosaire, Arthur D., A.R.C.A. Reid, Lorna F. Rosaire, Arthur D., A.R.C.A. Geson, A. Allan, R.C.A. Mounts Orford and Owls Head from Lake Memphremagog. Drawings, Prints— Drawings, Prints— Caron, Paul. Léger, J. A. Le Matin et le Soir de la Vie. Bonsecours Market, 1915. Oil Courtyard, St, Vincent St., Montreal. The Fisher Folk at Kamouraska. Otton, J. W. Drowsy Summertine. S. Boniface Catheria. Jopling, F. W. In a Toronto Shipbuiding Yard. Nelson, H. Ivan. The Fisher Folk at Kamouraska. Otton, J. W. Drowsy Summertine. S. Boniface Catheria. The Red River at Selkirk. The Red River at Winnipes. Harris Golden, Torters. A Singson, Charles H. The Red River at Winnipes. Harve Globe Trotters. A Printsham. A Street in Paris. The Red River at Winnipes. The		the state of the s
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Gagnon, C. A., A.R.C.A. Leduc, O. Lismer, Arthur. May, H. Mabel, A.R.C.A. Palmer, H. S., A.R.C.A. Palmer, H. S., A.R.C.A. Reid, Lorna F. Rosaire, Arthur D., A.R.C.A. Edson, A. Allan, R.C.A. Drawings, Prints— Caron, Paul. Léger, J. A. Cotton, J. W. Cotton, J. W. Fawcette, George. Jophing, F. W. Nelson, H. Ivan Timber Ship, Quebec Nelson, H. Ivan Timber Ship, Quebec Nelson, H. Ivan Timber Ship, Quebec Therability, J. The Red River at Winnipeg. The Russell, Gyth. The Red River at Winnipeg. The Russell, Gyth. The Red River at Winnipeg. The Carot, J. B. The Rod River at Winnipeg. The Carot, J. B. The Rod River at Winnipeg. The Carot, J. B. Cotton, J. The Red River at Winnipeg. The Carot at Winnipeg. The Centre Span, Quebec Bridge. The Russell, Gyth. The Red River at Winnipeg. The Rod River at Rye. The Rod River at Winnipeg. The Rod River at Winnipeg	Clapp, W. H., A.R.C.A	The Three Bathers,
Ledue, O. Neige Dorée. Lismer, Arthur. A Westerly Gale, Georgian Bay. May, H. Mabel, A.R.C.A. Boats on St. Lawrence. Palmer, H. S. A.R.C.A. On the Hillside. Reid, Lorna F. The Wind Flower. Rosaire, Arthur D., A.R.C.A. The Play Hour. Russell, G. Horne, A.R.C.A. Seal Cove, Grand Manan. Edson, A. Allan, R.C.A. Mounts Orford and Owls Head from Lake Memphremagog. Drawings, Prints— Caron, Paul. Infant. Léger, J. A. Le Matin et le Soir de la Vie. Raine, Herbert Bonsecours Market, 1915. """Old Courtyard, St. Vincent St. Montreal. """The Pisher Folk at Kamouraska. Drowlys Summertime. Fawcette, George St. Boniface Cathedral. Jophing, F. W. In a Toronto Shipbuilding Yard. Neilson, H. Ivan Timber Ship, Quebec Bridge. """The Centre Span, Quebec Bridge. """The Centre Span, Quebec Bridge. """The Lake. """The Red River at Winnipeg. The Rother at Rye. Simpson, Chas. W. An Oratory Notre Dame. Sutherland, F. W. Turkish Bazaar. Byrnner, Wm., P.R.C.A. A Street in Paris. Armington, Frank M. Thames from Waterloo Bridge. Goya. Bull Fighting. Shannon, Charles H. Thames from Waterloo Bridge. """Nude Study. """Stone Bath. Rothenstein, William Charles H. Shannon. Aubrey Beardsley. Max Beerbohm. The Blind. Seared Dancer. Amour Mort. The Blind. Seared Dancer. Amour Mort. The Blind. Grover Cleveland. """The Ford. Puento Real, Valencia. """ """ The Ford. Caron, Angustus. Nude on Pedestal Convict.	Franchère, J. C., A.R.C.A	Sylphide.
Lismer, Arthur. May, H. Mabel, A.R.C.A. Palmer, H. S., A.R.C.A. Palmer, H. S., A.R.C.A. Palmer, H. S., A.R.C.A. Palmer, H. S., A.R.C.A. Reid, Lorna F. Rosaire, Arthur D., A.R.C.A. Russell, G. Horne, A.R.C.A. Edson, A. Allan, R.C.A. Drawings, Prints— Caron, Paul. Léger, J. A. Raine, Herbert. Old Courtyard, St. Vincent St., Montreal. The Fisher Folk at Kamouraska, Drowsy Summertime, Fawcette, George. St. Boniface Cathedral. Jopling, F. W. In a Toronto Shipbuilding Yard. Nellson, H. Ivan. Timber Ship, Quebec. """ Les Eboulements from Urslet. """ The Centre Span, Quebec Bridge. """ Les Eboulements from Urslet. """ Phillips, W. J. The Lake. """ The Red River at Selkirk. The Red River at Selkirk. The Red River at Winnipeg. Russell, Gyrth. """ The Rother at Rye. La Havre Globe Trotters. Simpson, Chas, W. Sutherland, F. W. Turkish Bazaar. Brymner, Wm., P.R.C.A. A Street in Paris. Armington, Frank M. Carot, J. B. C. Souvenir d'Italle. Goya. Brymner, Wm., P.R.C.A. A Street in Paris. Thames from Waterloo Bridge. Carot, J. B. C. Souvenir d'Italle. Goya. Bull Fighting. Shannon, Charles H. Three Women's Heads. """ Naw Beerbohm. The Baind. Seated Dancer. Amour Mort. Zorn, Anders. The Hair Ribbon. The Swan. Gulli. Grover Cleveland. """ The Ford. Grillon, René. Puento Real, Valencia. May, Phil. Convict. Convict.	Gagnon, C. A., A.R.C.A	The Wayside Cross, Autumn.
May, H. Mabel, A.R.C.A. Palmer, H. S., A.R.C.A. On the Hillside. Reid, Lorna F. Rosaire, Arthur D., A.R.C.A. The Wind Flower. Russell, G. Horne, A.R.C.A. Edson, A. Allan, R.C.A. Mounts Orford and Owls Head from Lake Memphremagog. Drawings, Prints— Caron, Paul. Léger, J. A. Raine, Herbert Bonsecours Market, 1915. " "Old Courtyard, St. Vincent St. Montreal. " "The Flsher Folk at Kamouraska. Drowsy Summertime. Fawcette, George St. Boniface Cathedral Jophing, F. W. In a Toronto Shipbuilding Yard. Neilson, H. Ivan Timber Ship, Quebec " "Expense Harbour. The Centre Span, Quebec Bridge. " "Expense Harbour. Phillips, W. J. The Red River at Selkirk. "The Red River at Selkirk. "The Red River at Selkirk. The Red River at Winnipeg. Russell, Gyrth. The Rother at Rye. Simpson, Chas, W. An Oratory Notre Dame. Sutherland, F. W. Turkish Bazaar. Brynner, W.m., P.R.C.A. A Street in Faris. Armington, Frank M. Thames from Waterloo Bridge. Shannon, Charles H. Thames from Waterloo Bridge. Shannon, Charles H. The Balk. " "Nude Study. " " " " " " " " " " " " " " " " " " "	Liemer Arthur	A Westerly Cala Garning B
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Rosaire, Arthur D., A.R.C.A. Russell, G. Horne, A.R.C.A. Edson, A. Allan, R.C.A. Edson, A. Allan, R.C.A. Drawings, Prints— Caron, Paul. Léger, J. A. Raine, Herbert. """ Old Courtyard, St. Vincent St., Montreal. """ Old Courtyard, St. Vincent St., Montreal. """ Cotton, J. W. Fawcette, George. St. Boniface Cathedral. Jopling, F. W. In a Toronto Shipbuilding Yard. Timber Ship, Quebec Bridge. """ The Centre Span, Quebec Bridge. """ French Canadian Village. """ Les Eboulements from L'Islet. Quebec Harbour. Phillips, W. J. The Red River at Selkirk. """ The Red River at Winniper. The Rother at Rye. La Havre Globe Trotters. Simpson, Chas. W. An Oratory Notre Dame. Sutherland, F. W. Turkish Bazaar. Birds. Brymner, Wm., P.R.C.A. A Street in Paris. Arnington, Frank M. Carot, J. B. C. Goya. Bull Fighting. Shannon, Charles H. Three Women's Heads. Nude Study. Stone Bath. Rothenstein, William. Charles H. Shannon. Charles H. Shannon. Charles H. Shannon. The Bilind. Seated Dancer. """ Andury Mort. The Bilind. Seated Dancer. The Hair Ribbon. """ Seated Dancer. Amour Mort. The Bilind. Seated Dancer. Amour Mort. The Bilind. Seated Dancer. The Hair Ribbon. """ The Swan. Grillon, René. """ Puento Real, Valencia. """ The Ford. Grillon, René. Puento Real, Valencia. My Mother. Lake Nymphs. Chavannes, Puvis De. Work. John, Augustus. Nude on Pedestal	Palmer, H. S., A.R.C.A	On the Hillside.
Edson, A. Allan, R.C.A. Edson, A. Allan, R.C.A. Mounts Orford and Owls Head from Lake Memphremagog. Drawings, Prints— Caron, Paul. Léger, J. A. Léger, J. A. Le Matin et le Soir de la Vie. Raine, Herbert. Bonsecours Market, 1915. """ Old Courtyard, St. Vincent St. Montreal. """ The Fisher Folk at Kamouraska. Cotton, J. W. Drowsy Summertime. St. Boniface Cathedral. Jopling, F. W. In a Toronto Shipbuilding Yard. Nelson, H. Ivan Timber Ship, Quebec. The Centre Span, Quebec Bridge. The Centre Span, Guebec Bridge. The Ed River at Selkirk. The Red River at Selkirk. The Red River at Winnipeg. The Red River at Winnipeg. The Red River at Winnipeg. The Red River at Selkirk. The Red River at Winnipeg. The Red River at Selkirk. The Red River at Winnipeg. The Red River at Selkirk. The Red River at Selkir	Reid, Lorna F	The Wind Flower,
Edson, A. Allan, R.C.A. Mounts Orford and Owls Head from Labe Memphremagog. Memphremagog. Drawings, Prints— Caron, Paul. Léger, J. A. Le Matin et le Soir de la Vie. Raine, Herbert. Bonsecours Market, 1915. """ Cotton, J. W. Drowsy Summertime. Faweette, George. St. Boniface Cathedral. Jopling, F. W. In a Toronto Shipbuilding Yard. Neilson, H. Ivan. Timber Ship, Quebee. """ The Centre Span, Quebee Bridge. """ The Centre Span, Quebee Bridge. """ Les Eboulements from L'Islet. """ Quebee Harbour. Phillips, W. J. The Lake. """ The Red River at Selkirk. """ The Red River at Winnipeg. The Red River at Winnipeg. The Red River at Winnipeg. The Red River at Mynnipeg. Brymnen, Chas, W. An Oratory Notre Dame. Sutherland, F. W. """ Birds. Brymner, Wm., P.R.C.A A Street in Paris. Armington, Frank M. Carot, J. B. C. Goya. Bull Fighting. Shannon, Charles H. Three Women's Heads. """ Max Beerbohm. The Bath. Rothenstein, William Charles H. Shannon. Aubrey Beardsley. Max Beerbohm. The Hair Ribbon. The Bind. Seated Dancer. """ Amour Mort. Zorn, Anders. The Hair Ribbon. The Bind. Seated Dancer. Amour Mort. The Hair Ribbon. The Hair Ribbon. The Hair Ribbon. The Hair Ribbon. The Fisher Ford. Puento Real, Valencia. My Mother. Lake Nymphs. Chavannes, Puvis De Work. John, Augustus. Nude on Pedestal May, Phil. Convict.	Rosaire, Arthur D., A.R.C.A	The Play Hour.
Drawings, Prints— Caron, Paul. Infant. Léger, J. A. Le Matin et le Soir de la Vie. Raine, Herbert. Bonsecours Market, 1915. """ Old Courtyard, St. Vincent St., Montreal. The Fisher Folk at Kamouraska. Cotton, J. W. Drowsy Summertime. Faweette, George St. Boniface Cathedral. Jopling, F. W. In a Toronto Shipbuilding Yard. Nelson, H. Ivan Timber Ship, Quebec. """ The Centre Span, Quebec Bridge. French Canadian Wilage. """ Les Eboulements from L'Islet. """ Quebec Harbour. Phillips, W. J. The Lake. """ The Red River at Selkirk. """ The Red River at Winnipeg. Russell, Gryth. The Rother at Rye. """ La Havre Globe Trotters. Simpson, Chas, W. An Oratory Notre Dame. Sutherland, F. W. Turkish Bazaar. """ Birds. Brynmer, Wm., P.R.C.A A Street in Paris. Armington, Frank M. Thames from Waterloo Bridge. Gaya. Bull Fighting. Shannon, Charles H. Three Women's Heads. """ Stone Bath. Rothenstein, William Charles H. Shannon. """ Aubrey Beardsley. """ Stone Bath. Rothenstein, William Charles H. Shannon. """ Aburey Beardsley. """ Aburey Beardsley. """ The Hair Ribbon. """ Aburey Beardsley. """ The Hair Ribbon. """ Aburey Grover Cleveland. """ The Ford. Grillon, René. Puento Real, Valencia. """ Lake Nymphs. Chavannes, Puvis De Work. John, Augustus. Nude on Pedestal	Russell, G. Horne, A.R.C.A	Seal Cove, Grand Manan.
Drawings, Prints— Caron, Paul. Infant. Léger, J. A. Le Matin et le Soir de la Vie. Raine, Herbert. Bonsecours Market, 1915. " Old Courtyard, St. Vincent St., Montreal. " The Fisher Folk at Kamouraska. Drowsy Summertime. Fawcette, George St. Boniface Cathedral. Jopling, F. W. In a Toronto Shipbuilding Yard. Neilson, H. Ivan Timber Ship, Quebec. " The Centre Span, Quebec Bridge. French Canadian Village. " Les Eboulements from L'Islet. Quebec Harbour. Phillips, W. J. The Lake. " The Red River at Selkirk. " The Red River at Winnipeg. Russell, Gypth. The Rother at Rye. " La Havre Globe Trotters. Simpson, Chas. W. An Oratory Notre Dame. Sutherland, F. W. Turkish Bazaar. " Birds. Brymner, Wm. P.R.C.A A Street in Paris. Armington, Frank M. Thames from Waterloo Bridge. Carot, J. B. C. Souvenir d'Italie. Goya. Bull Fighting. Shannon, Charles H. Three Women's Heads. Nude Study. " Stone Bath. Rothenstein, William Charles H. Shannon. " Aubrey Beardsley. Max Beerbohm. Sterner, Albert. The Blind. " Seated Dancer. Amour Mort. Zorn, Anders. The Hair Ribbon. " Abbrey Beardsley. Max Beerbohm. Sterner, Albert. The Blind. " Seated Dancer. Amour Mort. Zorn, Anders. The Hair Ribbon. " Abbrey Beardsley. " The Ford, Grillon, René. Puento Real, Valencia. " The Ford, Grillon, René. Puento Real, Valencia. " The Ford, Grillon, René. Puento Real, Valencia. My Mother. Lake Nymphs. Vade on Pedestal May, Phil. Convict.	Edson, A. Anan, R.C.A	Mounts Oriord and Owls Head from Lake
Caron, Paul.	Drawings, Prints-	Mempinemagog.
Léger, J. A. Raine, Herbert. Bonsecours Market, 1915. """ Old Courtyard, St. Vincent St., Montreal, """ The Fisher Folk at Kamouraska, Drowsy Summertime. Fawcette. George. St. Boniface Cathedral. Jopling, F. W. In a Toronto Shipbuilding Yard. Nellson, H. Ivan. Timber Ship, Quebec. The Centre Span, Quebec Bridge. French Canadian Village. """ French Canadian Village. """ Les Eboulements from L'Islet. Quebec Harbour. Phillips, W. J. The Lake. """ The Red River at Selkirk. """ The Red River at Winnipeg. Russell, Gyrth. """ La Havre Globe Trotters. Simpson, Chas, W. An Oratory Notre Dame. Sutherland, F. W. Turkish Bazaar. """ Birds. Brymner, Wm., P.R.C.A. A Street in Paris. Armington, Frank M. Thames from Waterloo Bridge. Carot, J. B. C. Souvenir d'Italie. Goya. Bull Fighting. Shannon, Charles H. Three Women's Heads. """ Nude Study. """ Stone Bath. Rothenstein, William. Charles H. Shannon. Aubrey Beardsley. Max Beerbohm. Sterner, Albert. The Blind. """ Aubrey Beardsley. Max Beerbohm. Sterner, Anders. The Hair Ribbon. """ The First. The First. The First. The First. Grillon, René. """ Lake Nymphs. Chavannes, Puvis De. Work. John, Augustus. Nude on Pedestal May, Phil. Convict.		Infant.
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DOMINION OF CANADA

ANNUAL REPORT

OF THE

DEPARTMENT OF RAILWAYS AND CANALS

For the Fiscal Year from April 1, 1916, to March 31, 1917

Submitted in accordance with the provisions of the Revised Statutes of Canada, 1916, Chapter 35, Section 33.

PRINTED BY ORDER OF PARLIAMENT



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

1918

[No. 20—1918] Price, 10 cents.



To His Excellency the Duke of Devonshire, K.G., P.C., G.C.M.G., G.C.V.O., etc., etc., etc., Governor General and Commander in Chief of the Dominion of Canada.

MAY IT PLEASE YOUR EXCELLENCY,-

The undersigned has the honour to present to Your Excellency the Annual Report of the Department of Railways and Canals, of the Dominion of Canada, for the past fiscal year from April 1, 1916, to March 31, 1917.

J. D. REID,
Minister of Railways and Canals.



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REPORT

OF THE

DEPUTY MINISTER OF RAILWAYS AND CANALS

FOR THE YEAR ENDING MARCH 31, 1917.

To the Honourable J. D. Reid,

Minister of Railways and Canals.

SIR,—In presenting the departmental report for the fiscal year 1916-17, it is necessary that explanation be given as to the very considerable reduction in the amount of the material comprised in it, in comparison with reports of previous years. This reduction has been made in conformity with the requirements of the Order in Council of the 23rd of October, 1917, passed in view of the conditions arising out of the war, which have compelled curtailment of expenditure on public printing.

The present report accordingly omits all maps, plans, and illustrations of canal and railway works, such as in past years have been supplied, and which, though of much interest and value, are not essential, and can reasonably be dispensed with under the circumstances.

Further, the printing of the subsidiary detail reports sent in by the individual engineers and other officers has, as required by the order, been omitted, only the direct reports of the chiefs being inserted; the detail reports are, however, of course, available for reference in the department if required. Various statistical tables and miscellaneous information relating to previous years, dimensions, etc., are this year omitted, but are available in the reports already published. The reports of the accountant of the department and of the comptroller of government railways are printed practically as heretofore, though with some compression and rearrangement, which does not impair their utility.

The making of these reductions has naturally been facilitated by the suspension of certain construction works undertaken by the department and the curtailment of its operations, otherwise, in the interests of economy.

GENERAL SUMMARY.

During the twelve months of the past fiscal year 1916-17 the expenditures made by or through the department on its several works of operation, maintenance, and construction, both railway and canal, and in furtherance by subsidy, under specific votes granted by Parliament, of railway enterprises in various parts of Canada other than the government roads; also the revenue derived from the government works, aggregate as follows: The total railway expenditure, including the Quebec bridge, amounted to \$41,895,886.53, of which \$14,737,326.70 was charged to capital, \$25,799,906.54 to revenue, and \$1,358,653.29 to income.

The railway expenditure on capital account included \$4,490,472.56 for the Intercolonial railway, \$609,751.71 for the Prince Edward Island railway, \$3,916,586.20 for the National Transcontinental railway, which is in course of construction by a board of commissioners, \$2,604,279.94 for the Hudson Bay railway, and \$2,733,677 for the Quebec bridge; \$3,724.98 for the International railway; \$46,579.38 for the New Brunswick and Prince Edward Island railway; and \$332,254.93 for the Quebec and Saguenay railway.

The railway expenditure on income included a total of \$959,583.88 paid as subsidies to railways other than the government roads, \$215,947.14 for the Board of Railway Commissioners for Canada, and \$46,630.53 for railway grade crossing fund, and \$44,149.09 for surveys and inspections.

The expenditure on the Intercolonial railway amounted to \$20,143,830.34, namely, \$4,490,472.56 on capital account, and on revenue account (working expenses and improvements and betterments), \$15,653,357.78.

On the Prince Edward Island railway, the total expenditure was \$1,443,604.73, of which \$609,751.71 was charged to capital and \$\$33,853.02 to revenue.

The total expenditure on the National Transcontinental railway amounted to \$11,723,508.40, namely, \$3,916,586.20 on capital, and \$7,806,922.20 on revenue account (working expenses). The working expenses for the International railway amounted to \$165,107.26, which does not include the sum of \$90,000 paid as rental for the road. The working expenses for the New Brunswick and Prince Edward Island railway were \$78,031.22, and for the St. John and Quebec railway, \$98,300.42.

The expenditure on canals aggregated \$6,028,100.73, of which \$4,304,589.09 was chargeable to capital account. \$399,414.50 to income, \$801,937.90 for staff, and \$522,159.24 for repairs, the last two amounts being charged to revenue.

Adding to the above for miscellaneous expenditures common to both branches, the sum of \$302,095.14, of which \$299,934.09 was chargeable to the special war appropriation (special services having been required of the department in connection with the war, entailing expenditures for the protection of its bridges and canal structures, transportation of goods for the Belgium Relief Fund, the Red Cross Society, and for payment of salaries for substitutes for enlisted men), the total expenditure for the year on railways and canals was \$48,226,082.40.

The total revenue derived from the government railways and canal works was \$24,001,181.75, of which the railways produced \$23,539,758.61, and the canals,

\$461,423.14,¹ the sum of \$271,820.28 being derived from hydraulic and other rents, and \$175,536.50 from the Port Colborne elevator.

The total government expenditure on railways prior to and since Confederation (July 1, 1867) up to March 31, 1917, amounts, on capital account, to \$391,884,025.79, including expenditure on the Quebec bridge, and also the sum of \$25,000,000 granted to the Canadian Pacific Railway Company for its main line; also the amount, \$660,683.09, expended on the Annapolis and Digby railway. In addition, there has been expended from the consolidated fund a total of \$267,997,373.17, covering the operating expenses of the government roads, and \$75,117,415.47 on subsidies other than that for the main line of the Canadian Pacific railway, making a total expenditure of \$734,998,814.43.2 Of this amount, the sum of \$13,881,460.65 was expended prior to Confederation, namely on the construction of portions of what is now the Intercolonial Railway system, \$10,766,725.54, and on the construction of the Prince Edward Island railway, \$3,114,735.11.

The total government expenditure on canals prior to and since July 1, 1867, to March 31, 1917, amounts on capital account to \$122,919,314.84, of which \$20,593,-866.13 was expended prior to Confederation, and from the consolidated fund, for operation, maintenance and repairs, \$41,221,419.60, making a total of \$164,140,734.44.

The total expenditure on the two branches, railways and canals, up to March 31, 1917, is as above, \$899,139,548.87, adding to which for general expenditures embracing both, the further sum of \$1,457,384.31, the grand total expenditure amounts to \$900,596,933.18.

The total revenue collected since July 1, 1867, to March 31, 1917, amounts, from the government railways, to \$248,395,298.47, and from the canals to \$16,665,271.32, making a total of \$265,060,569.79.

Details in tabulated form showing the general classes and directions of the above expenditures and revenues will be found in the statements of the accountant of the department, printed in the appendices, Part I.

GOVERNMENT RAILWAYS IN OPERATION.

The government railways in operation and their main line lengths are, respectively, as follows:—

	Miles.
Intercolonial Railway	1,518:39
Prince Edward Island Railway	275.20
National Transcontinental Railway	1,811.28
Grand Trunk Pacific Railway (the Lake Superior Branch leased).	191.75
New Brunswick and Prince Edward Island Railway	36.02
International Railway of New Brunswick	111.30
Total	3,943.97
St. John and Quebec Railway operated but not owned	119.87
Total	4,063.84
10tai,	

¹ Under the authority of an Order in Council, dated June 22, 1905, the system of charging tolls for the passage of vessels and goods was abolished on all the canals of the Dominion. Records, however, are kept for statistical purposes, and the compilation of the resultant figures is given in a separate report issued by the department.

² This amount does not include the annual payment of \$119,700 to the Provincial Government of Quebec, being interest at the rate of 5 per cent on the sum of \$2,394,000 up to 1905, granted by 47 Victoria, ch. 8 (1884), nor the annual payment of \$107,730, being interest at the rate of 4½ per cent since and including 1905, on the said sum of \$2,394,000, for the line between Ottawa and Quebec, which sum was transferred to the public debt as a liability, and is dealt with by the Finance Department. (See Public Accounts, 1893-4, page 10, and 1906, page 79.)

Information as to these roads will be found in reports of the General Manager and other officials, Appendix II, with traffic details of each road separately in *tabulated* form on pages 40 and 41.

The Intercolonial Railway earnings amounted to \$16,767,386.89, and its working expenses to \$15,653,357.78, including the rental of the Vale railway at \$1,200 a year, producing a surplus of \$1,112,829.11. This surplus has been partly absorbed, under the authority of the Act of 1912, chapter 8, by crediting the Rail, the Fire and the Equipment Renewal Accounts with amounts aggregating \$1,070,334.64. \$4,000 was paid as "compassionate allowances" under special votes.

The Prince Edward Island Railway working expenses amounted to \$833,853.02. Its earnings amounted to \$630,045.69, the deficit being \$203,807.33.

The International Railway working expenses amounted to \$165,107.26, and the earnings to \$116,678.67, a deficit of \$48,428.59. This does not include the sum of \$90,000 paid as interest on the purchase price of the road.

The St. John and Quebec Railway working expenses amounted to \$98,300.42, and the earnings to \$70,759.62, a deficit of \$27,540.80.

The New Brunswick and Prince Edward Island Railway working expenses amounted to \$72,357.80, and the earnings to \$38,336.75, leaving a deficiency of \$34,021.05. This does not include \$5,673.42 paid as interest on the purchase price of the road pending payment.

The working expenses of the portion of the National Transcontinental Railway operated by the Government amounted to \$7,206,922.20, not including \$600,000 paid for rental of the Lake Superior branch. The earnings amounted to \$5,916,550.99.

The total length of the government railways in operation amounted to 3,943·97 miles. The train mileage was 12,412,757 miles, and car mileage, 204,369,625. The total earnings were \$23,930,398.06, which is \$5,853.38 per mile, \$1.86 per train mile, or \$11.30 per car mile. The expenses were \$1.89 per train mile, amounting to \$5,973.72 per mile of railway.

The expenditure for maintenance of way and structures amounted to \$4,727,351; maintenance of equipment, \$4,426,200; traffic, \$418,425; rail transportation, \$13,227,794; water transportation, \$370,229; rental of leased lines, \$696,873; miscellaneous, \$760,397; the total expenditures aggregated \$24,627,261.

The repairs to locomotives amounted to 1,803,420.63; to freight cars, 1,327,376.99; to passenger cars, 721.547.50.

The passenger traffic produced \$6,705,080.28; the freight traffic, \$16,642,458.16; and mail and express, \$664,910.04. The total number of passengers was 5,764,170, namely, through passengers, 459,075, and local, 5,305.095.

The local freight traffic amounted to 5,605,403 tons, and the through traffic to 4,744,073 tons, a total of 10,349,476 tons; the total mileage for both was 3,012,144,640 miles.¹

There are 76.21 miles of double tracking and 973.71 miles of sidings and spurs. The weight of the rails laid is 80 pounds per yard for 3,178.02 miles, and 85 pounds for 273.24 miles, the balance being of lighter weight rails.

¹ These figures do not include the St. John and Quebec railway.

The capacity of the freight yards has been increased largely at several points, and two grain elevators are being built, a new 500,000-bushel one at St. John, N.B., replacing that destroyed by fire, and the other a 1,000,000-bushel one at Transcona, Man.

The sum of \$1,070,334.64 was placed to the credit of Equipment Renewal Account and \$40,266.01 was received for sales of old rolling stock. During the year there was spent on this account a total of \$2,514,092.38 in the purchase of rolling stock, leaving a credit balance on March 31, 1917, of \$1,661,208.89.

The total number of freight cars on hand at the close of the year is 17,121, and of passenger cars, 639. There are 10,400 box cars, 198 refrigerating cars, 3,371 platform cars, 1,175 dump cars, 385 stock cars and 1,592 cars of other descriptions. In addition, there are 575 work cars.

The number of locomotives at the close of the year was 547, of which 113 were either purchased or built during the year.

In addition to the above rolling stock, the equipment of the Prince Edward Island railway, which is a narrow-gauge railway, consists of 31 locomotives, 59 passenger cars, 530 freight cars and 20 work cars.

The Safety Engineer reports that during the year 629 employees were injured and thirteen killed; 21 passengers were injured, but none were killed.

The value of stores on hand at the close of the year was \$4,818,102.74, comprising ordinary stores and fuel, \$4,071,207.71, and roadway and bridge material, \$746,895.03.

The above statements do not contain the expenditure nor revenue of the St. John and Quebec railway.

The Carleton branch of the Prince Edward Island railway, 3 miles in length, connecting Carleton Point to the Cape Traverse branch of the railway, has been completed. The terminal works at cape Tormentine and at Carleton Point are completed, with the exception of certain filling and dredging.

COMPARATIVE STATISTICS, INTERCOLONIAL RAILWAY, YEARS 1915-16 AND 1916-17.

In 1915-16, the average tons of freight carried per train, producing revenue, was 327.86, and the number of passengers, 64.15; in 1916-17, the average freight tonnage was 357.07, and passengers, 94.82.

In 1915-16, the average tons per loaded car, producing revenue, was $19 \cdot 22$, and the number of passengers, $9 \cdot 24$; in 1916-17, the number of tons was $22 \cdot 08$, and of passengers, $12 \cdot 16$.

The number of tons per train, all freight, in 1915-16, was 332-62, and in 1916-17, 358-40.

The number of tons per car, all freight, in 1915-16, was 15.95, and in 1916-17, 18.27.

The average distance each ton of freight was carried in 1915-16 was 280.58 miles, and in 1916-17, 261.53. The average distance passengers were carried in those years was 48.21 miles and 72.04, respectively.

The average number of loaded cars per train in 1915-16 was 17.05 cars of freight, and 6.94 ears of passengers; in 1916-17, the number of freight cars per train was 16.03, and of passengers, 7.80.

The average number of empty cars per train in 1915-16 was 3.79, and in 1916-17, 3.58.

In 1915-16, the average of train miles per mile of road was, for freight trains, $3,137\cdot84$, and for passenger, $2,029\cdot72$; in 1916-17, these figures were, respectively, $3,365\cdot72$ and $2,270\cdot37$.

In 1915-16, the average per mile of road of revenue producing freight carried one mile was 1,028,785·16 tons, and passengers, 130.201·02; in 1916-17, the figures were: freight, 1,191,703·93 tons, and passengers, 215,271·92.

The number of tons all freight, per mile of road, carried one mile in 1915-16 was 1,043,694-43, and in 1916-17, 1,206,280-31.

The train mileage in 1915-16 was: passenger, 3,099,463 miles; freight, 4,791,476 miles; and in 1916-17, passenger, 3,447,301 miles; freight, 5,110,481 miles.

The loaded car mileage in 1915-16 was \$1,714,686 miles, and in 1916-17, \$1,933,436 miles.

The empty car mileage in 1915-16 was 18,178,425 miles, and in 1916-17, 18,294,030 miles.

The caboose car mileage in 1915-16 was 4,515,858 miles, and in 1916-17, 4,773,896 miles.

The total car mileage in 1915-16 was: passenger, 21,506,251 miles, and freight, 104,408,969 miles; in 1916-17 the figures were: passenger, 26,872,659, and freight, 105,001,362.

The total freight moved in 1915-16 was 5,680,178 tons; of this quantity, 5,447,220 tons were revenue producing. In 1916-17 the total freight moved was 7,003,379 tons, of which 6,770,224 tons were revenue producing.

Repairs to passenger cars cost, per car, in 1915-16, \$717.77, or per car mile, 1.67 cents; and in 1916-17, \$882.59, or per car mile, 1.73 cents.

Repairs to freight cars cost, per car, in 1915-16, \$60.12, or per car mile, 0.81 of a cent; and in 1916-17, \$75.83, or per car mile, 0.78 of a cent.

Repairs to locomotives cost, per locomotive, in 1915-16, \$1,930.91, or per locomotive mile, 6.86 cents; and in 1916-17, \$2,797.43, or per locomotive mile, 9.48 cents.

PRINCE EDWARD ISLAND RAILWAY.

This is a narrow gauge railway, 3 feet 6 inches. It extends from Tignish to Georgetown, 158.60 miles, and from Charlottetown to Murray Harbour, 52.30 miles, with branches to Souris, Elmira and Cape Traverse. The length of the road operated was 275.20 miles.

CAPITAL ACCOUNT.

There was an addition of \$609.751.71 to the expenditure on capital account during the year ended March 31, 1917, making the total capital expenditure \$11,451,124.15. The principal item was \$604,676.86 for the car ferry between Carleton Point. P.E.I., and Cape Tormentine, N.B., on the mainland.

REVENUE ACCOUNT.

The gross earnings amounted to \$630,045.69, and the working expenses to \$833,-853.02, leaving a deficiency of \$203,807.33. Compared with the previous year, there was an increase of \$239,118.87 in the gross earnings, and an increase of \$288,832.40 in the working expenses.

The number of passengers carried was 401,636, producing a traffic of \$247,002.37, of which \$69,113.52 was for water traffic. Of freight, 150,101 tons were carried. The freight earnings amounted to \$219,442.74 for the railway and \$108,508.13 for water traffic to mainland. The earnings from mail and express amounted to \$47,498.70 for the railway and \$7,593.75 for water traffic.

The engine mileage was 458,376 miles; the train mileage, 368,495 miles; the car mileage, 2,143,610 miles.

The gross earnings per mile of railway amounted to \$1,616.39; per engine mile, 97 cents; per train mile, 1.21; and per car mile, 20.75 cents.

The working expenses per mile of railway aggregated \$2,135.15, and per train mile, 159.46 cents.

NEW BRUNSWICK AND PRINCE EDWARD ISLAND RAILWAY.

Under an agreement, dated March 18, 1915, ratified by the Act of 1915, chapter 16, and under an Order in Council of May 12, 1915, this railway has been purchased by the Government, as part of the government railway system, for the sum of \$270,000. The agreement provided that it should be held to have come into force on August 1, 1914, and that the Government should have the right to sole possession, to operate the road, and to receive all its revenues, until the transfer is completed and the purchase price paid. The transfer has not yet been completed, but the road was taken over on August 31, 1914, and has since been operated by the Government.

The road is 36.05 miles in length, and runs from Sackville to cape Tormentine, New Brunswick, forming a connection between the Intercolonial railway and the new car ferry between cape Tormentine and Carleton Point, on Prince Edward Island.

Details as to working expenses, traffic, etc., will be found in the reports of the General Manager of Government Railways and other officers, Appendix II.

INTERNATIONAL RAILWAY OF NEW BRUNSWICK.

Under an agreement, dated August 1, 1914, ratified by the Act of 1915, chapter 16, and under an Order in Council of August 27, 1914, a lease of this railway has been entered into by the Government for a term not exceeding five years, at an annual rental of \$90,000, payable half-yearly, with option of purchase at any time within that period for the sum of \$2,700,000. The road was taken over, as part of the government railway system, on August 1, 1914. It is 111·30 miles in length, extending from the Intercolonial railway at Campbellton, N.B., to St. Leonards, N.B.

Details as to working expenses, earnings, traffic, etc., will be found in the reports of the General Manager of Government Railways, and other officers, Appendix II.

ST. JOHN AND QUEBEC RAILWAY.

By the Act of 1912, chapter 49, a certain agreement, dated the 5th of March, 1912, made on behalf of the Dominion and the province of New Brunswick and the St. John and Quebec Railway Company for leasing to the Dominion, for a term of ninety-nine years, the company's railway, when fully constructed, from the city of St. John, N.B., to a point of connection with the Transcontinental railway at or near the town of Grand Falls, N.B., was ratified; the Act to come into force on proclamation by the Governor in Council. The agreement provided that on construction and equipment of certain sections, the Dominion would lease and operate the same.

The road extends from Centreville to Gagetown, 119.87 miles. The portion from Centreville to Fredericton was taken over for operation by the Canadian Government Railways on January 1, 1915, and the portion from Fredericton to Gagetown on March 2, 1915.

Details as to working expenses, earnings, traffic, etc., will be found in the reports of the General Manager of Government Railways and other officers, Appendix II.

HUDSON BAY RAILWAY.

This railway will run from The Pas, Manitoba, a point on the river Saskatchewan where connection is made with the Canadian Northern Railway system, to Port Nelson, on the western coast of Hudson bay.

The work of construction for the first 185 miles, from The Pas to Thicket Portage, was placed under contract in August, 1911. A contract for a further distance of 68 miles, from Thicket Portage to Split Lake Junction, was let on September 20, 1912, and a third contract, covering the distance, 165 miles, from Split Lake Junction to Port Nelson, on December 17, 1912, a total distance of 418 miles.

The final location into Port Nelson was completed in August, 1914, making the total length of the line from The Pas to Port Nelson, 424 miles. By the end of the fiscal year, March 31, 1917, grading had been completed, except about 11 miles of gaps, to Port Nelson; the track had been laid and the telegraph line built up to about mile 334, the second crossing of the river Nelson, at Kettle rapids.

Over 80 per cent of the track, out of the total 424 miles of railway, has been laid up to the second crossing of the Nelson river at Kettle rapids, about 90 miles from Port Nelson, where the bridge substructure work has been begun.

The work of constructing the terminals for the railway at Port Nelson has been carried on by the Department with a force under an engineer in charge.

The construction of the permanent deep water works, giving connection between the mainland and deep water, has made satisfactory progress in view of an unusually stormy season. The system of steel bridges, seventeen spans, has been completed.

In the season of navigation of 1915 occulting acetylene gas beacon lights, visible at a distance of S miles, were established by the Department of Marine and Fisheries at a number of points in Hudson bay and Hudson straits.

Communication with Port Nelson is afforded by means of Marconi wireless stations established at that point and at The Pas.

The expenditure for the fiscal year ended March 31, 1917, was \$2,604,279.94, making the total expenditure up to that date, \$18,354,188.37.

NATIONAL TRANSCONTINENTAL RAILWAY.

Under an agreement, dated July 29, 1903, ratified by the Dominion Act of that year, chapter 71, and under a modifying agreement dated February 18, 1904, ratified by the Act of that year, chapter 24, the Grand Trunk Pacific Railway Company, a company incorporated by the Act of 1903, chapter 122, undertook certain obligations in respect of the construction and operation of a line of railway, wholly upon Canadian territory, between the city of Moncton, in the province of New Brunswick, and the navigable waters of the Pacific ocean. The railway is composed of two divisions, namely, the eastern division, between Moncton and Quebec, thence westerly through the northern part of the provinces of Quebec and Ontario, and, in the province of Manitoba, to the city of Winnipeg, and the western division, between Winnipeg and the Pacific ocean. The eastern division is being constructed by the Government under commissioners appointed by the Governor in Council, and on completion is to be leased to and maintained and operated by the company, who undertake to construct at their own cost, and maintain and operate, the western division. The lease of the eastern division is to be for a period of fifty years, at a rental of 3 per cent per annum upon the cost of its construction; the first seven years of the term to be free of rent; both divisions are to be equipped with modern and ample rolling stock by the company, the first equipment to be of a value of not less than \$20,000,000.

By way of assistance to the company in the construction of the western division, it is provided that the Government shall guarantee payment of the principal and interest of an issue of bonds to be made by the company for an amount sufficient to produce a sum equal to 75 per cent of the cost of its construction; but not to exceed \$13,000 per mile in respect of the prairie section from Winnipeg to the eastern limit of the Rocky mountains. This limit has been established as the east bank of Wolf creek, a point 120 miles west from Edmonton.

By the Act of 1905, chapter 98, three deeds of trust by way of mortgage, set out in the said Act, were ratified and confirmed, namely, one dated June 10, 1905, between the Grand Trunk Pacific Railway Company, the Royal Trust Company, and His Majesty, to secure the issue of first mortgage bonds; the second dated March 15, 1905, between the Grand Trunk Pacific Railway Company, the National Trust Company, and the Grand Trunk Railway Company, to secure the issue of second mortgage bonds, and the third, also dated March 15, 1905, between the Grand Trunk Pacific Railway Company, the National Trust Company, and the Grand Trunk Railway Company, to secure the issue of first mortgage bonds in respect of the branch line designated as the "Lake Superior Branch."

Payments from the proceeds of the bonds of the company for work done, etc., on the western division, are made from time to time on certificates given by the Government Chief Engineer of this division, showing approved expenditures. By the Act of 1909, chapter 19, authority was given for aiding in the completion of the construction of the "prairie" section by a loan to the company of \$10,000,000, to be secured, as collateral, subject to any prior lien, by a mortgage on the "prairie" section of their road; such loan to bear interest at the rate of 4 per cent per annum, and to be repayable in ten years.

This loan, which is dealt with by the Finance Department, was duly made; the mortgage deed being dated May 22, 1909.

By the Act of 1913, chapter 23, authority was given for a loan to the company not exceeding \$15,000,000, at 4 per cent interest, the loan being repayable by July 1, 1923. Under this authority, \$15,000,000 has been advanced to the company. Its debentures to an equal amount have been taken by the Government in pledge as security for this loan, as provided by the Act.

By the Act of 1913, chapter 24, authority was given for the purchase of 3 per cent bonds of the company to the extent of the balance of the authorized issue. Such balance, to the amount of \$6,800,000, has been purchased by the Government.

By the Act of 1914, chapter 34, authority was given for the guarantee of the principal and interest of an issue of 4 per cent bonds to be made by the company for the purpose of aiding the provision of the balance of moneys required for the completion of the "Mountain Section" to provide for expenditures not exceeding \$16,000,000; such bonds to be secured by a new trust deed granting mortgages or charges upon the present and future undertakings and properties of the company; such guarantee to be accepted as a full, final and satisfactory settlement of all claims by the company for further aid in respect of the construction of the western division.

In pursuance of this Act, a trust deed securing the issue of bonds to the amount of £3,280,000, was executed on August 5, 1914.

The several government expenditures on the eastern division were to be made from appropriations by Parliament for the purpose, and on the recommendation of the Minister of Railways and Canals, to whom accounts of all receipts, expenditures and liabilities are to be furnished monthly.

. By various Acts and Orders in Council, the time for completion has been extended, and by the Act of 1914 (the Grand Trunk Pacific Railway Guarantee Act), section 11, it was provided that "notwithstanding anything contained in the said trust deed of tenth of June, 1905, or in any Act or Order in Council heretofore passed, the date for completion of the western division shall be the 31st of December, one thousand nine hundred and fifteen." By section 2 of this Act, the "Western Division" was defined as extending from the city of Winnipeg to the Pacific ocean.

By the Act of 1912, chapter 39, the construction of the eastern division, and its operation, until completed and leased to the Grand Trunk Pacific Railway Company, was placed under the charge and control of one commissioner (in place of four) to be appointed by the Governor in Council, and to hold office during pleasure. By an Order in Council, dated April 4, 1912, Mr. R. W. Leonard, C.E., the Chairman of the Commission as then existing, was appointed as such commissioner. Mr. Leonard having resigned, the Minister of Railways and Canals was appointed commissioner by an Order in Council of July 3, 1914, as authorized by the Act of that year, chapter 43.

EASTERN DIVISION .-- MONCTON TO WINNIPEG.

Tracklaying between Moncton and Winnipeg was completed (with the exception of the Quebec bridge) in November, 1913, the last spike being driven on the 17th of that month.

Pending the completion of the Quebec bridge, the communication across the river will be made by a train ferry.

The statement of the accountant of the department (Part I of the Appendices) shows the capital expenditure on the eastern division for the year ended March 31, 1917, to be \$3,916,586.20, and the total expenditure on capital up to that date, \$163,797,783.66.

During the year 1913-14 the road was operated to a limited extent by the Intercolonial Railway, for the distance 285·25 miles, between Moncton, N.B., and Escourt, Que., a point 54·85 miles west of Edmundston, N.B. During the fiscal year 1914-15 the operation of the road was carried on by the Intercolonial Railway between Moncton and Chaudière, a distance of 455·15 miles.

On May 1, 1915, the National Transcontinental Railway from the city of Quebec to Winnipeg, a distance of 1,355.95 miles, was taken over for operation as part of the Canadian Government Railway system, and was put in operation as such on June 1, 1915.

On July 1, 1915, the Lake Superior branch, between Lake Superior Junction on the Transcontinental Railway and Fort William, Lake Superior, 191.75 miles, was taken over for operation by the Canadian Government Railways, having been leased by the Government from the Grand Trunk Pacific Railway Company.

Authority for the leasing of this branch by the Government was given by the Act of 1915, chapter 18, which provided that any contract for leasing for more than five years, or for the acquisition of the branch, was to be subject to ratification by Parliament.

Under authority of an Order in Council of June 2, 1915, a contract was entered into, dated June 29, 1915, for leasing the branch for 999 years from May 1, 1915, at a rental of \$600,000 a year, payable half-yearly, the first payment to be made on November 1, 1915. The contract provided for an option to the Government for the purchase of the branch for \$13,333,333.33 at any time after March 31, 1936, on notice of one year; the lease to be ratified before June 1, 1920.

The whole railway between Moncton and Winnipeg is operated by the Canadian Government Railways, the distance being 2,003.03 miles, including the Lake Superior branch, 191.75 miles, and the two branches into Quebec city, namely: the Cadorna branch, 5.88 miles, and the Champlain Market branch, 6.48 miles. The Quebec bridge, 0.61 mile, under construction, is not included.

The working expenses amounted to \$7,206,922.20, and the gross earnings to \$5,916,550.99, leaving a deficit of \$1,290,371.21. In addition, \$600,000 was paid as rental for the Lake Superior branch.

Details will be found in the statements of the Comptroller and Treasurer of Government Railways, herewith (Appendix, Part II).

WESTERN DIVISION.

The Western Division extends from the western boundary of the Winnipeg terminals, on the east bank of the river Assiniboine, in the city of Winnipeg, to the city of Prince Rupert, on the Pacific coast, a distance of 1,748 miles, including the $3\frac{1}{2}$ miles on the Shore line of the terminal grounds.

It is divided into two sections, namely, the "Prairie Section," extending from Winnipeg to the east bank of Wolf creek—a point 120 miles west of Edmonton, the capital of the province of Alberta—a distance of 915 miles, and the "Mountain Section," which extends from the east bank of Wolf creek to Prince Rupert, a distance of 830 miles. The terminals extend for a further distance of 3½ miles around the water front of the city of Prince Rupert.

The Government chief engineer of the division, on whose certificates payments are made to the company, is Sir Collingwood Schreiber, K.C.M.G., whose report, showing the position of the work at the close of the fiscal year, March 31, 1917, will be found printed in the appendices hereto, Part IV. He states that the entire division is in good, safe condition for operation for public traffic, but that to comply with the parliamentary acts, the contract and the specification, work to the estimated value of \$2,297,500 remained to be executed on the Prairie section, and of \$2,330,385 on the Mountain section. He gives details of this work. He states that the amount of certified expenditure is: for the Prairie section, \$37,910,534.88, and for the Mountain section, \$93,160,195.76, a total of \$131,070,730.64.

The whole division between Winnipeg and Prince Rupert has been operated since September 6, 1914.

QUEBEC BRIDGE.1

On August 29, 1907, the cantilever bridge in course of construction over the river St. Lawrence by the Quebec Bridge and Railway Company (originally commenced under a subsidy of \$1,000,000 authorized by the Act of 1899, chapter 7, and a subsidy agreement, dated November 12, 1900), collapsed.

Under the terms of an agreement with the company, dated October 19, 1903, ratified by the Act of 1903, chapter 54, the Government had undertaken to guarantee the principal and interest of the bonds or other securities of the company to the limit of \$6,678,200, the company releasing claim to the balance remaining unpaid of the said subsidy; such guarantee to be secured by mortgage on the company's franchises, tolls and property. On February 1, 1904, a mortgage trust deed was executed, conveying to the Royal Trust Company (Montreal) as trustees, all the property and franchises of the company, and providing for the issue of bonds accordingly.

It was provided in this agreement that the Government should have the right at any time, on one month's notice, to take over the company's undertaking, assets,

¹ The history of the Government's connection with the bridge prior to its collapse is given in the Department Annual Report of 1907-8, p. xlvii.

property and franchises on paying the shareholders the amount of their stock at par not exceeding \$265,585.70, with simple interest at 5 per cent and a premium of 10 per cent on the par value of the paid-up shares.

Of the said subsidy of \$1,000,000, there had been paid to the company a total of \$374,353.33 prior to the execution of the above agreement, and subsequent to its execution, payments were made from the proceeds of their bonds on certificates of the Government engineer covering work done and materials delivered.

After the collapse of the bridge, the right of the Government to take over the company's undertaking was exercised under the authority of an Order in Council of August 17, 1908. The date of assumption was December 1, 1908. The total of the amounts paid by the Government to the several shareholders for their shares was \$355,279.07, payment being made to the parties concerned in November, 1908. The deed of assignment and transfer from the company to the Government was dated October 18, 1909.

Under authority of an Order in Council of August 17, 1908, a board of three engineers was constituted for preparation of a new design and specification, and for the reconstruction of the bridge, with powers to call in expert engineers as advisers on points of difference that might arise.

In June, 1910, the formal eall for tenders was made by newspaper advertisement. In response, 35 different propositions were submitted, which were duly considered by the board, who, finally, after calling in advisory engineers, recommended the acceptance of an alternative design sent in by the St. Lawrence Bridge Company (with whom are associated the Dominion Bridge Company and the Canadian Bridge Company). This design the board considered to possess certain features of strength, simplification of erection, economical distribution of material, and general appearance which, in their opinion, would produce a bridge that "would compare most favourably with the highest type of long-span bridges in existence." By an Order in Council of March 31, 1911, authority was given for entrance into contract with the conjoined companies named, and such contract was executed under date April 4, 1911. The contract price is 9.02 cents a pound, aggregating about \$8,650,000, a saving of about \$2,600,000 having been effected by the elimination of the highways for vehicular traffic contemplated in the original design; the contract date for completion was December 31, 1915.

The bridge will have a total length of 3,228 feet, or about three-fifths of a mile. The centre span will be 1,800 feet long; the length of the suspended portion of it being 640 feet. This span will, for a length of 760 feet over the channel of the river, have a height of 150 feet between its lower members and the high water level of the river. The two eantilever arms will each be 580 feet long. The width of the bridge between trusses will be 88 feet. The bridge will comprise a double-track railway and two sidewalks for foot passengers.

Under date January 10, 1910, a contract for the substructure was entered into with Messrs. M. P. and J. T. Davis, whose tender was the lowest of three obtained after newspaper advertisement calling for tenders; and supplementary agreements necessitated by changes in the caisson design and in the location of the north anchor pier, were made with them on May 23, 1910, and September 2, 1911.

The Board of Engineers for reconstruction, as originally constituted, has been modified by retirements and death, and is at present composed as follows: Charles N. Monsarrat, M. Can. Soc. C.E., chairman and chief engineer; Ralph Modjeski, Am. Soc. C.E., and H. P. Borden, M. Can. Soc. C.E.

The headquarters of the board are in Montreal.

The report of the chairman and chief engineer for the year ended on March 31, 1917, will be found printed in the appendices hereto, Part V.

The report shows that during the year the whole structure was completed, including the suspended span which was erected at a point about 3 miles down the river. On the 11th of September, 1916, this span was floated up the river, and the operation of lifting it into place began and proceeded successfully until it had reached a height of about 20 feet above the water, when some portion of the contractor's erection equipment failed, with the result that the entire span tilted towards the west and disappeared into the river. The St. Lawrence Bridge Company assumed entire responsibility for the loss, and took immediate steps to replace the span at their own expense. At the close of the year fabrication had been going ahead rapidly.

An investigation was at once held by the board and officers of the company, and the board made a report on the accident, which will be found in Appendice V, p. 74.

The expenditure during the fiscal year ended March 31, 1917, was \$2,733.677, paid out of capital, making the total capital expenditure on the reconstruction of the bridge, \$13,244,583,84. Expenditure had previously been made from income, namely, for the year 1908-9, \$422,867.12 (in which is included the amount, \$355,279.07, paid for acquiring the stock of the Quebec Bridge and Railway Company, and \$31,765.44, the expenses of the commission of inquiry into the causes of the collapse of the old structure), and for the year 1909-10, \$111,788.02 for the preparation of plans, etc., or a total of \$534.655.14, against which there is credited the sum of \$100,000 paid in 1910 to the Government by the Phenix Bridge Company, the contractors for the original superstructure, in the final adjustment of claims arising out of the collapse. The total net expenditure by this department up to March 31, 1917, after crediting the sum of \$91.188.10, the proceeds of the sale of scrap and unused material from the collapsed bridge, is \$13,679,238.98. This is irrespective of the amount of subsidy, \$274,353.33 paid to the Quebec Bridge Company as above mentioned, and of the amounts paid by the Finance Department, namely, for the guaranteed bonds of the company, \$6,424,781; to the province of Quebec, \$250,000; to the city of Quebec, \$300,000; and \$485.20, an award of the Supreme Court, in all \$6,975,266.20. Including these items the aggregate of all expenditure is \$21,028,858.51.

WELLAND SHIP CANAL.

This important work has for its object the affording of greater and better accommodation for a larger class of vessels than those that can be used on the present canal. The present canal lies between Port Colborne, lake Erie, and Port Dalhousie,

lake Ontario. Its length is 264 miles, and comprises 25 lift locks, the dimensions of which are 270 feet by 45 feet, with a depth of 14 feet of water on the sills.

The proposed Welland ship canal as finally located follows the course of the present canal from Port Collorne on lake Erie to Allanburg, half-way across the peninsula. From this point an entirely new cutting is to be made, crossing the present canal just below lock No. 25, the water level of the two canals at this point being the same, viz.: 568 feet above sea-level. The new canal again crosses the present one below lock No. 11, the water of both canals at this point being at an elevation of 382 feet above sea-level.

The proposed canal enters lake Ontario at the mouth of the Ten Mile creek about three miles east of Port Dalhousic. The total length of canal from lake to lake is 25 miles; and the difference in level between the two lakes, $325\frac{1}{2}$ feet, is to be overcome by seven lift locks, each having a lift of $46\frac{1}{2}$ feet. The dimensions of the locks are to be 800 feet in length by 80 feet in width in the clear and with 30 feet of water over the mitre sills at extreme low stages in the lakes. The width of the canal at the bottom will be 200 feet and, for the present, the canal reaches will be excavated to a depth of 25 feet only, but all structures will be sunk to the 30-foot depth, so that the canal can be deepened at any future date by dredging out the reaches.

A new western breakwater will be built at Port Colborne to ensure quiet water in the harbour during storms.

The outer entrance piers in Lake Ontario will be placed about $1\frac{1}{2}$ miles from shore, where the depth of water is 30 feet; a wide channel will be dredged out from these piers and an embankment formed on either side of it about 500 feet wide. The lock walls will be 82 feet high above the top of the gate sills.

The work is divided into 9 sections, of which section No. 1, approximately 3 miles, at the Lake Ontario end of the canal, was placed under contract on the 1st of August, 1913; section No. 2, approximately 4½ miles, was placed under contract on the 31st of December, 1913; section No. 3, approximately 2 miles, was placed under contract on the 4th of October, 1913; section No. 5 was placed under contract on the 22nd of December, 1913.

During the fiscal year 1916-17, the sum of \$3,513,769.82 was expended, making the total expenditure, \$13,474,333.26; to this is to be added for previous expenditure, for preliminary surveys, borings, etc., \$219,589.73, making the total cost up to the 31st of March, 1917, \$13,693,922.99.

In view of existing war conditions contract work on the canal has been suspended under notices served in January, 1917.

SUBSIDIZED RAILWAYS.

Information as to subsidized railways is given in the statements of the accountant of the department, which will be found in the appendix hereto, Part I. The accountant's statements show all payments made since the beginning of the system of railway subsidies in the year 1883-84.

The total payments made on subsidy account during the year ended March 31, 1917, amounted to \$959,583.88, paid out of income.

BOARD OF RAILWAY COMMISSIONERS FOR CANADA.

By the Act 3, Edward VII, chapter 58 (1903), amending and consolidating the law respecting railways, the Railway Committee of the Privy Council was abolished, and in lieu thereof a Board of Commissioners, under the above title, was created, to consist of three members (increased to six by the Act of 1908, chapter 62), to be appointed by the Governor in Council; this Act was brought into force on February 1, 1904, by proclamation, on the authority of an Order in Council, dated January 18, 1904, which also appointed certain persons as commissioners. By the Act of 1908, chap. 61, the jurisdiction of the board was extended to cover the operation of telegraph and telephone lines, and by the Act of 1908, chapter 62, certain amendments were made to its constitution and otherwise. By the Act of 1909, chapter 31, the board was empowered to determine the maximum price to be charged for electricity developed through waterpowers leased from the Crown. An Act of 1910, chapter 50, amended certain provisions of the Railway Act regarding the powers of the board, and the Act of the same year, chapter 57, extended the jurisdiction of the board to cover the fixing by it of the tariffs of wireless telegraph and marine electric telegraphs or cables. The Act of 1911, chapter 22, gave powers to the board to require from railway companies the establishment of a staff of fire-rangers, modified the previous enactments regarding the disposal of electricity developed through Government leased water-powers, and amongst other enactments, made provision for action, through the board, to ensure the efficient operation of subsidized railways. The office of the board is at Ottawa, though it is authorized to hold sessions in any part of Canada. Its decisions and orders are final, subject to appeal to the Supreme Court upon questions of jurisdiction or law, and also to action thereon by the Governor in Council, in his discretion.

It is required to make annually a report of its proceedings, which report is laid before Parliament. The report for the year ended March 31, 1917, has been received, and will be laid before Parliament in due course.

CANALS.

The total expenditure on the Dominion canals for the twelve months ended March 31, 1917, was \$6,028,100.73, comprising \$1,304,589.09 charged to capital, \$399,414.50 charged to income, \$801,937.90 for staff, and \$522,159.24 for repairs; the last two items being charged to revenue.

The balance of rentals due on April 1, 1916, was \$153,055,38. The rentals accrued during the year amounted to \$275,206.99, making a total of \$428,262.37. Of this amount, there was collected during the year a total, after deducting abatements aggregating \$7,380.65, of \$271,520.28. The balance remaining due on March 31, 1917, was \$149,061,144. It should be observed that, as a general rule, rentals are payable in advance, this fact accounting, to a considerable extent, for the large amount of rental due at the end of each year.

The total revenue collected amounted to \$461,423.14, the balance being made up of wharfage dues, fines, etc., and a total of \$175,536.50 derived from the operation of the Port Colborne grain elevator on the Welland canal.

No tolls have been charged on any of the Dominion canals since 1903-4.

Summaries of these expenditures and receipts will be found in the statements furnished by the accountant of the Department, printed in the appendices, Part I, of the present report.

The above figures relate to the fiscal year 1916-17, but very voluminous statistics relating to canal traffic, and various commercial statistics for the season of navigation of the year 1916, will be found in the "Canal Statistics," which are issued as a separate report.

CANAL TRAFFIC.

The following features of the principal canal traffic during the season of 1916 will be of interest:—

On the Welland canal, 2,544,964 tons of freight were moved, a decrease of 516,048 tons. Of the total, 693,578 tons were agricultural products, and 265,563 tons were produce of the forest; of coal, 1,190,142 tons were carried; 2,544,964 tons were through freight, of which 2,045,343 tons passed eastward.

Of the through freight, Canadian vessels carried 1,682,826 tons, a decrease of 233,189 tons, and United States vessels 632,142 tons, a decrease of 292,902 tons.

The total through freight passed eastward and westward through this canal to United States ports was 203,407 tons, a decrease of 282,209 tons compared with the year of 1915.

The quantity of grain passed down the Welland and St. Lawrence canals to Montreal was 609,119 tons, a decrease of 510,008 tons, as compared with the previous year; no transhipments have been made at Ogdensburg since 1903.

On the St. Lawrence canals, 3,368,064 tons were moved, a decrease of 41,403 tons, of which 2,404,815 tons were eastbound through freight and 568,970 tons westbound freight; 660,555 tons were agricultural products, 1,688,304 tons coal, and 650,590 tons forest products.

On the Ottawa river canals, the total quantity of freight moved was 237,651 tons, a decrease of 34,719 tons, of which 139,168 tons were products of the forest.

On the Chambly canal, 398,977 tons were moved, a decrease of 16,501 tons, of which 242,654 tons were produce of the forest and 100,165 tons of coal.

On the Rideau canal, 105,430 tons were carried, a decrease of 15,351 tons; 9,912 tons being produce of the forest and 6,915 tons of coal.

On the St. Peters' canal, 9,629 tons were carried, an increase of 6,734 tons; 3,787 tons were coal. The canal was closed to public traffic, during the season of 1915, for the reconstruction of the lock and was opened on September 1, 1916.

On the Murray canal, 46,680 tons passed, an increase of 15,952 tons.

On the Trent canal, 45,009 tons were moved, a decrease of 4,895 tons, of which 38,841 tons were the produce of the forest.

On the St. Andrews lock, on the Red River, Manitoba, the volume of business was 13,438 tons.¹

¹This work, which consists of a lock and dam on the Red River, about fifteen miles north of Winnipeg, was built and is operated by the Department of Public Works. It affords communication between Winnipeg and lake Winnipeg. It is only mentioned here for statistical purposes.

On the Sault Ste Marie canal, the total movement of freight was 16,813,649 tons, being an increase of 9,062,692 tons. There were 6,689 passages of vessels, the number of lockages being 4,777. Of wheat, 86,874,340 bushels, and of other grain, 46,996,508 bushels were carried; also 3,353,270 barrels of flour; 11,504,773 tons of iron ore; 1,033,647 tons of coal; and 6,333,600 feet, board measure, of lumber.

The principal facts of these statistics, summarized, are as follows:-

The total traffic through the several canals of the Dominion for the season of 1916 amounted to 23,583,491 tons, an increase of 8,384,688 tons compared with the previous year; 263,648 passengers were carried, an increase of 12,812.

The report of the chief engineer of the department, which will be found in Part III of the appendices, give comprehensive information as to the several works under his charge, the principal of which are the Hudson Bay railway, the Trent canal, the new Welland ship canal, and the terminals of the Intercolonial Railway near Halifax.

RAILWAY STATISTICS.

The digest of the sworn statements of railway companies relating to their operations in Canada for the twelve months ended June 30, 1917, is prepared by the departmental comptroller of statistics, and is issued as a separate report.

CANAL STATISTICS.

The traffic statistics of the Dominion canals for the season of navigation of 1916 are compiled under the direction of the same officer, and are also issued as a separate report.

I have the honour to be, sir, Your obedient servant,

> A. W. CAMPBELL; Deputy Minister.

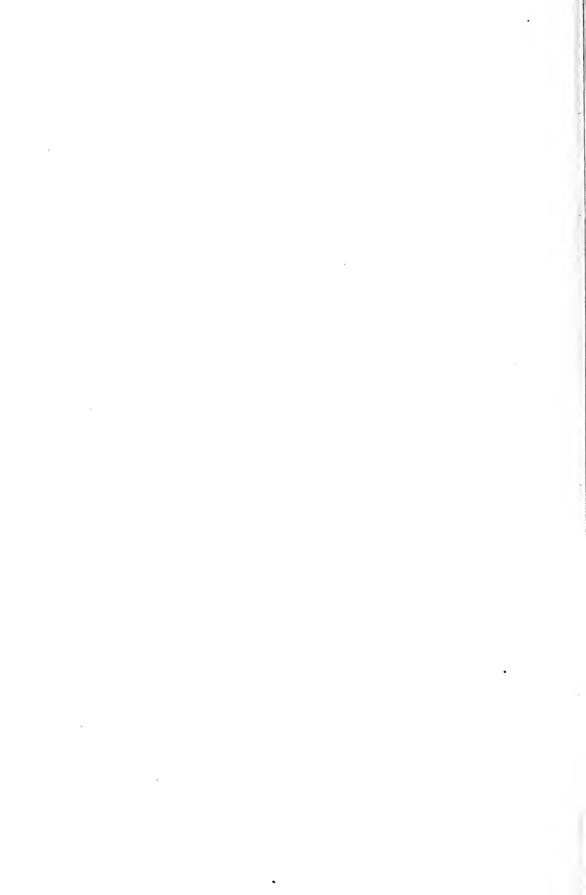
APPENDIX I

STATEMENTS OF THE ACCOUNTANT



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cts

SUMMARY.

General Summary of the Expenditure and the Revenue for the fiscal year ending March 31, 1917, and previous years.

Expenditure.

Total expenditure for the year as per statements following		us.
pages 6 to 35	48,226,082	40
Bridge and Railway Subsidies	41,895,886	53
Total expenditure on Canals for the year	6,028,100	
General expenditure common to both Railways and Canals, for the year	302,095	14
The grand total of the expenditure to March 31, 1917, on Railways and Canals, as shown on page 23 of this report, amounts to This expenditure is divided as follows:—	, 900,596,933	18
Grand total expenditure on Railways, including Quebec Bridge	•	
and Railway Subsidies	734,998,814	43
Grand total expenditure on Canals		44
Grand total general expenditure, common to both Railways and Canals	1,457,384	31
REVENUE.		
The revenue from both Railways and Canals, for the fiscal year	,	
amounts to	24,001,181	
Revenue from the Railways	23,539,758	
Revenue from the Canals		14
The grand total of the revenue to March 31, 1917, on Railways	905 060 560	70
and Canals both amounts to (see page 23) Grand total of the revenue from the Railways.	248,395,298	47
Grand total of the revenue from the Canals, amounts to		
Citality total of the resente from the Canada, amounts to the second	,,	

The sundry classifications of the expenditure and the revenue are shown on pages 6, 7, 8 and 9 for the fiscal year; and page 23 for the expenditure previous to Confederation and since.

According to instructions, approved by Order in Council dated October 23, 1917, the annual report of the branch has been made as concise as possible. All statements of a statistical nature have been omitted, and for more complete information on the expenditure or revenue of any railway or canal the previous annual reports should be consulted.

DEPARTMENT OF RAILWAYS AND CANALS.

W. C. LITTLE,

 $A\,ccountant.$

EXPENDITURE.

General Statement of Expenditure during the Year ending March 31, 1917.

			8	cts.	8	cts.
		r statements, pages 8 anž 9 to Railways	37,799, 403, 2,733,	556 24 069 41 677 00 583 88	48,226.	082 40
		re, Railways to Canals. Canals, General		881 83 218 90	41,895.	886 53
		ce, Canalsture			6,028, 302,	100 73 0 5 14
Total ex	penditu	re			48,226,	082 40
Capital Accoun Revenue Accou Income Accoun	t nt t	ture in General.—				
Total exp	enditur				48,226,	082 40
Railways—		TURE BY ACCOUNTS— —Railways	12,003,	649 70	12,003,	649 70
Revenue ex	penditu	re—Railways. Railways, General		906 54 900 90	25,799.	906 54
Quebec Bridge—	-	-Railways, General	0.799	677 00	399, 2,733,	069 41
				077 00	2,100,	011 00
$Railway\ Subsid$ Consolidate		-Railway Subsidies	959,	583 88	959,	583 88
	xpenditi	ire, Railways, \$41,895,886-53.				
Canals— Capital exp	enditure	-Canals	4,304,	589 09	4,304,	589 09
Income	11	Canals	372, 27,	102 96 311 54	399,	414 50
Revenue	11	Canals Staff, General, Canals Repairs, Canals Repairs, General	101, 486,	022 11 915 79 167 67 991 57	1,324,	097-14
Total e Genera	xpenditi l Expend	ire on Canals, \$6,028,100.73.			302.	095 14
2 2707 7 30						

REVENUE.

GENERAL STATEMENT of the Revenue received during the Year ending March, 31 1917.

	s	cts.	\$	ets.
Total Revenue Received During Fiscal Year			24,001,	,181 75
Revenue from Railways	23,539, 461,	758 61 423 14		
Total revenue as above			24,001,	,181 75
STATEMENT OF REVENUE RECEIVED, IN DETAIL— Railways— Intercolonial Railway. International Railway of New Brunswick. National Transcontinental Railway. New Brunswick and Prince Edward Island Railway Prince Edward Island Railway.	5,916, 38.	386 89 678 67 550 99 336 75 045 69		
Total St. John & Quebec Ry		759 62		
Total revenue from Railways			23,539	,758 61
Canals— Welland Canal. Elevator, Port Colborne. Welland Ship Canal. Lachine Canal Beauharnois Canal. Cornwall Canal. Williamsburg Canal. Soulanges Canal. Chambly Canal. Carillon and Grenville Canal. Rideau. Trent Canal. St. Peters Canal. Sault Ste. Marie Canal Murray Canal Ste. Anne's Lock and Canal	175, 141, 15, 38, 2, 3,	277 37 536 50 824 50 824 50 476 75 120 40 332 50 944 74 609 00 769 00 860 00 397 86 707 23 2 00 143 08 218 00 204 21	461	,42 3 14
Total revenue received during fiscal year				,181 78

\$8 GEORGE V, A. 1918 Expenditure on Canals for year ended March 31, 1917.

Name of Canals.	Chargeable to	Chargeable to	Chargeable	to Revenue.	Total Expendi
rane of canals.	Capital.	Income.	Staff.	Repairs.	year.
	\$ cts.	ŝ ets.	8 ets.	8 ets.	\$ cts.
Carillon and Grenville	24,073 21 33,735 10	1,614 41 175,000 00 29,999 46 1,493 07	26,235 56 35,300 97 87,050 60 100,803 96 5,656 45 61,858 80 28,047 09 35,664 97 3,958 16	16,914 51 35,678 51 38,459 87 95,423 01 4,076 73 71,498 90 24,223 18 24,402 39 4,459 01	43,150 07 120,279 48 127,124 88 395,300 18 9,733 18 197,092 26 52,270 27 61,560 43 8,417 17
North Channel St. Ours Lock. St. Peters Trent Welland Welland Ship. Williamsburg—	48,955 31 613,088 60	126,561 99 16,616 85 18,776 39	4,176 25 3,301 49 53,204 67 221,004 06	3,829 74 455 38 47,315 71 96,111 44	48,955 31 8,005 99 130,318 86 730,225 83 335,891 89 3,513,769 82
Galops Rapide Plat. Williamsburg	20,028 25 1,638 80	2,040 79	33,759 08	23,319 29	20,028 25 1,638 80 59,119 16
	4,304,589 09	372,102 96	700,022 11	486,167 67	5,862,881 83
GENERAL ON CANALS.					
Dredge Vessels, Lachine. Dredge Vessels, Rideau. Miscellaneous. Statistical Officers. Sunday Labour. Surveys and Inspections.			3,333 18 34,175 54 42,372 25	7.734 71 24,648 74 610 18	7,734 71 24,643 74 3,943 36 34,175 54 42,372 25 15,583 51
Quebec Canals— Dredging Maintenance Hungry Bay Dyke			19,134 82	3,002 94	7,218 16 19,134 82 3,002 94
Miscellaneous— Miscellaneous works not provided for Civil Service Amendment Act Compassionate allowances to families of deceased employees		1,020 31 3,489 56	2,900 00		1,020 31 3,489 56 2,900 00
		27,311 54	101,915 79	35,991 57	165,218 90
Grand total	4,304,589 09	399,414 50	801,937 90	522,159 24	6,028,100 73

SESSIONAL PAPER No. 20

EXPENDITURE on Railways for Year ended March 31, 1917.

Name of Railways.	Chargeable to Capital.	Chargeable to Income.	Chargeable to Revenue. Working Expenses.	Total.
	\$ ets.	\$ ets.	\$ ets.	\$ cts.
Hudson Bay Railway	2,604,279 94 4,490,472 56		*15,653,357 78	2,604,279 94 20,143,830 34
and Betterments	3,724 98		1,070,334 64 $165,107$ 26	1,070,334 64 168,832 24
National Transcontinental Railway Construction	122,328 33		90,000 00	90,000 00
National Transcontinental Railway Grain Elevator, Winnipeg	ĺ ,			279,949 83
National Transcontinental Railway (Statutory) New Brunswick and P.E.I. Ry	3,514,308 04 46,579 38		7,806,922 20 78,031 22	11,321,230 2- 124,610 60
Prince Edward Island Ry	609,751 71 332,254 93		833,853 02 98,300 42	1,443,604 73 332,254 93 98,300 42
Total	\$12,003,649 70		25,795,906 54	37,799,556 24
Quebec Bridge	2,733,677 00			.2,733,677 00
Railway Subsidies	•••••	959,583 88		959,583 88
General on Railways.				
Enquiry and Report on the Railway Situation of Canada.		72,233 74		72,233 74
Railway Commission—Maintenance Statutory				166,447 1- $49,500$ 00 $44,149$ 09
Surveys and Inspections				46,630 53 4,738 28
Grand Trunk Pacific Ry. Remuneration to Government Director.		666-66		666 66
Contribution to the International Association of Railways Congress		97 33		97 33
Act				440 00
ulty of McGill University				2,500 00 2,500 00
Compassionate allowances to families of deceased employees		2,000 00	4,000 00	4,000 00
Continuous Audit on behalf of the Government of Canada		9,166 67		9,166 67
Total		399,069 41	4,000 00	403,069 41
Grand total	14,737,326 70	1,358,653 29	25,799,903 54	41,895,886 53
MISCELLANEOUS EXPENDITURE.				
War Appropriation		299,934 09 2,161 05		299,934 09 2,161 00
Total		302,095 14		302,095 14
Grand Total on Railways and Canals, including Miscellaneous Expenditure	19,041,915 79	2,060,162 93	27,124,003 68	48,226,082 40

^{*}Amount includes rental of the Vale Railway at \$1,200 per annum.

EXPENDITURE on Canals to March 31, 1917. (CAPITAL ACCOUNT.)

Canal.	Previous Years.		1916-17		_ Total.		
	ŝ	cts.	8	ets.	8	ets.	
Baie Verte							
Beauharnois	1,636,690				1,636,690		
Carillon and Grenville	4,182,092				4,182,092		
Chambly	731,696	92	49,30		780,996		
Cornwall	7,246,304	21			7,246,304		
Culbute Lock and Dam	382,391				382,391		
Lachine	14,108,611		24,07		14,132,684		
Lake St. Francis	75,906				75,900		
Lake St. Louis	298,176			-	298,176		
Murray	1,248,946				1,248,946		
Rideau	4,168,069		33,73		4,201,804		
Sault Ste. Marie	4,994,372						
Soulanges	7,904.044				7,904,041		
Ste. Anne's Lock and Canal	1,170,215	9 90			1,170,215	00	
St. Lawrence River and Canals—	1,946,187	50	48,95	× 91	1.995.142	0.7	
North Channel			40,80	.) 31	483.830		
River Reaches	483,830				1,039,895		
Galops Channel	1,039,895 $127,228$				127.228		
St. Ours Lock	648,547				648.547		
St. Peter's	489,599				489,599		
= +-J	15,626,295		613,08		16,239,383		
Trent	29, 399, 405				29,399,405		
Welland	10,180,153		3.513,76		13,693,922		
Welland Ship	1,334,551				1.334.551		
Williamsburg Farran's Point	877,090				877,090		
	6,121,213		20.02		6,141,241		
	2,158,242		1.63		2,159,880		
Rapide Plat	2,100,242	. 00	1.03	0 00	2,15,7,660	,	
Total	118,579,759	06	4,304,58	9 09	122,884,348	: 15	
Canals General	34,966		4,304,33		34,966		
Grand Total	118,614,725	75	4,304,58	9 09	122,919,314	1 84	

Expenditure on Canals to March 31, 1917. INCOME ACCOUNT.

Canals.	Previous Years.	1916–17.	Total.
	\$ ets.	\$ ets.	\$ ets.
Baie Verte Beauharnois Carillon and Grenville. Chambly Cornwail Culbute Lock and dam Lachine Lake St. Francis Lake St. Louis Murray Rideau Sault Ste. Marie Soulanges St. Anne's Lock and Canal St. Lawrence River and Canals St. Lewrence River and Canals St. Peters Tay Prent Welland Welland Welland Ship	44,387 53 265,810 84 351,431 74 759,574 15 592,088 21 60,923 37 1,420,902 70 25,043 68 101,425 11 646,832 76 280,098 04 157,574 35 84,044 81 128,298 11 174,028 88 534,991 54 748 65 924,169 46 1,541,620 07 297,559 36	1,614 41 175,000 00 29,999 46 1,493 07 126,561 99 16,616 85 18,776 39 2,040 79	44,387 53 265,810 84 351,431 74 759,574 15 593,652 62 60,923 37 1,595,902 76 25,043 68 101,423 11 676,832 22 280,098 04 159,067 42 84,044 81 128,598 11 174,028 88 661,553 57 748 65 940,786 31 1,560,396 46
Total	8,391,501 36 618,073 56	372,102 96 27,311 54	8,763,604 35 645,385 10
Grand Total	9,009,574 92	399,414 50	9,408,989 42

Expenditure on Canals to March 31, 1917. REVENUE ACCOUNT—(REPAIRS.)

Canals.	Previous Y	ears.	1916-17.		Total.		
	*	cts.	\$	ets.	s	cts.	
Baie Verte Beauharnois Carillon and Grenville Chambly Cornwall Culbute Lock and Dam Lachine Lake St. Francis	525, 691 560, 41- 907, 558 956, 09- 7, 036 2, 012, 068	4 40 3 79 4 27 5 15	16, 91 35, 67 38, 45	3 51 9 87	577, 943, 994, 7,	691 23 328 91 237 30 554 14 036 15 488 76	
Lake St. Louis Murray Rideau Sault Ste. Marie Soulanges St. Anne's Lock St. Lawrence River and Canals	97, 16 1, 696, 166 349, 936 437, 547 138, 28	5 44 5 99 7 11	4,07 71,49 24,22 24,40 4,45	8 90 3 18 2 39	1,767, 374, 461,	238 17 665 34 159 17 949 50 741 63	
St. Ours Lock St. Peters. Fay. Frent.	97, 193 35, 968 674, 369	3 17	3,82 45 47,31	5 38	36,	022 76 423 55 685 47	
Welland Welland Ship Williamsburg	3,628,473	3 42	96,11	1 44	3,724,	584 86	
Total	12,717,485 478,266		486,16 35,99		13, 203, 514,	649 72 257 61	
Grand total	13, 195, 74	8 09	522, 15	9 24	13,717,	907 33	

EXPENDITURE on Canals to March 31, 1917. REVENUE ACCOUNT—(Staff).

Canals.	Previous Years.	1916-17.	Total.	
Baie Verte. Beauharnois. Carillon and Grenville Chambly Cornwall Culbute Lock and Dam Lachine Lake St. Francis. Lake St. Louis. Murray. Rideau. Sault Ste. Marie. Soulanges. Ste. Anne's Lock St. Lawrence River and Canals St. Ours Lock St. Peter's Tay. Trent. Welland Welland Welland Welland Williamsburg	\$ cts 649,574 89 788,478 60 946,844 80 1,554,282 74 11,507 48 2,662,536 68 133,983 99 1,665,890 89 397,825 51 504,256 13 112,047 47 114,324 51 113,161 44 522,515 82 4,615,861 25 620,819 79	\$ ets. 26,235 56 35,306 97 87,050 60 100,803 96 5,656 45 61,858 80 28,047 09 35,664 97 3,958 16 4,176 25 3,301 49 53,204 67 221,004 06 33,759 08	\$ cts. 649, 574 89 814, 714 16 982, 145 77 1, 641, 333 34 11, 507 48 2, 763, 310 64 139, 640 44 1, 727, 749 69 425, 872 60 539, 921 10 116, 005 63 118, 500 76 116, 462 93 575, 720 49 4, 836, 865 31 654, 578 87	
Total	15,413,911 99 1,878,672 96	700,022 11 101,915 79	16,113,934 10 1,980,588 75	
Grand Total	17, 292, 584 95	801,937 90	18,094,522 85	

TOTAL EXPENDITURE by Canal to March 31, 1917.

	Capital.		Income.		Revenue.				m	
Canals.					Staff.		Repairs.		Totals.	
		ets.	ş	ets.	s	ets.	8	ets.	s	ets.
Baie Verte			44,387							87 53
Beauharnois	-1,636,696 $-4.182,093$		265,810 $351,431$		649,574 814,714		525,691 577,328		3,077,7 $5,925,5$	
Chambly	780,996		759,574		982,143		943,237		3,465,9	
Cornwall	7,246,30	4.21	593,651	2.62	1,641,333		994,554	14	10,475,8	
Culbute Lock	382,39		60,923		11,507		7,036			58 46
Lachine	14,132 68		1,595,902		2,763,346	64	2,107,488		20,599,4	
Lake St. Francis Lake St. Louis	75,900 $298,170$		25,043	0.00						950-39 976-11
Murray	1,248,94		101,42	3 11	139,640	44	101,23	17	1,591,2	
Rideau	4,201,80		676,831		1,727,749		1,767,663		8,374,0	
Sault Ste. Marie	4,994,37		280,098		425,871		374,159		6,074,5	
Soulanges	7,904,04		159,067		539,921		461,949		9,064.9	
Ste. Anne's Lock	1,170,21		84,04		116,005	63	142,741	63	1,513,0	
St. Lawrence River & Canals St. Ours Lock	2,518,86 $127,22$		128,298 174,028		118,500	76	101,02	76	3.647,1	.00 02 '80 96
St. Peters	648,54		661,553		116,465		36,423		1,462,9	
Γay	489,59			65						347 88
rent	16,239,38		940,786		575,720		721,683		18,477,5	
Welland	29,399,40		1,560,396	5 46	4,836,865	31	3,724,58	1 85	39,521,2	
Welland Ship	13,693,92								13,693,9	122 99
Williamsburg	1,334,55 $877,09$		11							
" Farran's Point."	6.141,24		$\}$ 299,600	15	654,578	8 87	616,84:	2.78	12,083,7	'86 92
" Rapide Plat	2,159,88)							
Total	122.884.34	8 15	8,763,60-	1 32	16,113,93	10	13,203,649	72	160,965,5	536 29
Expenditure, Canals General.	34,96		645,38		1,980,588	3 75	514,25	61	3,175,1	
Grand total expenditure	122,919,31	4.84	9,408,98	9 42	18,094,523	2.85	13,717,903	7 33	164,140.7	34 4

RECAPITULATION.

YEARLY Expenditure on Canals and Revenue received to March 31, 1917.

			±io			Rev	ENUE.	
		Voor	ending.	Capital.	Income.	Staff.	Repairs.	Revenue received.
7				\$ ets.	S cts.	\$ ets.	S ets	61
Government en				\$ ets.	\$ cts.	5 cts.	\$ cts	\$ ets
prior to con cluding Imp								
ment expend				20,593,866 13	98,378 46			
Hent expend Hovernment	expend	iture		20,500,000 10	00,0,0			
1868 to 1879				17,004,842 55	515,196 21	1,830,398 92	1,832,998 61	5,079,068
Fort, expendit			880	2,123,366 34		195,039 33	147,167 52	341,598
ii	11		881	2,075,891 65	7,246 69	197,573 62	154,653 63	361,558
11	0		882	1,593,174 09	55,025 03	224,572 61	187,399 02	325,231
,	11		883	1,763,001 97	62,503 14	269,415 01	178,617 86	361,604
**	11	1	884	1,577,295 42	60,993 99	280,657 29	192,219 38	372,561
*1	11	1	885	1,504,621 47	58,298-29	280,226 20	201,708 47	321,289
11	11		886	1,333,324 80	31,984 02	282,323 63	198,251 97	328,977
**	11		887	[-1.783,698,16]	65,983-06	285,172 62	198,888 84	321,784
	11		888	1,033,118 34	120,561 59	292,458-76	201,928 93	317,902
	*1		889	972.918 43	162,015 49	301,040 23	240,261 36	333,188
" .	11		890	1,026,364 24	146,853 54	290,516-63	176,089 00	354,816
11	9		891	1,318,092 15	165,843 87	294,562 12	204,768 45	349,431
11	18		892	1,437,149 30	194,129 61	293,115 58	231,089 54	324,475
"	**		893	2,069,573 30	196,185 84	291,048 97	204,759 39	357,089
11	11		894	$\begin{bmatrix} 3,027,164 & 19 \\ 2,452,273 & 65 \end{bmatrix}$	110,512 07	294, 446 34 281,477 04	179,630 13 164,033 71	387,788
"	11		895 896	2,452.275 05 2,258,778 97	$216,057 58 \\ 85,820 49$		209,321 60	339,890
,,	**	1 1	897	2,348,636 91	101,205 74	287,970 36	178,385 47	$339,538 \\ 384,780 $
"	11		898	3,207,249 79	82,400 55		203,478 86	407,652
11	"		899	3,899,877 31	82,205 60		202,312 36	369,044
11	"		900	2,639,561 93	120,653 93		227,626 97	322,642
"			901	2,369,569 89	135,500 57	314,095 04	262,876 07	315,425
11	"		902	2,114.689.88	213,044 91	317,838 61	263,768 27	300.413
**	11		903	1,823,273 61	275.103 58		294,113 92	230,213
11	11		904	1,889,787 20	298,678 23	381,016 82	350,278 54	+ 79,536
**	11		905	2,071,593 72	352,855 43		401,742 79	78,009
11	11	1	906	1 552,121 21	310,716-70		375,889 60	108,667
11	11	. 1	907	887,838 61	254,423 18	329,629 63	287,231 03	105,003
11	17		908	1,708,156 37	483,250 11	473,638-95	411,660 53	144,882
W.	11	1	909	1,868,834 45	699,304 73		433,958 10	199,501
11	11		910	1,650,706 64	459,835 62		491,793 02	193,384
11	11		911	2,349,474 49	385,534 55		471,530 32	221,138
11	11		912	2,554,938 91	384,860 73		555,709 95	264,114
**	11		913	2,255.448 21	292,960 26		535,135 66	307,567
11	11		914 - 015	2,824,536 79	351,397 24	642,844 68	574,038 68	380,188
11	11		915 - 016	5,490,796 03	405,806 32		562,599 27	427,763
**	11		$\frac{916}{017}$	6,142,148 96	348,174 41	697,532 44 700,022 11	529,565 23	446,722
17	"	1	917	4,304,589 09	372,102 96	700,923 11	486,167 67	461,423
*T.	tal			*122,884,348 15	8 763 601 33	16 113 934 10	13 203 649 72	16,665,271

^{*} This does not include expenditure which has been charged to Miscellaneous Lanals Expenditure but only the amount expended on specific canals.

+ Canal tolls abolished this year.

8 GEORGE V, A. 1918

Canals Revenue received during year ending March 31, 1917.

Collection Division.	Wharfage, Storage, Harbour Dues, etc.	Hydraulic and other Rents.	Total.
	\$ ets.	\$ ets.	\$ ets.
Welland Canal Port Colborne Port Colborne Elevator Port Dalhousie	50 10 175,536 50 516 65	404 00 9,268 40 58,038 22	404 00 9,318 50 175,536 50 58,554 87
Totals	176,103 25	67,710 62	243,813 87
Wellard Ship Canal		824 50	824 50
St. Lawrence Canals— Coteau Landing (Beauharnois Canal). " (Soulanges Canal). Cornwall. Cardinal—Williamsburg Canal Lachine Canal (Montreal). " " (Lachine).	77 00 570 74	15,120 40 3,532 00 38,332 50 2,374 00 129,151 09	15,120 40 3,609 00 38,332 50 2,944 74 140,918 29 558 46
Totals	12,973 40	188,509 99	201,483 39
Chambly Canal Chambly St. John's St. Ours Lock		621 00 56 00 32 00 60 00	621 00 56 00 32 00 60 00
Totals		769 00	769 00
Ottawa River Canals— Carillon & Grenville Canal Grenville Carillon. Ste. Anne's Lock.	8 00 52 21	$\begin{array}{c} 192 \ 00 \\ 20 \ 00 \\ 640 \ 00 \\ 152 \ 00 \end{array}$	192 00 28 00 640 00 204 21
Totals	60 21	1,004 00	1,064 21
Rideau Canal Ottawa Kingston Mills Smiths Falls	311 00 95 00	1,923 00 3,473 41 411 00 3,184 45	1,923 00 3,784 41 411 00 3,279 45
Totals	406 60	8,991 86	9,397 86
St. Peter's ('anal		2 00	2 00
Murray Canal		218 00	218 00
Trent Canal	60 00	3,647 23	3,707 23
Sault Ste. Marie Canal		143 08	143 08
Grand totals	189,602 86	271,820 28	461,423 14
Net amount deposited to the credit of the Receiver General			461,423 14

SESSIONAL PAPER No. 20

Hydraulic and other rents, showing rent accrued, paid, and balances due March 31, 1917.

	Totals.		ets.	125,850 18	16, 105 67	39,757 60	161,230 81	1,529 84	15,908 17	18,335 53	25 050 25 050 25 050 25 050	3,532 00	156 00	8 - •	25 T 25 OC	428, 262 37
11.	Balance due Mand, 21, 1017	March of, 171	& cts.	57,989 56	9,360	1,425	30,789 09	760	6,750	14, 465	21.383		4 00	3	00 s :	149,061 44
iaren ol, 19	e credit of the General.	Hydranlic Rents, etc.	s cts.	29 906 62		38,332 50	128,947 09	90 88 80 88	7,068 86	2, 397 23		3,136	32 00		100	266,049 78
rianices due n	Deposited to the credit of the Receiver General.	Lock House Rents.	. cts.	101 00	216 00		:	189	1,923 00	1,250 00	192 00		00 081		00 015	5,770 50
paid, and ba	Abatement for		& cts.	00 021	4,471 00	- 1	1,446 95		165 78	02 222	346 92					7,380 65
HYDRAULIC AND OTHER RENTS, SHOWING FOIL ACCTUCK, PAIC, MICCOMBINGS GUE MATCH 51, 1317.	Canals,			125,850 18 Welland 1 380 50 Welland Shin	Williamsbarg	Cornwall	21, 466 99 Beauharnois	Chambly	15,908 17 Rideau	Trent	550 60 Sault Ste. Marne 22 235 08 Carillon & Grenville	Sonlanges	156 00 Ste. Anne's Lock	1 00 Chats Falls	1 00 Muray	Totals
OTHER RENT	Totals.		& cts.	125,850 18 128,035	16, 105 67	39, 757, 60	25, 129 12, 130 13, 130 130 130 130 130 130 130 130 130 130	· 表 65.1	15,908 17	18,335 53	550 00 550 00 55 035 08	3,532 00	156 00	53	221 OO 123	128, 262, 37
DRAULIC AND	Lock House	;;	es cts.	00 707					_	_	:	396 00			210 00	5,770 50
HY	Hydraulic and other	1916 17.	& cts.		5,505	25,661	14,816 15	181 181	7, 268	16,755		3, 136 00	32 00	00 0	8 8 N S	269,436 49
20		April I, 1916.	.ets.	63, 424 52	10,384 17	14,096 10	6,650 8- 6,850 8- 6,850 8-	E 252	6,717 13	330 30	90 99 Fe		4 00		3 00	153,055 38

Welland Canal.—Amounts Expended on Construction.

	Capital.
Expenditure to March 31, 1916 Expenditure, 1917.	\$ ets. 29,618,995-66
Total Less amounts transferred to Welland Ship Canal	29,618,995 66
Net amount of expenditure	29,399,405 93

Welland Ship Canal.—Amounts expended on Construction.

		ear ding.	Capital.
			\$ cts.
Expenditu "	re	 1914 1915 1916	994,257 60 4,074,200 69 4,892,105 15
4.6		1917	3,513,769 82
	Total	 	13,474,333 26

To which add the preliminary expenditure for surveys, borings, et Welland Canal capital as follows:—	c., charged	to	
190 5 -06	S 13, 231	97	
1906-07			
1907-08		34	
1908-09		37	
1909–10		91	
19 10–11	. 21,229	35	
1911–12	. 23,138	60	
1912 13	. 112,890	92	
			219,589

HUDSON BAY RAILWAY.—Amounts Expended on Construction.

				Year.	Capital.
					\$ ct
vernmen	t Expenditure :	since Confederati	on	1909 1910	92,427 53,042
44	.4	4.4		1911	184, 149
46	4.6	64		1912	159,632
"	6.6	4.6		1913	1,099,063
4.6	4.6	"		1914	4,498,717
44	66	44		1915	4,773,743
	11	11		1916	4,889,131
4.6		66		1917	2,604,279

Quebec Bridge.—Amounts Expended on Construction.

			Year.	Capital.	Income.
Governmen " " " " " " " " " "	nt Expend	iture		\$ cts. 227,563 40 603,293 07 1,512,825 96 2,604,105 61 2,816,305 10 2,746,813 70 2,733,677 00	422,867 12 111,788 02
Less amou	Tota	lll from the Phœnix Bridge Co. 1910		13,244,583 84	534,655 14 100,000 00
		Total to March 31, 1917		13,244,583 84	434,655 14
In this expo scrap a Add amount Amount gu Amount pa Amount pa	enditure a and used m ints paid b uaranteed l aid to the aid to City	as above total of \$91,188.10 has been credited, be aterial from the collapsed bridge. y the Finance Department not included by Act of 1903, Chap. 54 Province of Quebec of Quebec le Tanguay, as per Supreme Court aware	above :-	\$6,424,781 00 250,000 00 300,000 00 485 20	13, 244, 583 8 6, 975, 266 20
Less amou	int receive	d from the Phœnix Bridge Co		S	20,219,850 0- 100,000 0
	th Public -	Accounts Balance Sheet, 1917penditure under Income, 1909 and 1910		\$ 534 655 14	20,119.850 0

EXPENDITURE on the Canadian Government Railways to March 31, 1917.

CAPITAL ACCOUNT.

Railways.	Previous Years. to 1916-17.	1916-17.	Total.
Intercolonial Ry. System as follows:— Canada Eastern Cape Breton Ry. Drummond County Ry. Eastern Extension Ry Intercolonial Ry. Montreal & European Short line Oxford & New Glasgow Ry.	1,324,042.81 106,015,832.36 333,942.72	\$ ets.	\$ cts. 819,000.00 3,860,679.14 1,464,000.00 1,324,042.81 110,506,304.92 333,942.72 1,949,063 21
Total	115,766,560.24	4,490,472.56	120, 257, 032.80
a European & North American Ry a Nova Scotia Ry. International Ry of New Brunswick. Prince Edward Island Ry. New Brunswick & P. E. I. Ry. b Quebec & Saguenay Ry. Hudson Bay Ry. National Transcontinental Ry. Annapolis and Digby. Canadian Pacific Ry. c Carleton Branch Ry. Yukon Territory Works:—Stikine Teslin Ry. Governor General's Cars. Miscellaneous Expenditure.	208,509.72 3,937.47 10,841,372.44 224,211.28 15,749,908.43 159,881,197.46 660,683.09 62,789,776.09	3,916,586.20	88,363.18 208,509.72 7,662.45 11,451,124.15 270,790.66 332,254.93 18,354,188.37 163,797,783.66 660,683.09 62,789,776.09 48,410.48 283,323.55 71,538.82 18,000.00
Total on Railways	366,635,792.25	12,003,649.70	378,639,441.95
b Quebec Bridge	10,510,906.84	2,733,677,00	13,244,583.84
Total	377, 146, 699.09	14,737,326.70	391 884,025.79

Expenditure on the Canadian Government Railways to March 31, 1917.

INCOME ACCOUNT.

Railways.	Previous to 1916-17.	1916–17.	Total.
	§ ets.	\$ ets.	\$ cts.
Annapolis and Digby Ry Intercolonial Ry Miscellaneous expenditure.	280,000,00	399, 069 41	$\substack{8,381\ 82\\280,000\ 00\\3,680,467\ 61}$
Total		399,069 41	3,968,849 43 434,655 14
	4,004,435 16	399, 069 41	4,403,504 57

a—Amount paid on this line between 1868 and 1873 included was transferred to Consolidated Fund. b—See Special Statement page 19. c—This Railway which cost \$88,410.48 was sold in 1893 to the City of St. John, N. B., for \$40,000.00 (Vict. Cap. 6).

Expenditure on the Canadian Government Railways to March 31, 1917.

REVENUE ACCOUNT-WORKING EXPENSES.

Railways.	Previous to 1916-17.	1916-17.	Total.
Canadian Pacific Ry. Eastern Extension Ry. *Intercolonial Ry. Intercolonial Ry., Improvements and Betterments. International Ry. of New Brunswick New Brunswick and Prince Edward Island Ry. National Transcontinental Ry. Prince Edward Island Ry. St. John and Quebec Ry., Miscellaneous expenditure.	\$ cts. 318, 216 30 538, 094 06 217, 866, 649 49 1, 515, 895 57 318, 357 73 130, 973 46 4, 744, 130 10 12, 156, 003 50 115, 451 88 90, 189 97 237, 793, 962 06	1,070,334 64 255,107 26 78,031 22 7,806,922 20 833,853 02 98,300 42 4,000 00	\$ cts. 318, 216 30 538, 694 66 233, 520, 607 27 2, 586, 230 21 573, 464 99 209, 004 68 12, 551, 652 30 12, 989, 856 52 213, 752 30 94, 189 97 263, 593, 868 60

^{*}Including expenditure on the Baie des Chaleurs Railway in 1897, amounting to \$18,679 97.

REVENUE Received by the Canadian Government Railways to March 31, 1917.

Raitways.	Previous to 1916-17.	1916-17.	Total.
	ŝ ets.	8 ets.	\$ ets.
Canadian Pacific Ry Eastern Extension Ry	396,47375 46246568		396,47375 $462,46568$
Intercolonial Ry	211, 169, 540 78	16,767,386 89	227, 936, 927 67
International Ry. of New Brunswick	170,092 41		286,771 08
New Brunswick and Prince Edward Island Ry	75,834 15		114,170 90
National Transcontinental Ry	3,956,235 05		9,872,786 04
Prince Edward Island Ry.	8, 548, 415 60		9, 178, 461 29
St. John and Quebec Ry	76,482 44	70,759 62	$147,242 \ 06$
	224,855,539 86	23,539,758 61	248, 395, 298 47

EXPENDITURE common to both Railways and Canals to March 31, 1917. Income Account.

Expenditure previous to 1916-17 \$ Expenditure during 1916-17 \$	$\substack{1,085,578\ 12\\302,095\ 14}$
S	1.387,673 26

EXPENDITURE common to both Railways and Canals to March 31, 1917. REVENUE ACCOUNT.

	Previous to 1916 -17.	1916-17.	Total.
Expenditure	\$ ets. 69,711 05	\$ ets.	

RECAPITULATION—GOVERNMENT RAILWAYS. EXPENDITURE and Revenue to March 31, 1917.

				Rev	enue.	
_		ear.	Capital.	Improvements and Betterments.	Working expenses.	Revenue received.
Expenditure pri	or to Confedera-		\$ ets.	\$ ets.	\$ ets.	8 et
tion			13,881,460 65			
Since Confede		868	483,353 65		359,961 08	420,752 5
tt		869	282,615 18		387,548 47	455,022 7
+1		870 871	1,729,381 49 $2,946,930$ 45		445,20875 $442,99331$	$471,245 \ 655,713 \ 5$
11		872	5,620,569 67		595,076 22	622,900 5
**		873	5,763,268 81		1,011,892 60	703,458 2
11		874	3,925,123 69		1,847,925 24	893,430 1
11		875	5,018,427 85 4,497,434 75		1,581,934 24	886,087
1+	1	876			1,497,128 22	966,922 - 4
11		877	3,209,502 16		1,890,268 80	1,285,110 2
s 11		878	2,643,741 73	* ** *******	2,032,873 05	1,514,846
*1		879	2,507,053 71		2,233,496 34	1,419,955 6
'		880	6,109,077 14 5,577,236 73		1,851,489 26 2,220,421 39	$1,739,137 \le 2,200,486 \le$
11		881 882	5,175,046 61		2,310,638 54	2,237,583 3
11		883	11,767.619 02		2,636,551 70	2,541,205
**		884	14,013,074 89		2,613,508 87	2,551,937
**		885	11,224,244 54		2,749,710 53	2,624,243
**		886 -	4,443,220 17		2,819,973 50	2,629,336
11	1	887	1,846,887 18		3,152,650 40	2,840,747
11		888	1,765,582 11		3,621,076 62	3,166,253
18		889	2,709,857 37		3,513,063 67	3,167,542
11		890	2,392,767 99		3,846,044 42	3,203,874
. "		$\frac{891}{892}$	1,184,317 34 417,425 73		$\begin{bmatrix} 3,949,263&73\\ 3,748,597&77 \end{bmatrix}$	3,181,888 3 3,136,393
11		893	712,917 44		3,288,629 62	3,262,505
**		894	585,749 01		3,226,208 13	3,179,019
,,		895	376,814 83		3,197,846 17	3,129,450
***	1	896	324,774 72		3,254,442 64	3,140,678
		897	204,624 31		3,195,959 58	3,060,074
1.6		898	270,990 85		3,507,248 88	3,313,847
11		899	1,112,348 47		3,696,612 31	3,940,570
11		900	3,309,130 42 3,922,989 37		4,665,228 06	4,774,161 8
**		901 902	5,386,611 24		5,739,051 54 5,861,099 54	5,213,381 : 5,918,990 ·
11		903	3,083,680 86		6,474,134 20	6,584,598
11		904	2,619,059 86		7,599,958 57	6,627,255
11		905	6,125,481 79		8.906.154-35	7,050,892
11		906	6,102,565,74		7,893,653 49	7,950,552
**	n 1	907	7,174,370 17		7,328,745-65	6,509,186
11		908	23,684,005 25		9,595,295 43	9,534,569
11		909	29,414,227 34		9,764,586 51	8,894,420
		910 911	21,505,97591 $24,532,46618$		9,095,903 96 $10,037,878$ 77	9,647,963 $10,249,394$ 3
8		912	23,108,805 52		11,074,852 80	11,034,165
17		913	17,375,968 10		12,499,925 65	12,442,203
,		914	21,628,095 15		13,559,225 45	13.394.317
		915	21,865,663 92		12,474,453 85	12,149,357
11		916	21,155,255 19	1,515,895 57	17,891,484 65	18,427,908
11		917	12,003,649 70	1,070,334 64	24,725,571 90	23,539,758
Tota	1		*378,661,44. 95	2,586,230 21	260,913,448 42	248,395,298

^{*} Amount paid for Quebec Bridge not included.

TOTAL EXPENDITURE and Revenue of the Department of Railways and Canals prior to and since Confederation to March 31, 1917.

	8 cts.	\$ cts.
Total Expenditure		900,596,933 18
Expenditure on Railways " Quebec Bridge " Railway subsidies " Canals. " Miscellaneous.	. 13,679,238 98 75,117,415 47 164,140,734 44	
Total expenditure		900,596,933-18
CLASSIFICATION OF EXPENDITURE IN GENERAL— Capital account. Revenue account. Income account. Consolidated fund—Railway subsidies, pages 25 to 35.	514,803,340 63 295,476,009 83 15,200,362 25 75,117,415 47	900,596,933 18
Classification of Enpenditure in Detail— Railways— Capital—See page 20. Income—See page 20. Revenue—See page 21.	378,639,441 95 3,968,849 43 263,593,868 60	414 202 110 00
Quebec Bridge— Capital—See page 19. Income—See page 19.	13,244,583 84 434,655 14	646,202,159 98
Railway Subsidies—See pages 25 to 35	75,117,415 47	13,679,238 98
Total on railways 8734,998,814.43.		75,117,415 47
Canals— Capital—See pages 14 and 15. Income—See pages 14 and 15. Revenue—See pages 14 and 15. "Staff — \$18,094,522.85 "Repairs 13,717,907.33	122,919,314 84 9,408,989 42 	164,140,734 44
Miscellaneous Expenditure— Income—See page 21 Revenue—See page 21	1 387,673 26 69,711 05	1,457,384 31
Total expenditure		900,596,933 18
Classification of Expenditure into Capital and Consolidatei Fund— Railways—	3	
Capital—Including Quebec bridge Consolidated Fund (Income and Revenue) Railway Subsidies. etc	391,884,025 79 343,114,788 64	
Canals— Capital Consolidated Fund (Income and Revenue).	122,919,314 84	734,998,814 43
General Expenditure— Consolidated Fund (Income and Revenue)	1,457,384 31	164,140,734 44 1,457,384 31
Total expenditure		900,596,933 18
Cotal Revenue Received from July 1, 1867, to March 31, 1917— Railways—See page 22. Canals—See page 15.	248,395,298 47 16,665,271 32	
Total revenue,		265,060,569 79

RAILWAY AND BRIDGE SUBSIDY STATEMENTS

- I.—Statement showing the Railway Subsidies paid during the year ending March 31, 1917.
- II.—Statement of Railway and Bridge Subsidies paid from July 1, 1883, to March 31st, 1917.

RAILWAY Subsidies paid during the year ending March 31, 1917.

Name of Railway.	Amount.
Lake Erie and Northern Railway Co.—	S cts.
Balance of subsidy on 50.03 miles of railway from the town of Galt to Port Dover	185,062 40
Ha-Ha Bay Railway Co.— Further payment on account of subsidy on 12 miles of railway from La Terrière Junction southerly to Lake Kenogami via La Terrière Village	235 80
Canadian Northern Ontario Railway Co.— Further payment on account of subsidy on 891 48 miles of railway from Ottawa to Port Arthur. Subsidy on Capreol-Sellwood Junction. section being 7 5 miles 42,000 00 Further subsidy on 214 57 miles from Foronto to Ottawa 80,000 00	950 100 41
Kettle Valley Bailway Co.— Further and full payment of subsidy on 52.48 miles of railway from a point on the line between Merritt and Penticton Wharf, about 25 miles south of Merritt to a point on the Fraser River near Hope	358, 180 41
Station. \$111,674-82 Payment of full subsidy on 28-65 miles of railway from Merritt to Brookmere and 70-8 miles from Penticton Wharf to Princeton, a total of 99-45 miles 179,227-61	
	290,902 43
Edmonton, Dunvegan and British Columbia Railway Co.— Subsidy on 50 11 miles, from a point on its line situated near the Spirit River Settlement to and through the Grand Prairie Land District, Alberta	125, 202 84
	\$959,583 88

\$8 George V, a. 1918 Statement showing subsidies voted for Railways as to which contracts

St	ubsidies		2	Railways,	July 1, 1883,
Authority. Amount.		Number.	Ranvays.	March 31, 1910	
		S ets.			ŝ ets
**	1ap. 25	156,800 00	1 1	International Railway, Quebec	156,800 0
11	$\frac{14}{25}$	384,000 00 80,000 00			
-49	59 10	$95,000 00 \\ 186,295 00$			
1 "	24	28,800 00	2	Quebec and Lake St. John Railway. Quebec	1,233,943 5
11	3	96,000 05 64,000 00			
-5 q	8	40,000 00 $5,250 00$			
-8 "	4	44,809 00		_	
71	$\begin{vmatrix} 24 \\ 10 \end{vmatrix}$	89,600-00 70,000-00		Kingston, Napanee and Western, Ry., formerly	
-1	24	$12,800 \ 00$ $32,000 \ 00$	3	Napanee, Tainworth and Quebec Ry., Ontario	208,732 8
-6 "	3 5	64,000 00			,
11	8	272,000 00 $41,000 00$	4	United Pacific Junction Railway, Quebec	193,578
	2	24,000 00		Tonome Parine & anomal Plantage, Year December 11.	100,010
11	$\frac{25}{8}$	$\begin{array}{c} 115,200 \ 00 \\ 76,800 \ 00 \end{array}$	5	Caraquette Railway, NB	224,000
-1	$\frac{24}{8}$	$32,000 00 \ 32,000 00$,	,
11	10	57.600 00			
11	3 2	$\frac{22,400}{48,000} \frac{00}{00}$	6	Canadian Northern Quebec Ry. Co., formerly Great Northern Ry., Quebec	
	2	$47.000 \cdot 00$		1	1,501,200
-8 8 Ed. V	$\frac{4}{11}$ 63	70,400 00			
11	18: 1 + }	48,000 00	7]	Kingston and Pembroke Ry., Ontario	48,000 (
- 11	26 \rightarrow	660,000-00 660,000-00	8	Northern and Pacific Junction Railway, Ontario	1,320,000 (
11	2 J 8	128,000 00)	
- 9	59 10.	$\frac{19,200 \cdot 00}{32,000 \cdot 00}$	i G	Canada Eastern Ry., formerly Northern and Wese-	
-9	59	24,439 84		ern Ry., N.B., including also Chatham Branch	
-8 "	3 4	$\frac{140,800,00}{35,200,00}$		Ry	374,839 8
~3	7	*			
11	$\begin{pmatrix} 8 \\ 3 \end{pmatrix}$	60,342 00	10_{\mid}	Quebec Central Railway, Quebec	403,980 €
8 "	$\frac{63}{2}$	288,000-00			
-9	59	72,000-00		Montreal and Sorel Railway, Quebec	93,757
-9 "	2) 59)	40,000-00 30,000-00)	
-1 ,,	$\frac{24}{3}$	64,000 00 9,600 00	12	Montreal and Champlain Junction Ry., Quebec	103,600 (
+1	25	1301 1400 100	13	Elgin Petiteodiac and Havelock Railway, N.B	82,652 8
11	$\frac{3}{8}$	$38,400 00 \\ 44,252 82 \\ 22,400 00$	14.8	St. Louis and Richibucto Railway, N.B	22,400
-9 .,	59	96,000-00			
-1	$\frac{10}{24}$	38,400,00 180,000,00	10	Canada Atlantic Railway, Ontario	282,355
11	6 8	750,000 00		Esquimalt and Nanaïmo Railway. B.C Erie and Huron Railway, Ontario	750,000 (96,000 (
11	$\frac{25}{8}$	320,000 00	18	Baie des Chaleurs Railway, Quebec	620,000 (
11	3)	300,000-00		, , , , , , , , , , , , , , , , , , , ,	
				Carried forward	7,248,921 (

SESSIONAL PAPER No. 20 have been entered into and payments made up to March 31, 1917—Continued.

			Payments.				Total,	
1910-1911.	1911-1912.	1912-1913.	1913-1914.	1914-1915.	1915-1916.	1916-1917.	March 31 1917.	,
\$ ets.	S ets.	8 ets.	\$ cts.	8 ets.	S cts.	\$ cts.	§ e	ts.
							156,800	00
	27,520 00						1,261,463	50
						· · · · · · · · · · · · · · · · · · ·	208,732	80
							193,578 224,000	
144,608 51	86,468 03	.,,,,,	:				1,265,357	1-4
							48,000 1,320,000	
							374,839	84
129,320 61	·	8,576 00		.,	43,161 60		585,038	90
						• • • • • • • • • • • • • • • • • • • •	93,757	57
							103,600	00
							82,652 $22,400$	
		356,440 00		405,120 00			$282,355 \\ 1,520,560 \\ 96,000$	
••••••							96,000 620,000	
273,929 12	113,988 03	374,016 00		405,120 00	13,161 60		8,459,135	77

STATEMENT showing subsidies voted for Railways as to which contracts

Subsidies Voted.			₽ Railways.	July 1, 1883 to March 31,	
Authority. Amount.			Amount.	Tanways.	1910.
			\$ ets.		S et
				Brought forward	7,248,921
2.0	Vic,	e. 59	118.400 00	1. New Brunswick and Prince Edward Island Railway.	113,440
)-1	11	24	217,600 00	² Laurentian Railway, formerly St. Lawrence, Lower Laurentian and Saguenay Railway, Quebec	217,600
}	11	10	11,200 00	3 L'Assomption Railway, Quebec	11,200
))-1	11	$\frac{10}{24}$	32,000 00 96,000 00	4 Great Eastern Railway, Quebec	40,345
3	11	$\frac{2}{2}$	64,000 00 37,500 00		10,010
	11	$\left\{\begin{array}{c} \bar{8} \\ 3 \end{array}\right\}$	160,000 00	$_{\overline{5}} $ Irondale, Bancroft and Ottawa Railway, Ontario	144,000
	11	10	96,000 00	6 Buctouche and Moncton Railway, N.B	101,600
-1	11	$rac{24}{8}$ (6,400 00 51,200 00	7 Albert Southern Railway, N.B	50,460
-1	11	$\frac{3}{24}$	65,200 00	8 Lake Temiscamingue Colonisation Ry. Quebec	310,335
-8	11	$\frac{4}{10}$	274,940 00 38,400 00	g doggins Railway, N.S	
-1	11	24	4,000 00 $240,000 00$	g moggins italiway, 100	37,500
-9	11	$\frac{14}{58}$	050 000 00	Temiscouata Railway, N.B., and Quebec	645,950
	11	$\frac{3}{2}$	100,000 00 51.200 00	•)	
-9 1	11	$\frac{50}{24}$	$\frac{44,800}{6,400} \frac{00}{00}$	11 Learnington and St. Clair Railway, Ontario	51,200
	11	10 24	14: 000 00 3	Toronto, Grey and Bruce Railway, Ontario	14,656 $15,360$
-1	11	10)	256,000 00	West Ontario Pacific Kailway and Ontario and	
-1	11	$\frac{2}{24}$	96,000 00)	256,000
	11	3	$\frac{14,400}{76,800} \frac{00}{00}$	Drummond County Railway, Quebec	423,936
-S -9	11	4 59)	96,000 00		
	11	2 j	128,000 00.	Brockville, Westport and Sault Ste. Marie Rail-	140,800
-5 -8	11	8 1	64,000 00) way, Ontario	140,000
	11	$\frac{10}{2}$	$32,000 \ 00 \ 10,200 \ 00$	17 Montreal and Lake Maskinongé Railway, Quebec	41,280
-1 -1	11	$\frac{24}{24}$	54,400 00 1 51 200 00 1	18 South Norfolk Railway, Ontario	54.400 46,000
-9	11	54)		20 Belleville and North Hastings Railway, Ontario	21,888
)	11	19 J 10	108,800 00. 48,000 00		155,200
) -1	*1	$\frac{3}{23}$	48,000 00 1 118,400 00 .	pa)	
⊢6 !-3	11	4 5	118,400 00 = 224,000 00 =	Lake Erie and Detroit River Railway, Ontario	475,851
-1	11	27	62,400 00 3	23 Beauharnois Junction Railway, Quebec	62,400
)-1	11	$\frac{4}{24}$	138,400 00	`).	38,400
-6 -8	11	5 4	$\frac{108,000\ 00}{108,800\ 00}$		
- 1	11	$\frac{3}{24}$		25 Fredericton and St. Mary's Ry. Bridge Co., N.B 26 Harvey Branch Railway Co., N.B	30,000 5,553
-6	* 9	5) 1 }		27 Nova Scotia Central Railway Co., N. S	235,200
-1	11	24	44,800 00 5	28 Cumberland Railway and Coal Co., N.S	39,850 13,600
2	11	3 3		29 Pontiac and Renfrew Railway, Ontario	13,600 29,840
3 4	11	8	51,100 00 6	Thousand Islands Rahway, Ontario	

SESSIONAL PAPER No. 20 have been entered into and payments made up to March 31, 1917—Continued.

	Total to March 31,					Payments.		eng.	
	1917.	-17.	1916-	1915-16.	1914–15.	1913-14.	1912-13.	1911-12	1910-11.
s.	8 ets	ets.	s	\$ ets.	\$ ets.	S ets.	\$ cts.	8 ets.	\$ ets.
7	8,459,135 7	•••		43,161 60	405,120 00		374,016 00	113,988 03	273,929 12
)0	113,440 0								
)0)0 j	$\begin{array}{c} 217,600 & 0 \\ 11,200 & 0 \end{array}$								
00	40,345 0		* * * * • • •	• • • • • • • • • • • • • • • • • • • •					
0	144,000 0								
ō	101,600 00								
00	50,460 0								
	310,335 9								
	37,500 00								
Ю	645,950 00								
)()	51,200 00								· · · · · · · · · · · · · · · · · · ·
0	14.656 00								
	15,360 00								
v	256,000 00								
0	423,936 00							•••	• •••••
0	140,800 00								
0	41,280 00	'						• • • • • • • • • • • • • • • • • • • •	
0	54,400 00 46,000 00								• • • • • • • • • • • • • • • • • • • •
	21,888 00								
0	155,200 00								
0	475,851 00	!							
0	62,400 00								
0	38,400 00								
0	30,000 00								
	5,553 57 235,200 00								
	39,850 00 13,600 00								
	29,840 00								

\$8 George V, A. 1918 Statement showing subsidies voted for Railways as to which contracts

Subsidies V			July 1, 1883,
Authority.	Amount.	Railways.	March 31, 1910.
	S ets.		S ets.
		Brought forward	11,072,766 54
52 Vic., chap. 3)	96,000 00	Quebec, Montmorency and Charlevoix Ry. Co., Que.	96,000-00
56 " 3 f 52 " 3		St. Clair Frontier Tunnel Co., Ontario	375,000 00
50-1 24 (57,600 00	Brantford, Waterloo and Lake Erie Ry., Ontario	57,600 00
57-8 " 4 + 3 + 53 " 2	287,200 00	Port Arthur, Duluth and Western Ry., Ontario	271,200 00
50-1 " 24)			
53 " 2 54-5 " 8	192,000 00	5 Montreal and Ottawa Railway, Ontario	192,000 00
50-1 11 24.1	44,800 00	Cornwallis Valley Railway, N.S	44,800 00
52 " 3 <i>f</i> 52 " 3	320,000 00		
57-8 " 6 60-1 " 4	64,000 00	7 Ottawa, Northern and Western Railway, Quebec, formerly Ottawa and Gatineau Valley Railway.	414,931 20
47 " 8 1			
52 " 3	83,612 00		
53 0 2 57-8 0 4	142,400 00 : 48,000 00	S Central Railway, N.B	226,012/54
61 " 1	40,000 00		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	361.270 00	9 Montreal and Western Rairway, Quebec	361,270 00
52 11 3	$128,000 \ 00 \ 1$	Parry Sound and Colonization Railway, Ontario	152,800 00
57-8 " 4 52 " 3	$\frac{64,000}{163,200} \frac{60}{00} \frac{1}{1}$	Shuswap and Okanagan Railway, B.C	163,200 00
54-5 n 8 53 n 2	89,600 00 35,200 00 1	2 Tobique Valley Railway, N.B.	134,016 00
55-6 5	9,600-001		
53 " 2 53 " 2	112,000 00 1 35 200 00 1	3 Colombia and Kootenay, B.C	88,800 00 32,800 00
53 " 2	$99,200 \cdot 00 \cdot 1$	5 Orford Mountain Railway Company, Quebec	192,942 50
53 " 2 55-6 " 5	$\begin{array}{c} 57,600 & 00 \\ 25,024 & 00 \end{array} 1$	6 St. Lawrence and Adirondack Railway, Quebec	149,481 60
55-6 u 5	*40,000 00 1	7 New Glasgow Iron, Coal and Railway Co., N.S	39,840 00
56 u 2 57-8 u 4	$102,400 \ 00 \ 1$ $102,400 \ 00 \ 1$	8 J United Counties Railway Co., Quebec	188,816 00
55-6 u 5		9 Phillipsburg Junction Ry. Quarry Co., Quebec	$\begin{array}{c} 23,712 & 00 \\ 779,712 & 00 \end{array}$
56 \sim 2	67,200,00		
57-8 0 4 60-1 0 4	$38,400 \ 00 \ 2$ $66,000 \ 00$	1 Montfort Colonization Railway, Quebec	167,440 00
55-6 11 5		2 Lotbinière and Megantic Railway, Québec	96,000 00
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	48,000 00 2		39,744 00
55-6 5		4 Can. Pac. Ry., B.C., Revelstoke to Arrow Lake 5 Nakusp and Slocan Railway, B.C	80,000 00 117,760 00
57-8 0 4 55-6 0 5	89,600 00 2	6 Dominion Coal Company, N.S	87,803 00
56 " 2 57-8 " 4	$22,400 \ 00 \ 2$	7 Oshawa Railway and Navigation Co., Ontario 8 Tilsonburg, Lake Erie and Pacific Ry., Ontario	22,400 00 $117,431 48$
56 " 2	*11,200 06 2	9 St Stephen and Milltown Ry., N.B	14,848 00
57-8 " 4 57-8 " 4		0 Gulf Shore Railway Company, N.B	53,699 20 7,424 00
56 2	32,000 00 3	2 Ontario, Belmont and Northern Ry. Co., Ontario	30,720 00
*		3 Coast line of N.S., now Halifax and Yarmouth Ry 4 Ottawa and New York Railway Company, Ontario	$\begin{array}{c} 160,000 \ 00 \\ 262,384 \ 00 \end{array}$
		Carried forward	16,315,359 06

SESSIONAL PAPER No. 20 have been entered into and payments made up to March 31, 1917.—Continued.

	Total				Payments.			
l, —	March 3: 1917.	1916-17.	1915-16.	1914-15.	1913-14.	1912-13.	1911-12.	1910-11.
ts.	8 c	8 ets.	\$ ets.	\$ ets.	\$ ets.	S cts.	\$ ets.	\$ cts.
29	12,282,981		43,161 60	405,120 00		374,016 00	113,988 03	273,929 12
00	96,000	[
	375,000							
	57,600							
	1							
00	271,200							
00	192,000							
	1							
00	44,800					.,,		
20	414,931	· · · · · · · · · · · · · · · · · · ·						
54	226,012							
	220,012							
00	361,270							
00	152,800							
00	163,200							
00	134,016							
00	88,800							
	32,800					0.021.66		
	202,926					9,984 00		• • • • • • • • • •
	149,481							
	39,840		•••••		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		
	188,816					• • • • • • • • • • • • • • • • • • • •		
00	23,712 $779,712$						· · · · · · · · · · · · · · · · · · ·	
00	167,440							
00	96,000							
	39,744							
00	80,000				• • • • • • • • • • • • • •			• • • • • • • • •
	117,760 87,808							
00	22,400							
	150,071			· · · · · · · · · · · · · · · ·	32,640 00			
	14,848 $53,699$.	
00	7,424							
	30,720 $160,000$						• • • • • • • • • • • • •	• • • • • • • •
	262,384							
	· ·							

8 GEORGE V, A. 1918
Statement showing subsidies voted for Railways as to which contracts

Subsidies '	Voted.			July 1, 1883,
Authority.	Amount.	Number.	Railways.	to March 31, 1910.
	S ets.	-		s cts
	S cts.		Brought forward	16,315,359 0
50-61 Vie., chap. 5 50-61 4	$\gamma = 500,000 \text{ or}$	1 2	Canadian Pacific Ry. Co., B.C. (Crow's Nest Pass) . Grand Trunk Ry. Co., Victoria Jubilee Bridge, Que.	3,404,720 0 500,000 0
83 " 3 '-8 Ed. VII, 63	*	3	International Ry. of New Brunswick, formerly Res-	
*	*	1	tigouche and Western Ry. Co	555,751 4 69,952 0
-8 Ed. VII, 63	*	5	South Shore Ry. (Quebec, Montreal and Southern)	430,975 3
*	*	6	Pembroke Southern Railway, Ontario	64,000 0 5,376 0
*	*		Inverness and Richmond Ry. Co., N.S., now Inver-	
*	*	9	ness Ry. and Coal Co	368,545 9
*	*	1	N.W.T	$1,909,132 \ 0 \ 160,000 \ 0$
-7 Ed. VII, 40	*	11	Central Ontario Railway Co., Ontario	179,466
* *	* 1 000 000 0	12	Midland Railway Co., X.S. Quebec Bridge Co., Quebec	399,060 - 374,353 3
3-4 " 8	1,000,000 00			148,094 (
0-1 Vic., enap. 4	212,500 0		St. Mary River Railway Co., N.W.T	148,031
3-4 11 2	1		(Interprovincial Bridge over Ottawa River)	212,500
Ed. VII, chap. 7	*		Atlantic and Lake Superior Ry., Quebec	144,969 (58,560 (
2-3 Vic., chap. 7		18	York and Carleton Railway, N.B	32,896
2-3 " 7 3-4 " 8	*	19	Algoma Central and Hudson Bay Ry., Ontario	924,976 (
Ed. VII, chap. 7	*	20	Cape Breton Extension Railway, N.S	196,800
÷	*	21	Can. Pac. Ry, Co. (Kootenay & Arrowhead Branch).	153,866
÷	*	22 23		83,200 22,336
*	*	24	(Waskada Branch)	64,000
-10 Ed. VII, 51	*	25	Algoma Eastern Ry, Co., formerly Manitoulin and North Shore Ry, Co., Ontario Bay of Quinte Railway, Ont	89,000
*	*	26	North Shore Ry. Co., Ontario	32,000 $141,722$
*	*	27	Bruce Mines and Algoma Railway, Ont.	53,920
*	*	28	Bruce Mines and Algoma Railway, Ont. Maganetawan River Railway Co., Ont. Canadian Northern Quebec Ry., formerly Chatcau	3,552
		1	guay and Northern Ry., Quebec	391,819
*	*	30	Canadian Pacific Ry. Co. (Pheasant Hills Branch)	435,200 $1,238,450$
*	*	32	Halifax and Southwestern Railway Co., N.S	355,200
÷ .	*	33	Northern Colonization Railway Co., Quebec,	48,000
*	*	34	Schomberg and Aurora Railway Co., Ont	46,144 185,173
*	*	36	Lindsay, Bobcaygeon Pontypool Ry. Co., Ont Middleton and Victoria Beach Ry. Co., N.S.	125,760
Ed. VII, chap. 57		37	Nicola, Kamloops and Similkameen Coal & Ry. Co.	300,800
11 3,		38	Nicola, Kamloops and Similkameen Coal & Ry. Co. Canadian Pacific Ry. (Staynerville Branch)	13,024
u 4		38	Kattle Valley Ry Co. R C	197,184 97,771
11 4:		41	Colchester Coal and Ry. Co., N.S.	97,771 12,800
11 5	*	42	Klondike Mines Railway Kettle Valley Ry. Co., B.C. Colchester Coal and Ry. Co., N.S. Minudie Coal Co., N.S.	18,544
i 49 i-10 5	* *	43	Atlantic, Quebec and Western Ry. Co., Quebec	365,568
. 4		44	Napierville Junction Ry. Co., Quebec	173,440
3-7 40	*	4.	Edmonton, Yukon and Pac. Ry. Co., Alberta	91,200
3-7 " 40 7-8 " 63	8 *	40	Canadian Northern Ontario Ry. Co	2,123,942
			Carried forward	33,230,105

[†] Of this amount, \$16,164.43 was in connection with subsidy to Montreal and Sorel Railway.

SESSIONAL PAPER No. 20

have been entered into and payments made up to March 31, 1917-Continued.

			Payments.				Total March 31,
1910-11.	1911-12.	1912-13.	1913–14.	1914-15.	1915-16.	1916–17.	1917.
S ets.	\$ ets.	\$ ets.	\$ cts.	S ets.	S ets.	S ets.	\$ ets
273,929 12	113,988 03	384,000 00	32,640 00	405,120 00	43,161-60		17,568,197 S
						• • • • • • • • • • • • • • • • • • • •	3,404,720 00 500,000 00
169,536 00					791_93		726,080 00
60,000 00	23,835 70						69,952 00 514,811 00
							64,000 00
			•••••		••••	••••	5,376 00
					*******	• • • • • • • • • • • • • • • • • • • •	368,545 97
							1,909,132 00 $160,000 00$
24,601 32	826 17		969-30				205,862 79
						• • • • • • • • • • • • • • • • • • • •	399,060 40
		• • • • • • • • • • • • • • • • • • • •					374,353 33
					•••		148,094 00
				18,449 17			$\begin{bmatrix} 212,500&00\\ a163,418&19 \end{bmatrix}$
							58,560 00
• • • • • • • • • •					• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	32,896 00
	133,584 00	394,859 44	456,304 00	138,980 56	•••••	• • • • • • • • • • • • • • • • • • • •	2,048,704 00
				· • • • · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	$^{-}$ 196,800 00 153,866 00
							83,200 00
							22,336 00
	• • • • • •						64,000 00
68,638 72	· · · · · · · · · · · · · · · ·	$254,089 \ 40^{\circ}$	179,897 01	13,022 87			$547,648 00 \\ 141,722 45$
			1				53,920 00
							$3,552 \ 00$
							391,819 75
	• • • • • • • • •		•••••		• • • • • • • • • • • • • • • • • • • •		435,200 00 1,238,450 93
							355,200 00
							48,000 00
							$\begin{array}{r} 46,144 \ 00 \\ 185,173 \ 06 \end{array}$
							125,760 00
							300,800 00
							13,024 00
	148,800 00	107,138 40	699,389 60	369, 197-28	460,691 49	290,902 43	$\begin{array}{c} 197,184 \ 00 \\ 2,174,190 \ 72 \end{array}$
							12,800 00
31,334 40	91,279 60	414,618 00					18,544 00 $902,800 00$
							173,440 00
			8,948,809 47				91,200 00
116,889 60			8,948,809 47	2,243,335 80	495,604 83	358,180 41	14,386,762 51
44,929 16			0,318,009 38	-		649,082 84	

a Amount actually paid after deductions amounting to \$1,521.82 made in 1905–06 (being for refunds, etc.,) from the total of \$146,490.84, previously reported, for which cheques had issued.

²⁰⁻⁻³

8 GEORGE V. A. 1918
Statement showing subsidies voted for Railways as to which contracts

Subsidies V	oted.	ır.	Railways.	July 1, 1883,
Authority.	Amount.	Number		Mar. 31, 1910.
	\$ ets.		Brought forward	\$ ets. 33,230,105 32
7-8 Ed. VII. c. 63 7-8 " 63 7-8 " 63	* *	3	Maritime Coal and Railway Co	3,200 00 67,344 00 27,616 00
7-8	*	5 6	St. Maurice Valley Ry. Cc.—Three Rivers to Grand Mère, Que. Grand Trunk Pacific Ry. Co. Can. Pacific Ry. Co., Teulon to Icelandic River	112,640 00 917,800 96 30,800 00
7-8	* * * * *	8 9 10 11 12	Quebec and Saguenay Ry. Co., Que	
7-8	*	14 15 16	Canadian Pacific Ry., Winnipeg to Gimli, Man. Ha-Ha-Bay Railway Co., Que Northern New Brunswick and Seaboard Ry. Co., N.B. Can. Northern Pacific Ry. Co., B.C.	
2	*	18 19	Fredericton and Grand Lake Ry. Co., N.B	
3-4	**	22 23 24 25 26 27 28	Central Ry. of Canada, Que. Temiskaming and Northern Ont. Ry. Co., Ont Lake Erie and Northern Ry. Co., Ont Can. Pac. Ry., Bridge at Outlook Can. Pac. Ry., Bridge at Edmonton, Alta Alberta Central Railway, Alta Kootenay Central Ry. Co., B.C. Can. Pac. Ry., Gimili to Ic-landic River Bridge Edmonton, Dunvegan and British Columbia Ry., Alta	
oe 17'	186,500 annu-	90	TotalAtlantic and Northwestern Railway	34,692,866 28 3,732,000 00
37 Vic., chap. 14 46 " 2 47 " 8	1 505 050 00		Central Canada Railway.	1
48-9 " 58		32	Canadian Pacific Extension	1,500,000 00

SESSIONAL PAPER No. 20

have been entered into and payments made up to March 31, 1917.—Concluded.

Payments.							Total	
1910-11.	1911-12.	1912-13.	1913–14.	1914-15.	1915–16.	1916–17.	March 31 1917.	,
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ ct	ts.
744,929 16	512,313 50	1,554,705 24	10,318,009 38	3,288,405 68	1,000,249 85	649,082 84	51,297,800	97
	365 00						$\frac{3,200}{67,709}$	
							27,616	00
60,480 00 302,679 04 	78,432 00 65,249 75 6,112 00	81,200 00	103,682 27				173,120 1,220,480 112,000 485,474 210,053 32,000	$00 \\ 00 \\ 27 \\ 59 \\ 00$
	61,760 00 104,992 00 30,176 00	27,641 60 4,346 43 148,148 20 86,528 00	116,167 68 66,919 28 21,632 00	16,158 72		235 80	6,112 61,760 248,801 34,522 231,462	$00 \\ 28 \\ 43 \\ 00$
		2,705,378 00 104,996 04 48,442 88 174,120 96	21,632 00 2,520,281 00 32,837 12 364,617 42	178,077 80 111,579 96 59,581 32	244,889 57		108,160 5,648,626 216,576 81,280 598,319	37 00 00
			2,832,024 00	262,080 00			3,094,104	00
			30,145 02 2,134,080 00 135,129 60 115,000 00 126,000 00 119,712 00	209,768 00 1,065,856 00	80,032 00	185,062 40 125,202 84	$\begin{array}{c} 30,145 \\ 2,134,080 \\ 320,192 \\ 115,000 \\ 126,000 \\ 404,480 \\ 1,065,856 \\ 80,032 \\ 125,202 \end{array}$	00 00 00 00 00 00
1,284,892 04	859,400 25	4,935,507 35	19,036,236 77	5,191,507 48	1,400,171 42	959,583 88	68,360,165	47
				• • • • • • • • • • • • • • • • • • • •			3,732,000	00
							1,525,250	00
							1,500,000	00
1,284,892 04	859,400 25	4,935,507 35	19,036,236 77	5,191,507 48	1,400,171 42	959,583 88	75,117,415	47

APPENDIX II

GOVERNMENT RAILWAYS.

REPORT OF C. A. HAYES, GENERAL MANAGER.

YEAR ENDED MARCH 31, 1917.

INTERCOLONIAL RY. DIVISION.

CAPITAL ACCOUNT.

The cost of the road and equipment, on March 31, 19: was The additional expenditures during the year were			,766,560 2 ,490.472 5		
Making the total cost to March 31, 1917		\$120	,257,032 8	0	
The gross earnings and working expenses for the year compare as follows— Gross earnings—I. C. R. Rail Account \$16,570, Water Account	186 200			_	
816,767, N.B. and P.E.I. Ry, Account. 38,	386 336		\$16, \05, 7.	99	6.1
Working expenses—I. C. R. Rail Account \$15,528, Water Account 123,	$\frac{188}{969}$		\$1.0, 000,1.	,	","
Interest on purchase price. 5,	157 357 673 200	80 12	15,731,3	0.0	0.0
Surplus gross earnings over working expenses			\$1,074,3		
From this surplus, \$4,000 was expended as gratuities, a					
balance, under authority of 1-2 George V, chapter 8, ha charged to Improvements and Betterments and credi equipment renewal account	ted	to	\$1,070,3	3 4	64
REVENUE.					
The gross earnings, including water line, compare as followith those of the previous year— 1915-16 (Water Line, \$ 50,619.83)			,068,791 4 ,767,386.8		
Increase			,698,595 4	8	
The earnings from passenger traffic (rail) compare as follows:		\$4	,010,879 5 ,587,666 5		
Increase		\$1	,576,786 9	5	
The earnings from freight traffic, including Water Line, copare as follows— 1915-16 (Water Line, \$ 50.619.83)			0,200,339.2 0,743,137 9		
Increase		\$1	,542,798 7	2	
				_	

Miscellaneous earnings, including mails and express, compare as follows—	
1915-16	\$857,572 62 436,582 43
Decrease	\$420,990 19
The rail earnings per mile of railway, compare as follows— 1915-16	\$ 9,181 53 10,913 00
Increase	\$1,731 47
The earnings per train mile compare as follows— 1915-16	\$1.87 1.94
The number of passengers carried compare as follows— 1915-16	4,124,387 4,537,454
Increase	413,067
The weight of revenue-producing freight compares as follows— 1915-16tons. 1916-17	5,447,220 6,770,224
Increase "	1,323,004

A number of statements which give detailed information are appended to this report.

WORKING EXPENSES.

1915-16	ws wi (Wate	th the pre r Line, \$	nding Water vious year— 50,619.83) 23,969.74)				\$12,551,495 84 15,652,157 78
1ner	ease						\$3,100,661 94
The averages	s, not	including ar as follo	Water Line, ows—	compa	re with th	ose	
Par mile	run t	v engine i	n 1915-16				1.29
1 61 111110		44					1.39
**	44	4.6					1.58
**	44	train	1915-16				1.58
	6.		1916-17				1.81
The working 1915-16. 1916-17.			ile of railwa				\$ 8,187 74 10,226 75

The mileage of the railway for the year 1916-17 was 1,518.39.

During the year ended March 31, 1917, 497,019 ordinary ties were put in the track; 178-39 miles of track ballasted, and a total of 72-76 miles of ditching completed to provide better drainage for the roadbed; 20-50 miles of additional business sidings and 5-12 miles of private sidings were provided. Bridges, culverts, wharves, fenees and buildings were repaired, and 49-12 miles of standard woven-wire fence erected.

STORES.

The value of g	general stores	carried over	from the	previous	year	was:
----------------	----------------	--------------	----------	----------	------	------

International Railway of New Brunswick 15,78	30 10 38 89 45 50		
	\$	2,348,359	20
The value of stores purchased and charges from other de	part-		
ments	1	6,265,215	35
Total of	\$1	8,613,574	55
The value of stores used and sold	1	3,795,471	81
Balance of general stores on hand, March 31, 1917	\$	4,818,102	7 4

PRINCE EDWARD ISLAND RAILWAY.

The length of railway in operation at the end of the year 1916-17 was $275\cdot 2$ miles. The gauge is 3 feet 6 inches.

The cost of road and equipment, March 31, 1916, was The expenditure during year 1916-17, was	\$10,841,372 609,751	
Making a total cost on March 31, 1917	311,451,124	15
Gross earnings (including water line, \$185,215.40)	\$630,045 833,853	
Deficiency	\$203,807	33
The gross earnings compare with the previous year as follows 1915-16	\$390,920 630,045	
Increase	\$239,118	87
The working expenses compare with the previous year as follows— 1915-16	\$545,026	
1916-17	\$33,853 \$289,832	
Increase	0435,534	*1)

The necessary work to maintain the railway in a state of efficiency, the renewing of the track and switch ties, and ballasting of several miles of track, has been carried out.

NEW BRUNSWICK AND PRINCE EDWARD ISLAND RAILWAY.

The cost of road and equipment, March 31, 1916, was The expenditure during year 1916-17, was	\$224,211 28 46,579 38
Making a total cost on March 31, 1917	\$270,790 66
The gross earnings and working expenses to March 31, 1917, compare as follows— Gross earnings	\$38,336 75 72,357 80
Deficiency	\$34,021 05

In addition to amount of working expenses, there was paid \$5,673.42 as interest on purchase price.

INTERNATIONAL RAILWAY OF NEW BRUNSWICK.

The expenditure on road and equipment, March 31, 1916, was The expenditure during the year 1916-17, was	\$3,937 47 3,724 93
Making a total cost on March 31, 1917	\$7,662 45
Gross earnings and working expenses to March 31, 1917, compare as follows— Gross earnings	\$116,678 67 165,107 26
Deficiency	\$48,428 59

In addition to amount of working expenses, there was paid \$90,000 as interest on purchase price.

VALE RAILWAY.

The Vale Railway, running from New Glasgow to Thorburn, N.S., a mileage of 5.35 miles, was leased May 31, 1916, from the Acadia Coal Company at an annual rental of \$1,200.

NATIONAL TRANSCONTINENTAL RAILWAY.

This line extends from Moneton to Winnipeg and is 2003:03 miles in length, which includes the Grand Trunk Pacific branch line from Fort William to Lake Superior Junction.

The gross earnings and working expenses to March 31, 1917, compare as follows—	
Gross earnings. Working expenses.	\$5,916,550 99 7,206,922 20
Deficiency	\$1,290,371 21

In addition to amount of working expenses there was paid the sum of \$600,000 on account of rental Lake Superior Branch.

ST, JOHN AND QUEBEC RAILWAY.

The gross earnings and working expenses to March 31, 1917,	
compare as follows— Gross earnings	\$70,759 62 98,300 42
Deficiency	\$27,540 80

CANADIAN GOVERNMENT RAILWAYS-Year ending March 31, 1917.

							8 GE	ORGE	E V, A. 1918
St. John and Quebec Ry.	119°87 77, 597 72, 531 396, 623	* cts. 70,759 62 70,759 62	\$ cts.	p.c. 100.00	\$ cfs. 590 30 91 17 81	p.c. 138-92	cts.	\$ cts. 820 06	æ cts.
Canadian Govt. Rys.	3,943°97 15,731,981 12, (12,757 204,369,625	\$ cts. 23,666,727 01 382,415 98 19,856 00 23,468,998 99	\$ cts. 23,930,398 06	p. c 98 37 1 63	5, 853 38 5, 853 38 1 47 1 86	p.c. 101·07	cts. 189·81	\$ cts. 5,973 72	\$ cts. 1,803,420,63 1,327,376,99 721,876,99 3,136,38 73,00 1,038,20
National Trans- continental Ry.	2, 003 03 3, 942, 535 3, 367, 485 69, 429, 569	\$ cts. 5,916,550 99 5,916,550 99	\$ cts. 7,206,929-20	p.c. 160 00	2, 953 2, 953 2, 953 2, 953 3,	p.e. 121 ·81	cts. 214:01	\$ cts.	8 cts. 697, 896 41 443, 552 59 285, 572 66 4, 417 07 4, 417 07 2, 477 40
International Ry. of N. B.	86,516 78,891 683,891	8 cts. 116, 678 67 116, 678 67	\$ cts.	P.c. 100 00	ets. 1,048 33 1 35 1 48 17 06	p.c. 141 · 51	ets. 209:40	\$ cts.	S cts. 7, 125 97 4, 179 52 2, 657 55 1, 481 40 2, 55 70 2, 55 70 2, 55 70 2, 55 70 2, 55 70
New Brunswick and Prince Edward Island Ry.	36 05 65, 611 40, 101 238, 604	88, 336, 75	≉ cts.	P. c. 100 · 00	# cts. 1,063 43 58 58 16 07	p.c. 188·74	cts.	\$ cts.	ets. 1,530-18 1,418-29 1,103-82 1,518-66 46-67 367-77
Prince Edward Island Ry.	275-20 458,376 368,495 2,143,610	421, 974 29 185, 215 40 19, 856 00 630, 015 69	* cts.	p.c. 67.45 29.40 3.15	86. 1,616.39 1 97 20.75	p.e. 132–35	ets.	≉ ets. 2,135 15	8 cts. 34, 843 97 9, 357 88 16, 525 89 1, 124 80 17 01 280 10
Intercolonial Ry.	1,518°39 11,178,913 8,557,782 131,874,021	\$ cts. 16,570,186 31 197,200 58 16,767,386 89	\$ cts.	p.c. 98.82 1 18	6 cts. 10, 913 00 1 94 1 94 12 57	p.c.	rts.	\$ ets.	2006, 224, 10 818, 838, 76 818, 838, 76 466, 908, 15 1, 797, 43 75, 83 889, 59
Statement of Averages.	Mileage of railways Total ongine mileage car mileage	Earnings. Transportation—Rail Water Incidentals. Total	Operating Expenses.	Barnings from transportation (rad)	Gross carnings per mule of railway rengine mule train mile	Ratio of Expenses to Grass Earnings.	Expenses Per Train Mile. Total (cents).	Expenses Per Mile of Builmay. Total rail.	Repairs of locomotives in freight cars. Cost of repairs per locomotive in freight car. in passenger car.

SESSIONAL PAPER No. 20

SUMMARY of the Passenger and Preight Traffic on the Canadian Government Railways and Steamers. Year ending March 31st, 1917.

Canadian St. John Government and Quebec Railways, Railway.	53 6,705,080-28 28,733 00 149 16,642,458-16 50,385 99 65 664,910-04 2,206-64	37 24,012,448.48 81,325 63 382,415.98	37 21, 209, 649·06 81, 325·63 38 740, 650·07 10, 566·01	99 23, 468, 998 : 90 70, 759 : 62	5, 305, 095 191, 156, 123 1, 147, 093	459, 075 781 198, 509, 787 9, 925 5, 764, 170 43, 924 389, 665, 910 1, 157, 018		4, 744, 073 19, 986 1, 832, 756, 828 1, 129, 352
National Transcontinental Railway.	824,713·53 5,643,869 49 166,733·65	6,635,316.37	6,635,316.37	5,916,550.99	645,513 16,201,965	82, 913 33,119,148 728, 426 49,321,113	969,524 320,700,716	2, 191, 736
International Railway of N.B.	37,015·11 93,866·04 2,734·82	133,615.97	133, 615 · 97 16, 937 · 30	116,678-67	32,916	592 40,818 33,508 1,387,821	88,571 3,583,379	36,473 2,781,576
New Brunswick and Prince Edward Island Railway.	8, 682-74 30, 831-71 3, 766-69	43, 284-14	4, 947 : 39	38, 336 · 75	14,434 285,083	14,434	67,533	
Ocean Steamships to Mainland.	69, 113 · 52 108, 508 13 7, 598 75	185,215.40	185,215 40	185,215.40	48,712 1,903,929	48,712 1,903,929	75,314	
Prince Edward Island Railway.	177,888°85 219,442°74 47,498°70	414,830.29	444,830-29	414,830.29	383,386 9,049,535	18, 250 881, 701 401, 636 9, 931, 236	3, 693, 402	2,047,215
Intercolonial Kailway.	5,587,666°53 10,545,937°35 436,582°43	16,570,186·31 197,200·58	16,767,386.89	16, 767, 386 · 89	4,189,134 162,368,608	357,320 164,468,120 4,537,454 326,836,728	4,207,773	2, 472, 451
	Passenger Traffic Freight Traffic Mails, Express, etc.	Total	TotalI.ess Hire of Equipment	Net Revenue	Passenger Statement. Local Traffic— Number of Passengers. Mileage. Through Traffic—	Number of Passengers. Mileage. Total Number of Passengers. Total Mileage.	Freight Statement. Local Traffic— Local Tones Local Mileage Through Traffic—	Through Mileage

REPORT OF C. B. BROWN, CHIEF ENGINEER.

HALIFAX OCEAN TERMINALS.

The chief engineer reports that the works under contract have been steadily continued and excellent progress has been made both on the railway and the docks.

Grading.—Grading has been completed, and between Rockingham and Fairview, Terminal Junction Yards, the sea slopes have been riprapped to the extent of 9,000 feet.

Raising the main line to new elevation was commenced in May, and 85 pound rails were laid on part of the new inbound line in September. Tracks were laid in terminal yards to provide accommodation for about 1,000 additional cars.

On the main line, from Fairview to Young avenue the grading was completed,

as well as all other work, and the line put into service.

Between Young avenue and Halifax harbour, all the excavation on the main line and the lower benches of the proposed freight yard was completed. Several tracks, with a capacity of about 400 cars, were laid.

Breakwater, Point Pleasant.—This breakwater has been satisfactorily completed.

Drainage.—Drainage at Prince Arthur street, also culvert No. 290, and at Point Pleasant yard was completed. The culverts in terminal yard were extended, and the drainage required at stations 115 to 125 partly completed. The Coburg and the Pleasant street sewers were completed, and the Atlantic street sewer is 10 per cent complete.

Houses.—Where necessary, houses were moved, placed on new foundations, and necessary repairs and alterations made.

Bridges.—There are twelve concrete and reinforced-concrete overgrade bridges and subways under construction, of which two concrete arches have been completed. The remainder will be completed as soon as the construction material is received.

Dredging—Basin No. 1.—Dredging for the 30-foot and 35-foot depths has been completed, and the 45-foot depth is dredged to 40 feet.

Basin No. 2.—The northern half is complete to the 45-foot level, and the southern half is 80 per cent complete, as well as the dredging east of the bulkhead passenger landing quay.

Foundations.—The dredging for foundations is complete, 201,403 cubic yards having been dredged out. During the year, 4,227 lineal feet of foundations were prepared. With the exception of about 400 lineal feet, all the foundations of the quay walls are prepared ready for the concrete pedestals.

Quay Walls.—Some 2,900 lineal feet were built to the top of the block work, and 1,654 lineal feet of the granite work of the quay was set to full height. About 100,000 cubic yards of borrowed filling has been placed in pier "A," and about 30,000 cubic yards behind the bulkhead passenger landing quay.

About 75 per cent of the granite for the face work of the quay walls is dressed.

Concrete Work.—The following concrete blocks have been made: Shells, 1,578; total volume concrete cubic yards, 46,246; total pounds steel used, 7,540,691; 199 concrete key-posts and 580 piles were made. The key posts contain 481 cubic yards of concrete and 237,800 pounds of reinforcing steel, while the piles contain 1,184 cubic yards of concrete and 591,000 pounds of steel.

Steamship Accommodation.—Three steamship berths, one of 500, one of 600, and one of 700 feet, have been in use during the winter. Two of these are equipped with temporary sheds of 440 and 396 feet each in length by 90 feet in width.

Plant.—The plant in use has been increased by the addition of a 150-ton locomotive crane.

Notwithstanding difficulties in transportation, a very successful year's work was accomplished, the contract having been completed to the extent of 68 per cent.

ROADBED AND TRACK-Table of Mileages.

	Main Line.	Second Main Line.	Passing Sidings.	Other Sidings and Spurs.
	Miles.	Miles.	Miles.	Miles.
Intercolonial Ry. Prince Edward Island Ry. National Transcontinental Ry. Grand Trunk Pacific Rv. (Leased Lines) New Brunswick and Prince Edward Island Ry. International Ry. of N.B. St. John and Quebec Ry.	1,811.28 191.75 36.05 111.30	9:29	146:55 7:95 130:20 20:69 -93 1:13 3:37	378 · 88 25 · 93 203 · 72 42 · 07 3 · 37 4 · 29 4 · 63
Total		76:21	310:82	662.89

MILEAGE of the various weights of rails.

Weight.	I. C. R.	Trans- continen- tal.	P. E. I. Ry.	N. B. and P. E. I. Ry.	International	Vale Ry.	G. T. P. Ry.	St. J. and Q
50 lb	4 · 40		3.6					
56	19.48	3:50	40.1	15:69	1.1.1	3:35		
58 " 60 "			134.2		52.8			
67 ···	231 31	1.16	1.9		11.1	2.0		
72				.1			4.34	
75 H	1,037 13	1,819.19	0.6	20:36			181 41	119.87

New and relaid rails laid.—The main line of the I.C.R. was laid with 85-pound rails for a distance of 81½ miles and 8.96 miles were relaid with 80-pound relay rails; 3.59 miles were relaid on the main-line branch lines with 67-pound relay rails, and three-tenths of a mile with 80-pound relay rail.

New Brunswick and Prince Edward Island Railway Line.—11·12 miles were relaid with 80-pound relay rail, releasing 56-pound and 67-pound rail.

The Vale Railway was relaid with 67-pound rail for 2 miles.

Grand Trunk Pacific Railway.—The main line was relaid with new 80-pound rail for 4:53 miles.

TIE Renewals, Ballasting, New Sidings, Ditches, etc.

D. 19	Tie	Ballast- ing.	Ditches.	Widen Banks.	Tile Drain.	Protec- tion to	New Sidings	
Railways,	Renewals.					embank- ments and cuts	Passing and Busi- ness.	Private.
	No.	Miles.	Miles.	Miles.	Ft.	Ft.	Ft.	Ft.
Intercolonial. P. E. Island Ry	497,019 21,715		72:76 5:50	66.99	2,600	2,500 700 Several	100,756	27,054 856
Nat. Transcontinental Ry. N. B. & P. E. I. Ry International of N.B	9,840	12.0		0.73		points.	6,158	115
Vale Ry G. T. Pac. Ry	2,112 51,384	10.0					2,240	
	1,176,531	271 09	109:35	67:72	14,476	3,200	109, 154	87,091

The cleaning out of 20 miles of ditches, the building of 1,502 track feet of private sidings on the St. John and Quebec Railway are not included in the above statement.

WATER SERVICE.

Intercolonial Railway.—All along this railway the water service has received the necessary attention to keep it in efficient order. The tanks and piping were repaired where necessary. A 40,000-gallon tank was installed at North Sydney and a 15-horse-power gasolene pump installed at the Newcastle reservoir. A water meter was installed at Lévis, and a 4-inch Warren steam pump installed at St. Pascal.

National Transcontinental Railway.—A steam pump and a 5,000-gallon tank was installed near Cap Rouge, Que. At Transcona 1,000 feet of 6-inch cast-iron pipe was laid to new elevator. The 50,000-gallon tank, at Glendyne, which was destroyed by fire, was replaced by taking down the tank in the N.T.R. yard at Moneton and re-creting it at Glendyne. Other necessary light repairs and alterations have been carried out.

Grand Trunk Pacific Railway.—A 4-inch cast-iron water pipe, 1,300 feet long, was laid to the coach and repair yard at Mission.

BUILDINGS.

Intercolonial Railway.—The necessary additions and alterations, repairs and painting to buildings, stations, and freight sheds have been carried out.

At Rivière-du-Loup, general repairs and painting to power-house, round-house, machine shop, and stores building were carried out.

Prince Edward Island Railway.—Coal shed floors renewed at Charlottetown, and the part of the stores building which had been destroyed by fire rebuilt. Other minor repairs were also carried out.

National Transcontinental Railway.—Four section tool-houses were erected, and seven shelter stations. The station buildings destroyed by fire at Casey and St. Anselme were rebuilt, and a portable station built at Smooth Rock Falls, Ont.

A contract has been given for five double cottages at Cochrane and five at Grant. Those at Cochrane are nearly finished.

A temporary wooden grain elevator 46 by 32 feet, with the necessary cleaning machinery, has been established at Transcona.

The machinery of this elevator will be used in a 1,000,000-bushel elevator now building, and soon to be ready.

Standard concrete rail-racks have been built at one mile intervals in districts 2 and 3.

Grand Trunk Pacific Railway.—The necessary maintenance repairs were made to all buildings requiring them.

TERMINAL IMPROVEMENTS.

Intercolonial Railway.—The capacity of the Ste. Rosalie yard was increased by 12,900 lineal feet of track (230 cars), and a new coaling crane and air compressor installed. Alterations and improvements were also carried out at Rivière-du-Loup, and Chaudière Junction, where 27,900 lineal feet of siding were installed (580 cars). General repairs and improvements were also carried out at this point.

Moncton: Yard capacity increased by 15,840 feet (316 cars), and storage tracks extended 1,000 feet. A 528-ton ice-house was erected near the new shops. Several alterations and improvements to electric light and telephone circuits were also carried out.

St. John: Two berths adjoining long wharf were dredged to give 30 feet of water at low tide. A contract was entered into for a 500,000-bushel reinforced concrete elevator, and work on foundation started. The heating of the station was improved, and the electric lighting of the rail yard increased. A temporary flour shed built.

Slight alterations and improvements have also been carried out at Pointe du Chêne, Point Tupper, Mulgrave, and Stellarton.

Truro: 14,500 feet of sidings (282 cars) were installed, and general repairs to coaling and car-heating plant carried out.

Halifax: old pier No. 2, damaged by fire in 1916, was rebuilt on the north and the south sides, giving accommodation for two tracks. The power-house, engine-house, heating, and car-cleaning plants, freight and cattle sheds, etc., elevator grain chutes, and 6 piers received general repairs.

Dartmouth, S.D.: Railway owned telephones were installed at three stations.

Prince Edward Island Railway.—Summerside: Wharves damaged by storm are being rebuilt. Georgetown wharf, damaged by ice, has been rebuilt.

National Transcontinental Railway.—Several additions and improvements are being constantly carried out on this line, of which the briefest report is herewith made. Leonard shops: Two boiler feed pumps installed, and a feed water heater.

Bridge: Considerable machinery from the Transcona shops were erected at this point. It consists of three lathes, one crane, one pipe machine, one shaper, and other machinery. Six hydrant houses were installed, and additional hose furnished to extent of 1,250 feet.

Cochrane: Car-repair facilities have been improved. Siding for the auxiliary crane constructed. Cross-over and coal tracks built. Fire protection was also increased.

At Hearst, Grant, Armstrong Fitzpatrick, Parent, Doucet, and O'Brien: The fire protection was increased by the installation of several hydrants and several thousand feet of hose.

Graham: Wooden foundations under five machines in the machine shop were replaced by concrete foundations.

Redditt: A cross-over line was built to reduce time in changing eastbound passenger engines. A coaling track was constructed on the south side of the coal chute. A gasolene-driven electric generator was also installed.

Transcona: The work on the 1,000,000-bushel elevator is 25 per cent complete; 2,100 feet of railway track and a 6-inch water supply pipe have been built to serve

this elevator.

The electric light system, the compressed air system, and the steam line to the

passenger-eoach yard have all been repaired and improved.

Moncton (N.T.R.): A 50-k.w. engine generator set and switchboard has been installed after being removed from Edmundston, where arrangements were made for the purchase of current from an outside source.

New Brunswick and Prince Edward Island Railway.—Cape Tormentine: Terminal facilities to handle Prince Edward Island traffic when car ferry is put into operation were commenced.

Grand Trunk Pacific.—At Mission terminals a coach storage track, 1,000 feet long, with water service for watering and cleaning cars, has been built. Five car storage sidings (586 feet) were built.

SURVEYS.

Surveys and track profiles have been completed on the I.C.R. Dartmouth S.D. to the extent of 67 miles, and also 3.48 at other points: Forty-two stations, grounds, and yard plans have also been surveyed: 398 bridges have been surveyed.

Prince Edward Island Railway.—One hundred and eighty-one miles of road have been resurveyed, 8 miles of track profile completed, and two station-grounds plans made.

New Brunswick and Prince Edward Island Railway.—Resurveys have been made of twelve station-grounds and three yard plans made.

TRACK CENTERING.

The track has been recentred and curves spiralled for 134 miles on the Intercolonial Railway and 18 miles on the Prince Edward Island Railway.

FENCING ERECTED.

Intercolonial Railway.—Forty-nine miles new wire fence.

Prince Edward Island Railway.—Fifteen miles new wire fence.

National Transcontinental Railway.—5.68 miles new wire fence and 9.49 miles snow fencing.

Grand Trunk Pacific Railway.—Forty-six miles new wire fence.

DAMAGES.

No damages of very considerable extent took place either by flood or fire. The new washouts which occurred were soon repaired to cause the least possible delay to traffic.

BRIDGES AND CULVERTS.

The bridges and culverts of the railways are being systematically repaired, strengthened, or renewed where necessary, steel and concrete being mostly used for renewals; 109 culverts were replaced on the I.C.R., 12,313 feet of culvert piping having been made by the railway forces. At mile 60, Winnipeg S.D., a 792-foot frame trestle was replaced by fill and 36-inch pipe culvert.

SUNDRIES.

A new turntable was installed at Boiestown, I.C.R. Ash pits at Ste. Rosalie and Chaudière Junction and Island yard were extended. A new track scale installed at Denmark, and others at Harvey Junction. La Tuque and St. Leonards, National Transcontinental Railway. The electrical lighting has been added to or improved where necessary.

SIGNALS AND INTERLOCKING.

A mechanical interlocking plant was erected to protect the swing span of Grand Narrows bridge, and another at Ashton Junction. I.C.R. Fifty-three standard twodirection train-order signals were installed, and all other signals and crossings received the necessary care to be kept in good order.

CAR FERRIES.

These steamers have received only slight repairs or alterations, such as repairs to heating or sanitation systems mostly. The bridge of steamer Scotia No. 1 was moved forward to give better control of the vessel. Repairs to machinery were made to steamer Scotia No. 2.

REPORT OF G. R. JOUGHINS, SUPERINTENDENT OF ROLLING STOCK.

Equipment Renewals:-62 locomotives, 55 of which were new, and 7 second-hand. N.T.R. Consolidated Fund:-51 locomotives, 30 of which were new, and 21 second-hand. Passenger Cars-Equipment Renewals:-18 sleeping cars, 8 new and 10 secondhand: 2 parlor, second-hand; 2 Dining, second-hand; 3 colonist, second-hand; 2 first-class coaches, second-hand; 4 postal; 2 new, 2 second-hand; 1 baggage, second-hand; 10 hospital cars, second-hand; making a total of 42. N.T.R. Consolidated Fund:-6 sleeping, 6 lining. 7 colonist. 3 first-class coaches, 4 second-class, 5 baggage; all second-hand, making a total of 31. Freight Cars—Equipment renewals:— 108 Hart convertible cars; second-hand;

N.T.R. Consolidated Fund:-200 new stock cars; 537 new steel-frame-50-ton box cars; 239 Hart convertible cars, second-hand; 131 Platform, second-hand; 58 box, second-hand; 3 gondolas, second-hand; 2 steel coal cars, second-hand. Work Equipment-Equipment Renewals:-10 all-steel snow ploughs, new; 1 rail unloader, new: 2 ballast side ploughs, second-hand; 2 steam shovels, second-hand; 1 Lidgerwood unloader, second-hand; 1 center ballast plough, second-hand. Consolidated Revenue Fund:-10 all-steel snow ploughs, new; 2 wrecking cranes, new; 2 rail unloaders, new; 3 side ploughs, second-hand; 1 center ballast plough, second-hand. 4 ballast ploughs, second-hand; 3 Rodger spreaders, second-hand; 3 Jordan spreaders, second-hand; 7 steam shovels, second-hand; 1 track layer, second-hand; 1 rotary plough, second-hand; 1 wrecking crane, second-hand;

General Statement of work done in the Canadian Government Railways' shops during year ending March 31, 1917:—

Locomotive Department:-325 Engines received repairs.

1 Gas tank and car, new.

28 Engines were converted to superheat. Steam shovels, ditchers, unloaders, piledrivers, cranes and other machinery received the necessary repairs.

Car Department :-

50 new flat cars were built at Moncton.

10 wrecking outfits were built at Moncton.

2 rail unloaders were built at Moncton. 255 Other cars were either rebuilt or converted to other styles. Several freight and passenger cars received the necessary repairs. Other cars of all descriptions were also brought into proper condition for traffic.

1 steam locomotive crane, second-hand.

744 Freight cars were equipped with safety appliances.

A force of about two thousand men is employed to keep the rolling stock into proper condition for traffic.

CANADIAN GOVERNMENT RAILWAYS.

BASTERN AND WESTERN LINES -Statement showing the number of Locomotives and the various classes of other Rolling Stock on the Line, March 31, 1916, and March 31, 1917.

	Total freight cars.	14783 1080	15863 159 1176 1775 203 203 203 17121
	Vans.	171	184 66 66 68 184 1881
	Pit cars.	7:	∵च ; : : : : : : : चिं।
	Hart convertible dump cars.	300	30G 33G 33G 33G 33G 33G 33G 33G 33G 33G
	Stock cars.	12	38.5 38.5 38.5 38.5 38.5 38.5 38.5 38.5
	Hart Otis steel dump cars.	526	528
	20-соп соя сять.	169 207	376
	Gondola cars.	T -	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
3	Hopper cars.	165	949
	Oil tank cars.	57	125-11:11:12:12:12:13:13:13:13:13:13:13:13:13:13:13:13:13:
	Pulp wood cars.	× 7	17.5
	Platform cars.	\$1	328 50 50 50 50 50 50 50 50 50 50 50 50 50
	Refrigerator cars.	§ ∞	861
	Boz Cars.	9913 981	100001 00001 00001 0000 00001 00001 00001 00001
	Total passenger cars.	596	992 : 67 : 68 : 68 : 68 : 68 : 68 : 68 : 68
	Steam motor cars.	- :	=:::::=!
	Air brake instruction cars.	_ :	
	Box एडप्टूड्स टक्स.	등 :	署:::::::::::::::::::::::::::::::::::::
	Vision test cars.	: :	
-	Hospital cars.	::	::2:::::2[
	Paggare cur-	£ :	長
	t cars.	器:	[용한한 : 1 : 1 : 1 : 1 유 [
D	Second class passenger cars.	96	S ::: T ::: S
	First class passenger cars.	2 :	
	Colonist ears.	- 9	용 : 연 : : : : : : : [원]
	Dining cars.		- हा ^{रथ प} ः : :::::::::::::::::::::::::::::::::
İ	Parlour cars.	= :	<u> </u>
	Sleeping cars.	<u> </u>	\$ x ₹ . : : : . :
	Locomotives.	993:89	₹ 2 9 : : : :
		On hand, serviceable and repairing, Mar. 31, 1916 To be replaced, March 31, 1916	Total equipment, March 31, 1916 Purchased and built during the year on . I New Equipment Renewals Account

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$\frac{1086}{400}$	1486	108 196	1182	17131
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8 497 1 69	992 6	175		37.1
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186 278	F9F	:	164 9936	547 88 10 29 75 173 100 40 85 10 1 26 1 1 639 10400 198 3371
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	Fotal condenined and destroyed to March 31, 1917.		: :	:
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rpl me)nd	100	ά×	Total equipment, March 31, 19
To be replaced March 31, 1916, as above Condenned year ending March 31, 1917.	ಶ	Rebuilt and converted as shown above	Fotal to be replaced March 31, 1917	\mathbf{I}
φ	ta	ģ	ta Id	
28	5	122	Го У.	

*Figures in italics show the number of cars converted to other styles.

CANADIAN GOVERNMENT RAILWAYS.—Concluded.

EASTERN AND WESTERN LINES.—Statement showing the number of Locomotives and the various classes of other Rolling Stock on the Line, March 31, 1916, and March 31, 1917.—Concluded.

			8 GEORGE V, A. 1918
	Total work cars.	373 5	378 171 1008 101 111 111 111 111 111 112 113 114 115 115 115 115 115 115 115 115 115
	Cinder cars.	::	
İ	Ттаск заует.	::	: : : : = : : : : : -
i	Steam shovels.	∞	4 :63 :1- : : : : : : : : : : : : : : : : : :
	Boarding cars.	65	62
į	Wrecking cars.	7:	[3 ::::
-	Rail unloaders.	3.1	c1 = :0 : : : : : : to
	Survey and inspection cars.	91	19:::::::::::::::::::::::::::::::::::::
	Pile drivers.	e3 :	0 :::::::
	boring machines.	- :	[¬ : : : : : : : : : ¬
	Portable rail sawing and	:	
	Hand derricks.	l→ :	
ځد	Steam derricks.	- :	<u> </u>
Work Equipment.	Ditchers.	:	
mc.	Well boring machines.	- :	
-fin	Sand blast machines.		T : : : : : : : : : : T
ξď	Сопстеtе mixets.		1 # : : : = : : : : : : 1
<u></u>	Ballast spreaders, wing.		
or	Ballast unloaders.	7 :	T :- :9 : : : : : : : : : : : : : : : : :
>	Side ballast plows.	ro.	10 : N : 12 : : : : : : I
	Centre ballast plows.	t~ :	1-:-:0:::::::::::::::::::::::::::::::::
	Ballast trummers.	- :	-::::::
	Ballast spreaders '' Rogers."	g1 :	61 : 1:00 : : : : : [-
	Steam cranes.	£1 :	[8]:::-::::18]
	Flangers.		18:::::::::::::::::::::::::::::::::::::
	All steel plows, snow.	: :	1 2 2 : : : : : : : : : : : : : : : : :
	Snow plow, double end.	- :	i=::::::::::::::::::::::::::::::::::::
	Snow plow, double track.	si :	¢1
	Snow plow, rotary.	Ç1	6
	Snow plow, wing.	37.	8::::::
	Snow plow, common.	<u> </u>	12 : : : c1
	Pintsch gas cars.	<u>01</u> :	[01 : : : : : : : : : 01
	Store supply cars.	- :	- : : : : : : : : m
	Auxiliary cars.	<u>~~~</u> :	8 ::::: 8
		On hand, serviceable and repairing, March 31, 1916 To be replaced, March 31, 1916	Purchased and built during the year on Equip. Newment Renewals Account. Purchased during the year on Consolidated Newment Renewals Account. Revenue Account. Rebuilt on Consolidated Revenue Account from box to vans 65, to stores car! Rebuilt on Equipment Renewals Account from box to vans 25. Rebuilt on Equipment Renewals Account from box to vans 25. Converted in shops: box to boarding 11, to shanty 10, to pulp wood 175, to road repairs? Total 203. From Hat to einder cars 49. Converted in shop, passenger to vision test, 1. Sleeper to baggage 2, parlour to baggage 2. Total equipment, March 31, 1917.

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e re		၁ ၁ ၁	1		\$	ser	Ę
To be replaced March 31, 1916, as abov Condenned year ending March 31, 191		ota.	ebu		Total to be replaced March 31 1017	Add serviceable and repairing.	
Ĕŏ	20	Total condemned and destroyed to March 31, 1917	A Rebuilt and converted as shown above	1	Ë	A	
•	20		4	2			

8 GEORGE V, A. 1918

STATEMENT showing the number of Locomotives and the various classes of other Rolling Stock on the line, on March 31, 1916 and March 31, 1917.

PRINCE EDWARD ISLAND RAILWAY.

Freight Gars. Work Cars.	Oil tank cars. Coal cars. Platform cars. Vans. Total freight cars. Steam shovels. Steam shovels.	25	28 1 15 12 151 4 530 H 8 1 20			28	28 1 15 12 151 1 530 11 8 1 20
	Box cars. Refrigerator cars.	24 : 25 G	313	1.0	:	308	818
	Бавдяяе сать. Тота раязепрет сатя.	9 I	- 3c	71 :	:	24	- 35 - 25
Passenger Cars.	Posgrage cars. Postal and smoking cars. Combined postal and baggage cars.	n -	-	71 :		F :0	7
- B	Locomotives. 2nd class passenger cars. 2nd class passenger cars. Combined 2nd class and	84 G	E 23	r :	:	: 0 31 : 0 22 : 1 20 : + 20	31 23 13
	293,14040000]	On hand, serviceable and repairing March 31, 1916	Total equipment at March 31, 1916	To be replaced at March 31, 1916 as above. Condenned during the year 1917.	Total condemned at March 31, 1717	Rebuilt during the vent	Total equipment at March 31, 1917

REPORT OF J. E. LONG, SAFETY ENGINEER.

Meetings have been held monthly at different points on the railway, which has resulted in keeping up the interest in safety work. The correction of unsafe conditions and practices is being attended to promptly.

The grave danger of careless habits in the discharge of duties has been demonstrated by moving pictures at all important points, to over 10,000 employees, with most excellent results.

During the year the reports show that there were only thirteen employees killed and 629 injured. No passengers were reported killed, and only twenty-one reported injured.

A weekly bulletin service offering many suggestions for increased safety measures is being maintained.

CANADIAN GOVERNMENT EMPLOYEES' RELIEF AND INSURANCE ASSOCIATION.

STATEMENT of Receipts and Expenditure during the year ended March 31, 1917.

	\$ cts
Credit balance on June 30, 1916	56,890 59 135,671 08
The total expenditures were	192,561 6- 129,914 2
Leaving a credit balance of	62,647 4 10,250 0
Net surplus, June 30, 1917	52,397 4
Sickness and Accident Fund.	
The expenditures in this fund last year were \$51,924.42, and this year they are shown to be \$ increase of \$1,632.55. A credit balance of \$39,085.82 is shown in this fund on June 30, 19	
Temporary Employees' Accident Fund.	
The expenditures in this fund during the year are shown to have been\$	18, 293 5
Death and Total Disability Fund.	
This statement shows that one hundred and twenty-four death and total disability claims and paid during the year.	were assessed
Eighty-seven death claims due to natural causes, aggregating	$\begin{array}{c} 36,750 & 00 \\ 4,250 & 00 \\ 6,500 & 00 \end{array}$
Six total disability claims, aggregating	47,500 0 4,500 0
Amount paid last year from this fund was	52,000 0 53,000 0
Certified Correct,	
C. B. TRITES, W. P. SEARS	S,
Secretary. A	nditor.
STATEMENT showing the amount credited to the Canadian Government Employees' Relief and Insurance Association, by the Canadian ment Railways, during the year ended June 30, 1917.	Railways n Govern
Amount of premiums collected from the Canadian Government Railways' pay lists	738 5
Annual contribution from the Canadian Government Railways. Canadian Government Railways' cash premiums.	13,333 3 10 9

INTERCOLONIAL AND PRINCE EDWARD ISLAND RAILWAYS EMPLOYEES' PROVIDENT FUND.

STATEMENT of Receipts and Expenditure during the year ended March 31, 1917.

\$ ets.	\$ cts.
	348,502 74
163,141 28	263,141 28
	973 83 9,555 18
	622,173 03
257,888 52 5,620 69 3,276 82 744 91 2,744 90 103 50 888 69 6,293 63 8 16 1,050 39	278,619 31
	343,553 72
263,141 28 278,619 31	
15,478 03	
	343,553 72
	257,888 52 5,620 69 3,276 82 744 91 2,744 90 103 50 888 69 6,293 63 8 16 1,050 39

C. A. HAYES, Chairman.

C. B. TRITES, Secretary.

REPORT OF THE COMPTROLLER AND TREASURER.

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.s. cts.	115,766,560 24 10,841,372 44 224,211 28 3,987 47	8 (GEORGE	V, A. 1918
C.R.	Mar. 31 By Dominion of Canada, I.C.R. Dominion of Canada, N.B. & P. E.I. Ry. Dominion of Canada, Intl. Ry.			
1916.	Mar. 31			
e.	115, 766, 560-24		54	4: 0: 4: 5
s cts.	17,777 71 17,777 71 235, 229 30 112, 235 87 46, 000 00 3, 501, 563 66 3, 3734 03 3, 378 92 2, 388 72 2, 633 25 1, 600 00 23, 315 52 20, 346 14 18, 926 22 20, 36 14 11, 172 52 2, 363 59 20, 23 46 21, 46 14 11, 72 52 2, 363 59 20, 23 46 20, 23 46 2	4,507,046 69	16,574-13	10,841,372,44
Dis.	I Railway to March 31, 1916, e plates. Pare to Mulgrave. I Wharves. I was and car shops with a to of level crossings. In or of level crossings. I was and calverts. I was and culverts. I was and facilities along conforms. I keefe on Halifax engine. I keefe on Halifax cugine. I contrease. John. I was a contributed by the conforms. I keefe on Halifax cugine. I was a contrease. John.	Cn.	By Mulgrave to provide car ferry, previous year's expenditure \$16,294-13 Halifax—Increased accommodation 280-00	Dr. Prince Edward Island Raitway. To Cost of Prince Edward Island Railway to March 31, 1916.

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					8,944,786 50	135,780,867,93
					1917. Mar. 31 By Dominion of Canada	
					1917. Mar. 31	
11. 451.124.15		270,790 66		7,662 45	279,949 83 3,514,308 04	135,780,867,93
17 161,609		224, 211, 28		3,937-47	279,949-83	
To Bridges—to strengthen \$ 3,046 70 Surveys and inspections	New Branswick and Prince Edward Island Railway.	To Cost of New Brunswick and Prince Edward Island to March 31, 1916 Bringing line up to Intercolonial branch line standard	International Railway.	To Cost of International Railway, March 31, 1916. Bringing line up to Intercolonial branch line standard	National Transcontinental Railway. To Grain elevator—Winnipeg terminals Consolidated revenue during the yestr	

CANADIAN GOVERNMENT RAILWAYS.

REVENUE ACCOUNT.

Working Expenses	\$	cts.	Earning«.	3	cts.
Maintenance of way and structures. Maintenance of equipment Traffic expenses Transportation—Rail line. Transportation—Water line. Miscellaneous operations. General expenses. Rental of leased lines	4,426,20 $418,42$	0 05 5 03 4 53 9 23 1 94 5 45 3 42	Freight Passenger Mail and express Less miscellaneous Balance.	$ \begin{array}{r} 6.705,08\\ 1,066,50\\ \hline 24,611,24\\ 1,142,24\\ \hline 23,468,99 \end{array} $	80 28 92 98 12 00 13 01 98 99 2 49

CANADIAN GOVERNMENT RAILWAYS.

GENERAL BALANCE.

1) _R .	3	cts.	Cr.	\$	cts
o Cash		02	By Dominion of Canada	6,311,368	39
Cash in transit	4.818,103 49,343	3 29	Equipment Renewal Account Intercolonial and Prince Edward	1,661,208	89
Loss and damage freight suspense. Unclaimed freight	$ 31,07 \\ 3,52 $	2 64	Island Railway Employees Provident Fund	343,553	
Auditor's suspense Receiver General, Provident Fund	222,59	1 30	Rail Renewal Account	342,083 $297,442$	
Account	1,899,989	9 53	Uuclaimed Wages Account Employees Medical Fund Ac-	2,048	30
Wages Account	4,51	1-36	count Expenditure for Road and Equip-	5,501	5.
Account	35,17	5 36	ment Suspense—Stores	18,672	
Receiver General. Apprentice Fund Account	2,509		Apprentice FundSuspense Account – Rental of	2,509	
Commissary Stock	32,990 495,51		Leased Roads	550,000 $71,776$	
Rail Loan Account Commissary Stock—Moneton Res-	89,34		Individuals and Companies Led-	109,927	
taurant	403	5 46	ger Individuals and Companies Led-		
Commissary Stock-Newcastle Restaurant.		- 59	ger—Suspense Traffic Ledger	29,499 $31,253$	
Railway Equipment Service Expenditure for Road and Equip-	7,009	38	Car Service Ledger Rents Ledger	10,255 166	
ment Suspense—Grand Trunk Pacific Railway	18.35	1 34			
Halifax Ocean Terminals	375,58	78			
ger	1,352,810	63			
Individuals and Companies Led- ger-Suspense	54,39		,		
Traffic Ledger	212,75- 19,511		1		
Rents Ledger Advances	6,743 $54,693$	3 19			
	9,787,26	64		9,787,268	6

GENERAL STORES ACCOUNT.

Dr.	\$ cts	\$ cts.	Cr.	\$ cts	\$ ets.
To balance March 31, 1916 Purchases during year ended March 31, 1917 Charges from other departments	10, 166, 227 15 5, 889, 595 4		Roadway and bridge	13, 104, 399 57 358, 383 71 332, 688 53 4, 071, 207 71	13,795,471 81

STATEMENT OF CASH RECEIVED.

Dr.	\$ ets.	Cr.	\$ ets.
To Balance on hand April 1, 1916 Amounts received during year and credited as follows:— Station agents \$19, 222, 288 90 Traffic ledger 6, 708, 998 04 Car Service ledger 169, 597 98 Individuals and Companies ledger 4, 384, 526 59 General ledger 517, 795 47 Rents ledger 33, 327 01	*	By Amount deposited to the credit of the Honourable the Receiver General of Canada during the year ended March 31, 1917 Leaving a balance on hand at March 31, 1917, as follows	31, 036, 533 99 02
	$\frac{31,036,533 99}{31,036,534 01}$		31,036,534 01

RAIL RENEWAL ACCOUNT.

FIRE RENEWAL ACCOUNT.	
Leaving a credit balance to the credit of Rail Renewal Account on March 31, 1917, of	342,083 0
the Rail Renewal Account of	2,083 0
On April 1, 1916, there was a balance to the credit of the Rail Renewal Account of There was transferred from the N. B. & P. E. Island Railway an amount to the credit of	340,000 0
	\$ et

	\$	cts.
On April 1, 1916, there was a balance to the credit of the Fire Renewal Account of There has been charged during the year against the above amount	307,943 $10,500$	
Leaving a credit balance to the credit of the Fire Renewal Account on March 31, 1917	297,412	3 59

EQUIPMENT RENEWAL ACCOUNT.

		Dr.	Cr.
There was a credit balance at April 1, 1916 to the credit of Eq.	uipment	\$ cts.	\$ ets.
Renewal Account of. During the year ended March 31, 1917, there was credited to the ment Renewal Account on account of charges to Improvement	e Equip-		3,064,700 62
Betterments Cash received from sale of old Rolling Stock.		-	$\begin{array}{r} 1,070,334 \ 64 \\ 40,266 \ 01 \\ \hline \end{array}$
There has been charged during the year against the above acc Rolling Stock purchased:—	ount for		4,175,301 27
10 Pacific Type Locomotives. 10 Santa Fé Locomotives. 20 Mikado Freight Locomotives. 1 Second-Hand Locomotive. 1 Locomotive, balance of contract of six from Canadian Allis-Cl	halmers,	247,720 05 520,371 56 776,545 00 19,000 00	
Ltd. Balance on 15 Freight Locomotives, contract of 1915-16. Applying Superheaters to Locomotives Freight charges on Locomotives purchased in 1915-16. Repairs to Locomotives in transit purchased in 1915-16. Pneumatic tools for Moneton Shops.		21,575 00 187,058 41 97,497 10 716 80 341 50 840 00	à
7 Ste-I Sleeping Cars. \$19- 2 Postal Cars. \$	4,910 88 8,964 61	203,875 49	~
	8,000 00 8,240 14	36,240 14	
	2,000 00 5,150 93	27,150 93	
	4,000 00 1,354 72	15,354 72	
2 Second Hand Parlor Cars	$\begin{array}{ccc} 3,000 & 00 \\ 262 & 21 \end{array}$		
1 " " Passenger Car	2,000 00 2,000 00 2,000 00 1,475 68	3,262 21	
	2,000 00 1,104 46	7,475 68	
2 Second Hand Tourist Cars		$ \begin{array}{r} 3,104 & 46 \\ 3,713 & 46 \\ 1,745 & 95 \end{array} $	
Alterations to 10 Second Hand Tourist and 8 Second Hand Cars, purchased in 1315-16. Linen for 10 Second Hand Sleeping Cars Cost of changing 4 Sleeping Cars to Hospital Cars. Bedding and Equipment for Sleeping Cars changed to Hospita Changing Postal Cars from oil to gas lighting. Changing 3 Commissary Cars to Commissary and Dining Cars ce Equipment for """ Freight charges paid on Second Hand Rolling Stock.	l Cars	13,500 00 9,139 12 3,500 06 1,427 41 5,430 00 1,228 70 236 00 1,163 26	
Expressage and Expenses Account Cars. 50 Platform Cars built in Moncton Shops. Changing 25 Box Cars to Vans. Equipping 490 Box Cars with draft arms and steel buffers. Changing Centre Dump to Side Dump Cars. Fitting up an old Box Car for the Electrical Department 10 Steel Snow Plows 1 Rail Loading Machine. 1 Gas Tank and Car.		6 50 12,409 82 23,322 83 45,522 62 800 87 94 60 67,873 59 448 54 5,100 00	

EQUIPMENT RENEWAL ACCOUNT-Con.

	Dr.	Cr.
Rolling Stock purchased from the O'Brien Companies for Transcontinental Railway in 1915-16 and transferred to Intercolonial Railway: 108 Hart Cars. \$83,700 00 1 60-ton Lidgerwood Unloader 4,300 00 2 Ballast Side Plows 1,200 00 1 Ballast Centre Plow 500 00 1 Ballast Centre Plow 500 00 1 Coton Lidgerwood Unloader 500 00 1 To-ton Bucyrus Shovel 8,000 00	S ets.	8 cts.
1 60-ton Marion Shovel	149.300 00	2,514,092 38
Leaving a credit balance to the credit of Equipment Renewal Account on March 31, 1917.		1,661,208 89

NEW BRUNSWICK AND PRINCE EDWARD RAILWAY.

RENTAL ACCOUNT.

Dr.	\$ ets.	Cr.	\$ cts.
Mar. 31, 1917 Fo rental of New Brunswick and Prince Edward Island Railway from August 1, 1915, to October 22, 1915—82 days—4% on \$170.009 From October 22, 1915, to March 3, 1916—4% on \$120,000 From March 3, 1916, to November 1, 1916—4% on \$90,000	1,527 67 1,749 04 2,396 71	Mar. 31, 1917. By Dominion of Canada	5,673 42
-	5,673 42		5,673 42

INTERNATIONAL RAILWAY OF NEW BRUNSWICK.

RENTAL ACCOUNT.

1917.	Dr.	\$ ets.	1917.	Cr.	\$ ets.
Mar. 31	To rental of International Railway of New Brunswick from February 1, 1916, to January 31, 1917			By Dominion of Canada	90,000 00

TRANSCONTINENTAL RAILWAY.

RENTAL ACCOUNT.

Amount paid to Grand Trunk Pacific Railway for rental of Lake Superior branch from April 1, 1916, to March 31, 1917, inclusive, at \$50,000.00 per month	

VALE RAILWAY.

RENTAL ACCOUNT.

1917.	Dr.	8	ets.	1917.	Cr.	8	cts.
March 31.	Amount paid Acadia Coal Company for one year's rental of the Vale Railway, from May 1, 1915, to April 30, 1916	1,200	00	March 31.	By Dominion of Canada	1,200	00
		1,200	00			1,200	00

St. John and Quebec Railway.—Revenue Account, Year ended March 31, 1917.

\mathbf{E}_{λ} penditure.	\$ ets.	Earnings.	\$	cts.
Maintenance of ways and structures Maintenance of equipment Traffic Transportation—Rail line General	31,237 01 3,813 32 3,007 57 56,534 45 3,708 07	Passenger Freight Mail and express LESS miscellaneous.	28,73; 50,38; 1,61- 80,73; 9,97;	5 99 4 27 3 26
		Balance	70,759 $27,540$	
	98,300 42		98,300	42

ST JOHN AND QUEBEC RAILWAY—General Balance, year ended March 31, 1917.

Dr.	\$ ets.	Cr.	\$ cts.
To General Stores. Cash in transit Freight in transit Auditor's suspense. Province of New Brunswick Station agents Traffic ledger: Dept. of Militia and Defence. I. & C. ledger suspense. I. & C. ledger.	104 33 65 23 70 53 25 37 2,977 51 2,334 51 10 26 145 60 •2,671 18	Dominion of Canada	7,414 09 358 30 6 11 626 02
	8,404 52		8,404 52

St. John and Quebec Railway—Statement of Cash received, year ended March 31, 1917.

Dr.	\$ cts.	Cr.	\$ cts.
To Balance on hand April 1, 1916 Station agents		By Amounts deposited to the credit of the Hononrable Receiver General of Canada during the year ended March 31, 1917	85,218 74
Rents ledger 175 00	85, 218 74 85, 218 74		85, 218 74

St. John and Quebec Railway—General Stores Account.

Dr.	*	cts.	Cr.	\$	cts.
To Balance March 31, 1916 To Purchases during the year ended March 31, 1917	$\frac{1,32}{1,39}$		By Issues during year ended March 31, 1917 Balance March 31, 1917	1, 28 10 1, 39	4 33

APPENDIX III

REPORT OF THE CHIEF ENGINEER OF THE DEPARTMENT.

Ottawa, April 1, 1917.

Sig.—I have the honour to submit my annual report for the fiscal year ending March 31, 1917.

Attached hereto will be found the annual report of the Superintending Engineers of the several canals, the Superintendent of the Trent Canal, the acting Engineer in Charge of the Welland Ship Canal, the Engineer in Charge of the car ferry terminals at Cape Tormentine, the Chief Engineer of the Hudson Bay Railway, the Engineer in Charge of the Hudson Bay Railway terminus at Port Nelson.

CANALS.

The through water route between Montreal, at the head of ocean navigation, and Fort William and Port Arthur, on the west shore of Lake Superior, comprises 74 miles of canal, with forty-eight locks, and 1.155 miles of river and lake waters, or a total 1.229 miles. The minimum depth of water on this route is 14 feet. From Montreal to Duluth, on the southwest end of Lake Superior, the total distance is 1.354 miles, and to Chicago 1.286 miles. A summary of this route will be found in part VII, together with details of the several works thereon. Connection is made with the Canadian Pacific Railway from points west and south at Fort William and Port Arthur (6 miles apart). From Fort William, connection with the main transcontinental line of the Canadian Government Railways is made by the branch line originally constructed by the Grand Trunk Pacific Railway, but now leased to and operated by the Canadian Government Railways.

On this through route the approaches to the canals and the channels of the intermediate river reaches are well defined and are lighted with gas buoys under the control of the Department of Marine and Fisheries, admitting of safe navigation, in the hands of competent pilots, both by day and night. The Lachine, Soulanges, Cornwall, Welland and Sault Ste. Marie canals are lighted throughout by electricity, and electrically operated. The Farran's Point canal is lighted by acetylene gas.

Of the minor systems, the Murray, Trent, Rideau and Ottawa River Canals may be considered geographically as branches of the through east and west route. In operation, however, these canals serve a distinct traffic of more local nature. Isolated from the systems just mentioned, the navigation of the Richelieu River, from its junction with the St. Lawrence at Sorel to Lake Champlain, is effected by means of the St. Ours lock and the Chambly canal; while in the extreme east the St. Peter's canal provides communication between the Bras d'Or lakes of Cape Breton Island and the Atlantic Ocean.

Detailed information respecting the several canals is contained in an appendix.

¹ These reports are not printed.

² Not printed.

With the exception of the Trent canal, where the construction of an extension of the present system to an outlet on Lake Ontario is still in progress, and the Welland Ship Canal, fully described further on in this report, the work executed during the past year has been almost wholly of the nature of improvements and repairs of existing works.

LACHINE CANAL.

Traffic was carried on uninterruptedly during the entire season except during ten days of July, when repairs were being made at weir No. 2. The foundation of this weir had become undermined and a sudden collapse ensued. It was found necessary to reconstruct the weir and make other somewhat heavy repairs, all of which work was satisfactorily completed by the close of the navigation season. In addition to the foregoing, the tail-race at the Mill Street power station was rebuilt in concrete and its discharge capacity doubled, the head-race was widened for half its length, and the site of the dry dock was lowered 2 feet so that vessels of 12 feet draught can now be admitted.

SOULANGES CANAL.

Small repairs and improvements only have been made on this canal during the past season. Among these might be mentioned the substitution of incandescent for arc lamps on the guard pier at Coteau Landing and the installation of cast-iron mooring posts set in concrete at various points between Rouge River bridge and the guard lock.

ST. ANNE'S LOCK

The repairs made during the year at this lock were of minor importance. Navigation was maintained without interruption.

ST. OURS' LOCK.

With the exception of the rebuilding of a pair of lock gates, the repairs made at this lock during the year do not merit special mention.

CARILLON AND GRENVILLE CANALS.

A pair of gates for lock 6 were rebuilt during the year, and the gate lifter renewed. Beyond this no other repairs or improvements were made beyond those required for the usual maintenance of locks, buildings, roads, etc.

CHAMBLY CANAL,

All syphon culverts under the canal were cleaned; the lower wing-wall of lock 4 on the west side was rebuilt, and the wooden site of lock 6 was renewed in concrete; the passing basin near bridge 6 was widened and deepened. Other lesser repairs were also attended to.

BEAUHARNOIS CANAL,

This canal has been under lease to the Canadian Light and Power Company since 1907, and is, with the exception of a few minor works connected with it, no longer under the control of this department. Of these minor works the Hungry Bay and Ste. Barbe dikes, however, received some attention during the past year. The macadamized road on the top of the Hungry Bay dike was thoroughly repaired, as also was the stone

protection wall which follows this road. Certain weak spots along the Ste. Barbe dike are to be repaired during the coming season with clay deposited at various points along it last summer.

CORNWALL CANAL.

During the entire season the canal was operated without any serious interferences to traffic through accident or other cause.

Among the more important improvements and repairs effected during the past year the following may be noted: The old wooden service bridge over the large waste weir south of lock 17 was replaced by a reinforced concrete bridge. A reinforced concrete service bridge, 150 feet long, was constructed over the supply weir at lock 21. All the service bridges over the weirs and intakes of this canal, as well as the beams carrying valve-operating machinery, have now been reconstructed in reinforced concrete. Above the head of old lock 17, a pile dock, 180 feet by 24 feet, was built, replacing the former floating dock. The floor and floor timbers of the swing bridge over the canal at Cornwall were entirely renewed. In addition to the foregoing, a large number of minor renewals and repairs were attended to.

FARRAN'S POINT CANAL.

Repairs of a minor nature only were found necessary for the efficient maintenance of this canal during the past season.

RAPIDE PLAT CANAL.

A reinforced concrete service bridge, 80 feet long, was constructed over the supply weir to lock 24, and the wooden beams carrying the machinery for lifting valves in this supply weir were replaced by reinforced concrete beams. A number of minor repairs were also attended to.

GALOPS CANAL.

On the south bank of this canal west of Iroquois, 2,300 feet of the stone protection was taken down and rebuilt, and on the north bank similar repairs for a length of 330 feet were made. The masonry wing walls of the south abutment of the headrace bridge at Iroquois, the foundations of which had badly settled, were taken down and rebuilt. A corrugated galvanized steel culvert, 92 feet long, was laid under the highway west of the Cardinal bridge, by means of which the land on the north side of the highway is now efficiently drained. The usual minor repairs and improvements to the canal lands were also attended to.

MURRAY CANAL.

This canal was operated without accident or delay to navigation during the entire season. Stone protection walls were repaired or relaid for a length of 11,400 feet. Along the north bank the highway was regraded and gravelled. All bridges crossing the canal were painted and many other lesser repairs and renewals attended to.

RIDEAU CANAL.

The repair and maintenance works were of the same character as in previous years. The chamber of lock 5 at Ottawa and the lower entrance at Jones' Falls were rebuilt. The old stone waste weir at Black Rapids was rebuilt in concrete, and the sill of the lock at this point renewed in concrete. The swing span of the Wellington bridge, and the west approach pier of Beckets Landing bridge were renewed.

TRENT CANAL.

The route of the Trent canal as now in operation and under construction lies between Trenton on the bay of Quinté, where direct connection is made with Lake Ontario and Honey Harbour on Georgian Bay, from which port the waters of the upper Great Lakes are at once accessible. The portions of the canal now under construction lie between Trenton and Rice Lake and between Lake Couchiching and Georgian Bay.

Canal in Operation.—The extent of the waterway open to navigation lies between Trent bridge and Washago, a distance of 160 miles. In addition to this, other channels maintained would approximate a total of 90 miles.

Of the various repairs and improvements made during the past year, the following may be noted as among the more important: In the river below Bobcaygeon considerable work was done in widening and straightening the channel, the rock being blasted and removed over an area of 49,000 square fect. The reservoir dams at Paint and Percy lakes, and the dam at Elliotts Falls were rebuilt. At the Boundary Road crossing of Grass river between the townships of Bealey and Eldon, the bridge here-tofore maintained was replaced by a rock dump. The work of deepening and widening the channel of the Otonabee river below Peterborough was continued, and similar work carried on at Howden's bar, between George street, Peterborough, and Little Lake, and at Robinson's Island bar.

Satisfactory water conditions prevailed during the entire navigation season.

Canal under construction.

Ontario.—Rice Lake Division.—Under this division is included the portion of the canal which lies between Trenton and the easterly end of Rice Lake, a total distance of 56½ miles. For construction purposes this division has been subdivided into seven sections or contracts. The line of the river Trent has been followed throughout, and this portion of the system when completed will comprise 94 miles of canal, 13 miles of subaqueous channels, and 34 miles of deep-river waterway. From the mouth of the canal at Trenton where the waters of Lake Ontario are connected with, to the normal navigation level of Rice Lake, there is a total rise of 369 feet. This difference of level is to be overcome by eighteen locks. For control of the river and canal levels, fourteen dams will be required. The locks have now all been completed and the lock gates put in place on the first seven locks above Trenton. Work on the dams is now fully completed with the exception of five sluices in the bottom of dam No. 10 which are not likely to be finished until the high-level Grand Trunk Railway bridge at Campbellford has been constructed. Nineteen bridges in all will be required on this division. Seventeen of these are already completed. Of the two remaining, one is the high-level bridge at Campbellford already mentioned, and the other the Gilmour Siding bridge below lock 1, part of the substructure of which has already been built. All these bridges with the exception of that at Campbellford are of either swing or bascule type. The locks are constructed of monolithic concrete, are 175 feet long and 33 feet wide, and provide for a depth of water over the sills of 8 feet. The entire work of this division of the canal will, when completed, have involved the removal of 1,500,000 cubic yards of earth, and 1,250,000 cubic yards of solid or loose rock, and the placing of 400,000 cubic yards of concrete. The estimated cost of this work is placed at \$5,100,000, of which sum 97 per cent has been expended to date. Very complete and interesting details in regard to the foregoing will be found in the report of the superintending engineer, appended hereto.1

¹ Not printed.

 $^{20-5\}frac{1}{3}$

Severn Division.—Under this division is included the portion of the canal between Lake Couchiching and Port Severn, on Georgian Bay, a total distance of 43 miles. In this distance there will be included 4 miles of canal, 54 miles of subaqueous channel, and 33\delta miles of deep river and lake navigation. The rise of about 139 feet between the level of Lake Huron and that of Lake Couchiching will be overcome by five locks. For the regulation of the river levels, thirteen dams will be required. The route of the canal will be crossed by eight steel bridges, five for highway and three for railway traffic. Five of these bridges will be fixed spans, and the remainder swing spans. For construction purposes this division has been subdivided into four sections or contracts known as Sections 1, 2 and 3, and the Port Severn section. Section 1 is not yet under contract, and it is not likely that tenders on it will be called for until the close of the war. The work to be undertaken will include the construction of three locks and two regulating dams and will extend from deep water in Georgian Bay near Island No. 181, 17 miles easterly to a point a little above the Big Chute near the mouth of the Severn River. Section 2, now under contract, extends from the Big Chute to a point above McDonald's Rapids, a distance of 111 miles. The work included in the contract comprises principally the construction of a dam at Pretty Channel, a dam lock and power-house at Swift Rapids, and the reconstruction of the Canadian Northern Railway bridge at Ragged Rapids. The dam at Pretty Channel was completed towards the close of 1915. The dam at Swift Rapids is about half finished, and will, it is anticipated, be completed during the coming season; the power-house was completed last December. Good progress has been made on the Swift Rapids lock, and it is expected that the work will be well advanced towards completion by the end of the coming navigation season. Work in connection with the railway bridge at Ragged Rapids is still under way. Section 3, which is about 15½ miles in length, extends from the easterly end of Section 2 to deep water in Couchiching Lake. The contract for the work to be undertaken includes the construction of a lock just north of Lake Couchiching, two highway swing bridges, one railway swing bridge, and several small dams near Washago, as well as a large amount of rock and earth excavation. The excavation for the lock has been taken out, and the concrete work will probably be completed this coming season. Of the two highway bridges included in the contract, that at Muskoka road was completed in 1915, as also the substructure of the Hamlet Highway bridge. The railway swing bridge was practically completed last January, but is not yet in commission. The excavation of the canal prism betwen the lock and Lake Couchiching is well advanced towards completion, as also is the dredging of the lake channel.

WELLAND CANAL.

During the past navigation season a total of 2,552 vessels passed through this canal, a decrease of a little over S per cent on the traffic of the year before. Of the various repairs and improvements carried out during the year, the following may be noted as among the more important: On the new canal a large number of arc lights were replaced by nitrogen-tungsten lights, a considerable economy being effected thereby. On the old canal, wooden foot bridges at four of the locks were replaced by reinforced concrete structures. At Thorold, concrete sidewalks were laid on both sides of the Albert Street bridge, and a concrete wing-wall constructed at the easterly abutment. The damages sustained last year at Dunnville, by bridges and other works on the canal feeder, were fully repaired. A small wooden highway bridge over the canal feeder at the Forks Road was renewed in reinforced concrete.

PORT COLBORNE ELEVATOR.

Although in actual bushels handled, the business of the grain elevator again showed a decrease owing to existing war conditions, the net earnings on the season's work were slightly in excess of those of the 1915 season, a fact that may be ascribed to

the revenue derived from the sacking of oats for European shipment, a new undertaking for this elevator. Only slight repairs of a very unimportant nature were required during the past fiscal year.

WELLAND SHIP CANAL.

Work on the new ship canal was continued up to the end of the fiscal year 1916-17, when, on account of the unusual conditions brought about through the present war, the department notified all contractors to suspend work for a period of one year. The work as carried on up to then was divided into nine sections, numbered in order from the Lake Outario end of the canal. Up to the end of 1916, operations had been under way on sections 1, 2, 3, and 5.

Section No. 1.—The work included in this section covered principally the construction of the new harbour at the Lake Ontario end of the canal, and the lock and entrance to the canal connected therewith. Work had progressed very favourably up to the time of closing down, and is now two-thirds completed.

Section No. 2.—The work which has been carried on on this section has comprised the excavation of the canal prism and the building of embankments, the construction of two single locks with cutrance walls, weirs, etc., and the building of the substructure of a number of bridges crossing the canal. Good progress was made on all these works, and of the total amount included in the contract more than half had been completed when work ceased.

Section No. 3.—The work which has been in progress on this section has included the excavation of canal prism and lock sites and the formation of embankment, the construction of one single and three twin locks, the building of a large earth dam with concrete core wall, and a diversion of a portion of the Welland Division of the Grand Trunk Railway to permit of a more satisfactory location for the canal. The work covered by this contract is about one-third completed.

Section No. 5.—The work on this section has included the widening, and deepening of the existing canal between Allanburg and Port Robinson, or for a distance of about 2½ miles. Work progressed satisfactorily up till the closing down of operations at the end of last year, when the undertaking covered by the contract was about two-thirds completed.

In the annual report of the engineer in charge, appended hereto, complete and interesting details regarding the various works carried out up to the close of the 1916 season have been gone into. A full description of the whole scheme of the ship canal route will be found in the report of the engineer in charge for the year 1912-13.

ST. PETER'S CANAL.

This canal, the reconstruction of and improvements to which are now nearing completion, connects the Bras d'Or lakes of Cape Breton island with St. Peter's Bay and the Atlantic Ocean on the south coast. It is operated by one tidal lock. During the season of 1916 the various works which have been under way since May, 1912, were practically brought to completion. The principal items of work yet to be done are the finishing of the dredging at the Atlantic end of the canal, the construction of a small crib, the building of a few hundred feet of concrete wall, and the general grading and trimming up of the entire work, all of which, it is confidently expected, will be accomplished during the coming season.

¹ Not printed.

SAULT STE. MARIE CANAL.

During the past year there has been a very marked increase in the traffic which has passed through this canal, an increase of nearly 30 per cent having been shown over the previous year's figures. This increase may be ascribed both to the unusually heavy demand for iron ore and to the very favourable water conditions which prevailed throughout the season. Only one accident of importance occurred during the navigation season, and the damage caused thereby was repaired at slight expense. The work of renewing the top of the lower south pier, which was commenced two years ago, was continued; about 175 feet of pier was taken down to below water level, and the timber cribwork replaced by concrete walls filled with stone. A little over 300 feet of pier still remains to be reconstructed in a similar manner.

RAILWAYS.

CAR FERRY TERMINALS-NORTHUMBERLAND STRAIT.

This undertaking comprises the construction of harbour works, landing piers, etc., at Cape Tormentine, New Brunswick, and at Carleton Point, Prince Edward Island, and the building of about 3 miles of railway connecting the Cape Traverse branch of the Prince Edward Island Railway with the Carleton Point terminal. The width of Northumberland strait between Cape Tormentine and Carleton Point is 8 miles.

At Cape Tormentine, all work has now been completed except at the breakwater, where a considerable quantity of stone filling and capping stone will have to be placed during the coming season. The installation of an electric lighting plant, for which a contract has been let, has also still to be effected.

At the Carleton Point terminal all work is now complete except the dredging of the turning basin, which it is expected will be finished this year.

The Carleton Point Branch railway has been completed.

The transfer bridges at both terminals, which have been constructed under contract by the Dominion Bridge Company, are now practically ready for operation.

HUDSON BAY RAILWAY.

During the past year grading has been carried as far as Port Nelson with the exception of a few gaps which amount, in all, to only 11 miles. Over a million yards of material have been handled. Main-line track, with the necessary sidings, has been laid to the second crossing of the Nelson river at Kettle rapids, distant about 90 miles from Port Nelson. Track is therefore now laid for upwards of 80 per cent of the entire 424 miles between Le Pas and Port Nelson. Ballasting and surfacing have been carried as far as mile 295, and sufficient deposits of suitable gravel have been found at convenient points to complete the ballasting of the entire line. The telegraph line has been installed as far as Kettle rapids. Water tanks have already been erected at two points. Work was begun on the substructure of the Kettle Rapids bridge last November, but only a commencement could be made before work was stopped by the severity of the winter weather. Work during the past year has been very much hampered through a shortage of labour.

HUDSON BAY TERMINUS.

The deep-water development of this harbour, consisting of an artificially constructed island situated near the outer edge of the tidal flats, about one-half mile from shore, connected with the mainland by seventeen steel spans of 140 feet in length each, has progressed satisfactorily, considering the natural disadvantage of the climate and

the handicap of an unusually stormy season. The supporting bridge piers were completed, as were the steel spans themselves, and the former withstood this year's spring ice shove successfully, a test which had been awaited with great interest. These piers had received large amounts of stone protection, which had been dredged 11 miles up the river, and every precaution had been taken to render them stable against the enormous forces of the Nelson River ice-shoves, but it was satisfactory to have their stability actually proven.

Of the island itself, about 1,600 feet of eribwork, 23 feet high, was completed and

partially protected by backfilling for the winter.

Dredging was continued during the season, considerable timber was cut, driven down the Airhole river and rafted down the Nelson a total distance of 136 miles to the works, and various buildings, warehouses, and seows were built.

Navigation of the harbour for the season commenced on June 14, 1916, and the local dredging fleet, with attendant vessels, was floated and at work during the ensuing week. The steamer *Sheba* and *Durley Chine* each made two round trips from Halifax to Port Nelson, the first arrival from sea being on August 3, and the last to leave on October 10.

During the winter months the construction forces were reduced to about one hundred men, which number will be increased to 600 or 700 during the 1917 season.

W. A. BOWDEN, Chief Engineer.

APPENDIX IV.

REPORT OF THE CHIEF ENGINEER OF THE WESTERN DIVISION OF THE NATIONAL TRANSCONTINENTAL RAILWAY.

I have the honour to submit my annual report for the fiscal year ended the 31st of March, 1917, upon the Western division of the National Transcontinental Railway—Winnipeg to Prince Rupert—1,748 miles, including the 3½ miles on the shore line of the terminal grounds at the latter point.

The amount of certificates of expenditure up to the 31st of December, 1916, amounted to:-

Prairie section, 915 miles Mountain section, 833 miles		
Total	 	 \$131,070,730 64

Estimated value of work remaining to be executed to comply with the Acts of Parliament, contract and specification:—

Prairie section. \$2,297,5 Mountain section. 2,330,5				
		\$	4,627,885	00
Total cost	· · · ·	\$1:	35,698,615	64

Or 1,748 miles at a cost of \$135,698,615.64 = \$77,630.79 per mile.

No further payments have been made up to this date.

There are, in my opinion, many items included in the certificates, which, under the usual term of cost of construction, would not be so treated, but under the contract, etc., they are covered as cost of construction.

I may here remark that the entire Western division is in good safe condition for operation of public traffic, although the track is not up to grade at certain points, embankments being narrow and certain temporary trestles yet to be made into solid embankments, but it must be kept in mind that it is absolutely necessary the road should be kept up to its present standard by careful and judicious maintenance.

The following is a detailed statement of the work remaining to be executed to bring the road up to the standard called for by the Acts of Parliament, contract, and specification:—

Between zero at Winnipeg and 280th mile west thereof, mak-		
ing the structures of a permanent character; and from		
the 280th mile to the crossing of Long Lake and Sas-		
katchewan Railway, making 25 per cent of the open and		
box culverts and 50 per cent of pile bridges of a per-		
manent character	\$1,200,000	0.0
Filling embankments up to subgrade and widening to speci-		
fication width between Winnipeg and Wolf Creek	62,500	0.0
Building a mile of railway through Edmonton, and purchasing	,	
property therefor	435,000	0.0
* *	.00,000	-

Ballasting to be done to bring road up to specification standard between Winnipeg and Wolf Creek. \$ 600,000 00 Temporary trestles to be made into solid embankments, widening embankments and taking care of slides between Wolf Creek and Prince Rupert			
Temporary trestles to be made into solid embankments, widening embankments and taking care of slides between Wolf Creek and Prince Rupert			
widening embankments and taking care of slides between Wolf Creek and Prince Rupert		\$ 600,000	0.0
Ballasting to bring road up to requirements of specification between Wolf Creek and Prince Rupert			
Ballasting to bring road up to requirements of specification between Wolf Creek and Prince Rupert		210 500	0.0
between Wolf Creek and Prince Rupert		310,500	0.0
Endako and Smithers. Endako and Smithers. To,000 00 Way station houses to be rebuilt at Lake Kathlyn and Ritchie. Round house at Prince Rupert to be built. Sound house at Prince Rupert to be built. Endako and Prince Rupert to be built. Sound house at Prince Rupert to be built. Sound house at Prince Rupert to be built. Sound house at Prince Rupert to be built. Sound house at Prince Rupert to be built. Sound house at Prince Rupert to be built. Sound house at Prince Rupert to be built. Sound house at Prince Rupert to be built. Sound house at Prince Rupert to be built. Bridges to be erected on foreshore at terminal yard to be erected. Station house at Prince Rupert to be built. Sound house at Prince Rupert to be built. Sound house at Prince Rupert to be built. Sound house at Prince Rupert to be built. Sound house at Prince Rupert to be built. Carpenter shop at Prince Rupert to be built. Carpenter shop at Prince Rupert to be built. Sound on Warehouse on dock at Prince Rupert to be built. Sound on Warehouse on dock at Prince Rupert to be built. Stell rails to be provided west of Wolf Creek. Stell rails to be provided west of Wolf Creek. Stell rails to be provided west of Wolf Creek. Stell rails to be provided west of Wolf Creek. Ford fraser surface at Prince Rupert Machinery and tools to be provided at divisional points west of Wolf Creek. To provide water service at Prince Rupert Machinery and tools to be browled at divisional points west of Wolf Creek. Tool houses to be erected at Cariboo, Fenny, Willow River, Fort Fraser, Burns Lake, Hazelton, Kittwanga and Terrance. Section houses to be erected at Cariboo, Penny, Willow River, Fort Fraser, Burns Lake, Hazelton, Kittwanga, Terrance and Prince Rupert. Machine shops to complete at divisional points Machine shops to complete at divisional points Sound houses to be erected at Cariboo, Penny, Willow River, Fort Fraser, Burns Lake, Hazelton, Kittwanga, Terrance and Prince Rupert. Machine shops to complete at divisional points Sound		375,000	0.0
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Total	Miscellaneous buildings at divisional points	10,000	0.0
10(8)	Water 1	81 697 665	0.0
	Total.,	φ±,0±1,000	

I trust I have placed the position of the works of construction and the condition of the road for the operation of public traffic thereon on the 31st of December, 1916, in a plain and concise manner in which it can be readily understood.

COLLINGWOOD SCHREIBER, Chief Engineer West. Div. N.T.Ry.

APPENDIX V.

REPORT OF THE CHAIRMAN AND CHIEF ENGINEER, BOARD OF ENGINEERS, QUEBEC BRIDGE.

I beg to report progress of work in connection with the construction of the Quebec

bridge for the fiscal year ending March 31, 1917, as follows:-

During the past season, fabrication of the entire structure was completed, as well as the erection of the south cantilever arm and the suspended span, thus completing the erection of the entire bridge with the exception of floating in and connecting up of the suspended span to the cantilever arms. The failure of a portion of the contractor's erection equipment at the time when the suspended span was being lifted into place, September 11, 1916, resulted in the loss of the suspended span, or about 5,000 tons of bridge material. As reported at the time, the St. Lawrence Bridge Company assumed the entire responsibility for the loss, and took immediate steps to replace this portion of the structure, at their own expense. Orders for the raw material were immediately placed at the mill in Pittsburgh, and, considering the overcrowded condition of all the mills at the time, remarkably quick delivery was promised, and at the present time, 95 per cent of the material has been rolled and delivered at the shops.

Fabrication has also been going ahead rapidly, and at the present time some 75 per cent of the bridge members have been manufactured and shipped to the site. It is expected that a start on the erection will be made about the middle of April, and that

the span can be erected in place early in September.

· C. N. MONSERRAT, Chairman and Chief Engineer.

REPORT OF THE BOARD OF ENGINEERS QUEBEC BRIDGE.

Остовек 19th, 1916.

Your Board begs to submit herewith report on the accident which occurred on the morning of September 11th., resulting in the loss of the centre span while it was being lifted into position between the two cantilever arms of the Quebec Bridge.

A brief resumé of the operations leading up to this accident is as follows:

The span itself and the entire erection equipment and installation had been completed a week or ten days before the date of floating. During this time repeated studies of the whole programme were made, and the men specially drilled in all the mechanical operations that would be required in connection with the lifting of the span. Test loads were applied to the jacks up to 50% in excess of the loads they would have to carry under actual working conditions. Picked men were employed for all the mechanical operations and each man was assigned to a special post.

The centre span had been erected at Sillery, about $3\frac{1}{2}$ miles below the bridge site, and supported during erection on steel falsework. This span was to be floated on six seews, each 132'-0" x 65'-0" and 11'-6" deep, three being placed under each end of the

span. Valves were provided in the bottom of these seems and were kept open after being placed in position in order that the water would flow into them, providing against any lifting movement from the tides, before the appointed time. At one o'clock Monday morning, September 11th., the valves in the scows were closed, and as the tide rose the weight of the centre span was gradually transferred to the scows until at 3.40 a.m. they floated clear of the bottom. At 4.40 a.m. when the scows had lifted about 21 feet the tugs began moving the span into the river. Four small tugs and one large tug were attached to the downstream side and two smaller tugs on the upstream side. One large tug was held in abeyance for emergencies, but was not required. At 5.15 a.m. the span had manguvered into midstream and a start was made for the bridge site, the span being guided by the lower tugs against the current, and the speed being slightly accelerated by the two upper tugs. A quarter of a mile below the bridge site the speed of the span was checked in order to ascertain if it was under perfect control. The span was brought to a standstill within two or three minutes and held in that position without difficulty. At 6.35 a.m., the span reached its position between the cantilever arms. Steel cables from the hanging mooring trusses were then attached to the span and by means of hoisting engines it was warped into position and held there while the connection between the plate hangers and the span was made. At 7.40 a.m. all the plate hangers on the four corners had been connected up to the pins on the centre span, and a few minute- later the tugs cast off. The entire operation of floating the span and connecting it up to the plate hangers worked exactly in accordance with the schedule that had been mapped out. Nothing occurred that had not been foreseen and provided for. The weather was all that could be desired. There was very little wind and every condition was favourable. At 8.25 a.m. the hanger bars began to take some load as the tide continued to fall. At 8.50 a.m. the jacks began lifting and during the third lift of 2 feet the scows floated clear, leaving the span suspended about 20 feet above the water. As the remaining work of lifting the span into place was simply a repetition of mechanical operations which had already been successfully performed, it was felt by the officials and engineers present that the most difficult part of the work had been satisfactorily accomplished, and after one more lift of the jacks further operations were suspended for an hour to allow the men to go to breakfast.

At 10.30 a.m. lifting operations were resumed until five complete lifts were made on the north side and six on the south. The pins had been inserted connecting the links to the fixed jacking girders, thus transferring the load from the jacks direct to the cantilever trusses. The jacks had been released and the upper jacking girders were being lowered for another lift when a sharp report was heard and the span was seen to tilt towards the west and disappear into the river.

Immediately after the accident your Board, in conjunction with the officials of the St. Lawrence Bridge Company, started an investigation to determine the cause of

the accident.

An examination of the main lifting apparatus was made immediately. The lifting hangers, lower supporting girders, jacking girders, jacks and upper supporting girders were in place, and although the lower lifting girders were scarred and scratched and the hangers slightly bent in a few places, this portion of the apparatus showed no sign of failure. (See photos 7 and 8.) As the jacks were idle at the time and the upper jacking girders were being lowered to take the next lift, the cause of the accident could not be ascribed to any failure in the lifting mechanism.

The theory that the span could have slipped off its supports due to some horizontal force created by the lifting operations was investigated. To effect a sliding motion on the supporting pin in the shoe, a very considerable horizontal force will be required. An eccentric concentration of the load on the lifting girders would, if sufficiently eccentric, tend to tip the girders and induce a horizontal force sufficient to cause sliding. Extreme care was taken throughout to prevent any such eccentric loading.

After the span was lifted off the falsework at Sillery, the loading girders were suspended from the ends of the centre span by means of pin-connected bridles "A" (Drawing CS3) which would allow the girder to adjust itself by gravity in an exactly central position under its bearing. While the span was being towed to the site special centering plates "B" (Drawing CS3) were attached to the lower casting "C" (Drawing CS3) and fitted against the ribs of the middle casting "D" (Drawing CS3) in order to insure that both castings and pins must take their exact theoretical positions. These plates were fitted in the shop, match-marked, and shipped loose to the site. It was impossible, therefore, that the load could be distributed to the girder in any other way than as designed. The plates, castings and bearings were examined by our inspectors after being put in place on the morning of the 11th., and also after the load had been taken on the hangers. They were also examined by officials of the Bridge Company within twenty minutes of the time of the accident, and everything was found to be absolutely normal at these points. As there were no other conditions existing which could have created a horizontal force of any consequence, the theory that there was any eccentric load under the conditions existing up to the time of the accident or that there was any horizontal force sufficient to cause movement in a longitudinal direction must, therefore, le dismissed.

The lifting of one corner of the span more rapidly than another would produce a torsional deformation of the span. The trusses of the span are supported by their portal and lateral bracing. If one corner were allowed to deflect or were lifted higher than the other, the bracing would be subjected to further stress due to this movement, and if this action were allowed to go to extreme limits the bracing would fail. Such failure would leave the trusses unsupported, allowing them to buckle laterally. Every precaution, however, was taken to provide against any unequal movement of this nature. "Tell-tales" were attached to each jack at each corner. The "tell-tales" from each set of jacks at one corner were arranged so that, by means of a scale and pointers placed directly in front of the man operating the regulating valves of the jacks, it could be determined at all times during the movement whether the jacks were lifting at the same rate of speed. By manipulating the valves leading to the jacks the fingers of the "tell-tale" from each jack were kept absolutely opposite each other during the lifting operation. If one finger tended to advance ahead of the other this was corrected instantly by means of the controlling valves. "Tell-tales" were also placed at the centre of the operating platform where other controlling valves were situated and connected with each corner of the centre span. In the same way the operator at this point kept the fingers on the scale board exactly opposite, regulating the movement by means of the valves controlling the hydraulic system. This movement of these "tell-tales" was also carefully watched by Engineers of the Bridge Company. Special drills were held several days in advance covering this operation, and the men were thoroughly conversant with the working of the apparatus. When the jacks were raised the two feet required for each movement, as indicated on the gauge by the "tell-tales", the pins in each corner were inserted without further operation of the jacks. This shows conclusively that the "tell-tales" accurately indicated the actual movement of the jacks and that the corners at each end of the span were kept level at all times.

There are no exceptional problems in the design of this span. It was designed on the same specification as the cantilevers, which withstood successfully the very severe shock to which they were subjected. Furthermore, it was not carrying at the time more than one-half of the load for which it was designed. The original stress sheets were checked and re-checked several times before this span was manufactured. A re-calculation has again been made, and the results agree with the original calculations. The estimated weight upon which the original dead load calculations were made checks within one-half of one per cent with the actual scale weights.

Photograph No. 1 published a few days after the accident, showing the span actually falling, furnished indisputable evidence that the southwest corner fell first, and corroborated the conclusion that your Board had previously reached. The evidence of eye-witnesses, which is borne out by markings on the lifting girders, would indicate that the southeast corner fell next, and that the northeast and northwest corners fell last and practically simultaneously. In view of these facts, primary evidence to account for the loss of the span would naturally be sought at the southwest corner.

A minute examination of the southwest lower lifting girder (see photos 10 and 11 and Drawing CS1) furnishes unmistakable evidence of a failure of one of the erection steel castings which was temporarily supporting the span while being lifted. The strongest evidence of this fact is contributed by the centering plates "B" and "B1" and the suspender bridle "A". The northwest centering plate "B" has been crushed down vertically and across the pin with two of its bolts sheared off and two intact. The suspension bridle plates "A" have also been crushed down vertically and are lying over the centering plate. No evidence of sliding on these plates is to be seen as the paint has not been disturbed except from the effect of crushing. The southeast centering plate "B1" has been sheared off completely and is lying adjacent to its original position. This plate is also crumpled up, giving evidence of a vertical blow. The southwest and northeast centering plates have disappeared, but the bolts of these. as well, as of the southeast plate, have been sheared in a vertical direction, giving further evidence of a vertical blow. It is impossible that the middle casting "D" (Drawing CS3 and photo 9) could have slipped off the pin in its normal position without having carried away the northwest centering plate "B". The evidence is positive that the damage done to this latter plate was prior to any longitudinal movement of the truss or girder tending to dislodge this corner of the span from its support. Scoriations on the pin show a diagonal movement of some rough surface towards the northeast and the pin also rotated eastward on top about 13", showing that the effect of whatever action took place kicked the girder south and rotated it horizontally through an angle of about 30°. The hitch angles "A1" for the east suspension bridle plate have been cut through at the same angle, showing the line of travel of the girder in relation to the truss. The south tie-plates "G1" of the box hangers "G" were bent slightly outward due to the rotation of the supporting girders about pin "X" (Drawing CS1) just above the lifting girders, but the connections "G2" of the box hangers to this girder were undisturbed. The lower end of the east plate hangers (See Drawing CS1) was also bent outward and scored, due to the action of cutting their way through the heavy horizontal strut joining the two ends of the trusses of the centre span.

On the assumption that the central erection casting "D" (Photo No. 9) at this corner, failed,—it is possible—in view of the further evidence at hand, to deduce the successive steps in the fall of the span. The failure of this casting would allow the southwest corner of the span to drop on the lower pin "P", or the top flange of the girder "G3" in such a manner as to kick it back towards the south and cause it to rotate about its upper pins. This rotation if sufficiently great, would allow this corner of the span to slip off the supporting girder. The immediate effect of this corner of the span being unsupported would be to cause a momentary rotation of the span about a diagonal axis extending from the northwest corner to the southeast corner and producing an overload at these two corners equal to the capacity of the bracing and end portal to transfer this load. As the bracing was not designed for any such emergency the southwest corner of the span would settle rapidly, tending to turn the span over on its side towards the west. As this movement increased the bracing would crumple up with the inevitable result that the chords would go out of line and trusses thus fail. As the bracing of the span would not be strong enough to distribute the distortion at the south end to the north, the latter ends of the trusses would remain on their bearing until both south ends had disappeared in the water, finally sliding off longitudinally, the inside lifting hangers tearing through the end cross strut in doing so. The

evidence on the other three lifting girders substantially confirms this theory. An examination of the southeast lifting girder (See photos 12 and 13 and Drawing CS1) shows the lower pin missing and, what is somewhat remarkable, the upper pin "P1" resting in the lower casting "C". The four centering plates "B" are in place, three of them being flared outward at an angle of about 45°. The fourth, the northwest centering plate "B1", is still securely bolted to the casting, but its upper portion has been flattened downward into a horizontal position. The east suspension bridle is missing but the west bridle "A" is in place, but crushed downward. The east box hanger and plate hangers above are practically undamaged. The west hangers are badly bent outward and scored. The top of the girder is also badly marked and the west end of the girder has its flange angles and plates bent downward. The position and condition of the centering plates show that there could not have been any direct longitudinal sliding motion or the two plates towards the north would have been sheared off. The evidence indicates that when the southwest corner dropped there was a lateral rotation of the southeast end of the span on the lower longitudinal pin. When this motion had continued to such an extent that a lateral rather than a vertical force was directed against the lower pin, this pin was kicked out. The kicking out of the lower pin probably carried the middle casting with it, and the upper pin falling lodged in the pin groove of the lower casting. The rotation of this corner accounts for the crushing of the northwest centering plate and suspension bridles. The dropping of the southwest corner and the turning movement of this end of the span carried the east truss against the inside hanger, bending and mutilating it as it finally tore through the heavy end strut, as indicated by the markings on this hanger.

The condition of the northwest supporting girder and hangers is practically identical with that of the northeast corner. (See photos 14-15-16-17 and Drawing CS2). In each case the two north centering plates "B" (Photos 14 and 16) are in place and undamaged. The south centering plates have their bolts sheared off horizontally and one plate of each girder is missing. In both cases the inside plate hangers are bent to a certain extent and scored "H" (Photo 15) where they tore through the horizontal strut of the centre span. The outside box hangers and plate hangers are undamaged "H1" (Photo 16), with the exception that the north tie plate on the east box hanger is slightly bent outward due to rotation about the pin. The tops of the girders themselves were only slightly damaged on the south face due to the final

slipping off of the span.

In view of the foregoing evidence your Board is satisfied that the primary cause of the accident was the failure of one of the temporary erection steel bearing castings (see photo 9) supporting the southwest corner of the centre span. These steel castings were manufactured at the works of the Canadian Steel Foundries, Ltd., Montreal, and the results of the specimen tests showed that the material had met the requirements of the specification in all respects. The machining of the castings was done at the works of the St. Lawrence Bridge Company, where they received careful inspection. They had also been subjected to a test load while at Sillery of about 10% in excess of the loads carried during lifting operations, due to the weight of material trains and temporary track, this track having been removed before floating. At the moment of the accident the eastings under the other corners were subjected to an overload of from 70 to 100%, as evidenced by the elongation of the plate hangers supporting the ends of the span. Notwithstanding this fact there are no indications that any of the castings failed at these points. It is, therefore, your Board's opinion that the failure of the erection casting at the southwest corner was due to a flaw or other imperfection which could not be detected, and further that had the casting been sound no failure would have occurred.

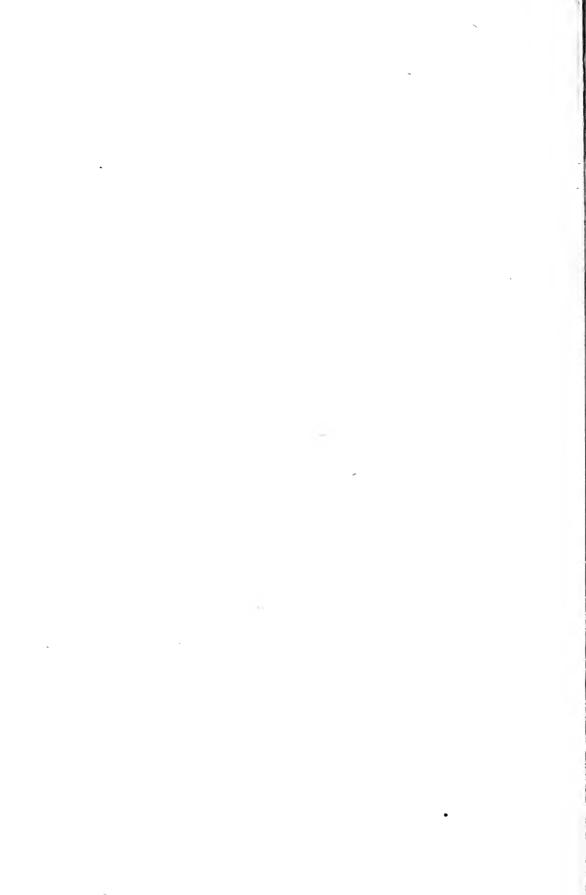
The member that failed (Photo No. 9) was a part of the contractor's erection equipment, in use only during the erection and lifting into position of the centre span,

and formed no part of the permanent structure. The St. Lawrence Bridge Company have advised your Board that they assume entire responsibility for the failure of this member and the resulting loss of the span, and have already taken the necessary steps towards replacing the lost structure. The length of time required to complete this work will depend upon the deliveries that can be obtained for raw material. We are advised, however, by the St. Lawrence Bridge Company that the mills have undertaken to complete delivery within five months and that rolling has already started. Since the proportion of the steelwork lost amounts to only \$\circ_C\$ of the whole, and 92\$\circ_C\$ is at present completely erected, there should be very little delay in the completion of the bridge if these promises are fulfilled.

When the weight of the centre span was taken up by the cantilevers, it caused an estimated deflection at the ends of the latter of about 7½ inches. The sudden release of this load caused the cantilevers to spring violently upward, setting up severe vibrations which were sufficient to throw persons off their feet. A very thorough examination of the cantilevers has since been made with the result that no sign of injury or movement has any where been found. The elevations of the pins in the trusses, as well as the alignment of the trusses and main posts have been checked by instruments and found unchanged. All joints and connections in the cantilevers, including bracing, have been examined and no evidence of any action can be detected. Rivets in sway bracing and other important connections have been carefully inspected and no loose rivets have been found. Your Board are absolutely satisfied that no damage of any kind has been done to the cantilevers.

Herewith is attached list of plans and photographs accompanying this report.

C. N. MONSARRAT, RALPH MODJESKI, H. P. BORDEN



DEPARTMENT OF RAILWAYS AND CANALS

CANAL STATISTICS

FOR THE

SEASON OF NAVIGATION 1917

PRINTED BY ORDER OF PARLIAMENT



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

1918

No. 20a-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 present to Your Excellency, Cana¹ Statistics for the year ended December 31, 1917.

All of which is respectfully submitted.

J. D. REID,

Minister of Railways and Canals.

To the Honourable J. D. Reid,

Minister of Railways and Canals.

Sir,—I have the honour to submit the annual report of the Comptroller of Statistics in relation to the operations of the Canals of the Dominion for the year ended December 31, 1917.

I have the honour to be, sir,

Your obedient servant,

A. W. CAMPBELL,

Deputy Minister of Railways and Canals.

Office of the Comptroller of Statistics, Ottawa, May 1, 1918.

A. W. Campbell, Esq., C.E., Deputy Minister of Railways and Canals.

Sir,—I have the honour to submit herewith Canal Statistics for the year ended December 31, 1917.

ABRIDGED REPORT.

Owing to war conditions, it has been deemed expedient for the year 1917 to materially reduce the volume of statistical matter published. The complete facts, however, have been tabulated and will be available when required.

VOLUME AND DISTRIBUTION OF TRAFFIC.

,	Tons.	Increase.	Decrease.
		Tons.	Tons.
Sault Ste. Marie	15,447,092 2,490,542 3,391,144		1,366,557 $54,422$
Chambly St. Peter's Murray	$\begin{array}{r} 434,818 \\ 62,254 \\ 57,603 \end{array}$	35,841 52,625 10,923	
Ottawa. Rideau. Frent.	84,549 48,924	3,915	20,881
St. Andrews	$\frac{7,174}{22,238,935}$	126,384	

GROSS TRAFFIC SINCE 1915.

	Tons.
1905	9,371,744
1903	10,523,185
1997	20,543,639
1933	17,502,820
1909	33,720,748
	42,990,693
1911	38,030,353
1912	47,587,245
	52,053,913
1914	37,023,237
1915	
1916	
1917	22,238,935

Analysis of Traffic.

Canals.	Agricultural Products.	Animal Products.	Manu- factures.	Products of Forest.	Products of Mines.	Total.
1917.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Sault Ste, Marie, Welland, St. Lawrence Chambly, St. Peter's Murray Ottawa Rideau, Trent St. Andrews, Total	2,670,744 562,669 564,185, 15,280 6,601 325, 3,467, 3,225, 1,191,5	172 4,899 138 2,721 3,410 1,872 220 7	322, 113 184, 290 236, 197 18, 664 6, 931 6, 956 24, 682 10, 779 2, 384 162	32,889 243,965 469,433 259,713 2,218 9,98,539 11,826 44,810 7,000	12, 421, 174 1, 499, 618 2, 116, 430 141, 023 43, 783 50, 313 84, 737 56, 847 319	15, 447, 692 2, 490, 542 2, 391, 144 434, 818 62, 254 57, 603 214, 835 84, 549 48, 924 7, 174
	1912.	1913.	1914.	1915.	1916.	1917.
Agricultural products Animal products Manufactures Products of forest Products of mine	Per cent. 14·51 -04 4·68 3·43 77·34	Per cent. 16·40 ·04 3·61 3·22 76·73	Per cent. 21·51 ·04 3·29 4·38 70·78	Per cent. 34·11 .07 7·21 9·83 48·78	Per cent. 21.96 .04 3.53 5.87 68.60	Per cent. 17·21 ·06 3·65 5·26 73·82

SESSIONAL PAPER No. 20a

CANADIAN AND AMERICAN TRAFFIC.

Neither the canals of Canada nor those of the United States impose tolls. Perfect reciprocity prevails in the use of these artificial waterways.

Comparison of Traffic.

Year.	Canadia	n Vessels.	U.S.	Vessels.	Fi	reight Tonnag	ge.
I ear.	No.	Tonnage.	No.	Tonnage.	Canada.	United States.	Total.
1903 1909 1910 1911 1912 1913 1914 1915 1916 1917	29,040 22,507 25,337 25,585 27,371 28,654 26,125 21,575 23,002 21,588	6,789,789 7,811,578 8,931,790 9,172,192 10,237,335 12,078,041 12,050,856 9,398,207 9,839,029 9,831,634	7, 489 9, 996 11, 462 10, 370 11, 785 10, 739 7, 742 6, 415 6, 809 6, 594	4,835,320 16,459,322 21,777,297 18,231,622 24,636,190 24,238,788 15,636,414 7,385,101 10,659,839 10,259,772	5,012,147 7,378,057 7,883,614 7,792,907 9,376,529 11,130,875 9,382,206 6,789,423 7,486,962 5,964,369	12, 190, 673 26, 342, 691 35, 106, 994 30, 237, 446 38, 210, 716 40, 923, 038 27, 641, 031 8, 409, 380 16, 096, 529 16, 274, 566	17, 502, 820 33, 720, 748 42, 990, 608 38, 030, 353 47, 587, 245 52, 053, 913 37, 023, 237 15, 198, 803 23, 583, 491 22, 238, 935

TRANSPORTATION OF CANADIAN WHEAT.

Since 1895 the volume of Canadian wheat annually carried through the Canadian canal at Sault Ste. Marie has been as follows:---

	Bushels.
1895	1,087,800
1896	7, 274, 090
1897	9, 130, 167
1898	3,456,934
1899	7,699,267
1900	5,573,267
1901	5,893,034
1902	19,896,900
1903	25,807,800
1904	25,250,969
1905	22,603,500
1906	26,361,400
1907	34,602,000
1908	41,793,300
1909	48,047,833
1910	51,774,833
1911	63,641,000
1912	83,743,034
1913	101,066,133
1914	77,467,833
1915	48,727,911
1916	82,807,342
1917	60,551,243

Comparison of 1915, 1916 hnd 1917.

	1915.	1916.	1917.
Through the Canadian canal. Through the American canal	Bushels. 48,727,911 121,389,950	Bushels. 82,807,342 102,196,325	60, 551, 243 98, 023, 019
Total	170, 117, 861	185,003,667	158, 574, 262

Canadian wheat, in the form of flour, had a total of 13.230,850 bushels. There were 2.940,189 barrels of flour, which were calculated into wheat on the basis of 45 bushels to barrel.

The total volume of waterborne wheat in 1917 would thus be made up as follows:—

	Bushels.
Through the Canadian canal	69, 551, 243
Through the American canal	
In the form of flour	13,230,850
-	
Total	171,805,112

The distribution of Canadian wheat, moved through the Canadian and American canals at Sault Ste. Marie from Port Arthur-Fort William, was as follows:—

From	1915.	1916.	1917.
Port Arthur-Fort William.	Bushels.	Bushels.	Bushels.
To Montreal " Georgian Bay ports " other Canadian ports " Buffalo	$\begin{array}{c} 3,512,410 \\ 25,065,999 \\ 33,067,613 \\ 106,784,542 \end{array}$	1,233,982 46,406,749 28,029,847 106,349,943	$\substack{1,280,170\\52,453,042\\31,369,487\\72,872,692}$
Total	168,430,564	182, 020, 521	157, 975, 391

To the foregoing total for 1917 should be added 598.871 bushels of Canadian wheat shipped from Duluth to Montreal.

"Other Canadian ports" practically means Port Colborne at the western entrance to the Welland Canal.

Wheat Movement by Months, 1917.

SESSIONAL PAPER No. 20a

1917.	April.	May,	June.	July.	August.	September.	October.	November. December.	December.	Total.
Canadian Canal. Fort William-Port Arthur to Montreal Georgian Bay. Other Canadian Ports. Buffato Duluth-Superior to Montreal Georgian Bay.	Bushels,	Bushels. 45,000 5,728,500 2,427,000 4,088,087	Bushels. 205,500 6,393,880 1,549,402 2,177,213	Bushels. 158, 980 1, 653, 806 2, 650, 883 363, 600	Bushels. 129,000 1,020,640 2,126,000	Bushels. 164, 266 277, 000 1, 900, 675 567, 630	Bushels. 301,800 4,157,397 2,476,003 2,608,087	Bushels. 17,200 5,113,678 3,657,700 4,428,850	Bushels. 40,000 2,860,700 573,000 345,219	Bushels. 1, 064, 746 27, 210, 601 17, 420, 660 14, 855, 236
n Other Canadian Ports Buffalo Total. American Canal.		12,288,587	12, 288, 587 10, 325, 995	4,832,269	3,532,140	2,969,621	9,546,284	13,217,428	3,818,919	60, 551, 243
Fort William-Port Arthur to Montreal Georgian Bay Othor Complime		1,502,575	2,510,750	56,724 2,365,280	1,680,939	57,000 748,000	56,700 7,251,390	45,000 6,545,220	2,838,287	215, 424 25, 242, 441
or to Montreal. Georgian		1,266,525	1, 760, 000 8, 263, 059	562, 436 1,779,359	2,012,414 1,032,201	1,876,995 781,496	3,607,289	2, 286, 168		13, 948, 827 58, 017, 456
nn Ports		18 070 051 19 714 680 1 75 700 1 705 655	210,880	1 763 700	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		30	0100	012 000	598,871
l American Canals.		10,018,030	660,141,000	1,100,133	4, 120, 001	9,400,431	1+6,000,12	21,004,347	11,022,912	95, 023, 019
Fort William-Port Arthur to Montreal Georgian Bay Other Canadian Ports		7, 031, 075 8, 904, 650 3, 693, 525 3, 309, 402		215, 701 4, 024, 086 3, 213, 319 9, 142, 050	2, 701, 579 4, 138, 414	221, 266 1, 025, 000 3, 837, 670	361, 500 11, 408, 787 6,083, 289	62, 200 11, 658, 898 5, 943, 868	40,000 5,698,987 1,150,000	1, 280, 170 52, 453, 042 31, 369, 487
Duluth-Superior to Montreal Georgian Bay Other Canadian Ports Bulfalo		387,991						000100010010010010010010010010010010010	77.00.00	598,871
Grand Total		30, 367, 640 23, 070, 684 9, 596, 068 8, 277, 697	23,070,684	9,596,068	8,277,697	6, 436, 112	31,112,825	34, 271, 775	15, 441, 461	158, 574, 262

There was a large volume of wheat moved during the year 1917 from Port Colborne to Montreal, which might properly be added to the foregoing total for Fort William-Port Arthur to Montreal. Port Colborne was used as a port of transfer. It might, in fact, be assumed that nearly all the wheat moved from the head of the Great Lakes to "other Canadian ports" actually went to Montreal.

A helpful light is thrown on the foregoing table when the monthly totals are reduced to a percentage basis, as follows:—

	1915.	1916.	1917.	Į		1915.	1916.	1917.
April	$4 \cdot S$	8.6			September	7.3	$6 \cdot 1$	$4 \cdot 1$
May	$5 \cdot 5$	$16 \cdot 9$	19:2	1	October	$27 \cdot 5$	8.7	19.6
June	$2 \cdot 0$	11.9	14:5	i	November	29 - 7	12.0	21.6
July	. 1.9	14.4	6:1		December	$20 \cdot 0$	9.6	9.7
August	1.3	11.8	5.3	ŕ				

FREIGHT RATES BY WATER.

Carriers by water obtained exceptionally high rates on wheat during the season of 1917, which may be accepted as indicating heavy tolls for all commodities.

The rates of freight over the different routes during the year were as follows:—

Port Arthur—Fort William to Montreal—	1915.	1916.	1917.
Per ton per mile. Per bushel Per ton	4.99	0·205 cent. 7·55 \$2·52	0.265 cent. 9.78 " \$3.26
Port Arthur—Fort William to Georgian Bay— Per ton per mile	3.54 "	0.264 cent. 4.10 " \$1.37	0·270 cent. 4·25 " \$1.42
Port Arthur—Fort William to other Canadian ports— Per ton per nile Per bushel Per ton	2.84 "	0·169 cent 3·68 " 1·22	0·185 cent. 4·18 " \$1.39
Pert Arthur—Fort William to Buffalo— Per ton per mile. Per bushel Per ton.	3 · 97	0·159 cent. 4·27 \$1·42	0.196 cent 5.000 " \$1.67

The rates from Duluth were substantially the same as Port Arthur-Fort William.

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In order that the bearing of the foregoing freight rates may be properly understood in their relationship to gross earnings, allowance should be made for the following charges paid by ship owners on all cargoes of wheat moved between Fort William and Montreal:—

Clearing house at Fort William	to '03	ent :	per bush.
Trimmers at Fort William	.06		
Elevation at Montreal	.30	"	"
Shovelling at Montreal	.50	"	"
Total	·59 e	ant n	or husbal

To Port Colborne the average deductions would amount to '44 per bushel to Buffalo '41, and to Georgian Bay ports '38.

MOVEMENT OF OTHER GRAIN.

A considerable volume of other grain than wheat passed through the Canadian and American canals at Sault Ste. Marie in 1917. The facts for the past three years are as follows:—

	1915.	1916.	1917.
	Bushels.	Eushels	Bushels.
Oats	26,798,488	57,743,636	37,014,644
Barley	4,496,509	8,679,607	5,149,725
Flax seed	2,068,582	4,931,569	5,073,760
Total	33,363,579	71,354,812	47,238,129

VESSEL AND FREIGHT TONNAGE PASSED THROUGH THE SAULT STE. MARIE CANAL.

	Remarks.	87 Canal first opened Sept. 9, 1895. 238 239 238 246 251 253 253 254 256 256 256 257 258 258 258 258 258 258 258 258 258 258
Days Open.	No.	2
Lockages.	No.	699 699 699 699 699 699 699 699
rge.	Total.	4, 577, 399 4, 947, 065, 387 3, 055, 387 3, 055, 387 3, 055, 387 3, 055, 674 2, 035, 674 2, 035, 674 2, 035, 674 3, 036, 495, 244, 1759, 268 5, 138, 165 15, 588, 165 16, 588, 165 17, 581, 57, 744, 188, 30, 30, 40, 40, 40, 40, 36, 33, 40, 40, 40, 40, 40, 40, 40, 40, 40, 40
Freight Tonnage.	United States.	10, 666, 985 24, 494, 750 33, 650, 088 37, 744, 128 37, 744, 590 53, 889, 237 12, 637, 738
	Canadian.	2, 002, 23, 366, 428, 44, 554, 745, 541, 541, 735, 744, 556, 744, 556, 744, 556, 745, 556, 656, 757, 556, 656, 757, 556, 656, 757, 556, 656, 6
Vessel	Lonnage.	749 62 757 638 757 638 757 638 757 638 757 638 757 638 757 638 757 638 757 638 757 638 757 638 757 638 757 638 757 638 757 638 757 638 757 638 757 638 757 638 757 757 757 757 757 757 757 757 757 75
Total	20.	1,0,4,4,0,0,4,0,4,0,4,0,4,0,0,0,0,0,4,
U.S. Vessels.	No. Tonnage.	5.53 6.33, 066 2, 359 1, 786 1, 786 1, 786 1, 786 1, 786 1, 291 1, 291 1, 291 1, 291 1, 291 1, 291 1, 291 1, 291 1, 291 1, 292 1, 293 1, 293 1, 293 1, 293 1, 293 1, 293 2, 294 2, 293 2, 29
22	No.	6 6 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Canadian Vessels.	Tonnage.	126, 534 405, 546 405, 546 405, 546 405, 546 405, 546 528, 552 11, 615, 533 11, 615, 533 11, 615, 633 11, 633, 633 11, 633, 633 12, 633 13, 633, 633
Ca	No.	84.29.20.00.00.00.00.00.00.00.00.00.00.00.00.
) P	rears.	1895 1896 1897 1898 1900 1900 1903 1904 1906 1906 1907 1911 1912 1913 1913 1914 1914 1916

I have the honor to be, sir,

Your obedient servant,

J. L. PAYNE,

Comptroller of Statistics.

CANAL STATISTICS

8 GEORGE V, A. 1918

Table 1.—Comparative Statement of Grand Total Freight passed through the undermentioned Canals during the Seasons of Navigation 1916 and 1917.

From (From Canadian to 'anadian Ports.	From Canadian to United States Ports.		From United States fo United States Ports.	From United States From United States to for to Enited States Ports. Canadian Ports.	rom United Stat to Canadian Ports	d States Ports.	Tons.	ź	Total Toms.	Origin of Cargo.	('argo.
1 ¹ p.	Down.	L ^r p.	Бомп.	LTp.	Down.	L'p.	Down.	[lp.	Down.		Canadian.	United States.
333, 901 157, 060 242, 920 4, 169 42, 563 11, 796 55, 488 11, 796 17, 767 12, 913	2, SS6, 970 660 675, 282 881, 418 89 10, 504 158 2, 418 151 2, 886 160, 809 88 40, 165 88 40, 165 88 160, 899 161 27, 212 131 525	20 2 4 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	887, 239 3, 657 381 54, 474	384, 454 148, 046 40	11, 467, 241 55, 361	704, 378 1, 350 5, 405 10, 572	1, 311, 656 1, 311, 613 1, 787, 743 141, 796 1, 575 6, 777		5,583,106 9,045,313 2,663,512 15,300 4,117 215,983 46,943 97,943	1, 430, 543, 15, 383, 106, 16, 813, 649, 698, 522, 2, 664, 542, 388, 977, 974, 677, 152, 300, 388, 977, 977, 977, 977, 977, 977, 977, 9	4, 155, 911, 12, 657, 738, 1, 654, 480, 1, 480	12, 657, 738 1, 490, 484 1, 786, 869 141, 796 11, 595 11, 270 6, 777
892,048	4, 689, 615	5 888, 610	945, 151	532,540	532, 540 11, 522, 602	721,705	3,391,190		20, 548, 558	3,034,933 20,548,558 23,583,491	7, 486, 962 16, 096, 529	16,096,529
248, 394 134, 586 263, 933 3, 200 14, 520 51, 987 12, 404 15, 678 7, 003	86 689,810 33 795,238 00 47,739 87,734 87 2,418 87 2,418 87 33,246 88 33,246 93 33,246	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	676, 264 1, 585 29, 769 15, 518 48, 392	1,012,944	11, 113, 538 21, 966 50	886, 465 6, 057 5, 257 12, 051	112, 094 1, 463, 995 2, 004, 666 153, 811 3, 198 2, 980	1, 598, 417 313, 186 561, 452 256, 552 14, 520 51, 987 52, 285 52, 285 15, 678	13, 848, 675 2, 847, 735 173, 26 173, 26 173, 26 17, 734 16, 38 18, 26 17, 734 17, 734 18, 26 18, 26 17, 734 17, 734 18, 26 18, 26 17,	1, 598, 417 13, 848, 675 15, 447, 092 2 2 313, 186 2, 177, 556 2, 490, 542 266, 553 178, 205 44, 818 14, 520 455 190, 254, 455 190, 254, 835 52, 264 84, 77, 673 16, 67, 603 24, 455 190, 264 84, 549 15, 678 17, 174 174 174 174 174 174 174 174 174 174	2,875,5901 981,911 1,370,533 281,292 62,251 64,262 54,405 200,936 81,336 48,336 48,336	2, 875, 590 12, 571, 502 981, 914 1, 508, 628 1, 370, 573 1, 290, 611 51, 292 63, 254 54, 405 3, 198 81, 330 81, 330 48, 924 7, 174
803,990	3,695,267	718,031	771,528		463, 661 11, 135, 554	909, 830	3,744,681	2,895,505	19,343,430	2,895,505 [19,343,430 [22,238,935	5, 964, 369	5,964,369 16,274,566

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Table 2.—Statement showing the Number, Tonnage and Nationality of Vessels passed through the several Canals during the Season of Navigation in 1917.

Total tons.	Down.		1, 558, 232 3, 182, 960 1, 168, 330 2, 284, 873 1, 789, 680 3, 511, 986 147, 511 293, 997 54, 724 105, 666 14, 373 82, 405 70, 408 112, 979 63, 666 134, 929 11, 198 26, 093	4,938,937 9,831,694	5,188,752 8,712,604 299,483 491,388 440,899 819,102 101,894 200,970 15,327 29,085 982 1,904 892 415 2,570	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Tons.	Up. D		1, 624, 728 1, 116, 523 1, 116, 523 1, 722, 586 1, 58 1, 64 1, 63 1, 63 1, 863 1, 863 1, 863 1, 863 1, 863	4,892,757 4,9	3,523,852 191,905 281,203 4,905 181,758 13,758 13,758 13,758 13,758 13,758 14,758 155 2,155	4,200,610 6,0 6,0 6,003,367 10,9
ed States	Down.		39, 535 727, 406 876, 970 9, 439 224	1, 654, 333	2,790 261,823 424,972 100,104 1,561	2,445,810
From United States From United States United States Canadian Ports.	Up.		233, 702 1, 897 308 2, 166	238,073	354, 750 6, 671 3, 930 6, 322	371,819
ed States tes Ports.	Down.		106, 081 3,328,	109, 409	4, 833, 094 33, 070 4, 594 25	4,869,783
From Canadian From United States to to to Chited States Ports. United States Ports.	Tp.		71, 498 25, 952 37	97, 487	3, 046, 816 38, 626 16, 263 81	301,850 3,101,786 4,869,783 458,809 3,199,273 4,979,192
From Canadian to nited States Ports.	Down.		152,676 1,079 164 3,040	156,959	274, 018 10, 141 3, 713 13, 766	301,850
From C to United Sta	Up.		113,847 612,605 792,458 7,018 53 11,578	3,018,236 1,527,559	42, 963 140, 171 332, 565 98, 566	616, 281 2, 143, 840
From Canadian to Canadian Ports.	Down.		1,259,940 436,537 912,546 24,956 114,247 54,723 41,373 70,408 62,307 11,198		78,850 4,383 11,192 487 487 158	96,052 3,114,288
From C t Canadia	Up.		1,205,681 467,069 929,503 24,393 144,320 50,889 41,032 72,571 70,285 14,895	3, 029, 638	79, 323 6, 437 16, 445 7, 436 89 89 89 12	6,594 110,724 96,052 616,281 28,182 3,140,362 3,114,288 2,143,840
Total	Muniber		3, 199 7, 337 7, 337 1, 514 1, 140 2, 967 1, 141 1,	21,588	2, 138 1, 374 2, 060 2, 282 16 16 25	6,594
Vessels.		Canadian Vessels. Steam and Sail.	Sault Ste Marie. Welland St. Lawrence Chambly Ottawa. Rideau. St. Peter's Trent Valley Murray.	Total, Canadian	UNITED STATES VESSELS. Sault Ste. Maric Welland St. Lavrence Chambly Ottawa Rideau St. Peter's Trent-Valley Murray St. Andrews.	Total, United States Grand total, Canadian and United States

Table 3—Statement showing the Number, Tonnage and Nationality of Vessels passed through the several Canals, during the season of Navigation in 1917.

	.T					1						
	шре	From Canadian	nadian	From Canadian		Prom Unit	From United States From United States	rom Unite	d States	ć		
Vessels.	lsto uZ	Canadian Ports.	Ports.	United Sta	United States Ports.	United States Ports.	tes Ports.	to Camadian Ports.	Ports.	Tons.	ıs.	Total Tons.
	L	Up.	Down.	Ľp.	Down.	Cp.	Down.	Up.	Down.	Up.	Down.	
Sauna Sre. Marie Canal. Canadian Vessels, Steam	2,923 276	1, 181, 697	1, 239, 275	111,081	152,496	71,498	106,081	233,702	39, 187	1,597,978	1,537,039	3,135,017
Total Canadian	3,199	1, 205, 681	1,259,940	113,817	152,676	71,498	106,081	233, 702	39, 535	1,634,728	1,558,232	3, 182, 960
United States Vessels, Steam	2, 107 31	78,688	78,763	42,963	271, 593 2, 425	3,046,811	4,833,084	353, 550	2,790	3, 522, 012 1,840	5, 186, 230	8,708,242
Total, United States	2,138	79,323	78,850	42,96	274,018	3,046,816	4, 833,094	351,750	2,790	3, 523, 852	5, 188, 752	8,712,604
Grand total, Sault Ste. Marie	4,337	1,285,004	1,338,790	156 '810	426,694	3,118,314	4,939,175	588, 452	42,325	5, 148, 530	6,746,984	11,895,564
Welland Canal. Canadian Vessels, Steam.	2,096 458	359, 101 116, 968	338, 008 98, 529	555, 909 56, 696	1,079	22, 697 3, 255	3,328.	1,897	659, 669	939, 604 176, 919	993, 084 175, 266	1, 932, 688 352, 185
Total, Canadian	2,554	476,069	436,537	612,605	1,079	25,952	3,328	1,897	727,406	1,116,523	1,168,350	2, 284, 873
United States Vessels, Steam	631	2, 732 3, 705	2,047	128, 236 11, 935	117	36,709	31-391	6,271	242, 294 19, 529	173, 948 17, 957	275,849 23,634	449,797
Total, United States	269	6,437	4,383	140,171	207	38,626	33,070	6,671	261,823	191,905	299, 483	491,388
Grand total, Welland Canal	3, 251	482,506	440,920	752,776	1,286	64,578	36,398	8,568	989, 229	1,308,428	1,467,833	2,776,261
St. Lawrence Canals. Canadian Vessels, Steam	4 068 3, 259	558,115 371,388	532, 453 380, 093	657, 214 135, 244	161	200		308	734, 285 142, 685	1,215,366	1,266,902	2, 482, 268 1, 029, 718
Total Canadian	7,327	929, 503	912,546	792, 458	164	37		308	876,970	1,722,306	1,789,680	3,511,986
United States Vessels, Steam	1,026 348	1,161 15,284	1, 484 9, 708	328,781	10, 141	16, 263	3,294	3,707	422, 428	346, 428 22, 775	427, 206 22, 693	773, 634 54, 468
Total, United States	1,374	16,445	11, 192	332, 565	10,141	16, 263	3,591	3,930	424,972	369, 203	449,899	819, 102
Grand total, St. Lawrence Canals.	8,701	945,948	923, 738	1, 125, 023	10,305	16,300	3,594	4,238	1,301.942	2,091,509	2, 239, 579	4,331,088
					-		-					

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40, 258 25, 548	65,806	202,970	202,970	268,776	145, 639 148, 358	293, 997	29,085	29,085	323,082		87, 152 18, 514	105,666	1,964	1,964	107,630		31,604	82,405	818	88	82, 494
20, 285 14, 110	34,895	104,304	104,304	138,699	70,529 76,982	147,511	15,327	15,327	162,838		45,698 9,026	54,724	685	985	55,706		14,319 27,054	41,373			41,373
19, 973 11, 438	31,411	98,666	98,666	130,077	75,110 71,376	146,486	13,758	13,758	160,244		41, 454 9, 488	50,942	982	985	51,924		17, 285 23, 747	41,032	8 81	68	41,121
9,439	9,439	100,104	100,104	109,543	224	524	1,561	1,561	1,785												
					1,120	2,169	6,322	6,322	8,488												
		3,713	3,713	3,713	1,314	3,040	13,766	13,766	16,806												
7,018	7,018	98,666	98,666	105,684							53	53			53						
20, 285	24,956	487	487	25,443	68,961 25,286	144,247			144,247		45,698 9,026	54,724	982	982	55,706		14,319 27,051	41,373			41,373
19,973 4,420	24,893			24,393	73,990	144,320	7,436	7,436	151,758		41,401	59,889	985	982	51,871		17,285 23,747	41,032	8.18	68	41,121
142 258	100	2,060	2,060	2,460	693 821	1,514	282	282	1,696		1,350	1,594	91	16	1,520		316 828	1,144		2	1,146
Canadian Vessels, Steam	Total, Canadian	United States Vessels, Sail	Total, United States	Grand total, Chambly Canal	Orrawa Canalis. Canadian Vessels, Steam.	Total, Canadian	United States Vessels, Sail	Total, United States	Grand total, Ottawa Canals	RIDEAU CANAL	Canadian Vessels, Steam	Total Canadian	United States Vessels, Sail	Total United States	Grand total, Rideau Canal	St. Peter's Canal	Canadian Vessels, Steam	Total, Canadian	United States Vessels, Steam	Total, United States	Grand total St. Peter's Canal

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Table 3—Statement showing the Number, Tonnage and Nationality of Vessels passed through the several Canals, during the season of Navigation in 1917—Concluded.

	n ber.	Exom Canadian	nadian	From 6	From Canadian	From Unit	From United States From United States	From United Stat	ed States	Tons.	ŵ	<u> </u>
Vossels.	lst inn	Canadian Ports.	n Ports.	United St	United States Ports	United States Ports.	tes Ports.	Canadia	n Ports.			total tons.
	оТ	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	L'p.	Down.	
TRENT VALLEY CANAL												
Canadian Vessels, Steam Sail	2,548 419	60,939	59,329 11,079							60, 939	59, 329 11, 079	120, 268 22, 711
Total, Canadian	2,967	72,571	70,408							72,571	70,408	142,979
Grand total Trent Valley Canal.	2,969	72,571	70,408							72,571	70,408	142,979
MURRAY CANAL												
Canadian Vessels, Steam	699	41,478	28,431 23,876	544	* :				318 441	42, 022 29, 841	24,317	54,158
Total Canadian	898	70,285	62,307		- x				759	71,863	63,066	134,929
am.	25	<u>21</u>	158	1,916	6 5	<u>x</u>	501	146	227	2, 155	415	2,570
Total United States	61	12	153	1,916	9	<u>8</u>	25	146	227	2,155	415	2,570
Grand total Murray Canal	168	70,297	62, 165	3,491	1	<u>x</u>	25	146	986	74,018	63,481	137, 499
ST. Andrews Canal.										1		2
Canadian Vessels, Steam	35 81 25 81	7,440	6,150							7,440	5,048	12, 503
Total Canadian	113	14,895	11,198							14,895	11,198	26,093
Grand total St. Andrews Canal	113	14,895	11, 198						:	14,895	11,198	26,093

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Table 7 (No. 1)—General Statement showing the Quantity of each Article Transported on the Sault Ste. Marie Canal during the Season of Navigation in 1917.

Articles.	From Ca	anadian	From Canadian	nadian	From U. States to	States	From U. States	States	Tons.	.s.	Total	Origin of Cargo.	Cargo.
	Canadian Ports.	n Ports.	U. States Ports.	Ports.	U. States Ports.	s Ports.	(anadian Forts.	l Forts.			Tons.		
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		Canadian. U. States.	U. States
Agricultural imple-	317				65				10.750		10,750	10.718	č
Barley	10, (11	57,858		11,394	9 - 6	18,884		432		88,568	88,568	69, 252	19,316
Cement, bricks, etc	912				70,050		99,500		169,550		169,550	C17	169,550
('oal, soft	150				333, 649		744,538		1,078,337		1,078,337		1,078,337 $2,707$
Dressed meats	3 ::	-								100 00	100 00	10 707	201 01
Flax.		9,892		9,895 1,023		54,030			30	333,027	333,047	279,017	54,030
Hay	65	:		:		:	:		65		9 65 1961	2.961	
Iron, pig and bloom	7,876	1,024			6,968				14,844	1,024	15,868	6,600	9,26
Merchandise	212,079	5,571	2, 284	4, 135	24,646	4,715	19,502	3,400	258, 511	231,118	273, 151 231, 118	220, 322	52,829 4,124
Other mill products.		29,656				240			000	29,896	29,896	29,656	246
Other woods	883	2,534		11,466	1,106		5,015		6,121	11,466	17,587	11,466	6, 121
				143 999	000 6	9,000 10,865,107	15.457	100,548	17, 457	8,644	8,644	137,706	5,044 10,989,328
	201				29			:	260		260	201	28
Poultry, game and		22								57	57	57	
Pulpwood	1,560	750	11,564			7,500			13,064	8,250	21,314	13,814	7,500
Rye Sawed lumber	411	2,481				1,167		2,527	111	6,175	6,586	3,667	2,919
Shingles				:	:	1,419		:	508	1,419	2.4.1	1.508	
Salt	5.747				11,000				16,747		16,747	3,747	=
Sand and stone.	0000	17,115		020		717 621	200	1 068	300	1, 949, 499	17,315	17,115	137.685
Wines. liquors and	3,000	1,500,079		449,00		10,411		1,000	000				
rs	149			:			:	:	6+1	114	115	5 T	
Wool		7											
Total Freight	248,394	1,946,779	13,848	676, 264	449,710	449,710 11,113,538	886, 465	112,094	1,598,417	112,094 1,598,417 13,848,675 15,447,092	15,447,092	2,875,590 12,571,502	12,571,50

8 GEORGE V, A. 1918

Table 7 (No. 2)—General Statement showing the Quantity of each Article Transported on the Welland Canal during the Season of Navigation in 1917.

Articles.	From Canadian to Canadian Ports.	Camadian to an Ports.	From Canadian to U. States Ports.	From Canadian to to to States Ports.	From U. States to U. States Ports.	States Ports.	From U. States to Canadian Ports.	States Ports.	Tons	ž	Total Tons,	Origin of Cargo.	Cargo.
	L'p.	Down.	[-j-	Down.	Up.	Down.	Up.	Down.	L'p.	Down.		Canadian. U. States	J. States.
Agricultural Implements.	10,958		:	:			:		10,958	100	10,958	10,958	
Barley. Coal, Hard Coal, Soft.		5.45			2, 026		6,057	1, 292, 581	8,083	1, 202, 584	8,083 1,292,581		8,083
Corn		6,390				1,316		006 : 20 :		2,79 7,706 86 86 86	7,700		7,706
Flax						1,100				8,448	8,448	7,348	1,100
Iron, Pig and Bloom Iron and Stref, all other	1,651		163						7,651 1,834		5,25	5,531	
Merehandise	43, 292		305		1,568	350		5.5	45,060	353	45,383	43, 492	1,891
Other Woods		71-7 fac								87 87 87	28.	:	.; 85 87
Ore, all other			06		8,206			251 01	9, 106	10 153	9, 106	:	9,106
Petroleum	69	93,214			10.	300		26, 157	8	119,671	119, 731		22,673
Pulpwood Sawed Lumber	70,923		151, 664	1,585		12,569		1,176	225, 587	18,330	225,587 18,330	8 8 - 8 -	16,745
Square Timber Sugar	8.09 8.09 8.09 8.09 8.09 8.09 8.09 8.09								860				
Sand and Stone Wheat	1,275	46,061 428,553	2,685		67.1	6,431	: :	125,337	5,080	171,398	176, 478	50,021 128,553	126, 457 6, 431
Wines, Liquors and Beers	463	:				:			163		463	+63	
Total Freight	131,586	689,810	158,609	1,585	13,931	21,966	6,057	6,057 1,463,995	313, 186	313, 186 2, 177, 356 2, 499, 542	2, 490, 542		981, 914 1, 508, 628
					and the second second second								

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Table 7 (No. 3)—General Statement showing the Quantity of each Through Article Transported on the Welland Cana during the Season of Navigation in 1917.

Artieles	From Car to Canadian	Canadian to	From Canadian to United States Ports.		From United States to United States Ports	From United States From United Strtes to to to to to to to to to to to to to	From United Strt to Canadian Ports.	ed Strtes	Tons.	ns.	Total Tons.	Origin of Cargo.	Cargo.
	Up.		Up.		Up.	Down.	Up.	Down.	Up.	Down.		Canada.	U.S.
Agricultural implements Barley	10,958	24, 437						1,434	10,958	25,871	10,958 25,871	10,958 25,871	
Coal, hardsoft.					2,026		6,057	1,259,263	8,083	1,259,263	8,083 1,259,263		8,083 $1,259,263$ $2,200$
Corn		6,390				1,316				7,706	37,706	3.060	7,706
Flour Iron nie and bloom	1.651	7,348				1,100			1.651	8,448	8,448	7,348	1,100
Iron and steel, all other. Merehandise.	5,084		160		1,568	250		7.3	5,244	323	5.244	5,244	1,891
OatsOther woods		80,747						1,853		82,600 28	82,600	80, 143	7,45/ 28 28 28 28
Ore, all other			006		8,206 1,014			10,153	9,106	10,153	9, 106		9,106
Petroleum	2,835	79,327	154,664			300		26, 157	$\frac{60}{157,499}$	105,784	105,844	83,171	22, 673
Sawed lumber	20			686,1		12, 509		4,110	200	10, 990	000 000 000 000 000 000 000 000 000 00	08 08 08 08	
Sand and stone. Wheat. Wines, liquors and beers	463	428, 553	2,685		1,120	6,431		300	3,805	330 434, 984	4, 105 434, 984 463	2,685 428,553 463	1,420 6,431
Total Freight	65, 173	629,862	158,609	1,585	13,934	21,966	6,057	1,305,637	213,773	1,959,050	2, 202, 823	852, 553	1,350,270

Table 7 (No 4)—General Statement showing the Quantity of each Article Way Transported on the Welland Canal during the Season of Navigation in 1917.

Articles.	From Car to Canadian	From Canadian to Canadian Ports.	From C. to United Sta	Canadian to tates Ports.	From Uni to United Sta	From Canadian From United States From United States United States Ports, United States Ports. Canadian Ports.	From Unit to Canadian	ed States Ports.	Tons.	ns.	Total Tons.	Origin of Cargo.	i Cargo.
	Up.	Down.		Up. Down.		Up. Down.	Up.	Up. Down.	Up. Down	Down.		Canadian. U. States.	U. States.
Coal, soft Merchandise Petrolenn Pulpwood Sand and Stone TotalFreight	68,088 (8,088 1,2,75 (69,413	13,887						33,321 125,037 158,358	68, 088 1, 275 69, 413		33,321 33,321 50 13,887 13,887 171,098 172,373 218,306 287,719	13,887 68,088 47,336	33,321

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Table 7 (No. 5)—General Statement showing the Quantity of each Article Transported on the St. Lawrence Canals during the Season of Navigation 1917.

Articles.	From Canadian to Canadian Ports.	Canadian to an Ports.	From C to United Sta	From Canadian to United States Ports.	From United States to United States Ports.	From United States From United States United States Ports. Canadian Ports.	From United Star to Canadian Ports.	ted States	Tons.	ns.	Total tons.	Origin	Origin of Cargo.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		Canadian. U. States.	U. State
Agricultural Implem 'ts. All other Animals	133	3,140 23,075							1 43	3,140	134 4, 131 23, 075	4, 131 23, 075	
Buckwheat. Cement, Bricks, Ac. Coal, Hard Soft. Corn	19, 266 1, 676 5, 064	383 405 7,223 3,912	m :	009			1,157	708 524, 040 1, 446, 933 3, 849	20, 423 1, 676 7, 007 43	1, 1,	21, 514 21, 514 526, 121 1, 461, 763 7, 804		2,551 525,693 1,449,137 7,758
Dressed Meats, Flax. Flour. Frontables	1,104	2, 276 9, 900 9, 356						1,100	19	2,276 11,000	2, 276 12, 104	2,276 11,004	97
Hay Hides and Leather	5,019	1,943			: :-				5,019		6,962 36		
Ironsenold Croods Iron, Pig and Bloom Iron and Steel, all other	5,765	208 208 15, 180	200		: :	26			1,705 2,234 5,966	3, 15,	5,415 2,492 21,146	21,79.5	
Merchandise Outs. Other Mill Products	45, 230 1, 173 168	48, 272 82, 140 82, 140	- 22 - : :		-21 : :		1,857	3, 625	47,114 1,173 1,173	50. 51.897 82,140 848	493 99,011 83,313 1,016	491 91,670 83,313 1,016	7,341
Products Woods	2,328 150	2,081			c)			28	2,328	52 2, 109	169	167 4,409 150	6188
Peas. Petroleum. Petroleum.	15,336	26 42,088						2, 218	15,336	2, 218 26 63, 578	2,218 31 78,914	57,	2,218
Potatoes	70, 134	921	291,974						362, 108	176	201 362, 108	201 362, 108	
Sawed Lumber	23, 637	49, 134	20	29, 169					23, 637 20	78,303	101,940	101,940	
Sugar Salt Sand and Stone	3, 454 1,318 54,987	117 200 200 70,216					300	675	3, 454 1,318 55,287	200 200 70,891	3,571 1,518 126,178	8, -, 8,	3, 230
Wheat Wines, Liquors & Beers.	1,877	426, 251							1.877	426, 251 605	426, 700 2, 482		
Total Freight	263, 933	795, 238	292,214	29, 769	121	95	5 957	5 257 2 004 666	161 195	9 890 792	3	8	3 391 14 1 3

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Table 7 (No. 6.)—General Statement showing the Quantity of each Through Article Transported on the St. Lawrence Canals during the Season of Navigation in 1917.

Articles.	From Ca	Canadian	From Canadian	anadian	From U	From U. States	From U	From U. States	Tone	2		Origin of Cargo	areo
	Canadian	ian Ports.	U. States Ports.	s Ports.	U. State	U. States Ports.	Canadia	Canadian Ports.			Total Tons.		Q
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		Canadian U. States	States.
All other Animals	89	57		:		:			89	76		125	
Barley Cement, Bricks, etc.	2, 228								2,228		2,228	2,228	519 457
Coal, mard	006	000 8						1,430,664	006	1, 431, 664	1,4		1,431,564
Flax		2,276				001				9,276	2, 276 9, 232		1,100
Fruits and Vegetables Household Goods.	1,402								1,402				
Iron, Pig and Bloom. Iron and Steel, all other.	1,584		200						1,584		1,584 15,247	1,584	
Merchandise	35, 422	36,486							35, 422	80.8	80,817 80,817		
Other Woods								2,218.		2,218.8	2,218		2,218
Peas Petroleum	2,840	41,613	100					21,490	2,840	63, 103	65,943	44,453	21,490
Pulpwood Sugar	707.70		291,974						2,904		2,904		
Wheat Wines, Liquors & Beers.	096	425,896							096	425,896 465	425,8 1,4	425,8 1,4	
Total Freight	119,155	638,274	292,174			1,100		1,974,982	411,329	2,614,356	3,025,685	2,614,356 3,025,685 1,044,794 1,980,891	980,891

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Table 7 (No. 7) — General Statement showing the Quantity of each Way Article Transported on the St. Lawrence Canals during the Season of Navigation in 1917.

	From Ca	Canadian	From Canadian	anadian	From Unit	From United States From United States	From Unit	ed States	F	2	Total	Origin of Cargo.	Cargo.
Articles.	to Canadian	to an Ports.	United Sta	United States Ports.	United States Ports.	tes Ports.	Canadian Ports.	Ports.		*64	Tons.		
	Up.	Down.	Up.	Down.	Up.	Down.	Сp.	Down.	Up.	Down.		Canadian.	U. States.
Agricultural Imple-	133	1 600					:	:	133	3,083	134	134	
All other animals	925		.ee						1	10	21	6	e. ;
Cement, bricks, etc	17,038		. :				1,157	708	18, 195	1,091	19, 286	16, 735	2,551 6,236
Coal, hard	1,676 4,164	7, 223		009			1,943	16,269	6, 107	24,002	30, 199	12,626	17,573
Corn	43	3.1			:	:		2,724	3 5	21 62	5,770	53	2, (24
Flour.	1,104								1,104	1,768	2,872	2,872	
Fruits and vegetables.		1 943				1			5,019	1,913	6,962	6,962	
Hides and leather		-	-						20	333	36	35	
Household goods		239	-			2			303	623 623 623 623 633 633 633 633 633 633	2+3 308	858	50
Iron, pig and bloom Iron and steel, all other.		÷							2,719	3, 180	5,899	5,898	
Live stock					- 3		1	000	125	368	493	167 01	7 211
Merehandise	9,808	11,786	22		13		1,897	620,6	1,092	19,411	2, 105	2, 196	110',
Other mill products	1,173								891	848	1,016	1,016	
" packing house					-				1	, r	160	167	c
products	9 398	50 °			NI				2.328	2,081	4,409	4,409	1
Ore, all other	150	:							150		150	150	
Peas.		13					:		e 19 496	12.2	26 19, 971	12, 971	
Petroleum		•	:							17	17	17	
Potatoes	:	176							25	176	201	201	
Pulpwood									2,307		2,507	70017	
RyeSawed lumber	23,637	49,134		29, 169					23, 637	78, 303	101,940	101,940	- 1
Shingles	:_	£ 09%	S = 5						SF 53	860.3	925	925	9 :
Sugar.	550					. 11			550		299	299	
Saft	1,285	i					000	1	1.285.	200	1.485	(38+,1 (39) 048	026-5
_	54,987	70.216		:		:	0000	070	0.44		807	804	
Wines, liquors and beers,	917								917	140	1,057	1,057	
Total Bushabt	144 770	156 064		90 760	199	50	5, 957	28, 584	150.092	215,367	365, 459	325, 739	39,730
ו מנצו דוכוקוונייי	144,110	-	T.	201100									

Table 7 (No. 8)—General Statement showing the Quantity of each Article Transported on the Chambly Canal during the Season of Navigation in 1917.

ticles. Canadian Ports, United States Ports. Up. Down. Up. Down. It imple- Tricks, etc. 206 It is in ple- Tricks, etc. 206 It is in ple- It is in ple	_	_	2 :		Trans	Testad	Outain	Comme
Tipe Tipe Tipe Down Tipe Down Tipe Down Tipe Down Tipe Down Tipe Down Tipe		U. States Forts.	Canadian Ports.		ż	Tons.	Origin of Cargo	Cargo.
al imple- 117 128 1296 1306 147 148 1596 1596 1506 1597 1506 1597		Down.	Up. Down.	n. Up.	Down.		Canadian, U. States	J. States.
ere. 206 (88 (88 (88 (88 (88 (88 (88 (88 (88 (8			:	741		147	147	
reats 105 Vege(ables 118 1.151 Foods 18 5.951 Foods 18 5.951 Foods 19 5.95			F61	206	194 137	206 194 905	206 68	194 137
reats.			10		5,017	5,017	101	5,017
Vegetables 100 1151 150 110				901	e1	001	000	
treel, all other 215 25 16,081 1,000ds 2,951 6,081 1,000ds 2,951 6,081 1,000ds 2,000				195		1,464	1, 46	
teel, all other 215 25 25 109 189 189 189 189 189 189 189 189 189 18	6,081			680'9		12,040	12,040	
ise 393 709 3.260 ise 65 282 I products. 417 123 I products. 417 123 anc and fish 8 8 18 anc and fish 49 2 69.844 abor 26 25 107, 103 abor 126 25 107, 103 abor 180 200 246				55.5	183	240	240	
1 products. 417 123 1 cking house 6 1 cking house 26 1 cking house 6 1	3,260		======================================	13,311 3,653	109 14,096	17,749	4,558	13,191
reking bouse 6 1 6.826 ods 29 212 6.826 anne and fish 78 2 anne and fish 49 2 69.844 observed a 26 167.103 stone 180 200 246				417		347	347	
anne and fish 29 21 6,826 836 8300 844 6,826 8300 844 800 844 800 846 800 846 8100 800 840 810 810 810 810 810 810 810 810 810 81						ı	1	
ame and fish, 78 2 2 69,844 alber 26 25 167,103 130 25 167,103 181 5 182 180 200 246	6,826			6,855	212	7,067	7,067	
ance and fish 49 2 69,844 abor 26 25 167,103 130 81 5 187 stone 180 200 246		:		 ∞ ¥	- 18	91 K	32.28	
nber 26 25 167,103 130 81 5 81 5 stone 180 200 246				9	CIC	\$1 E	C1 =	
nber	: :			69,844	:	67,844	69,844	
81 125 stone 180 200				167, 129	15,543	182,672	182,672	
stone				28.5	10	80.5	98	
÷	246			11, 181 420	11,381	11,381	629	11, 181
Wines, Inquors and			:		N	N S	7	:
Deers						01	10	
Total Freight 3,200 8,906 253,353	53, 353	:		153,841 256,553	, 178, 265	434,818	281,292	153, 526

SESSIONAL PAPER No. 20a Table 7 (No. 9)—General Statement showing the Quantity of each Article Transported on the St. Peter's Canal during the Season of Navigation in 1917.

	11 (-	5	-	11 5		. II	1 84.04					
Artieles.	From C t Canadia	From Canadian to Canadian Ports.	r roin C 1 United Sta	r rom Canadian to United States Ports.	From United States to United States Ports.	From United States Ports. Canadian Ports.	From United State to Canadian Ports.	o n Ports.	Tons.	ns.	Total Tons.	Origin of Cargo.	argo.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		Canadian. U. States.	States.
AgriculturalImplements	ଟୀ			:			:	:	1 (2	:	61	67	:
All other animals	T	: +							14	. च	4.		
Cement, bricks, etc	176	14							176	47	223	2533	:
soft	140	41,805							140	41,805	41,945	41,945	
Corn	2 21								গ্ৰহ		251	12.72	
Flour.	1,399	91 .						:	1,399	16	1,415	1,415	:
Hay.	203	-							209	-	210	210	
Hides and leather	20	10						: :	20	10	30		
Iron and steel, all other	$\frac{106}{7}$:	:			:	106		106 x	106	:
Merchandise	2,566	1,450							2,566	1,450	4,016	4,016	
. 14	622	29							622	29 29	651	651	
" packing house pro-	260	ξĊ							260	10	265	265	:
Other woods	122	20		:					122	020	142	142	:
Ore, iron		80								0 0 0 0 0 0 0	08	800	
Peas. Petroleum.	632	27							632		5 659	659	
Poultry, game and fish.	172	ાં							172	ci	2,360		:
Sawed lumber	2,8/2	199							1,599	661	1,798	વં∸	
Shingles	190	₩					:	:	190		274	274	
Sugar	131	16							131	91	147	147	
Salt.	1,708	07				:		:	1,708	805	1,748	1,748	:
Wheat		300							-		1	1	
Wool									-			1	
Total Freight	14,520	47,734							14,520	47,734	62,254	62, 254	:
1,00				_	_		_		-	-			

Table 7 (No. 10)—General Statement showing the Quantity of each Article Transported on the Murray Canal, during the Zeason of Navigation in 1917.

Articies.	From Car to Canadian	nadian Ports.	From C to United Sta	Canadian to tates Ports.	From Unite to United Stat	From Canadian From United States From United States United States Ports, United States Ports.	From Unit to Canadia	ed States	${ m To}$	Tons,	Total	Origin of Cargo.	Cargo.
	Up.	Down.	Up.	Up. Down.	Up.	Up. Down.	Up.	Up. Down.	Up.	Up. Down.		Canadian [U. States.	I. States.
Coal, soft	06	100					:	3,198	06	3, 298	3,388		3,198
Fruits and Vegetables. Merchandise.	4,539	2,309							325 4,539		325 6,848	325 6,848	
Sugnr	108	S :							108	G :	9 108		
Sand	46, 925								46, 925		46,925	46,925	
Total Freight	51,987	2,418						3, 198	51,987	5,616	57,603	54,405	3,198

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Canadian Ports. Up. Down.		From C	Canadian	From Canadian		From Uni	ted States	From United States From United States	ed States	5				
CDown CDow	Articles.		n Ports.	United Sta	ottes Ports.	United Sta	o ites Ports.	te Canadiar	Ports.	D.T.	ns.	Total Tons.	Origin of Cargo.	Cargo.
1. 143 1. 1643 1. 1644 1. 1		Up.	Боми.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		Canadian. U. States.	U. States.
1, 643 1, 643 1, 25 1, 25 2, 25	Agricultural implements All other animals	123 147								123	9.69.5	131	131	
1.05	Buckwheat Cement, bricks, &c	1,643	:							1,643	115	1,758	1,758	
526 106 106 106 1352 10 1352 1	Coat, nard	135 135 8						3,683	307	3,808	77.5 307	1,734	8 125	1,716 $3,990$
1.85	Dressed meats. Flax	14	-1-							S 41 -	7		. E. S.	
40 1,352 14 8.8 15 14 8.8 15 16 15 15 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Flour Fruits and vegetables	526 185	106							526	901	632	632	
4, 551 10, 29 4, 551 10, 29 10, 29 10, 29 10, 29 10, 20 10, 20	Hay. Hides and leather	0+	1,352							9.	1,352	1,392	1,392	
4, 551 4, 551 5,719 103 502 87 87 87 87 87 87 87 8, 051 104 87 87 87 87 87 87 87 87 87 87	Household goods	77.	85							7 #1	£ 50 22 €	229	229 229	
4, 551 5,719 8,051 12 93 120 93 120 108 502 10 139 173 87 1 10 139 1 173 80 1 19 2,497 1,314 1 1,051 78,898 8 8 8 8 8 156 1 10 404 11 681	Iron and steel, all other.	798	159 159							211	1.50 1.50	227 949	227 949	
9.3 8.7 8.7 8.7 9.1 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	Live stock	$\frac{97}{4,551}$						8.051		12,605	349	446	10 148	× 176
536 536 537 420	OatsOther mill products	93 108	120 502							93 801				
536 536 87	" packing house pro-	10	06								1 0	910	010	
536 536 87 150 173 173 184 185 186 187 187 187 187 187 187 187 187 187 187	Other woods.	9 :								70	10, 139	10,13	10, 139	
15	Petroleum	536	877							536	8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	623	- R	
52 37, 420 477 420 47,078 19 2, 497 1,051 1,051 78,898 89 24 89 156 698 1.56 1.68 1 1,051	Pouttry, game and fish. Potatoes	6	173							6	15 173	152	15	
19 2,497 1,314 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Rye. Sawed lumber.	0.00	37, 420		47,078					55	84,498	81,550	i.c	
376 66 1,051 78,898 89 89 24 698 156 698 156 698 150 609 698 150 609 698 698 698 698 698 698 698 698 698 69	Shingles Square timber		20 2, 497		1.31				:	: 0	3.811	3 20	28.30	
89 78,898 89 24 80 693 156 101 101 101 101 101 101 101 101 101 10	Sugar.	376	93							376		(1) -	44.5	
Higuors and beers 693 156 Total 19 404 141 681	Sand	1,001	78,898							1,051	78,	78,898	78,898	
700 1130 61 120 603	Wheat. Wines, liquors and beers	88 869 863	24 156							869 8698	24 156	11. 854	113 854	
10, 101 101 11, 001 11, 001 11, 001 11, 001	Total	12,404	141,681		48,392			12,051	307	24,455	190,380	214,835	200,953	13,882

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Table 7 (No. 12)—General Statement showing the Quantity of each Article Transported on the Rideau Canal during the Season of Navigation in 1917.

Articles.	From Ca to Canadiun	From Canadian to Canadian Ports.	From United S	From Canadian From United States to to Lo United States Porss United States Ports.	From United States	From United States From United States to Thited States Ports. Canadian Ports.	From United Ma to Canadian Ports.	n Ports.	Tons.	ns.	Total Tons.	Origin of Cargo.	i Cargo.
	[.p.	Down,	1 p.	Down.	Up.	Down.	Γp.	Down.	Γp.	Down.		Canadian. U. States.	U. State
All other animals	372	1,301	:		:			:	:72	1,301	1,673	1,673	
Cement, bricks, etc	752		:					080 6	755 X	3 (2)	3 763	25.5	5. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.
an, mara	68								- E	99	8	8	
Dressed ments	<u>=</u> =	Ξ.							<u>5.</u> 7	= <u>=</u>	312	25 E	
Fruits and vegetables	15				:				9.530	- 5	9 951	9 - 621	
Hides and feather	NC 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-	2 85								28	98		
Household goods	30			:					8 3	21-	<u></u>	42	
Iron, pig and bloom Lion and steel, all other.	127	- 73							725 186	-10	886	666 - 666	
Live stock	1 007	± 52.0							1.097	3, 255	7,359	7.352	
z)a()										6	67	67	
Other mill products	<u>0</u>	3					:		2		=======================================	=	
a packing nouse pro-	Ξ	8	:		:	:	:	-	Ξ	03	131	<u></u>	
woods	287		:						287	-69	=	<u> </u>	:
Feas Petroleum	252	76							252	55	27.9	272	
Potatoes	:	7	:						:	7 061	7.6.	1.61	
Sawed lumber	3,511	5,019							5,511	5,019	10, 530	10,530	
Shingles	ŝ	:	:				:		±.		4 ;	\$;	
Square timber	217		:						2 89	333	712	712	
	99	200							603	. S.	<u> </u>	8	
Sand and stone	35,745	17,9						:	35,745	17,964	53,709	53, 709	
Wheat Wines, liquors and beers		° #							156	· ¥	G 25	. <u> </u>	
	100	100 000		Constitution of the Section of the S					100 02	1376 64	012 00	500	016 6

SESSIONAL PAPER No. 20a

Table 7 (No. 13)—General Statement showing the Quantity of each Article Transported on the Trent Valley Canals during the Season of Navigation in 1917.

	From C	Canadian	From Canadian	anadian	From U. States	. States	From U. States.	States.	E				ζ
Artieles.	Canadian	ian Ports.	U. States Ports.	s Ports.	U. States Ports	s Ports.	ro Canadian Ports.	n Ports.	01	Lons.	Total Tons.	Origin of Cargo.	Cargo.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		Canadian. U.	U. States.
Agricultural implements	300								65		38		
All other animals	× 8	43							S S	£	51		
Coal. hard	€ <u>2</u>		:			:			280		224		:
soft.	98	191							86	19	105	105	
	61 6					:			22		22		
Fruits and Vegetables Household goods	127							:	121		21		
l bloom	100	, cı							125	62	140		
Iron and steel, all other.	က								m	1	- 63	- 03	
Live stock	121	48	:		:				121	48	169		
Merchandise	8/8		:	:	:				978		1,941		:
woods	12.083	16.800			:			:	19 083	008 91	98 983	43 98 69	
	6						:		12,009		14	,01	
Petroleum	13								13		13	13	
Potatoes	15		*						15		17	17	
Pulpwood		13,764	:			:				13,764	13,764	13,764	
Sawed lumber	651				:	:		:	45.5		87		
Shingles	53.			:	:	:	:	:	100 53		1,800	Ι,	
er	09								38		977	000	
Sugar	11	:							11	:	11		
Salt	-								1				
Sand and stone			:	:	:				100		100	100	
	1,018	∞			:				1,018	8	1,026	1,026	
Total Freight	15,678	33,246							15,678	33,246	48,924	48,924	
_	-			_			_					_	

Table 7 (No. 14)—General Statement showing the Quantity of each Article Transported on the St. Andrews, during the Scason of Navigation in 1917.

Articles.	From Canadian to Canadian Ports.	Canadian to lian Ports.	From C.	Canadian to states Ports.	From Unit to United Sta	mited States to States Ports.	From Canadian From United States From United States United States Ports. United States Ports.	ed States Ports.	Tons.	<i>v</i> i (2	Total Tons.	Origin of Cargo.	Cargo.
	-d _	Down.	Ľþ.	Up. Down.	Cp,	Up, Down.	Up. Down.	Down.	Up. Down.	Down.		c anadian. O. States.	Scales.
Hay	9	5 7 159							3 6,375	159	5 7 162 6,375	6,375	
Sawed lumber Total Preight	7,005	121							7,003	171	7,174		

RAILWAY STATISTICS

OF THE

DOMINION OF CANADA

FOR THE
YEAR ENDED JUNE 30
1917

(From sworn Returns furnished by the several Railway Companies.)

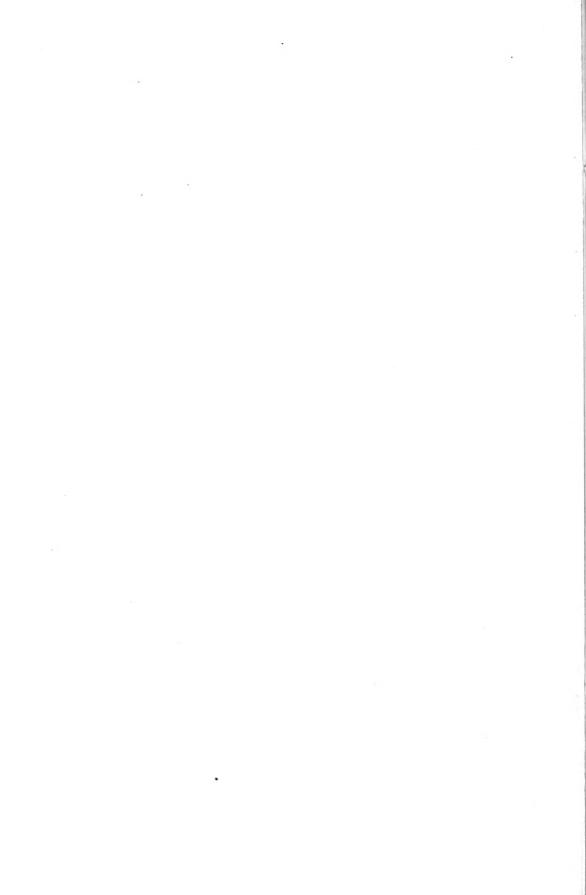
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OTTAWA

J. DE LABROQUERIE TACHÉ
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1918

[No. 20b—1918.]



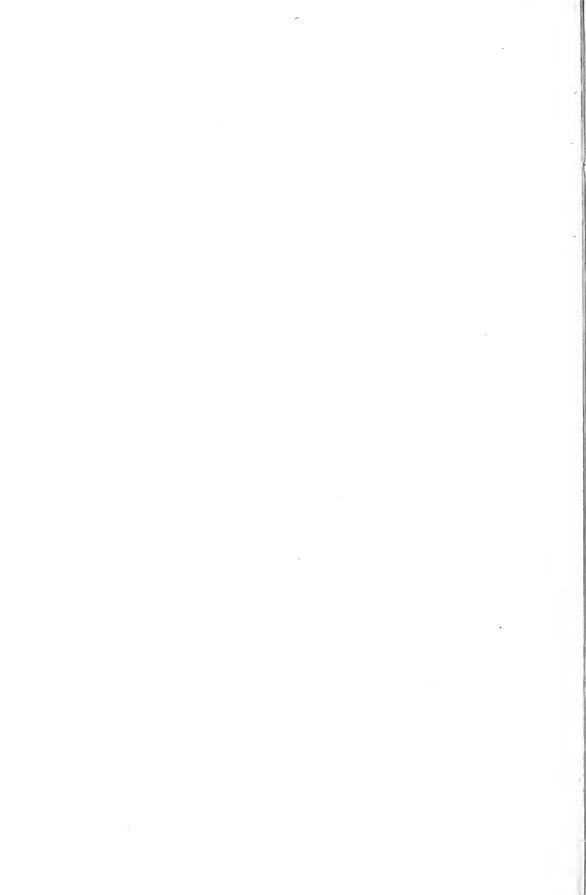
To His Excellency the Duke of Devonshire, K.G., P.C., G.C.M.G., G.C.V.O., etc., ϵ tc., Governor General and Commander in Chief of the Dominion of Canada.

MAY IT PLEASE YOUR EXCELLENCY:

The undersigned has the honour to present to Your Excellency the Annual Report of the Comptroller of Statistics for the year ended June 30, 1917.

J. D. REID,

Minister of Railways and Canals.



OFFICE OF THE COMPTROLLER OF STATISTICS, Оттаwа, March 4, 1918.

A. W. Campbell, Esq., C.E.,

Deputy Minister of Railways and Canals.

SIR,—I have the honour to submit herewith Railway Statistics for the year ended June 30, 1917.

It will be seen that there was a substantial expansion in traffic and gross earnings during the year, despite the abnormal conditions developed by the European war.

In the tables which form the body of this report will be found some details respecting the operations of railways throughout the Dominion.

ABRIDGED REPORT.

Owing to the conditions created by the war, it has been deemed expedient to materially abridge the report for 1917. Statistical matter omitted will, however, be kept in the department, and will be available when required.

ELECTRIC RAILWAYS.

Statistical data in relation to electric railways appear in these introductory pages and in the body of the report.

RAILWAY MILEAGE.

There was an addition of 1,170.15 to operating mileage, which brought up the total to 38,604·20. The increment was located chiefly in the western provinces, and consisted of mileage which had in previous years being reported as under construction.

8 GEORGE V, A. 1918

The history of operating railway mileage in Canada, less trackage rights, is here brought down to the year 1917:—

Year.	Miles in operation	Year.	Miles in operation
835		1865	
836	16	1868	2,270
846		1873	
847		1878	6,226
850	66	1883	
851	159	1888	12, 163
852	205	1893	15,005
853	506	1898	16,870
854	764	1903	18,988
855	877	1908	
856	1,414	1914	
858	1,863	1915.	
859		1916	
860	-,	1-4	1,
000	2,065	1917	38,604

The following statement shows the growth of railway mileage in the various provinces since 1907:—

Provinces.	1907.	1908.	1909.	1910.	1911.	1912.	1913.	1914.	1915.	1916.	1917.
Ontario	7,638	7,933	8,229	8,230	8.322	8,546	9,000	9,255	10,702	11,320	11,04
Quebec	3,516	3,574	3,663,	3,795	3,882	3,883	3,986	4,043	4,677	4,733	4,73
Manitoba	3,074	3,111	3,205	3,221	3,446	3,520	3,993	4,076	4,498	4,310	4, 19
Saskatchewan	2,025	2,681	2,631	2,932	3,121	3,754	4,651	5,089	5,327	5,378	6,12
Alberta	1,323	1,323	1,321	1,488	1,494	1,897	2,212	2,545	3,174	3.894	4,44
British Columbia	1,686	1,733	1.796	1,832;	1.842	1.855	1.951	1,978	3.100	3,604	3,88
New Brunswick	1.503	1.509	1.547	1.522	1.548	1.545	1.545	1.839	1,962	1,957	1,95
Nova Scotia	1,329	1.344	1.351	1.351	1.354	1.357	1.359	1.365	1.367	1,436	1.42
Prince Edward Island			269	269							
Yukon			91		102						
In United States					102	10-	225	224		426	41

Second track was increased by $186 \cdot 25$ miles in 1917, bringing the total up to $2.674 \cdot 91$.

Yard track and sidings had an addition of $827 \cdot 68$ miles, making the total $9.224 \cdot 15$.

The totals of second track and yard track and sidings since 1907 are as follows:—

	1907.	1908.	1909.	1910.	1911.	1912.	1913.	1914.	1915.	1916.	1917.
Double track Yard track and sidings	1,067 4,092	1,211 4,546	1,464 4,761	1, 543 5, 155	1,610 5,550	1,752 6,149	1,984 6,935	2,293 7,518	2,451 7,852	2,489 8,396	2,675 9,224

SESSIONAL PAPER No. 20b

All tracks combined:—

Year.	Miles.	Increase
07	. 27,967	
08	. 29,068	1, 10
09		1,2
10	31,429	1.1
11		1.1
12	34,629	2,0
13		3,5
14		2.3
15	45,885	5, 2
16		2.4
17	50,503	$\frac{2}{2}, \frac{1}{1}$

Tables 1, 2, and 3 will afford information in detail with respect to railway mileage.

RAILWAY CAPITAL.

The capitalization of railways in operation was \$1,985,119,991—an increase of \$91,242,172 for the year.

The actual increment was greater by \$15,142,633. That sum, representing a loan by Government to the Grand Trunk Railway, had for years been erroneously returned as part of the capitalization of the company. It was eliminated in 1917. There is the further qualification, that several lines regarded as being under construction in 1916 were in 1917 officially accepted as being in operation.

Distribution of capitalization:—

216, 284, 882 896, 005, 116
1,985,119,991

Bonds. Miscellaneous obligations. Income bonds. Equipment trust obligations.	26,012,000 $25,275,000$
Total	896,005,116

STOCKS.

	1914.	1915.	1916.	1917.
Dividend-paying. Non-dividend Amount of dividends Per cent on dividend-paying. Per cent on all stocks. Per mile, all stocks.	\$ cts. 492,580,812 00 360,529,841 00 30,434,601 00 6 17 3 56 30,138 00	491,538,059 00 356,263,042 00 32,341,337 00 6 58 3 81	427, 572, 186 00 32, 277, 874 00 7 68 3 81	508,453,969 00 26,865,424 00 7 37 3 02

FUNDED DEBT.

|--|

CONSOLIDATED DEBENTURE STOCK.

Per mile of time affected	Amount outstanding (C.P.R.)	6,809,520 00	\$ cts. 176,284,882 00 7,008,942 00 13,746 00	176, 284, 882 00 7, 051, 395 00	\$ ets. 216,284,882 00 10,278,672 00 19,101 00
---------------------------	-----------------------------	--------------	--	------------------------------------	---

The statement with respect to stocks and dividends was thoroughly revised for 1917. Changes were made in the classification, which had the effect of reducing dividends and swelling interest on funded debt.

It must be borne in mind that railways owned and operated by Government have neither stocks nor bonds outstanding. In other cases, there may be stocks and no bonds. The foregoing calculations are based on the facts. Railways under construction are omitted.

The cost, including equipment, of government owned and operated lines, for which no capitalization is given in foregoing statements, is shown in the following table:—

	Miles.	Capital Cost.	Cost per Mile.
Intercolonial. National Transcontinental Prince Edward Island Temiskaming and Northern Ontario. New Brunswick Coal and Railway	$\begin{array}{c} 1,510 \\ 2,003 \\ 278 \\ 329 \\ 58 \end{array}$	\$ 121,118,667 163,797,784 11,459,026 20,737,832 1,936,600	\$ 80,211 81,898 41,223 63,033 32,217
Totals.	4,178	319,049,909	

Since the foregoing figures were made up, and many calculations based thereon, it has been officially announced that the correct mileage of the Intercolonial is 1.518·39.

The following tabular statement shows the record of railway capitalization, by periods, since 1876:—

Year.	Stocks.	Debenture Stock	Funded Debt.	Total.
		8		\$
876	180,955,657		76,079,531	257, 035, 18
881	199,527,981		84,891,313	284, 418, 29
886	317, 141, 948		169, 359, 306	486, 501, 2
891	339,769,786		292, 291, 654	632,061,4
896	361,075,340		336, 137, 601	697, 212, 9
901	424, 414, 314		391,696,523	816, 110, 8
907	588, 563, 591		583, 369, 217	1,171,937,8
913	755, 316, 516	163, 257, 224	613, 256, 952	1,531,830,6
914	853, 110, 653	173, 307, 470	782,402,638	1,808,820,7
915	847,801,101	176,284,882	851,724,905	1,875,810,8
916	848, 269, 488	176, 284, 882	869,323 449	1,893,877,8
917	872,829,993	216, 284, 882	896, 005, 116	1,985,119,9

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The relationship of dividends and net earnings to share capital during the past eleven years is shown in the following table:—

Year.	Debenture Stock.	Interest on Debenture Stock.	Stocks.	Dividends on Stocks.		Net Earnings.	Stocks and Debenture Stock.	Per cent
	\$	\$	\$	\$	\$	8	\$	
1907			588, 568, 591	12,760,435	2 · 17	42,989,537	588, 568, 591	$7 \cdot 30$
1908			607,891,349	12,955,243	2.11	39,614,171	607,891,349	6.51
			647,534,647	19,230,126	$2 \cdot 97$	40,456,252	647,534,647	6 · 24
1910			687,557,387	21,747,914	3 16	[53, 550, 777]	687, 557, 387	7.78
			749, 207, 687	30,577,740	4.08	57,698,709	749, 207, 687	7.70
1912			770,459,351	31,164,791	$4 \cdot 04$	[68, 677, 213]	770, 459, 351	8.91
1913	163, 257, 224	6,337,188	755, 316, 516	27,333,373	3.72	[74,671,160]	918, 573, 740	8 • 13
1914	173,307,470	6,805,320	853, 110, 653	30, 434, 601		[64, 108, 280]	1,026,418,123	6.25
1915	176, 284, 882	7,008,942	847,801,101	32,341,337	3.81	[52, 111, 973]	1,024,085,983	5.09
1916	176, 284, 882	7,051,395	848, 269, 488	32,277,874	3.81	[81, 346, 395]	1,024,554,325	$7 \cdot 94$
1917	216, 284, 882	10, 278, 672	872,829,993	26,865,424	$3 \cdot 02$	87,880,842	1,089,114,875	8.07

It should be explained that in 1917 the sum of \$6,555,300, which had been classified by the Grand Trunk as dividends, was transferred to interest on funded debt.

Net earnings in the foregoing statement are the difference between gross receipts and operating expenses. Net operating earnings, after deductions have been made for fixed charges and so on, will be found in Table 9 under the head of Income Account.

AID TO RAILWAYS.

Cash subsidies paid to railways by the Dominion in 1917 amounted to \$774,285.68.

The particulars of aid given to railways since 1875 will be found in Table 5. The account respecting aid stood, on June 30, as follows:—

Year.	Dominion.	Provinces.	Municipalities.
	$\begin{array}{c} c90,644,574 \ 40 \\ 102,087,290 \ 66 \\ 107,760,795 \ 70 \\ 118,474,316 \ 04 \\ e154,075,235 \ 09 \\ 163,251,469 \ 42 \\ 178,834,528 \ 74 \\ 183,479,192 \ 91 \\ 184,719,627 \ 88 \end{array}$	\$ ets. 4,203,240 43 17,044,628 91 23,342,758,82 29,368,697 75 31,310,170 06 43,278,022 12 35,945,515 16 36,500,015 16 37,023,275 16 37,437,895 16 37,437,895 16 37,437,895 16	17,914,836 40 17,914,836 40

^{*} Included loan \$2,311,666.67 to Northern Railway; not reported after this year. c Eastern extension \$1,284,495.76, now included in I.C. Railway. e This amount includes payments of \$6,263,715.86 to Grand Trunk Pacific under the Implement clause of the agreement between Government and the Company.

f This reduction is due to the repayment of a loan. Included with the aid to the C.P.R. is the sum of \$37,785,319.54 for lines built by Government and handed over to the Company. In that total is \$6,639,581 for surveys.

8 GEORGE V, A. 1918

Following is an analysis of the cash subsidies paid by the various provinces since 1875:—

Year.	Onta	rio.	Que	bec.		Nova	Scotia		ew swick.	Brit Colur		Mani	itoba.	Total	s.
	8	ets.		\$	ets.	\$	cts.	\$	cts.	\$	ets.	\$	cts.	8	cts.
1887	3,183,0 5,984,0 6,391,9 7,281,1 8,562,5 9,204,6 9,669,2	07 52 32 74 29 63 04 47 16 04	3,2 7,8 11,2 12,2 12,3	76,0 $64,5$ $06,8$ $59,2$ $33,1$	71 81 61 83 33 10 85 66 96 52	1,653 2,121 2,204 3,991 6,384	$\begin{array}{cccc} 944 & 55 \\ 847 & 10 \\ 193 & 75 \\ 299 & 75 \end{array}$	3,865, 4,425, 4,506, 4,580, 4,907,	165 00 281 81 040 71 934 71 486 71	37, 37, 37, 798,	500 00 500 00 500 00 209 00	386, 2,623, 2,703, 2,872, 2,878,	$\begin{array}{c} 286 \ 77 \\ 061 \ 77 \\ 887 \ 02 \\ 887 \ 02 \end{array}$	16,674,1	74 01 07 70 12 31 04 61 95 04

Additions were not made in succeeding years.

The cash aid given by municipalities is shown, by provinces, in the following table:—

Year.	Ontario.		Qu	ebe		No Scot		В	New run: viek	8-	Briti Colum		Mar	nitob	i 7	Vor wes Fer	ri-	Total	s.
	8	cts.		ş	ets.	\$	ets.		s	ets.	8	ets.		s ets		s	ets.	8	ets.
1911 1912 1913	3,774,62 5,988,30 8,055,30 10,289,45 11,971,16 12,930,29 13,361,07 13,361,07 13,361,07	0 01 5 81 3 37 4 37 0 81 5 63 5 63 5 63	1,864 2,380 2,840 2,865 3,126 3,137 3,137 3,158	, 144 0, 986 0, 718 0, 718 0, 036 0, 536 0, 536	62 62 62 62 62 63 62 63 68 68 68 68 68 68 68 68	250,00 250,00 277,68 281,68 471,89 481,89 481,89	00 00 00 00 55 00 85 00 98 10 98 10 98 10	$\begin{array}{c} 293 \\ 296 \\ 336 \\ 336 \\ 341 \\ 341 \\ 341 \\ 341 \end{array}$, 500 , 500 , 500 , 500 , 500 , 500 , 500	00 00 00 00 00 00 00 00 00 00	37, 500 37, 500 37, 500 37, 500 207, 95 216, 45 223, 20	0 00 0 00 0 00 0 00 2 00 2 50 2 50	480, 6 490, 6 490, 6 490, 6 490, 6 490, 6	500 00 500 00 500 00 500 00 500 00 500 0	0 22 0 22 0 22 0 22 0 22 0 22	, 26 , 26 , 26 , 26	51,29 51 29 51 29 51 29 51 29	8,305,9 11,500,8 14,272,4 16,005,4 17,420,0 18,042,8 18,051,3 18,078,6	044 63 92 43 56 99 29 28 085 65 323 60 323 60 573 60

In succeeding years additions were not made.

Following is an analysis of the various forms in which cash aid has been given to railways by the Dominion, by the provinces, and by municipalities:—

Dominion.

Cash subsidies	Ş	110,708,290 57
Loans		25, 576, 533 33
Cost of lines handed over to C.P.R		37,785,319 97
Paid to Quebec Government		5, 160, 053 83
Implement clause, G.T.P., agreement		6,263,715 86
Total	\$	185,493,913 56

The purchase of Grand Trunk Pacific bonds aggregating \$33,116,000 by the Government, could not properly be classified as cash aid. It is therefore omitted from this account, and appears in a later paragraph, among guarantees authorized.

The Dominion Government has also constructed and now operates, the Eastern Division of the National Transcontinental railway, on which an expenditure of \$163,797,784 had taken place up to March 31, 1917.

PROVINCES.

Cash Subsidies Loans Subscriptions to shares		7,197,030 00 300,000 00
Total	\$	37,437.895 16
Note—\$4,447,000 was transferred from Subsidy to Loan Account.	_	
MUNICIPALITIES.		
Cash subsidies	\$	$\begin{array}{c} 12,670,837,78 \\ 2,404,498,62 \\ 2,839,500,00 \end{array}$
Total	\$	17,914,836 40

Note-A loan of \$186,202.50 cancelled in 1914.

LAND GRANTS.

Following have been the land grants to railways:—

	Acres.
By the Dominion. By the province of Quebec* By the province of British Columbia By the province of New Brunswick. By the province of Nova Scotia. By the province of Ontario.	31,864,074 1,681,690 8,119,221 1,647,772 160,000 624,232
Total	44,096,989

^{*}See explanatory paragraph.

In the case of the province of Quebec the land grants have been on a special basis, and it is therefore necessary to have in mind the following facts:—

Acres granted—convertible	 	13,324,950
Converted, at 52½ cents per acre	S	6,995,599
Amount of conversion		
Aeres granted—not convertible	 	10,360,934
Acres earned—not convertible		1.681.690

The facts with respect to grants of lands by the Dominion, as revised by the Railway Lands Branch of the Department of the Interior, are as follows:—

Name of Company	Area earned Acres.
Alberta Railway and Irrigation Co. (formerly North West Coal and Navigation Co.). Calgary and Edmonton Railway Co. Canadian Northern Railway Co. (Ry. from point on C.P.R. to Hudson Bay). Canadian Northern Railway Co. (formerly Lake Manitoba Railway and Canal Co.). Canadian Pacific Railway Co.—Main Line. C.P.R., Pipestone Extension, Souris Branch. C.P.R., Souris Branch. Great North West Central Railway Co. (formerly North West Central Ry. Co.). Manitoba and North Western Railway Co. Manitoba South Western Colonization Railway Co. Canadian Northern Railway Co. (formerly Manitoba and South Eastern Ry. Co.). Qu'Appelle, Long Lake and Saskatchewan Railroad and Steamboat Co. Saskatchewan and Western Railway Co.	1,888,448 2,624,128 798,400 18,206,986 200,320 1,408,704 320,000 1,501,376 1,396,800 680,320 1,625,344
Total	31,864,074

The Dominion has not made any grants of lands in aid of railways since 1894.

GUARANTEES.

Guarantees of bonds have been substituted in large measure for other forms of aid during recent years. It has been most difficult to get an accurate statement of the facts in this regard, particularly as to the precise amount of outstanding liability. The following table is based on official reports from the Dominion and Provincial Governments:—

	Authorized.	Bonds Executed.	Guarantees Earned.
	\$	8	\$
Dominion	189,666,539 25,519,553 59,495,900 47,725,000 7,860,000 68,782,072 7,763,000	183, 532, 523 25, 519, 553 45, 120, 450 28, 095, 345 7, 860, 000 60, 964, 599 7, 763, 000	183, 532, 52; 25, 519, 55; 45, 120, 456 22, 683, 99- 7, 860, 000 60, 964, 59 6, 431, 56;
Quebec Total	280,000 407,092,064	$\frac{280,000}{359,135,470}$	280,00 352,392,68

It must be understood that \$33,116,000 worth of Grand Trunk Pacific bonds purchased by the Dominion Government, and referred to in a preceding paragraph, is included with the amount of guarantees authorized, although in such case the guarantee does not apply. There is, however, no other way of recording the amount in this connection.

The facts for the preceding six years, as respects the amount of guarantees authorized, are as follows:—

	1911.	1912.	1913.	1914.	1915.	1916.
	8	8	\$	\$	\$	\$
Dominion	52, 439, 865	91, 983, 553	95,486,590	188,965,063		
Manitoba	20,899,660	20,899,660	24,059,447	25, 221, 580		
Alberta	25.743,000	45, 489, 000	45, 489, 000		59,410,450	
Saskatchewan	11,999,000	32,500,000	33,735,000	41,625,000	41,625,000	
Ontario Nova Scotia	7,860,000 $5,022,000$	7,860,000 $5,022,000$	7,860,000 $5,022,000$	7,860,000	7,860,000	7,860,000
British Columbia	23.196.832	38,946,832	59. 262. 072	80, 322, 072	80,332,072	80, 332, 072
New Brunswick	700,000	1,893,000	3,654,265		6,063,000	
Quebec	476,000	476,000	392,000	392,000	392,000	308,000
Total	148, 336, 357	245,070,045	274.960.374	406, 259, 165	409,869,165	417,612,94

Following are the details according to official statements received from the Dominion and the various provinces:—

DOMINION.

The list of securities guaranteed by the Dominion prior to June 30, 1916, is as follows:—

1. The Canadian Northern Railway Company, chapter 7, Edward VII (1903).

The guarantee is for the principal of £1,923,287 sterling, and interest thereon at the rate of 3 per cent per annum for fifty years.

2. The Canadian Northern Railway Company, chapter 11, 7-8 Edward VII (1908).

The guarantee is for the principal of £1,622,586 19s. 9d. sterling debenture stock and interest thereon at the rate of $3\frac{1}{2}$ per cent per annum for fifty years, from July 20, 1908, interest payable half yearly.

3. The Canadian Northern Ontario Railway Company, chapter 6, 1-2 George V (1911).

The guarantee is for the principal of £7,493,835 12s. 4d. sterling debenture stock and interest thereon at the rate of 3½ per cent per annum for fifty years, from May 19, 1911, interest payable half yearly, amount actually issued £7,350,000.

4. The Canadian Northern Alberta Railway Company, chapter 6, 9-10 Edward VII (1910) as amended by chapter 8, 2 George V (1912).

The guarantee is for the principal of £647.260 5s. 6d. sterling debenture stock and interest thereon at the rate of $3\frac{1}{2}$ per cent per annum for fifty years, from May 4, 1910, interest payable half yearly.

5. The Grand Trunk Pacific Railway Company, chapter 71, 3 Edward VII (1903) and chapter 24, 4 Edward VII (1904) and chapter 98, Acts of 1905.

The guarantee is for 3 per cent bonds of the railway company to an amount equal to 75 per cent of the cost of construction of the Western Division of the National Transcontinental railway, but not exceeding \$13,000 per mile in respect of the Prairie section of the said railway. The amount of bonds issued and guaranteed is £7,200,000, of which £2,300,000 were issued in 1905, £2,000,000 in 1909, and £2,000,000 in 1910.

The total authorized issue was £14,000,000 and the balance of the issue not sold to the public—£6,800,000—was purchased by the Government under the authority of the Grand Trunk Pacific Bond Purchase Act, 1913. There is therefore no guarantee, as respects this part of the issue, outstanding.

6. The Canadian Northern Alberta Railway Company, chapter 6, 2 George V (1912).

The guarantee is for the principal of £733,561 12s. 10d. sterling debenture stock and interest thereon at the rate of $3\frac{1}{2}$ per cent per annum for fifty years, from April 1, 1912, interest payable half yearly.

7. The Grand Trunk Pacific Railway Company, chapter 20 of the Acts of 1914.

Total guarantee authorized, \$16,000,000, interest at 4 per cent. Sold to the public, \$3,193,507; pledged with the Dominion Government against advances, \$7,500,000; pledged to Grand Trunk Railway Company, \$5,306,493.

8. The Canadian Northern Railway Company, chapter 20 of the Acts of 1914.

Guarantee authorized, \$45,000,000, at 4 per cent. Sold to the public, \$17,033,333; pledged with the Dominion Government against advances, \$12,500,000; pledged with Columbia Trust Coy., New York, against advances, \$15,333,333.

ALBERTA.

Railway.	Authorized Mileage.	Par Bond Value.	Mileage executed by Government.	Par Bond Value.
Canadian Northern Canadian Northern Western Grand Trunk Pacific Branch Lines Co Edmonton, Dunvegan and British Columbia Ry Alberta and Great Waterways. Central Canada Lacombe and Blindman Valley.	902 · 4 1,390 · 259 · 5 471 · 350 · 114 · 39 · 1	\$ 13,536,000 22,530,000 4,182,500 9,420,000 7,000,000 2,280,000 547,400	$\begin{array}{c} 662 \cdot 57 \\ 259 \cdot 5 \\ 471 \cdot \\ 350 \cdot \\ 100 \cdot \end{array}$	\$ 11,022,000 11,222,250 4,182,500 9,420,000 7,000,000 2,000,000 273,700
Totals	3,526.0	59.495,900	2,656.97	45, 120, 450

SASKATCHEWAN.

	Number of Miles.	Total Authorized Guarantees of \$15,000 per Mile.	Par value of Bonds sold.	Amount of earnings Released.
		\$ ets.	\$ ets.	\$ ets.
Canadian Northern Railway Company	1,155 255 760 605	3,825,000 00	13,709,400 00 1,174,813 33 11,328,892 00 Nil.	782,210 60
		41,625,000 00	26,213,105 33	21,147,333 38
Bridges and Terminals— Canadian Northern Saskatchewan Ry. Co. Grand Trunk Pacific Branch Lines Co Grand Trunk Pacific Saskatchewan Ry. Co		1,000,000 00 5,100,000 00		Nil. 1,536,660 62
		47,725,000 00	28,095,345 33	22,683,994 00

ONTARIO.

To the Canadian Northern Ontario Railway Company—Guarantee of interest on bonds aggregating \$7,860,000.

NOVA SCOTIA.

The aid given by the province of Nova Scotia to the Halifax and Southwestern Railway Company was not in the nature of a guarantee of bonds; but the facts of the case cannot very well be given under any other head. They are as follows:—

In the first instance the province advanced to the company \$13,500 per mile on 257·25 miles of its railway. The company gave a mortgage to the province covering the railway system for the total amount so advanced, and for interest on advances during construction, but could redeem the mortgage by repaying the said sum of \$13,500 per mile, less the sum of \$3,200 per mile. The \$3,200 per mile represents the sum which, under the provisions of a general Act on the subject, the province grants as a subsidy to a company constructing a railway.

This arrangement existed until the new arrangement was made under chapter 27 of the Acts of 1912, as amended by chapter 64 of the Acts of 1913. The new arrangement provided for releasing the original mortgage, for crediting the railway company with the \$3,200 per mile, and interest thereon, for repayment to the company of the equivalent of £180,400 sterling which the company had paid as interest on the mortgage, and for adding that amount to the sums due by the company for principal. The equivalent of £180,400 sterling was paid to the Halifax and Southwestern Railway Company, but instead of being paid in eash it was paid by delivering to the company £180,400 of provincial debentures. The total amount the company owed the province under this arrangement was settled at \$4,447,000, in which is included the equivalent of £180,400 sterling.

As security for that amount the company delivered to the province its bonds guaranteed by the Canadian Northern Railway Company, aggregating \$4,447,000, these bonds being secured by a mortgage trust deed covering the railway system of the Halifax and Southwestern Railway Company, and the province still holds the bonds and collects the interest thereon as the same

falls due.

Under the primary arrangement the railway company did not deliver bonds to the province, but merely executed the mortgage, which has been

released and superseded by the new arrangement.

The advance of \$13,500 per mile was not made by the province delivering bonds to the company; it was made in eash, the province having borrowed the money in London by the issue and sale of inscribed stock. The interest on the guaranteed bonds that the province now holds offsets within about one-quarter per cent the interest payable on the inscribed stock, this difference being accounted for by the fact that the stock was issued below par.

After the guaranteed bonds of the Halifax and Southwestern Railway Company are paid, the amount of provincial aid it will have received will have

been \$3,200 per mile.

BRITISH COLUMBIA.

	Guarantee Authorized.	of Bonds	
Canadian North Pacific Ry. Pacific Great Eastern Ry. Nakusp and Slocan Ry.	20,160,000	20, 160, 000	\$ 30,900,958 18,035,198 647,072
	68,782,072	60,964,599	49,583,228

In 1916 there was added to the above \$11,550,000 of bonds of the Pacific Great Eastern, the guarantee of which had been authorized by the Legislature. The official statement for 1917 omits the amount.

MANITOBA.

To the Canadian Northern Railway Co., the following guarantees have been given:—

1,243·73 miles, 332·3 " 287·28 "	main line and branches in Manitoba at \$10,000 per mile main line and branches in Manitoba at \$13,000 per mile Port Arthur Division at \$20,000 per mile Guarantees on Winnipeg Terminals	. 4, . 5,	320,00 $745,58$	$\frac{0000}{6.67}$
•	Total guarantees	\$25,	502,87	3.33
	Manitoba Railway— 3,000.00 per mile	. \$	16,68	0.00

NEW BRUNSWICK.

·	Amount guaranteed.	Earned and paid.
International New Brunswick and Seaboard. Southampton St. John and Quebee St. John and Quebee Fredericton and Grand Lake Total	1,700,000 00 465,000 00	1,020,662 90 465,000 00

QUEBEC.

Guarantee of bonds of the Montreal and Western Railway Company to the amount of \$280,000.

INCOME ACCOUNT.

Net operating revenue Outside operations—	\$ 87,880,842 02
Outside operations— Revenue	
Net revenue	19,742,698 52
	\$ 107,623,540 54
Less Taxes	4,726,462 17
Gross corporate income	\$ 102,897,078 37
Lease of other roads . \$ 3,707,655 03 Other rents	
Interest on funded debt	
Other interest	
Other deductions	51, 175, 398-81
Net corporate income	\$ 51,721,679 56
Dividends—Common	
Additions and betterments 1,697-82	
Reserves	37,291,965 72
Balance to profit and loss	\$ 14,429,713 84

It should be explained that the foregoing dividends are exaggerated by the inclusion of interest on the debenture stock of the Canadian Pacific Railway. In that case, it is really interest on a debenture of such a peculiar class that it neither belongs to stocks nor funded debt.

Details will be found in Table 9.

CURRENT ASSETS AND LIABILITIES.

This year, for the first time, the facts with regard to current assets and liabilities are given. They will be found in Table 9A, and throw a helpful light on the financial position of railways.

 $20b-B_{\frac{1}{2}}$

PUBLIC SERVICE OF RAILWAYS.

The railways of Canada carried 53,749,680 passengers and 121,926,272 tons of freight in 1917. Both totals show material gains over the preceding year.

The history of passenger traffic since 1875 is as follows:—

Year.	Passengers carried.	Year.	Passengers carried.
1875.	$\begin{array}{c} 6,462,948 \\ 9,672,599 \\ 12,821,262 \\ 13,987,580 \\ 21,500,175 \end{array}$	1911	37,097,713
1880.		1912	41,124,18
1885.		1913	46,203,76
1890.		1914	46,702,280
1895.		1915	49,322,03
1900.		1916	49,027,67
1905.		1917	53,749,680

The record of freight traffic is as follows:—

Year.	Tons of freight (2,000 lbs.)	Year.	Tons of freight (2,000 lbs.)
1875 1880 1885 1890 1895 1900 1905 1906 1907 1908	5,670,837 9,938,858 14,659,271 20,787,469 21,524,421 35,946,183 50,793,957 57,966,713 63,866,135 63,071,167	1909 1910 1911 1912 1913 1914 1915 1916 1917	$\begin{array}{c} 66,842,258\\ 74,482,866\\ 79,884,282\\ 89,444,331\\ 106,992,710\\ 106,393,989\\ 87,204,833\\ 109,659,088\\ 121,916,272\\ \end{array}$

PASSENGER TRAFFIC.

Passengers carried 1 mile:	
1907 2,049,549,813 1909 2,033,001,225 1911 2,605,968,924	1913 3,265,656,080 1915 2,483,708,745 1917 3,150,127,428
Passengers carried 1 mile per mile of	line:—
1907 90,921 1909 84,342 1911 102,597	1913 111,353 1915 69,802 1917 79,829
Passengers carried per mile of line:—	-
$\begin{array}{ccc} 1907 & & 1,431 \\ 1909 & & 1,355 \\ 1911 & & 1,560 \end{array}$	1913 1,576 1915 1,299 1917 1,362
Average receipts per passenger per n	nile:—
1907. 1.911 1909. 1.921 1911. 1.944	1913 cents. 1915 1·973 1917 1·946

Passenger revenue:—	
1907 \$ 39,184,437 1909 39,073,488 1911 50,566,894	1913\$ 64,441,430 191550,173,267 191761,290,291
Passenger train revenue:—	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1913 \$ 74,431,994 1915 60,699,935 1917 80,767,114
Average receipts per passenger:—	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1913 \$1·394 1915 1·083 1917 1·140
Average number of passengers per t	rain:—
1907	1913 62 1915 50 1917 59
Average number of passengers per c	ar:—
1913 11 1914 14 1915 14	1916 14 1917
Average number of ears per passeng	er train:—
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Average passenger journey—miles:-	_
1907	1913

The average earnings from passenger train service per passenger train mile were $\$1\cdot529$, as compared with $\$1\cdot311$ in 1916.

The average earnings per passenger ear mile were 23·7 eents. This includes all classes of cars forming a passenger train.

FREIGHT TRAFFIC.

Freight traffic aggregated 121,916,272 tons, representing an increase over 1916 of 12.257,184 tons, or 10.28 per cent.

Tons hauled 1 mile:—

1907	1913	23,032,951,596
1909 13,160,567,550	1915	17,661,309,723
1911	1917	31, 186, 707, 851

Tons hauled 1 mile per mile of line:-

1907	5 1913	320
1909	1915	355
1911 631,82	9 1917) 46

Average receipts per ton per mile:—	-
$\begin{array}{ccc} 1907 & & 0.815 \\ 1909 & & 0.727 \\ 1911 & & 0.777 \end{array}$	1913
Average trainload—tons:—	
1907. 260 1909. 278 1911. 305	1913 342 1915 344 1917 436
Average number of loaded cars per f	freight train:—
$\begin{array}{cccc} 1907. & 16\cdot 92 \\ 1909 & 16\cdot 37 \\ 1911. & 18\cdot 03 \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Average number of tons per loaded	car:—
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Average length of haul—miles:—	
1913.,	1915 202 1916 257 1917 256
Average revenue per ton:—	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1916

Following is the record of freight tonnage per mile of line since 1875:—

1875 1881 1887 1893 1898	1,646 1,342 1,466	1904 1910 1916 1917	2,478 3,012 2,929 3,159
--------------------------------------	-------------------------	------------------------------	----------------------------------

Under the head of Earnings will be found further information with respect to freight business for 1917.

8 GEORGE V, A. 1918

Details with regard to commodities are here given for 1913, 1915 and 1917:

	1913	1915	1917
	Tons	Tons	· Tons
Products agriculture—			
Grain	10,386,282	9,159,793	16, 491, 090
Flour	2,374,198	2,514,609	3,374,963
Other mill products	1,310,167	1,486,665	1,684,176
Hay	1,172,022	1,211,835	1,042,393
Tobaceo.		38,580	44,485
Cotton	93,807	108,877	154,256
Fruit and vegetables	1,295,568	1,474,314	1,649,779
Other products of agriculture.	499,269	391,236	686,311
Products of animals—	1 002 040	1 907 100	1 774 700
Live stock		1,387,103	1,554,560
Dressed meats	616, 274		645,09-
Other packing-house products	371,663	395,364 $282,856$	596,349 373,51
Poultry, game, and fish.	263,760 $40,684$		62.456
Wool Hides and leather	205, 583		249.79
Other products of animals	449, 357		
Products of mines—	449, 601	450, 105	499,120
Anthracite coal	8,485,652	6,477,642	7,623,87
Bituminous coal	17,930,653	16, 114, 480	21.782.48
Coke	2,010,198	1, 171, 427	1,641,448
Ores	4,348,666	3,524,211	5, 570, 21
Stone, sand, etc	6,359,395	4,841,415	3, 910, 56
Other products of mines	1.104.978	998, 360	2,006,05
Products of forests—	1.104,510	550,500	2,000,00
Lumber	9,590,068	7,985,885	10, 109, 749
Other products of forests	7,019,032		8,989,93
Manufactures—	7.010,005	0,000,010	0,000,00
Petroleum and other oils	807.062	868, 214	1.414.800
Sugar	820, 252	707,714	
Naval Stores	19,898		
Iron, pig and bloom	1,394,725	488,216	1,723,24
Iron and steel rails	1,304,551	450,764	
Castings and machinery	1,499,084	891,063	1,920,30
Bar and sheet metal	1,305,682	635, 150	1,562,31
Cement, brick and lime			2,698,16
Agricultural implements	593,470	285,491	
Wagons, carriages, tools, etc.	286,069		
Wines, liquors, and beers.	372,495	247,944	
Household goods and furniture	493,629	295,496	
Household goods and furniture			0 70 7 07
Other manufactures	6,838,904		
Other manufactures. Merchandise.			6,070,85

Separating the foregoing items into classes, and comparing the figures with those of preceding years, the result is as follows:—

	1907.	1909.	1911.	1913.	1915.	1917.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Products of agriculture	9,521,661	11,963,263	13,809,536	17, 196, 802	16,385,909	25, 127, 453
Products of animals	2,469,266	2,807,487	3,190,702	3,173,562	3,356,657	
Products of mines	18,460,172	23,931,061	28,652,236	40,230,542	33, 127, 535	
Products of forest	10, 229, 635	11,595,007	13,238,347	16,609,100	13,976,555	19,090,682
Manufactures	7.974.641	7,902,592	13.573.987	16,241,081	12,586,393	21,921,309
Merchandise	2,309,084	2,393,285	2.438.089	4.365.852	5,272,163	6,070,858
Miscellaneous	5,533,426	6,234,372	4,981,385	4,161,154	2,393,123	3, 151, 203
Totals	56, 497, 885	66,827,067	79,884.282	*106,992,710	5 87,204,838	c121, 916, 272

^{*} Undistributed 1,561,457 tons. b Undistributed 106,503 tons. c Undistributed 39,244 tons.

Following is the ratio which each class bore to the total:—

	1907.	1909.	1911.	1913.	1915.	1917
Products of agriculture	16.85	17.91	17 - 17	16.31	18.79	20.6
Products of animals	4.37	$4 \cdot 21$	4.00	$3 \cdot 01$	3.75	3.2
Products of mines	32.68	35.81	35.87	$38 \cdot 16$	37.89	34.9
Products of forest	18-11	$17 \cdot 35$	16.57	15.75	$16 \cdot 03$	15.6
Manufactures	14-11	11·S2	17.00	18.68	14.76	17.9
Merchandise	4.08	$3 \cdot 58$	3.06	4.14	6.01	4.9
Miscellaneous	9.79	$9 \cdot 32$	$6 \cdot 33$	3.95	2.74	2.6

The origin of freight in 1913, 1915 and 1917 is shown in the following table—

	-	1913.	1915.	1917.	
Originating in Canada Received from connecting roads Received from U.S. roads Undistributed		56,829,297 21,284,742	49,257,996 15,706,668 22,134,118	Tons. 67,134,164 23,451,578 31,330,530	
Total		106, 992, 710	87,204,838	121,916,272	

It will be observed that the net tonnage for 1917 was 98,464,694. A connecting road is defined as being a road operating within the boundaries of Canada. Traffic received from a United States road applies to all tonnage brought into Canada by roads operating on both sides of the boundary, as well as freight delivered at the boundary to a Canadian line.

EARNINGS AND OPERATING EXPENSES.

Gross earnings:—			
1917 1916		 	\$313,492,949 263,527,157
Increase			\$ 49,965,792
Operating expenses:—			
1917			
Increase		 	 \$ 43,032,339

The foregoing totals include the results of five units which cannot be properly classified as railways. The Pullman Company is an example. Therefore, for the purposes of all calculations the total of gross earnings used is \$310,771,479 and of operating expenses \$222,890,637.

Year.	Gross earnings.	Operating expenses.	Percentage of operating expenses to earnings.
	S	S	
875	19,470,539	15,075,532	81-1
881	27,987,508	20, 121, 418	71.9
887	38,841,609	27,624,683	71 - 1
893	52,042,396	36,616,033	70.3
899	62,243,784	40,706,217	65.3
905	106, 467, 198	79,977,573	75.2
911	188,733,494	131,033,785	69 - 4
916	263, 527, 157	180, 542, 259	68.9
917	310,771,479	222,890,637	$71 \cdot 7$

EARNINGS.

Gross earnings for 1916 and 1917 came from the following sources:—

Vater line— FreightPassenger		\$ cts. 252,773,275 \$6	215, 245, 256 49 61, 290, 290 70 569, 566 07 2, 832, 750 58 268, 875 33 3, 169, 910 97 8, 999, 973 85 72, 110 40 538, 486 82 2, 380, 706 18 113, 832 01 27, 652 04 41, 518 50	
Freight Passengers Excess baggage Sleeping cars Parlour and chair cars Mail Express Other passenger trains Milk Switching Special service train Other freight train Water transfer—freight Totals Vater line— Freight Passenger	53.097, 642 59 478, 393 91 2.478, 864 56 259, 622 10 3.049, 539 96 6.845, 234 69 60, 728 85 493, 234 12 1,706, 280 33 94, 954 08 108, 893 40	252.773.275 80	61, 290, 290 70 569, 566 07 2, 832, 750 58 268, 875 33 3, 169, 910 97 8, 999, 073 85 72, 110 40 538, 486 82 2, 380, 706 18 113, 832 01 27, 652 04 41, 518 50	
Passengers Excess baggage Sleeping cars Parlour and chair cars Mail Express Other passenger trains Milk Switching Special service train Other freight train Water transfer—freight Totals Vater line— Freight Passenger	53.097, 642 59 478, 393 91 2.478, 864 56 259, 622 10 3.049, 539 96 6.845, 234 69 60, 728 85 493, 234 12 1,706, 280 33 94, 954 08 108, 893 40	252,773,275 89	61, 290, 290 70 569, 566 07 2, 832, 750 58 268, 875 33 3, 169, 910 97 8, 999, 073 85 72, 110 40 538, 486 82 2, 380, 706 18 113, 832 01 27, 652 04 41, 518 50	
Excess baggage Sleeping cars Parlour and chair cars Mail Express Other passenger trains Milk Switching Special service train. Other freight train. Water transfer—freight Totals Vater line— Freight Passenger.	478, 393, 91 2,478,864,56 259,622,10 3,049,539,96 6,845,234,69 60,728,85 493,234,12 1,706,280,33 94,954,08 108,893,40	252,773,275 8	569,566 07 2,832,750 58 268,875 33 3,169,910 97 8,999,073 85 72,110 40 538,486 82 2,380,706 18 113,832 01 27,652 04 41,518 50	
Sleeping cars. Parlour and chair cars Mail. Express. Other passenger trains Milk. Switching. Special service train. Other freight train. Water transfer—freight. Totals. Vater line— Freight. Passenger.	2,478,864 56 259,622 10 3,049,530 96 6,845,234 69 60,728 85 493,234 12 1,706,280 33 94,954 08 108,893 40	252.773.275 \$6	2,832,750 58 268,875 33 3,169,910 97 8,999,073 85 72,110 40 538,486 82 2,380,706 18 113,832 01 27,652 04 41,518 50	
Parlour and chair cars Mail Express Other passenger trains Milk Switching Special service train Other freight train Water transfer—freight Totals Vater line— Freight Passenger	259, 622 10 3,049,539 96 6,845,234 69 60,728 85 493,234 12 1,766,280 33 94,954 08 108,893 40	252.773.275 80	268,875,33 3,169,910,97 8,999,073,85 72,110,40 538,486,82 2,380,706,18 113,832,01 27,652,04 41,518,50	
Mail Express Other passenger trains Milk Switching Special service train. Other freight train. Water transfer—freight Totals Vater line— Freight Passenger.	3,049,539 96 6,845,234 69 60,728 85 493,234 12 1,766,280 33 94,954 08 108,893 40	252.773.275 89	3, 169, 910, 97 8, 999, 073, 85 72, 110, 40 538, 486, 82 2, 380, 706, 18 113, 832, 01 27, 652, 04 41, 518, 50	
Express. Other passenger trains Milk. Switching. Special service train. Other freight train. Water transfer—freight. Totals Vater line— Freight. Passenger.	6,845,284,69 60,728,85 493,284,12 1,706,280,33 94,954,08 108,893,40	252.773.275 S9	8,999,073 85 72,110 40 538,486 82 2,380,706 18 113,832 01 27,652 04 41,518 50	
Other passenger trains. Milk. Switching. Special service train. Other freight train. Water transfer—freight. Totals Vater line— Freight. Passenger.	69,728,85 493,234,12 1,706,280,33 94,954,05 108,893,40	252.773.275 S9	72, 110 40 538, 486 82 2, 380, 706 18 113, 832 01 27, 652 04 41, 518 50	
Milk Switching Special service train Other freight train Water transfer—freight Vater line— Freight Passenger	493,234 12 1,706,280 33 94,954 08 108,893 40	252,773,275 89	538,486 82 2,380,706 18 113,832 01 27,652 04 41,518 50	
Switching Special service train Other freight train. Water transfer—freight Totals Vater line— Freight Passenger	1,706,280 33 94,954 08 108,893 40	252.773.275 89	2,380,706 18 113,832 01 27,652 04 41,518 50	
Special service train Other freight train Water transfer—freight Totals Vater line— Freight Passenger	94,954 0S 108,893 40	252.773.275 89	113,832 01 27,652 04 41,518 50	
Other freight train Water transfer—freight Totals Vater line— Freight Passenger		252,773,275 89	27,652 04 41,518 50	
Water transfer—freight Totals Vater line— Freight Passenger		252,773,275 89	41,518 50	
Totals Vater line— Freight Passenger		252.773.275 89		
Vater line— FreightPassenger		252,773,275 89		295, 550, 029
FreightPassenger	102 116 -2			
Passenger			0 007 110 77	
	136,443 76		2, 265, 118 77	
	60,058 55		1,841,356 53 3,023 04	
Excess baggage	60.058 55 117 60		1,743 10	
Other passenger service	100 25		17,307 11	
Mail	e =0e 2e		55,957 82	
Express	0,020 00 11 700 00		00,001 02	
Special service	202 752 61		158,804 93	
Other	200,760 01		1001,001 00	
Mail Express Special service Other Totals		418.852 16	4,397,311 30	1
ncidental— Dining and buffet	2,527,322,70		3,026,048 70	1
Hotel and restaurant	527,719 73		542,581 61	
Station, train, etc., privileges	77,898 39		99,875 58	
Parcel room	69,226 65		82,446 02	
Storage—freight	216,963 08		247,132 61	
Storage—baggage	65, 118 58		77,134 48	
Demurrage	729,054 46		1,526,214 72	
Telegraph and telephone	155,057/82		328,295 29	1
Grain elevators	1,120,840 09		1,189,366 97	
Stockyards Rents of buildings, etc	17,844 92		10,26242	
Rents of buildings, etc.	1,625,137 53		1,457,494 70	
Miscellaneous	1,518,168-63		1,820,245 80)
Totals		5,650,352,58	3 ₁	10,407,098
oint facilities, Cr. bal		46,173 3	1,	417,038

Table 9 will afford details with regard to net earnings.

Gross earnings per mile of line:-

875	\$4,053	1911 .			\$7,43
		1912			8,20
885		1913 .			8,76
590		1914.			7,89
895	 2,928	1915.			5,61
900		1916			6,94
		1917			8,05

Gross	earnings	per	revenue	train	mile—all	trains:—

8. I	
$\begin{array}{ccc} 1907. & & \$1 \cdot \$75 \\ 1909. & & 1 \cdot \$16 \\ 1911. & & 2 \cdot 103 \end{array}$	1913. \$2.263 1915. 2.143 1917. 2.683
Freight earnings per ton:—	
$\begin{array}{ccc} 1907. & & \$1 \cdot 472 \\ 1909. & & 1 \cdot 432 \\ 1911. & & 1 \cdot 561 \end{array}$	1913 \$1 · 636 1915 1 · 520 1917 1 · 766
Earnings per passenger:—	
$\begin{array}{cccc} 1907. & & & & & \$1\cdot 219 \\ 1909. & & & & 1\cdot 195 \\ 1911. & & & & 1\cdot 363 \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Freight earnings per freight train mi	le:
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Passenger earnings per passenger tra	in mile:—
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1913. \$1.413 1915. 1.016 1917. 1.160

Gross earnings for years preceding 1916 came from the following sources:—

Gross Earnings.	1910.	1912.	1914.
Passengers Mails Express Baggage, parlour cars, etc. Freight Station and train privileges Telegraphs, rents, etc.	\$ cts. 46,018,879 56 1,799,887 80 4,143,837 52 993,613 63 117,497,604 03 679,061 12 2,823,333 47 173,956,217 13	\$ ets. 56,543,636 60 1,914,720 39 5,294,388 08 1,295,414 59 149,961,140 13 1,086,687 37 3,307,738 63 219,403,752 79	\$ cts. 62,012,296 46 2,500,175 88 6,444,214 02 1,607,516 84 165,753,730 45 1,044,737 28 3,720,868 11 243,083,539 04

Owing to the adoption of entirely new methods of accounting in 1907, it is not practicable to carry comparisons with respect to earnings back of that year. The amounts credited to the several sources of revenue in preceding years, and the ratio they bore to the total, are shown in the following table:—

Year.	Passenger.	Per eent.	Freight.	Per eent.	Mail and Express.	Per cent.	Other Sources.	Per cent.	Total.
	\$		\$		\$		\$		\$
1875 1881 1887 1893 1898 1908	6,410,934 8,223,254 11,867,597 15,087,299 15,662,311 24,862,109 33,392,188	$\begin{array}{c} 29 \cdot 34 \\ 30 \cdot 55 \\ 29 \cdot 12 \\ 26 \cdot 16 \\ 25 \cdot 88 \end{array}$	12,073,570 18,666,982 24,581,047 32,935,028 38,508,175 63,089,448 81,433,115	$66 \cdot 69$ $63 \cdot 28$ $63 \cdot 28$ $64 \cdot 48$ $65 \cdot 67$	946, 159 1, 575, 157 2, 151, 769 2, 732, 004 3, 596, 145	$3 \cdot 37$ $4 \cdot 05$ $4 \cdot 13$ $4 \cdot 59$ $3 \cdot 53$	145, 332 771, 992 1, 868, 298 2, 852, 613 4, 716, 823	0.51 1.98 3.59 4.77 4.91	19, 470, 530 27, 987, 508 38, 841, 609 52, 042, 390 59, 715, 103 96, 064, 520 125, 322, 863

Details with respect to earnings are given in tables 6, 7, and 9 in the body of this report.

OPERATING EXPENSES.

The total operating expenses in 1917 was \$222,890,637.08—an increase for the year of \$42,348.378.10.

Operating expenses were equal to 71.74 per cent of gross earnings.

Per mile of line:—

	8	s
1875	3,138 1905 2,341 1910	 3,904 4,869
1885 1890	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	 4,152
1895	2,050 1917. 2,360	 5 771

Per train mile—all trains:—

		Earnings per train mile.	Expenses per train mile
		\$	8
);)		1.192	0.77
):)		1.282	0.86
)1 .	A CONTRACTOR OF THE CONTRACTOR	1.366	$0 \cdot 9$
)2		1.501	1.0
)'} .		1.591	1 · 1
)4		1.634	1 · 2
)5		1.614	1.2
)6		1.723	1 · 1
)7		1.953	1.3
*		1.869	1.3
99		1.816	1.3
ω		$2 \cdot 036$	1 · 4
11.		$2 \cdot 193$	1.4
[2]		$2 \cdot 173$	1 · 4
[3].		$2 \cdot 263$	1.6
4		2 · 253	1 · 6
15		2.144	1.5
16 .		2.358	1.6
17		2.683	1.9

The distribution of operating expenses in 1916 and 1917 was under the following heads:—

	1916.		. 1917.				
Way and structures Equipment Traffie Transportation—rail line—water line. Miscellaneous operations. General expenses Transportation for investment—Cr. Total	\$ cts. 36,040,945 06 35,822,484 20 5,560,515 12 92,882,661 24 184,824 13 3,279,588 42 6,781,574 19 10,333 38	$\begin{array}{c} 19 \cdot 84 \\ 3 \cdot 08 \\ 51 \cdot 45 \\ 0 \cdot 10 \\ 1 \cdot 81 \\ 3 \cdot 75 \\ 0 \cdot 01 \end{array}$	41, 154, 193, 11 46, 371, 178, 39 6, 236, 810, 91 114, 327, 343, 71 3, 271, 892, 62 3, 962, 543, 94 7, 584, 881, 55	51·29 1·47 1·78 3·40 0·01			

It is impracticable to make accurate comparisons between the foregoing distribution of operating expenses and the figures of preceding years. The facts, however, are valuable, and are as follows:—

Operating Expenses.	1910.			1912.			1914.	
Way and structures	27,035,603 46 26,002,301 30	21 · 59 3 · 63 48 · 94	31,514,6 29,811,3 5,293,6 78,969,3	098 12 510 09 599 75 543 65	$20.90 \\ 19.78 \\ 3.51$	35, 292, 36, 375, 36, 546, 694, 119, 0	226 82 330 87 502 45 566 73	$19 \cdot 71$ $20 \cdot 32$ $3 \cdot 65$ $52 \cdot 58$
						178,975,	255 90	

Details with respect to operating expenses by reporting railways will be found in table 8.

Since special significance attaches to the maintenance of way and structures and to the upkeep of equipment, the following facts are given:—

Year.	Maintenance of Way. Amount.	Mileage.	Amount per Mile of Line.	Year.	Maintenance of Equipment. Amount.	Mileage.	Amount per Mile of Line.
1907 1909 1911 1913 1915 1916 1917	\$ cts. 20,887,091 66 21,153,274 46 29,245,093 22 35,933,322 78 28,762,906 91 36,040,045 06 41,154,193 11	22, 452 24, 104 25, 400 29, 336 35, 582 37, 434	877 58 1,151 38 1,224 92 808 35 962 79	1907. 1909 1911 1913. 1915. 1916. 1917.	8 cts. 21,666,373 08 21,510,303 59 26,127,638 12 28,156,261 08 35,822,484 20 46,371,178 39	24,104 25,400 29,336 35,582 37,434	892 40 1,028 65 1,271 13 791 32 956 95

EQUIPMENT.

Following are the facts with respect to equipment:—

	Number.	Increase.
Locomotives	6,377 $203,499$	126 51 1,885 933

Classification of locomotives:—

Locomotives.	1907.	1909.	1911.	1913.	1915.	1916.	1917.
Passenger. Freight Switching.	2,206	1,056 2,539 384	1,215 2,659 435	1,474 3,011 634			1,389 3,490 747

The reduction in passenger locomotives in 1917 was due to a revision of classification by the Canadian Northern Railway System.

Locomotives and cars:—

Locomotives and cars.	1907.	1909.	1911.	1913.	1914.	1915.	1917.
Locomotives	107,407	117,779	127,158	182,221	201, 190	5, 486 201, 690 6, 326	203,499

Passenger cars:—

Cars in Passenger service.	1907.	1909.	1911.	1913.	1915.	1917.
First class	1,300	1,560	1,601	2,058	2,213	2,168
Second class	472	471	517	627	632	687
Combination	405	429	434	492	486	418
Emigrant .	272	317	357	437	509	534
Dining	105	127	137	176	215	216
Parlour	63	60	80	117	138	155
Sleeping	212	261	306	440	538	562
Paggage, express, and postal	782	926	1,015	1,275	1,457	1,462
Other	31	41	36	74	138	175
Totals	3,642	4,192	4,513	5.696	6,326	6,377

Freight cars:--

Cars in freight service.	1907.	1909.	1911.	1913.	1915.	1917.
Box Flat Stock Coal. Tank Refrigerator	68, 149 20, 477 4, 817 10, 358 132 1, 917 1, 557	74, 477 21, 158 5, 518 11, 721 197 2, 466 2, 212	79,412 21,069 5,809 13,768 277 2,807 4,016	128, 511 25, 177 6, 745 14, 746 479 3, 911 2, 712	145,307 25,290 7,553 15,703 560 4,713 2,556	145, 290 25, 322 7, 883 15, 649 731 5, 234 3, 390
${\rm Totals} \;\; \dots \dots \;\; .$	107,407	117,779	127, 158	182,221	201,690	203,499

Capacity of freight cars:—

	190	7.	190	9.	191	1.	1913. *	
	No.	Capacity in tons.	No.	Capacity in tons.	No.	Capacity in tons.	No.	Capacity in tons.
Box. Flat. Stock. Coal. Tank. Refrigerator. Other	$\begin{array}{r} 4,731 \\ 10,060 \\ 132 \end{array}$	$\begin{array}{c} 535, 167 \\ 122, 550 \\ 291, 638 \\ 2, 632 \end{array}$	21, 220 5, 561 11, 721 197 2, 465	584,455 $150,800$ $379,981$ $4,012$	21,669	$\begin{array}{c} 2,343,920\\600,970\\161,765\\508,215\\7,490\\81,815\\102,105\end{array}$	25, 117 $6, 475$ $14, 746$ 479 $3, 911$	763,665 193,975 567,210 15,785 115,455
Totals,	105, 540	2,908,903	117,916	3,385,313	127, 158	3,806,280	182,221	5,856,885

Capacity of freight cars—Concluded.

	1	915.	1917.		
	No.	Capacity in tons.	No.	Capacity in tons.	
Box. Flat. Stock. Coal. Tank. Refrigerator. Other.	145, 307 25, 315 7, 638 15, 703 463 4, 713 2, 551	798, 671 226, 190 611, 020 14, 604 139, 350	25,322 7,883 15,649 731	232, 185 538, 609 25, 13- 155, 510	
Totals	201,690	6,731,265	203,499	6,798,450	

The changes in 1916 and 1917 were few and unimportant. The facts for prior years, as respects classes, are given below:—

Class.	Capacity.	1908.	1910.	1912.	1914.
	Pounds.				
I	10,000	771	393	77	
I	20,000	1,995	1,245	742	45
II	30,000	3,227	2,412	3,277	3, 11
V		25,855	20,858	14,695	
·	50,000	1,135	1,029	3,237	82
iI	60,000	69,416	76,610	89,512	
VII	70,000		217	292	
<u> </u>	80,000	. 9,790	11,927	21,951	63, 13
X					
<u> </u>		3,448	-,		-,
<u>Ţ</u>	100,000				
XII					
All over	120,000				
Total		115,867	119,713	140.010	904 10

Locomotives and cars per 1,000 miles of line:—

P. W.	Per 1,000 miles of line.							
Rolling stock.	1907.	1909.	1911.	1913.	1915.	1917.		
Locomotives	156 4, 783 162	165 4,887 174	166 5,006 177	$\begin{array}{c} 175 \\ 6,211 \\ 194 \end{array}$	154 5,669 178	$5, 272 \\ 5, 272 \\ 165$		

TRAIN, CAR, AND LOCOMOTIVE MILEAGE.

Revenue train mileage:—

	1907.	1909.	1911.	1913.	1915.	1917.
Passenger trains. Freight trains. Mixed trains. Special trains.	3.971.414	32, 295, 730 40, 304, 906 7, 061, 580	36, 985, 911 46, 220, 813 6, 277, 468 232, 341		41,648,243 43,661,573 7,736,391 172,272	62,863,724 8,746,811
Total	75, 115, 765	79,662,216	75, 716, 533	113, 437, 208	93, 218, 479	115, 797, 100

Non-revenue trains had a mileage of 3,627,901 in 1917.

Ratio of train mileage:-

The ratio which each class of train mileage in the above table bore to the total train mileage in alternate year since 1907 was as follows:—

					1		
		1908.	1910.	1912.	1914.	1916.	1917.
Passenger trains Freight trains Mixed trains Special trains		40·23 51·47 7·90	$\begin{array}{c} 40 \cdot 00 \\ 51 \cdot 21 \\ 7 \cdot 54 \\ 0 \cdot 25 \end{array}$	$40 \cdot 06$ $53 \cdot 15$ $6 \cdot 41$ $0 \cdot 38$	$\begin{array}{c} 41 \cdot 91 \\ 51 \cdot 21 \\ 6 \cdot 60 \\ 0 \cdot 28 \end{array}$	38·24 54·08 7·66 0·10	$ \begin{array}{r} 38 \cdot 07 \\ 54 \cdot 29 \\ 7 \cdot 55 \\ 0 \cdot 09 \end{array} $

Following is the record of train mileage since 1875:—

Year.	Passenger	Freight	Mixed	Special	Total train	Engine
	Trains.	Trains.	Trains.	Trains.	Mileage.	Mileage.
1875 1880 1895 1896 1895 1906 1905 1910 1915 1916 1917	5, 206, 353 7, 312, 168 9, 511, 455 14, 362, 879 15, 362, 276 20, 922, 098 25, 428, 618 35, 022, 541 41, 648, 243 42, 449, 022 44, 083, 575	10, 910, 181 10, 775, 380, 16, 382, 553 22, 428, 249 19, 939, 699 24, 662, 906 43, 742, 668 43, 661, 573 60, 036, 984 62, 863, 724	4,157,292	202, 592 172, 272 90, 811 102, 990	22, 427, 449 30, 623, 689 41, 849, 329 40, 661, 890 55, 177, 871 65, 934, 114 85, 409, 241 93, 218, 479 111, 075, 890	

For the purposes of all calculations the mileage of freight trains includes the mileage of mixed trains. The same is true of all passenger train mileage.

The record of car mileage since the facts were first available is as follows:—

Freight Car Mileage	1910	1912 .	1914	1916	1917
Loaded freight cars Empty freight cars Caboose cars	910, \$58, 711 280, 255, 329 45, 367, 459	310,974,528	413, 463, 359		561, 127, 805
Total	1, 236, 481, 409	1,469,386,162	1,618,549.602	1,987,812,189	2,030,408,074

Passenger Car Mileage.	1913	1915	1917
Passenger cars. Sleeping, parlor, etc. Other cars.	153, 301, 893 52, 738, 619 92, 977, 602	53, 632, 104	59,489,362
Total	299,018,114	266, 683, 338	303, 325, 539

Following is a comparison of locomotive mileage covering the past ten years:—

Class of locomotive.	1908.	1910.	1912.	1914.	1916.	1917.
Freight Passenger Mixed Switching	Miles. 42, 291, 082 30, 504, 171 7, 410, 971 15, 941, 179 5, 474, 838	34,758,088 8,211,350 15,581,077	$\begin{array}{c} 40,944,058 \\ 7,742,514 \\ 21,159,394 \end{array}$	10,276,245	$\begin{array}{c} 42,215,551 \\ 7,610,281 \\ 23,586,669 \end{array}$	Miles. 68, 983, 629 44, 005, 835 8, 612, 666 28, 509, 069 153, 099
Total	100,622,241	106,019,475	127,401,480	137, 128, 756	144,966,448	150, 264, 298

FUEL CONSUMED BY LOCOMOTIVES.

Fuel consumed, ——— tons:—

·					
Class of Locomotives.	1908.	1910.	1914.	1916.	1917.
FreightPassenger.	Tons. 3,318,283 1,446,919	Tons. 3,597,541 1,636,454	Tons. 4,820,646 2,161,144	Tons. 5,273,546 1,938,619	Tons. 5,675,606 2,127,621
Mixed Switching Construction and special	350, 921 598, 092 256, 576	388, 693 620, 303 9, 063	559, 115 999, 457 7, 313	$\begin{array}{c} 421,425 \\ 1,053,739 \\ 307,794 \end{array}$	524, 917 1, 463, 820 338, 835
Total	5,970,791	6, 252, 054	8,547,675	8,995,123	10, 130, 799

Cost per ton:—

	1915. \$ 3 02 1916. 3 11 1917. 3 63
--	---

Volume and cost of fuel:—

Year.	Tons.	Cost.	
907. 909. 911. 913. 915. 917.	5,608,954 6,832,108 6,800,648 9,263,984 6,903,418 10,130,799	\$ 15,137,50 17,544,44 20,182,19 28,426,35 20,889 05 36,784,64	

Fuel analysis for 1917:—

Class of Locomotive.	Coal.		Wood.		Other	Fuel.	Total.	Miles	
	Anthra- Bitu- cite. minous.		Hard. Soft. Oil.		Oil. Charcoal			Run.	
	Tons.	Tons.	Cords.	Cords.	Gallons.	Bushels.	Tons.		
Freight Passenger Mixed Switching Special	2,700 1,194 1,006	2,026,452	360 240 125 100	$20,351 \\ 10.113 \\ 4.643 \\ 7,916 \\ 1,805$	31,460,382 15,859,198 995,070 3,871,171 1,285,448	$\begin{array}{c} 62,130 \\ 39,812 \\ 3,965 \\ 20,747 \\ 207 \end{array}$	$\begin{array}{c} 2.127,621 \\ 524,917 \\ 1,463,820 \end{array}$	68,983,629 44,005,835 8,612,666 28,509,069 153,099	
Total.	4,900	9,783,524	825	44,828	53, 471, 269	126,861	10, 130, 799	150, 264, 298	

Fuel consumed per 100 locomotive miles:—

	Fuel Co	nsumed j	per 100 L	ocomotiv	re Miles.
Class of Locomotive.	1909.	1911.	1913.	1915.	1917.
	Tons.	Tons.	Tons.	Tons.	Tons.
Freight Passenger Mixed Switching Construction or special	8·85 5·68 5·67 5·01 4·14	$\begin{array}{c c} 7 \cdot 78 \\ 4 \cdot 91 \\ 5 \cdot 10 \\ 4 \cdot 14 \\ 4 \cdot 48 \end{array}$	8-31 4-89 5-59 4-47 5-46	7.63 4.85 5.01 4.29 2.49	$ \begin{array}{r} 8 \cdot 23 \\ 4 \cdot 83 \\ 6 \cdot 09 \\ 5 \cdot 13 \\ 2 \cdot 18 \end{array} $

Cost per 100 locomotive miles:—

	Cost of Fuel per 100 Locomotive Miles.					
Class of Locomotive.	1909.	1911.	1913.	1915.	1917.	
Freight Passenger. Mixed. Switching Construction or special.	\$ 22 · 65 14 · 54 14 · 51 12 · 82 10 · 59	\$ 22.17 14.28 14.84 12.04 13.03	\$ 25.51 15.01 17.16 13.72 16.76	\$ 23 · 04 14 · 64 15 · 13 12 · 95 7 · 51	\$ 29.87 17.53 22.10 18.62 7.91	

ACCIDENTS.

Killed and injured:—

-	Movemen	t of trains.	Non-movement of trains.		
	Killed.	Injured.	Killed.	Injured.	
Passengers Employees. Trespassers Non-trespassers Postal clerks and others.	$\begin{array}{c} 24\\177\\150\\64\\4\end{array}$	410 1,909 124 193 46	32	28 2,681	
Total	419	2,682	33	2,747	

	Killed.				Injured.					
	1909.	1911.	1913.	1914.	1917.	1909.	1911.	1913.	1915.	1917.
Fassengers Employees Trespassers Non-trespassers Fostal clerks, etc. Other persons	36 182 190 67	28 202 185 48 2	38 298 309 63 2	17 102 168 73	24 177 150 64 4	281 897 95 89 25	288 1,314 154 135 15	650 1,834 284 171 27	304 946 147 167 14	410 1,909 124 193 46
Total	478	465	710	360	419	1,404	1,906	2,966	1,578	2,682

Accidents to passengers:—

Causes—Accidents to Passengers.	Killed.					Injured.				
	1909.	1911.	1913.	1915.	1917.	1909.	1911.	1913.	1915.	1917.
Collisions Derailments Parting of trains.	6	4	3 15	1	6	83 99	43 88	108 347	90 53 2	88 129 7
Falling from trains, etc. Jumping on or off. Struck at highways.	11 14	10 11	8 7 1	7 4	5 7	11 57	34 67 4	49 72 3	30 62	33 56
" stations " other points Other causes	1 2	1	1 2 1	2 1 2	$\begin{array}{c} 1\\ \frac{2}{3} \end{array}$	5 1 25	50	6 3 62	3 4 59	14 1 81
Total	36	28	38	17	24	281	288	650	304	410

Accidents to employees:—

Causes—Accidents to Employees.	Killed.					Injured.				
Causes—Accidents to Employees.	1909.	1911.	1913.	1915.	1917.	1909.	1911.	1913.	1915.	1917.
Coupling or uncoupling	18 40 15	13 34 10	27 40 22	9 11 9	16 15 13	125 86 65 9	191 119 67	182 210 88 16	78 74 53 10	187 137 72 43
Locomotive or cars breaking down Falling from trains or cars Jumping on or off Struck by trains, etc. Overhead obstructions	$\frac{1}{28}$	26 15 72 3 29	45 22 97 1 43	1 17 3 44	$ \begin{array}{c} 1 \\ 30 \\ 12 \\ 75 \\ 4 \\ 11 \end{array} $	6 142 95 88 11 270	12 253 141 121 17 380	13 366 180 136 31 612	17 182 120 70 28 314	30 311 233 115 ; 2 749
Other causes	182	202	298	102	177		1,314		946	1,909

Classes of employees:—

Employees.	Killed.					Injured.				
Employees.	1909.	1911.	1913.	1915.	1917.	1909.	1911.	1913.	1915.	1917.
Trainmen	113 37 3 2	101 44 6 5	167 59 8 9	50 24 9	102 39 . 4 6	693 71 27 10	972 158 11 6	1,277 245 41 39	628 95 26 13	1,439 135 34 28
Shopmen Telegraph employees Other employees	$\frac{7}{20}$	18 3 25	15 40	6 13	10 16	$\frac{16}{3}$	64 4 99	$\begin{array}{c} 59 \\ 11 \\ 162 \end{array}$	59 3 122	93 7 173
Total	182	202	298	102	177	897	1.314	1,834	946	1,909

From other causes than the movement of trains:—

	Killed.			Injured.		
	1913.	1915.	1917.	1913.	1915.	1917.
Passengers Trackmen, etc.	3 6	4	s	17 488	26 429	22 653
Stationmen. Shopmen. Other employees.		1 8 6	7 17	147 472 466 16	32 574 488 34	371 952 711 38
Other persons Total	32	19	33	1,606	1,583	2,747

The record of accidents from the movement of trains, since 1887, is as follows:—

	Passe	engers.	Employees.		Oth	ners.	То	tal.	Passen	gers.
Years.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	One killed in every	One injured in every
1888 1890 1895 1900 1905 1910 1911 1912 1913 1914 1915 1916 1917	20 11 9 7 35 60 28 47 38 25 17 20 24	70 52 47 131 244 270 288 485 402 304 402 304 410	107 83 51 123 206 214 202 215 298 200 108 149 177	619 682 489 941 920 926 1,314 1,606 1,834 1,475 1,578 1,468 1,909	104 124 127 195 227 250 235 283 374 340 241 268 218	86 101 122 245 193 245 304 346 482 410 328 299 363	213 218 187 325 468 524 465 545 710 565 366 366 437 419	775 835 658 1,303 1,537 1,441 1,906 2,437 2,966 2,287 1,578 2,058 2,058 2,682	534, 931 1, 165, 569 1, 554, 175 3, 071, 453 722, 535 598, 243 1, 324, 919 872, 855 1, 216, 599 1, 868, 091 2, 724, 825 2, 451, 383 2, 281, 237	152,837 246,562 297,608 164,123 103,624 132,94 124,489 84,792 71,124 116,175 140,369 168,480

ACCIDENTS AT HIGHWAY CROSSINGS.

Class of Highway Crossing.	Killed.					Injured.				
	1909.	1911.	1913.	1915.	1917.	1909.	1911.	1913.	1915.	1917.
Urban	33	22	32	30	29	41	70	69	68	88
Rural	4 3	14	31	36	29	31	38	35	44	56
Total	76	36	63	66	. 58	72	108	104	112	144

HIGHWAY CROSSINGS.

Protected and unprotected crossings:—

Year.	Protected (Crossings.	Unprotected Crossings.		
rear.	Urban.	Rural.	Urban.	Rural.	
1909. 1910. 1911. 1912. 1913. 1914. 1915. 1916.	587 630 692 788 844 894 948 1,003	492 557 661 680 827 823 1,032 1,090	1,767 1,902 2,026 3,039 2,658 3,493 2,759 2,867 3,886	15, 426 16, 923 16, 655 17, 268 18, 681 20, 642 20, 105 21, 265 23, 379	

Form of protection:—

	Rural.	Urban.
By gates By bridges By subways By electric bells, etc.	301 429 271	202 190 293 187
By watchmen	1,085	987

Protected crossings in preceding years:—

Crossings—How Protected.	19	11.	19	13.	1916.	
	Rural.	Urban.	Rural.	Urban.	Rural.	Urban.
By gates By bridges. By subways By bells By watchmen	28 232 269 104 19	153 128 182 115 123	71 274 276 179 27	178 158 227 155 126	88 312 407 259 24	189 208 290 187 129
Total	652	701	827	844	1,090	1,003

RAILWAY EMPLOYEES.

Numbers:— 1911. 141, 224 1912. 155, 901 1913. 178, 652	1914. 159, 142 1915. 124, 142 1916. 144, 770 1917. 146, 175
Compensation:— 1911.	1914 \$111,762,972 1915 90,215,727 1916 104,300,647 1917 129,626,187

Relating to earnings and operating expenses:—

Year.	Salaries and wages.	Ratio to gross earnings.	Ratio to operating expenses.
1907 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917	\$ 58,719,493 60,376,607 63,216,662 67,167,793 74,613,738 94,237,623 115,749,825 111,762,972 90,215,727 104,300,647 129,626,187	40·01 41·09 43·58 38·61 39·53 39·79 45·09 45·97 45·15 39·82 41·85	56·70 56·26 60·43 55·78 56·94 57·92 63·59 62·43 61·09 57·95 58·34

	1	I.			
No.	Compensation.	Number of Employees.	Hours on Duty.	Compensation.	Average per Hour.
				\$ ets.	
1	General officers	777	2,314,903	2,910,171 14	
$\frac{2}{3}$	Division officers Clerks	1,013 $12,705$	3,272,496 $34,153,764$	1,887,088 63 9,555,812 52	
4	Messengers and attendants	369	1,392,469	163,002 82	28·0 11·7
$\frac{5}{6}$	Asst. engineers and draftsman	451 648	1,242,447 $2,008,757$	$\frac{441,630}{713,642}$ 84	35.5
7	Section foremen	5,832	19, 299, 840	5,397,783 05	$\begin{array}{c} 35.5 \\ 27.9 \end{array}$
$\frac{8}{9}$	General foremen, M.E. department	184 1,298	534,926 $4,066,162$	260,703,73	48.7
10	Machinists	3,922	10,072,052	1,568,447,59 4,251,507,54	$ \begin{array}{r} 38.5 \\ 42.2 \end{array} $
11 12	Boiler makers	715 529	2,141,920	843,804 00	39 - 4
13	Masons and bricklayers.	95	1,475,482 $207,924$	535,100 33 72,812 03	$25 \cdot 0$ $35 \cdot 0$
14	Structural iron workers	58	127,324	38,916 79	30.5
15 16	Carpenters Painters and upholsterers	4,981 1,411	13, 175, 477 3, 536, 731	4,015,516 96 1,048,862 04	30·4 29·6
17	Electricians	328	957,421	309,338 75	32.3
18 19	Air-brake men Car inspectors	210 870	660.886 $2,912,976$	255,766 60	38.7
	Car repairers	3,343	9,608,956	869,889 08 $2,527,250 87$	$ \begin{array}{r} 29.8 \\ 26.3 \end{array} $
21	Other skilled labour	5,663	16,334,439	4,840,634 26	$29 \cdot 6$
22 23	M'cs. helpers and apprentices	6,544 19,728	17,722,913 $58,694,748$	4,214,039 01 12,104.867 66	$23 \cdot 7$ $20 \cdot 6$
24	Other unskilled labour	11,675	33,864,036	7,447,231 24	$21 \cdot 9$
25 26	Foremen of construction gangs and WT. Other men in construction gangs and WT.	$\frac{205}{2.844}$	603,913 $7,992,569$	$219,613 77 \\ 1,701,583 07$	36.3
27	Travelling agents and solicitors	335	993,348	470,223 20	$21 \cdot 2 \\ 47 \cdot 3$
28	Employees in outside agencies	130	352,616	196,552 58	55.7
$\frac{29}{30}$	Other traffic employees Train despatchers and directors	$\frac{44}{514}$	124.654 $1,506,286$	48,531 20 $938,421 26$	$ \begin{array}{r} 38 \cdot 8 \\ 62 \cdot 3 \end{array} $
31	Telegraph, telephone and block operators	1,601	5,283,017	1,632,013 20	30.8
32 33	Telegraph, telephone operating inter'ks Levermen (non-telegraphers)	49 402	183,811 $1,602,088$	49,459 29 289,644 59	25.8
34	Telegraphers—clerks	491	1,613,128	458,583 16	$\frac{18 \cdot 7}{28 \cdot 4}$
35 36	Agent—telegraphers	2,818	9,531,074	3,035,653 46	31.8
37	Station agents (non-telegraphers) Station masters and assistants	703 223	2,330,131 $638,615$	752,375 58 154,990 45	$32 \cdot 2 \\ 24 \cdot 3$
38	Station service	9,704	30,906,051	6,965,185 84	$22 \cdot 5$
39 40	Yardmasters	233 181	797,942 $699,250$	365,709 18 233,103 22	$45.8 \\ 33.3$
41	Yard engineers and motormen	995	3,802,909	1,606,077 34	42.2
42 43	Yard firemen and helpers Yard conductors	1,033 1,055	3,766,478 3,824,310	995,500 40	$\frac{26 \cdot 4}{38 \cdot 9}$
44	Yard brakemen	2,142	7, 122, 205	1,490,756,79 2,673,645,66	37.5
45	Yard switch tenders		1,317,924	265, 983 65	20 · 1
46 47	Other yard employees	272 717	942,436 $1,827,762$	154,267 63 519,948 55	$ \begin{array}{r} 16 \cdot 3 \\ 28 \cdot 4 \end{array} $
48	Enginehouse watchmen and labourers	4,179	14,260,503	3,025,146 30	21.2
49 50	Road freight engineers	$\frac{3,107}{3,373}$	11,084,880 11,170,706	5,974,136 09 $4,070,205 03$	$53.8 \\ 36.4$
51	Road freight conductors	2,637	9,615,946	4,644,495 98	48.3
52	Road freight brakemen and flagmen	5,348	18, 908, 229	6,141,295 28	32 · 4
53 54	Road passenger engineers Road passenger firemen and helpers	1,085 1,082	2,958,553 $2,918,048$	2,038,021 16 1,307,259 22	68 · 8 41 · 3
55	Road passenger conductors	833	2,429,858	1,431,332 24	$58 \cdot 9$
56 57	Road passenger baggagemen	673 952	1,962,515 $2,596,284$	736,296 70 966,056 93	$ \begin{array}{r} 37.5 \\ 37.2 \end{array} $
58	Other road trainmen	83	230,854	68,376 78	29.6
59 60	Crossing flagmen and gatemen	513	1,958,459	286,651 55	14.6
61	Drawbridge operators Floating—equipment employees	$\frac{113}{2,082}$	407,262 $10,509,397$	77,019 58 1,401,500 31	18·9 13·3
62	Express—service employees	249	881,500	151,266 66	17 · 1
	Policemen and watchmen	$\frac{610}{1,601}$	2,255,477 $4,657,164$	494,988 00 989,963 99	$21.9 \\ 21.3$
	All other employees	7,247	22,931,332	4,330,500 57	18.8
	Total	146,175	449,278,533	129,626,187 24	

In 1917, for the first time, the unit of compensation was made the hour. The general classification was also changed and elaborated. This new basis makes it impracticable to compare the results of 1917 with those of preceding years. Therefore, the facts prior to 1917 are not given in this report.

RAILWAY TIES.

The consumption of ties, apart from construction work on new mileage, has been as follows:—

		Number	of Ties.		Cost of Ties.			
Class.	1912.	1914.	1916.	1917.	1912.	1914.	1916.	1917.
					\$	\$	8	\$
Cedar	875,561	939.014	834, 276	631,673	378.236	411,962	392,569	293,659
Oak	314,579		364,372	460,903		415,837	259,334	334,210
Hemlock	268,044	593,796	157,871	197,118		234,841		73,281
Spruce	13,635		98,857;			48,794		54,633
Fir	15,656		58,342,			34,007	22,689	23,220
Tamarack	1,064,297		245,790,			1,385,395		379,608
Pine	437,493		368,347			201,633	182,610	634,373
Chestnut	36,899		46,170				26,269	76,788
Soft wood	498,404							5,338
Hardwood	24,506		14,888	10,776		8,810		2,694
Treated	157,105		3,084,234			1,515,709		1,624,436
Unclassified	3,642,957	214,929	1.090,892	1,918,092	1,436,555	79,211	480,602	865,854
Total	7,349,136	10, 426, 583	6, 386, 464	8,852,861	3,287,683	5, 184, 308	3, 194, 472	4,368,124

Average cost of ties:—

Class.	Average Cost per Tie.				
	1911.	1913.	1915.	1917.	
	ets.	cts.	ets.	cts.	
'edar	$42 \cdot 9$	45.0	$49 \cdot 9$	46.	
2ak	$67 \cdot 2$	61.9	82.6	72	
Iemloek	29.6	39.4	39.0	37	
pruce	$\frac{23 \cdot 5}{30 \cdot 0}$	30.4	$\frac{22 \cdot 4}{32 \cdot 6}$	37	
ir	41.3	41.8	40.4	46	
amarack	6543	52.6	56.3	48	
ine	$62 \cdot 3$	63.0	64.8	57	
oft wood.	30.0	34 · 4	51.8	46	
Iardwood	28.2	23.3	$56 \cdot 9$	25	
reated		85.6	$52 \cdot 2$	52	
Inclassified	42.5	33.6	$37 \cdot 4$	45	
Total	43.8	47.8	53 · 7	49	

TAXATION OF RAILWAYS.

The tax bill of Canadian Railways, by provinces, is shown in the following summary:—

Provincial Tax.	Municipal Tax.	Total Tax.	
\$ cts.	\$ cts.	\$ ets.	
Scotia 50 00 rrunswick 53,690 00 127,009 99 50 1,102,227 69 5a 299,060 53 5a 113,829 77 6hewan 82,785 00 Columbia 141,494 20 Territory 6,805 27 e Canada 275,928 49	5,050 06 532,039 60 1,045,913 43 97,863 99 75,982 80 168,790 68 184,628 31 40,635 35	396, 924 52 189, 812 57 251, 575 68 326, 122 51 6, 805 27 316, 563 84	
	19	40,635 35	

Taxation in previous years:—

Province.	1911.		1913.	1915.	
	\$	cts.	\$ ets.	\$ cts.	
Nova Scotia.	648	70	742 24	2,163 06	
New Brunswick		2 16			
Prince Edward Island		00			
Quebec	372,91		520,093 24		
Ontario	790,280				
Manitoba	154,783				
Alberta	90,783				
Saskatchewan	79,019		73,284 28		
British Columbia	196, 97				
Yukon	5,89			118,636 59	
Undistributed	90,466				
Outside of Canada	173,089	68	270,954 58	180,735 11	
Total	1,955,74	58	2,444,960 68	3,049,727 62	

DESPATCHING BY TELEPHONE.

The situation with respect to despatching is shown in the following comparative statement of facts as reported:—

	1915.	1916	1917
	miles of	miles of	miles of
	line.	line.	line.
By telegraph By telephone By telegraph and telephone	19,934	22,473	21,581
	6,189	8,797	8,456
	7,530	2,937	7,923

ELECTRIC RAILWAYS.

MILEAGE.

· First track mileage:—

01	*674 · 58	1909	 988.9
	$557 \cdot 59$	1910	 $1,047 \cdot 0$
03	$759 \cdot 36$	1911	 $1,223 \cdot 7$
	$766 \cdot 50$	1912	 $1,308 \cdot 1$
05	$793 \cdot 12$	1913	$1,356 \cdot 0$
06		1914	 $1.560 \cdot 3$
		1915	1,590.2
08		1916	$1,724 \cdot 1$
03		1917	 $1.743 \cdot$

^{*}Including some second track.

Analysis of mileage:-

Length of Tracks.	1912.	1914.	1916.	1917.
Length of first main track Length of second main track Total length of main track Length of sidings and turnouts Total, computed as single track	120.84	$338 \cdot 91$ $1,899 \cdot 73$	$1,724 \cdot 71$ $276 \cdot 52$ $2,059 \cdot 45$ $189 \cdot 12$	Miles. 1,743·54 345·72 2,089·26 188·70 2,277·96

Table 1, following steam railways, will afford information in detail with respect to mileage.

CAPITALIZATION.

Stocks and funded debt:—

Year.	Stocks.	Funded Debt.	Total.
	S	S	\$
907	43, 491, 746	31, 166, 976	74,658,72
908	50, 295, 266	37, 114, 619	87,409,88
009	51,946,433	39,658,556	91,604,9
910	58,653,826	43, 391, 153	102,044,9
011	62, 251, 203	49, 281, 144	111,532,3
012	70,829, 148	52.0.2.828	122,841,9
013	62,079,767	79, 155, 864	141, 235, 6
014	66, 311, 098	81, 284, 244	147,595,3
15	66,696,675	83, 647, 327	150, 344, 0
916	67,738,275	87, 157, 309	154, 895, 5
017	70,606,520	90,628,219	161, 234, 7

Details will be found in table 2. It may be explained, however, that the foregoing capitalization does not include \$493,346 of cash aid given to electric railways by governments and municipalities.

INCOME ACCOUNT.

Earnings and Income— Gross earnings from operation. Operating expenses. Gross corporate income. Miscellaneous income.	\$30,237,663 5 20,098,634 3	4 5 -\$10,139,029 2,292,200	19 76
Total corporate income		\$12,431,229	95
Deductions from Income— Taxes Interest—funded debt "floating debt Other deductions.	2,512,028 7 2,363,626 9	9 5	
Total deductions		. 7,552,368	55
Total net income		\$ 4,878,861	40
Disposal of Net Income— Reserves, etc Dividends	\$ 1,285,654 2 2,468,686 6	2 1	
Total		3,754,340	83
Surplus		\$ 1,124,520	57

EARNINGS AND OPERATING EXPENSES.

Gross earnings in 1917 aggregated $\$30,\!237,\!663.54,$ as compared with $\$27,\!416,\!284.60$ in 1916.

Operating expenses amounted to \$20,098,634.35, as against \$18,099,905.65 in 1916.

The ratio of operating expenses to gross earnings was $66 \cdot 47$. In 1916 it was $67 \cdot 24$.

Gross earnings, during the past three years, came from the following sources:—

		1914.		191	1916.		1917.	
		\$	cts.	s	e	ts.	s	ets
Car earnings— Passengers Freight. Mails and express Other car earnings.	1,1	81,3 23,9 84,5 05,1	09 5 3 15 13	1,218, 112		$\frac{88}{43}$	132,40	19 60 01 40
Miscellaneous earnings— Advertising Rent of land and buildings. Rent of tracks. Rent of equipment. Sale of power. Other miscellaneous earnings.		82,9 22,0	60 87 51 32 38 41 05 62 71 67	89, 24, 19, 21, 59,	761 198 608 450 358 325 816	97 34 83 86 27	29,766,30 89,97 30,94 22,10 24,77 80,26 223,30	72 70 42 29 90 97 76 64 35 22
Total miscellaneous earnings Gross earnings undistributed		$\frac{871,4}{824,6}$		403, 6,609,	758 765		471,35	57 94
Gross earnings from operation	29,6	91,0	07 29	27,416,	284	60	30,237,66	33 5

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Since 1901 the record of gross earnings is as follows:—

Year.	Gross Earnings.	Year.	Gross Earnings.
1904	\$ 5,768,283 6,486,438 7,233,677 8,452,609 9,357,125 10,966,871 12,630,430 14,007,049 14,611,484	1910 1911 1912 1913 1914 1915 1916 1917	\$ 17,100,789 20,356,952 23,499,250 28,216,111 29,691,607 26,922,900 27,416,285 30,237,664

Following is a statement of gross car earnings, and the sources thereof, for the past eleven years:—

Year.	Passengers.	Freight.	Mail, etc.	Other.	Total.
1007	\$	8	\$	\$	\$
1907	12,013,421	344, 367	41,951	233, 190	12,630,430
1908	13,233,724	346,021	54,883	372,421	14,007,049
1909	14,080,755	386,092	110,452	34, 185	14,611,48
1910	16, 125, 945	575,537	68,604	51,241	16,821,37
1911	19,130,376	744,179	88,233	100,930	20,063,71
1912	22,007,750	1,025,372	78.819	67,022	23,499,25
1913	*19,794,400	1,211,871	72,516	85,793	21, 164, 58
1914	*21,181,328	1,123,910	84,515	105, 162	22, 494, 91
1915	*18,879,689	982.041	79,696	82,672	20,024,09
916	*18.937,328	1.218,764	112,309	134,360	20,402,76
1917	27,621,582	1.547.920	132,402	464, 402	29,766,30

^{*}Omit facts relating to Montreal Tramways Co.

Tables 4 and 5 will afford details with respect to gross earnings and operating expenses.

Following was the distribution of operating expenses in 1917, with a comparison for 1914, 1915 and 1916:—

Operating Expenses.	1914.	1915.	1916.	1917.
Maintenance of way and structures. Maintenance of equipment. Operation of power plant. Operation of cars. General. Total.	$\begin{array}{r} 7,323,842 \ 67 \\ 2,031,646 \ 14 \\ \hline \end{array}$	1,062,973 61 1,572,889 24 2,848,063 13 7,109,405 70 1,824,514 06	984,627 53 1,386,227 87 2,921,725 58 6,929,133 37 2,171,138 30	1,209,900 62 1,646,611 02 3,012,809 71 7,581,389 37

^{*}Items lacking for \$4,082,664.27. †Item lacking for \$3,713,996.44. ‡Item lacking for \$3,707,053.00. \$Items lacking for \$4,601,771.84.

Following is a complete statement showing the various items which made up operating expenses in 1917 and the years 1914 and 1916.

	1914.		1916.		1917.	
	s	cts.	\$	cts.	s	ets
Maintenance of way and structures—				- 1.0.		CC
Track and roadway	854,798		727, 14		869,6	
Electric line Buildings and fixtures . Maintenance and equipment— Steam plant	221,974		208,00		275, 4	
Buildings and fixtures.	92,836	93	49,47	7 10	54,7	75 3
Maintenance and equipment—	70 107	40	00.70	- 00		
Steam plant	73, 167		32,79		25,8	
Electric plant	175,834		44,08		56,3	
Cars Electric equipment of ears	823, 583 513, 016		665,44		781.7	
Missellers and assistant	102,358		443,44		575,3	
Miscellaneous equipment	74,825		80,57 $119,88$		126, 5	
Miscellaneous shop expenses Transportation—Operation of power plant—	14,820	4.4	119,55	5 12	80,6	19 7
Power plant wages.	185, 254	07	200.41	7 07	169.4	79 e
Fuel for power			84, 17		65, 8	
Water for power	16,754		12.87		12.2	
Lubricants and waste for power plant.	5, 198		2,05			\$7 0:
Miscellaneous supplies and expenses.	83,214		56, 15		69, 7	
Hired power.	2,333,009		2.566.05		2.691.8	
Transportation—Operation of cars—		00	2, 000.00	, 00	2,001,0	01 0
Transportation—Operation of cars— Superintendence	380, 309	53	422,986) 44	471.5	38 2
Wages of conductors	2,662,486		2,498,86		2,702,3	
Wages of conductors	2,617,373		2,483,270		2,700,3	
Wages, miscellaneous car service	273, 273		446,82		233, 5	
Wages, car house employees.	653, 919		277, 160		309, 9	
Car service supplies	114,546		88,61		105, 4	
Car service supplies Miscellaneous car service expenses	320, 344		352,096		648,4	
Hired equipment	127, 853		121.92		171, 2	83 9
Cleaning and sanding track	69,852		55, 280		73, 5	
Removal of snow and ice	103,882		182,119		164.8	
General—						
Salaries of general officers	379,298	16	259,453	3 88	281,8	91 18
Salaries of clerks. Printing and stationery	463,984	74	387,880		398,9	85 7
Printing and stationery	43,769	39	62,27	7 31	58,8	39 1:
MISCEHADEOUS OFFICE EXDENSES	72,859	36	58,959		58,9	00 - 29
Store expenses	33, 253	11	43,859	11	44,9	
Stable expenses	31,314		46, 97		36,5	
Advertising and attractions	30, 535		46,288		61,8	
Miseellaneous general expenses	219,486		250, 29		320, 5	
Damages	385, 105		465,723		321,5	
Legal expenses	18,505		33,38		20, 1	
Miscellaneous legal expenses	33,631		41,836		57, 3	
Rent of land and buildings Rent of track and terminals	31,776		43,900		47, 2'	
Rent of track and terminals	115, 404		168, 773		123, 93	
Insurance	171,723	46	261,523	3 6S	213,30	06-30

It must be borne in mind that for the years to which the foregoing tabular statement relates details of operating expenses were not received from certain corporations.

PUBLIC SERVICE.

The number of fare passengers carried in 1917 was 629,441,997, as against 580,094,167 in 1916.

The total of freight hauled was 2,333,539 tons showing an increase over 1916 of 396,865 tons.

Passenger traffic:—

1901.					120, 934, 656
1902				 	137, 681, 402
1903.					155,662,812
1904					181,689,998
1905.					203,467,317
1906.					237,655,074
1907.					273, 999, 404
1908					299, 099, 309
1909.					314,026,671
1910.					360,964,876
1911.					426, 296, 792
1912					488,865 682
1913.					597, 863, 801
1914.			t:		614,709,819
1915.					562, 302, 373
1916.					580,094,167
1917					629.441.997

Car mileage:—

Car mileage— Passenger cars Other cars		80,899,906 3,173,140
Total		84,073,046

EQUIPMENT.

The following statement will show the number and classes of ears in service in 1917, with the figures for the years 1911, 1913 and 1915.

Classes of Cars, etc.	1911.	1913.	1915.	1917.
Passenger, closed	1.985	2,042 863	2,447 824	2, 04 44
Passenger, open Passenger, combination	$\frac{990}{455}$	930	792	628
Freight	357	591	693	62
Mail, express and baggage	33	35	40	4
Combination, freight	5	9	23	1
Work	108 60	211	58	19
Snow ploughs Sweepers.	106	123	127	9
Miscellaneous	2,252	124	109	14
Total	4.325	4,989	5, 329	4.29

The absence of reports from two large corporations has materially lowered the total of equipment for the past four years.

EMPLOYEES.

Numbers:—

Numbers-			
1916			10,622
1917.			11,696

Salaries and wages:—

Salaries and wages-	0 505 504 17
1916	
1917.	 9, 451, 085 51

Salaries and wages were equal to $47\cdot02$ per cent of operating expenses. The ratio was $48\cdot44$ in 1916.

Employees.	1910.	1912.	1914.	1916.	1917.
General administration— General officers. General office clerks. Maintenance—	150 553	159 744	146 950	140 583	148 601
Superintendents. Other employees. Transportation. Other employees.	71 3,633 102 6,881	$\begin{array}{c} 90 \\ 4,922 \\ 118 \\ 8,727 \end{array}$	$\begin{array}{c} 102 \\ 5,077 \\ 151 \\ 9,769 \end{array}$	103 2,008 112 7,676	84 3,112 110 7,626
Total	11,390	14,760	16, 195	10,622	*11,696

^{*21} undistributed.

ACCIDENTS.

2,728	3,029	3,039 2,728	
	., 020 ,	029	

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		Killed.				Injured.				Passengers.	
Year.	Passengers	Employees.	Others.	Total.	Passengers.	Employees.	Others.	Total.	Number carried.	Killed, one in every.	Injured, one in every.
1061	***	_	=	15	158	58	<u>\$</u>	314	120, 934, 656	40, 311, 552	255, 137
1902	6	-	31	57	410	8	130	563	137, 681, 402	15, 297, 933	335,808
1903.	01	-1	81	8	201	62	61 61	2778	155, 662, 812	15, 566, 281	308,855
1901	Ξ.	et	07	13	50s	3	272	8.14	181, 689, 998	18, 168, 999	357,657
1905.	-	515	23	56	862	87	3.17	1,296	203, 467, 317	6, 782, 243	236,011
1906.	=	¢1	7.	47	1,085	127	11:1	1,653	237, 655, 074	21,605,006	219, 327
1907	27	1-	37	71	988	516	555	1,736	273, 999, 404	10, 148, 126	277,327
1908.	8	9	-	29	1, 156	188	539	1,883	299, 099, 309	16,616,628	258, 736
1909.	Ξ	7	30	99	1,303	816	819	2, 139	314,026,671	28,547,879	241,001
1910.	Ξ	13	89	95	1,595	722	216	2,538	360, 961, 876	25, 783, 205	226,310
1911.	=	x	52	102	1,784	300	586	2,670	436, 296, 792	38, 754, 254	238, 955
1912	91	x	98	110	1.950	2 1 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 +	736	3, 128	488, 865, 682	30, 554, 180	156, 287
1913	. 17	51	#	73	1,662	395	061	2,514			
1914	6	22	ij	64	1,757	691	581	2,807			
1915	Ξ	9	7	19	1,554	113	889	2,605			
1916.	81	**	81 82	50	1,905	305	818	3,029			
1917.	-	2	<u>:</u>	8	1,541	395	792	2,728			
		-									

RAILWAY STATISTICS

8 GEORGE V, A. 1918

Table 1.—Summary of Mileage Operates for the

_								-
				Sing	le Traek			
Number.	Name of Railway.		esented by Stock.	Propri- etary	oper- ated	Line oper- ated under	Line oper- ated under	Total mileage oper-
N N		Main line.	Branches and spurs.	Com- panies.	under Lease.	Con- tract, etc.	Track- age Rights.	ated.
1	Algoma Central & Hudson Bay	317 - 25			9.23		0.98	348.78
2	Algoma Eastern Atlantic, Quebee & Western	83·89 102·44			1.52		2.39	$91.84 \\ 103.08$
4	Alberta & Great Waterways Bedlington & Nelson, Not operat-	113 · 20						113.20
6	Brandon, Sask'n & Hudson Bay	$69 \cdot 45$						69.45
7	British Yukon	$85.80 \\ 226.18$						$101 \cdot 12$ $397 \cdot 45$
9	British Yukon	35.80						35.80
10	lonial	1,479.12	31.28				39 · 27	1,549-67
11	Canadian Gov't, Rys. (P.E.I.) Canadian Northern System	275 · 20	2.58	$8,757 \cdot 99$ $3,548 \cdot 20$	393 - 46	253 - 99	59 21	$277 \cdot 78$ 9, 464 · 65
13	Canadian Pacific	$2.894 \cdot 80$						
14	Cape Breton	31 · 00 84 · 78						$\begin{array}{r} 31 \cdot 00 \\ 84 \cdot 78 \end{array}$
16	Canadian Pacific Cape Breton Caraquet Central Vermont Crow's Nest Southern	116 · 60			- 30			$125 \cdot 20$
17	Crow's Nest Southern Cumberland Ry, & Coal Co	$74 \cdot 18$ $32 \cdot 00$						$74 \cdot 18 \\ 32 \cdot 00$
19	Central Canada.	48.50						48.50
20	Detroit River Tunnel Co Dominion Atlantie	1.45 169.98	72.49		31.69		14-29	$\frac{1\cdot 45}{288\cdot 45}$
22	Eastern British Columbia Edmonton, Dunvegan & British	14.00						14.00
	Columbia	357 · 00 27 · 00	49.80					$406 \cdot 80 \\ 27 \cdot 00$
	Elgin & Havelock Esquima t & Nanaimo	139.70	59 - 50					199-20
	Essey Terminal Fredericton & Grand Lake	$\frac{9.00}{35.00}$	2.00					$11.00 \\ 35.00$
	Grand Trunk	$3,343 \cdot 36$			$223\cdot 76$		8.96	$3,576 \cdot 08$
29 36	Grand Trunk Pacific Grand Trunk Pacific Branch	1,746.02	27.01	1	1.70	2 · 18	3.54	1,780.45
	Lines	991.67				32 · 11	3 · 96	1,036.02
	Hereford International of New Brunswick	52.85 111.30	0.21					$53 \cdot 06$ $111 \cdot 30$
33	Inverness Ry. & Coal Co	60.91						60.91 27.00
34 35	Kent Northern Kettle Vallev	$\frac{27 \cdot 00}{308 \cdot 51}$			47 - 17		38 - 15	394 · 19
36	Kettle Valley Klondike Mines	31.81						$31.81 \\ 30.60$
37	Lotbiniere & Megantic Maganetawan River	30·00 1·91						1.91
39	Maine Central	$5 \cdot 10$					0.99	$\begin{array}{c} 5 \cdot 10 \\ 92 \cdot 76 \end{array}$
41	Manitoba Great Northern Maritime Coal Ry. & Power Co	$91 \cdot 77 \\ 12 \cdot 00$	3.00					15.00
42	Massawippi Valley	102 - 40			35·46 82·00		2.95	38·41 184·40
4.0	Montreal & Atlantic	32.00	2.00					$34 \cdot 00$
45	Morrissey, Fernie & Michel	6.40	5.82		5.03		69.02	10.85 75.42
47	Midland of Manitoba Napierville Junction	$27 \cdot 06$						27.06
48	National Transcontinental Nelson & Fort Sheppard	$1,811 \cdot 28$ $55 \cdot 42$			191.75		5 44	$2,003 \cdot 03 \\ 60 \cdot 86$
50	New Brunswick Coal & Ry. Co	58 · 00						$58 \cdot 00$
	New Brunswick & P.E. Island New Westminster Southern	36 · 05 15 · 18						36 · 05 15 · 18
53	North Shore	6.13	$2 \cdot 50$					$8 \cdot 63$
	Northern New Brunswick & Sea- leard	19-80						19.80
	Nosbonsing & Nippissing	5.50		-			1.90	5 · 50 58 · 80
56	Ottawa & New York	$56 \cdot 90$					1.90	99.90

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				Second Trac	k.		
teel rails.	Line repre Capital		Line of proprietary	Line operated under	Line operated under trackage	Total mileage operated.	Steel rails.
	Main line.	Branches and spurs.	companies.	lease.	rights.	operated.	
347.80							
$89 \cdot 45 \\ 103 \cdot 08$							
$113 \cdot 20$							
$69 \cdot 45$ $101 \cdot 12$							
$380 \cdot 54 \\ 35 \cdot 80$	226 · 18	16.86			1.60	244 · 64	243 · 04
*1,510-40	29.89				37.03	66 · 92	29.89
$277 \cdot 78$ 9, 405 · 44			1.15			1.15	· 1·15
$12,895 \cdot 40$	$1,157 \cdot 20$			265 · 90		1,423.10	1,423.10
$31.00 \\ 84.78$							
$125 \cdot 20$							
$74 \cdot 18 \ 32 \cdot 00$							
48.50							
$1 \cdot 45 \\ 274 \cdot 16 \\ 14 \cdot 00$					13.85	13.85	
406.80				• • • • • • • • • • • • • • • • • • •			
$27 \cdot 00$							
$199 \cdot 20 \\ 11 \cdot 00$							
$35 \cdot 00^{\circ}$							
$3,567 \cdot 12$ $1,776 \cdot 91$	711·48 14·94			12.25	3·74 1·00	$727 \cdot 47 \\ 15 \cdot 94$	723.73 14.94
1,032.06							
$53 \cdot 06$ $111 \cdot 30$							
60.91							
$\begin{array}{c} 27 \cdot 00 \\ 355 \cdot 68 \end{array}$							
31.81							
$\begin{array}{c} 30 \cdot 00 \\ 1 \cdot 91 \end{array}$							
$\begin{array}{c} 5 \cdot 10 \\ 91 \cdot 77 \end{array}$							
15.00							
$35 \cdot 46 \\ 184 \cdot 40$	6.50					6 · 50	6 · 50
34.00	0.30					0.90	0.90
10.85							
$\begin{array}{c} 6\cdot 40 \\ 27\cdot 06 \end{array}$							
$2,003 \cdot 03 \\ 55 \cdot 42$	$9 \cdot 29$					9 · 29	9 · 29
58.00							
$36.05 \\ 15.18$							
8.63							
19.80							
5.50							

^{*}Revised mileage 1,518·39.

²⁰b-1

 $\dot{}$ 8 GEORGE V, A. 1918 Table 1.—Summary of Mileage Operated for the

			Single	Track.			
Name of Railway.		esented by Stock.	Line of Propri- etary Com-	Line oper- ated under	Line oper- ated under Con-	Line oper- ated under Track-	Total mileage oper-
			Lease.		age Rights.	ated.	
Pacific Great Eastern.	180 - 27						180-2
Pere Marquette.	198-81					137.84	336 - 6
Philipsburg Ry. & Quarry Co	6.00						6.0
Quebec Central	138-00	139 - 60					277 - 0
Quebec Oriental	100.00						100-
Quebec Ry. Light & Power	$27 \cdot 50$				3.32	- 13	30-
Quebec, Montreal & Southern.	190.78	1.40					192 ·
Red Mountain	9.59						9.
Roberval—Saguenav	20.00	16.80					36 ·
Rutland & Novan	3.39						3.
Salisbury & Albert	45.00						45.
St. Lawrence & Adirondack	32.82			$13 \cdot 30$		$14 \cdot 26$	60.
St. Martins	30.00						30.
St. John & Quebec	119.87						119.
St. Clair Tunnel	$1 \cdot 23$						1 ·
Sydney & Louisburg	$39 \cdot 17$	28.85	1.05	$1 \cdot 20$			70.
Temiscouata	$113 \cdot 00$						113 -
Temiskaming & Northern Ontario	$252 \cdot 29$	$76 \cdot 21$					328 -
Thousand Islands	6.08	25					6.
Toronto, Hamilton & Buffalo .	79.88	$20 \cdot 42$				$4 \cdot 36$	104 -
Vancouver, Victoria and Eastern	$271 \cdot 22$					$92 \cdot 40$	363 ·
Victoria & Sidney, B.C	$15 \cdot 97$						15.
Victoria Terminal Ry. & Ferry Co.	0.99						0.
Wabash (in Canada)						$245 \cdot 40$	245
York and Carleton	10.50						10 -

sessional paper No. 20b year ending June 30, 1917—All tracks—Concluded.

				Second Trac	k.		
	Line represented by Capital Stock.		Line of proprietary	Line operated under	Line operated under	Total mileage	Steel rails.
teel rails.	Main line.	Branches and spurs.	companies.	lease.	trackage rights.	operated.	
180 - 27							
198.81					136 - 57	136 · 57	
$\frac{6 \cdot 00}{277 \cdot 00}$							
100.00							
30.82	9.50					9.50	
192 · 18	9.00					9.90	9 - 50
9.59							
36.80							
3.39							
45.00							
$46 \cdot 12$							
30.00							
119.87							
1.23							
$70 \cdot 27$	1.00					1.00	1.00
$113 \cdot 00$							
$328 \cdot 50$	$1 \cdot 70$					1.70	1.70
6.33							
100 · 30	9.79				- 0.37	10.16	9.79
271 · 22	$7 \cdot 12$					$7 \cdot 12$	$7 \cdot 12$
$15 \cdot 97 \\ 0 \cdot 99$							
0.99							
10 50					· · • · · · · · · · · · · · ·		
$38,604 \cdot 20$	$2.184 \cdot 59$	16.86	1.15	278 - 15	194 · 16	$2,674 \cdot 91$	2,480.75

\$8 GEORGE V, A. 1918 $$\textsc{Table}\ 1.$\mbox{--}Summary of Mileage Operated for the}$

				Yard	Track an	d Siding	s.		
Number.	Name of Railway.		oresented tal Stock	Line of Propri- etary Com-	Line oper- ated under	Line oper- ated under con-	Line oper- ated under track-	Total mileage oper-	Iron rail.
2	- 0	Mainline	Branches and spurs		Lease.	tract, etc.	age rights.	ated.	
1	Algoma Central & Hudson Bay	26.70	0.68		13.23			40.61	
2	Algoma Eastern	7.95						13.24	
٥ •	Atlantic, Quebec & Western Alberta & Great Waterways	$\frac{1.80}{7.18}$						7.18	
	Bedlington & Nelson								
6	Brandon, Sask. & Hudson Bay	10.61						10.61	
7	British Yukon	101 0	10.00				- 05	237.60	
8	Canada Southern Canada & Gulf Terminal	$\frac{181.05}{2.00}$	48.90				1.00	2.00	
9	Canadian Gov't Rys. (Inter'nial)	$49\overline{4} \cdot 15$						494 - 15	
1	Canadian Gov't Rys. (P.E.Isd.)	31.30						. 31-30	
¬	Considion Vonthorn Striton			$1,260 \cdot 32$	128 - 15	$59 \cdot 50$	1.04	31.30 $1,449.01$ $3,810.50$	
	Canadian Pacific				1,154.00			3,810.50	
	Cape Breton	3.05							
6	Central Vermont	7.93						7.93	
7	Crow's Nest Southern	14 · 10						14.10	
	Cumberland Ry. & Coal Co	16.00						16.00	
	Central Canada Detroit River Tunnel	3.44						9.41	
1	Dominion Atlantic	15.74	12.46		5 - 50		6.00		
2	Eastern British Columbia	$2 \cdot 19$						2 · 19	
3	Edmonton, Dunvegan & British	05.05	4.00					20. 27	
	Columbia	25.35						30.27	
4	Elgin & Havelock Esquimalt & Nanaimo	47-10						47-10	
6	Essex Terminal								
7	Fredericton & Grand Lake								
8	Grand Trunk	1,339.90			42.72	0.91	19 00	1.382.62	
9	Grand Trunk Pacific Grand Trunk Pacific & Branch	402-11				2.31	13.88	418.30	
U	Lines	119.55						119.55	
1	Hereford	8.38						8.38	
2	International of New Brunswick	5.42							
	Inverness Ry. & Coal Co.	8.20						8 · 20	
1	Kent Northern Kettle Valley	23.61			6.28		2.29	32.18	
	Klondike Mines	2.00					2.29	2.00	
7	Lotbiniere & Megantic	$3 \cdot 00$						3.00	
	Maganetawan River		. 0						
	Maine Central	9.61						9.61	
			3.00		10.58			3.00	
2	Massawippi Valley				10.58			10.58	
	Montreal & Atlantic	41 - 10						41.10	
5	Moncton & Buctouche								
6	Morrissey, Fernie & Michel Midland of Manitoba	11-11						11-11	
7	Napierville Junction	$3 \cdot 36$						3.36	
8	National Transcontinental	333.92						396.68	
	Nelson & Fort Sheppard New Brunswick Coal & Ry. Co	$\frac{3 \cdot 13}{7 \cdot 00}$						$\frac{3 \cdot 13}{7 \cdot 00}$	
	New Brunswick & P.E. Island	4.30						4.30	
2	New Westminster Southern	1.31						1.31	
3	North Shore	1.37						1.37	
4	Northern, New Brunswick & Sea-								
5	board Nosbonsing & Nipissing								
6	Ottawa & New York	11.30						11.30	
	Pacific & Great Eastern	19.11					99.02	$ \begin{array}{r} 19 \cdot 11 \\ 98 \cdot 08 \end{array} $	
	Pere Marquette	75.05					23.03	98.08	

SESSIONAL PAPER No. 20b year ending June 30, 1917—All tracks—Continued.

			Total MI	leage Opera	ated—All I	racks.			
Steelrails	Line repre Capital	esented by I Stock.	Line of proprie- tary	Line operated under	Line operated under	Line operated under trackage	Total mileage	Iron.	Steel rails
	Main line.	Branches and spurs.	eompanies	lease.	contract, etc.	rights.	operated.		
40.61 $ 12.20 $ $ 1.80 $ $ 7.18$	343 · 95 91 · 84 104 · 24 120 · 38			5.77			389 · 39 105 · 08 104 · 88 120 · 38		388.41 101.65 104.88 120.38
10·61 229·95	80.06 85.80 633.41	15·32 220·12				26.16	80·06 101·12 879·69		80·06 101·12 853·53
$ \begin{array}{r} 2 \cdot 00 \\ 494 \cdot 15 \\ 31 \cdot 30 \end{array} $	37.80 $2.003.16$ 306.50	31·28 2·58				76-30	37.80 $2,110.74$ 309.08		37.80 $2,034.44$ 303.08
1,447·97 3,810·50	$6,708 \cdot 50$ $31 \cdot 00$	4,879.70					$10,914 \cdot 81$ $18,222 \cdot 90$ $31 \cdot 00$		$ \begin{array}{r} 10,854 \cdot 56 \\ 18,129 \cdot 00 \\ 31 \cdot 00 \end{array} $
3·05 7·93 14·10 16·00	87 · 83 124 · 53 88 · 28 48 · 00						87.83 133.13 88.28 48.00		87483 133 · 13 88 · 28 48 · 00
$ \begin{array}{r} 3 \cdot 44 \\ 33 \cdot 70 \\ 2 \cdot 19 \end{array} $	$ \begin{array}{r} 51 \cdot 94 \\ 1 \cdot 45 \\ 185 \cdot 72 \\ 16 \cdot 19 \end{array} $					34 · 14	$51 \cdot 94$ $1 \cdot 45$ $342 \cdot 00$ $16 \cdot 19$		$51 \cdot 94$ $1 \cdot 45$ $307 \cdot 86$ $16 \cdot 19$
30·27 47·10	$382.35 \\ 27.00 \\ 186.80$	54·72 59·50					$437 \cdot 07$ $27 \cdot 00$ $246 \cdot 30$		437.07 27.00 246.30
1,382.62	9.00 $ 35.00 $ $ 5,394.74$	2.00				12.70	$ \begin{array}{r} 11.00 \\ 35.00 \\ 5,686.17 \end{array} $		$ \begin{array}{r} 11.00 \\ 35.00 \\ 5,673.47 \end{array} $
404 · 42 119 · 55	$2,163 \cdot 07$ $1,111 \cdot 22$ $61 \cdot 23$				32.11	18·42 3·96	2,214·69 1,155·57		2, 196 · 27 1, 151 · 61
8·18 5·42 8·20								0.20	$61 \cdot 24$ $116 \cdot 72$ $69 \cdot 11$ $27 \cdot 00$
$29 \cdot 89$ $2 \cdot 00$ $3 \cdot 00$	$33.81 \\ 33.00$						$\begin{array}{c} 33 \cdot 81 \\ 33 \cdot 00 \end{array}$		$ \begin{array}{r} 385 \cdot 57 \\ 33 \cdot 81 \\ 33 \cdot 00 \end{array} $
9·61 3·00						0.99	$ \begin{array}{r} 1 \cdot 91 \\ 5 \cdot 10 \\ 102 \cdot 37 \\ 18 \cdot 00 \end{array} $		$ \begin{array}{r} 1.91 \\ 5.10 \\ 101.38 \\ 18.00 \end{array} $
10·58 41·10	$^{150\cdot 00}_{32\cdot 00}$	2.00		82.00		2.95	$232.00 \\ 34.00$		46.04 $ 232.00 $ $ 34.04 $ $ 10.85$
11·11 3·36 396·68	17.51 30.42 $2,154.49$			254 · 51		69.02	$ \begin{array}{r} 86.53 \\ 30.42 \\ 2,409.00 \end{array} $		17.51 30.42 $2,409.00$
$ \begin{array}{r} 3 \cdot 13 \\ 7 \cdot 00 \\ 4 \cdot 30 \\ 1 \cdot 31 \end{array} $	$ \begin{array}{r} 58.55 \\ 65.00 \\ 40.35 \\ 16.49 \end{array} $					5.44	$63 \cdot 99$ $65 \cdot 00$ $40 \cdot 35$ $16 \cdot 49$		58.55 65.00 40.35 16.49
1.37	7·50 19·80						10·00 . 19·80 .		10·00 19·80
	$5 \cdot 50$.						$5 \cdot 50$.		$5 \cdot 50$

\$8 GEORGE V, A. 1918 Table 1.—Summary of Mileage Operated for the

	Yard Track and Sidings.									
Name of Railway.	Line represented by Capital Stock			Line oper- ated under	Line oper- ated under	Line oper- ated under track-	Total mileage oper-	Iron rail.		
	Mainline	Branches and spurs		Lease.	tract, etc.	age rights.	ated.			
0 Ouebec Central										
1 Quebec Oriental	3 - 10						3 · 10			
2 Quebec Ry., Light & Power Co		6.93					6.93			
3 Quebec, Montreal & Southern	23.96	4.09					$28 \cdot 05$			
4 Red Mountain.	2.99						$2 \cdot 99$			
5 Roberval-Saguenay										
6 Rutland & Noyan	0.39						0.39			
7 Salisbury & Albert	5.00						5.00			
8 St. Lawrence & Adirondack	9.05			2.56			11.61			
9 St. Martins										
0 St. John & Ouebee	8.00						8.00			
1 St. Clair Tunnel.	0.35						0.35			
2 Sydney & Louisburg		52.79					$52 \cdot 79$			
3 Temiscouata	$9 \cdot 40$	1					9 · 40			
4 Temiskaming & Northern Ontario	87-96	$21 \cdot 24$					$109 \cdot 20$			
5 Thousand Islands	1.00						1.00			
6 Toronto, Hamilton and Buffalo.	$62 \cdot 56$						66.63			
7 Vancouver, Victoria & Eastern	$54 \cdot 00$						54.00			
8 Victoria & Sidney, B.C.	$1 \cdot 66$						1.66			
9 Victoria Terminal Ry. & Ferry										
Co	0.58						0.58			
0 Wabash (in Canada)										
1 York and Carleton										
								-		

sessional paper No. 20b year ending June 30, 1917—All tracks—Concluded.

			Total Mi	leage Opera	ated—All T	Cracks.			
Steelrails	Line repre		Line of proprietary companies	Line operated under lease.	Line operated under contract, etc.	Line operated under trackage rights.	Total mileage operated.	Iron.	Steel rails
	Main line.								
		_					00		
	138.00	139.00					277 - 00		277 · 00
3.10	103 · 10						103 · 10		103 · 10
6.93	37.00				$3 \cdot 32$		47.25		$47 \cdot 25$
28.05	214 - 74	5.49					220 · 23		220 · 23
$2 \cdot 99$	12.58						12.58		12.58
	20.00	16.80					36.80		36.80
0.39	3.78						3.78		3.78
5.00	50.00					14.00	50.00		50.00
$11 \cdot 61$	41.87			15.86		14.26	71.99		57 · 73
	30.00						30.00		30.00
8.00	$127 \cdot 87$						127 · 87		127.87
0.35	1.58						1.58		1.58
$52 \cdot 79$	40 · 17	81.64	1.05	$1 \cdot 20$			$124 \cdot 06$		124 06
$9 \cdot 40$	$122 \cdot 40$						$122 \cdot 40$		$122 \cdot 40$
$109 \cdot 20$	$341 \cdot 95$	$97 \cdot 45$					439.40		439 40
1.00	7.08	$0 \cdot 25$					$7 \cdot 33$		7.33
$66 \cdot 63$	$152 \cdot 23$	$24 \cdot 49$				4.73	181 - 45		$176 \cdot 72$
$54 \cdot 00$	$332 \cdot 34$					92 · 40	$424 \cdot 74$		332.34
$1 \cdot 66$	17 · 63						17.63		17.63
0.58	1.57								
						$245 \cdot 40$			
	10.50								
9.169.02	$26,204 \cdot 58$	5.809.32	$13,568 \cdot 71$	4, 191 · 35	480 · 21	1,105.57	$51,359 \cdot 74$	0.20	$50,253 \cdot 97$

8 GEORGE V, A. 1918 Table 4.—Amount of Railway Capital at the

	1	2	3	4	5	6
	•		Stocks.			Funde
			Stocks.			1 undec
Number.	Name of Railway.	Amount Out- standing.	Amount per Mile of Line.	Proportion to Total Railway Capital. 100 x Col. 2.	Amount Out- standing Cols. 8+9+10+11	Amount per Mile of Line
_		8	8	рс.		8
1	Alasara Cantual & Hudson Bay		29,200			
2	Algoma Central & Hudson Bay Algoma Eastern	10,000,000 3,000,000	34,118		10,788,800 2,804,500	$ \begin{array}{r} 31,50 \\ 31,89 \end{array} $
3	Atlantic, Quebec and Western	2,000,000	19,512	43.90	2,548,675	24,86
4	Alberta and Great Waterways	50,000	442		7,400,000	
6	Bedlington & Nelson* Brandon, Saskatchewan & Hudson	1,000,000	83,056			
.,	Bay British Yukon Canada & Gulf Terminal. Canada Southern	2,150,000				
7	British Yukon	2,934,119	29,016		2,044,760	
8	Canada & Gulf Terminal.	600,000 15,000.000			740,000 $22,630,000$	
U	Canadian Northern System	100,000,000			327,441.921	32,67
1	Canadian Pacific †	556,966,803	49,171	97 - 54	14,230,000	
$\frac{2}{3}$	Atlantic & North West				6,453,200 $5,458,894$	32,08
о 4	Lindsay, Bobcaygeon & Pontypool				500,000	
5	Manitoba, South Western Coloniza-					
6	tion	170,000	11,200	100.00	2,544,000	11,8
7	Guelph Junction New Brunswick	170,000	11,20.	100.00	7,821.127	38, 18
S	New Brunswick and Canada	30	F		170.000	1,4
9	Fredericton St. John & Maine				100,060	
0	New Brunswick Southern				216,664 500,000	
2	Ontario & Quebec.	21,502,591	45,288	100.00		
3	St. Lawrence & Ottawa	50,000	10.500	100.00	973.333	16,6
1 5	St. Stephen & Milltown Shuswap & Okanagan	50,000	10,869	100.00	108.527	2,1
б	Joliette & Brandon.				125,000	
7	Toronto, Grey & Bruce		00.0*		3,500,000	18,4
5	Cape Breton Caraquet	1,000,000 1,250,000		100 · 00 71 · 43	500,000	5,8
)	Crow's Nest Southern	4,210,000				
	Central Vermont:		1= 001	00.00	200 000	
1	Montreal & Province Line Montreal & Vermont Junction	1,000,000 1,000,000			200,000	4,9
3	Stanstead, Shefford & Chambly	608,750			155,865	3,6
4	Central Canada	625,000	12,887		2,000.000	41,0
	Detroit River Tunnel	3,000,000		14 · 28 28 · 34	18,000.000	
	Dominion Atlantic Eastern British Columbia	2,433,333 420,000			5,998,166	24,7
	Edmonton, Dunvegan & British Col-	1	30,000			
_	umbia	250,000			9,420,000	
	Elgin & Havelock Essex Terminal	44.900 300,000			50,000 420,000	
	Esquimalt & Nanaimo.	2.500,000		34.09	4,832.000	24,2
2	Fredericton & Grand Lake.	140.000	4,000	23 - 53	465,000	13, 2
34	Grand Trunk	241,237,589		57 · 44 39 · 48	178,847,227 4,279,456	
i	Buffalo & Lake Huron Central Counties	2,605,632 500,000			380,000	
6	Pembroke Southern	178,000	8,334	54 - 27	159,000	7.0
	Grand Trunk Pacific.	24,942,000				
	G.T.P. Branch Lines Hereford	1,000,000 800,000			13,469.004 800,000	
	International Bridge Co	1,500,000		75.00		

^{*}Line abandoned and tracks removed. †This includes \$216,284,882 of Consolidated Debenture Stock.

SESSIONAL PAPER No. 20b close of the year ending June 30, 1917.

7	8	9	10	11	12	13
Debt.		Designation of	Funded Debt.		Sumi	nary.
Proportion to Total Railway Capital. 100 x Col. 5.	Bonds.	Mis- cellaneous Obligations.	Income Bonds,	Equipment Trust Obligations.	Total Railway Capital Cols. 2+5.	Amount per Mile of Line.
p.c.	\$	\$	\$	\$	\$	\$
51 · 90 48 · 27 56 · 10 99 · 33	2,500,000 2,548,675			390, 000 304, 500	$20,788,800 \\ 5,804,500 \\ 4,548,675 \\ 7,450,000 \\ 1,000,000$	60,703 66,012 44,377 65,813 83,056
$\begin{array}{c} 41 \cdot 07 \\ 55 \cdot 00 \\ 60 \cdot 14 \\ 76 \cdot 61 \\ 2 \cdot 46 \\ 100 \cdot 00 \\ 100 \cdot 00 \\ 100 \cdot 00 \end{array}$	2, 044, 760 740, 000 22, 630, 090 287, 595, 421 3, 650, 000 6, 453, 200 5, 458, 894 500, 000		25,000,000	14,846,500 10,580,000	$\begin{array}{c} 2,150,000\\ 4,978,879\\ 1,340,000\\ 37,030,000\\ 427,441,921\\ 571,196,803\\ 6,453,200\\ 5,458,894\\ 500,000\\ \end{array}$	30, 958 49, 237 37, 430 98, 886 42, 658 50, 427 32, 089 9, 945 12, 920
100 · 00 100 · 00 100 · 00 100 · 00 100 · 00 100 · 00	2,544,000 7,821,127 170,000 100,000 216,664 500,000				$\begin{array}{c} 2,544,000\\ 170,000\\ 7,821,127\\ 170,000\\ 109,000\\ 216,664\\ 500,000\\ \end{array}$	11,810 11,200 38,189 1,411 4,525 2,312 6,173
100 · 00 100 · 00 100 · 00 100 · 00 28 · 57	973, 333 108, 527 125, 000 3, 500, 000 500, 000				$\begin{array}{c} 21,502,591\\ 973,333\\ 50,000\\ 108,527\\ 125,000\\ 3,500,000\\ 1,000,000\\ 1,750,000\\ 4,210,000\\ \end{array}$	45,288 16,695 10,869 2,128 11,363 18,431 32,258 24,264 56,754
16 · 67 20 · 40 76 · 19 85 · 72 71 · 66	200,000 155,865 5,998,166	2,000,000 18,000,000			$1,200,000 \\ 1,000,000 \\ 764,615 \\ 2,625,000 \\ 21,000,000 \\ 8,431,499 \\ 420,000$	21, 990 42, 373 17, 781 53, 918 34, 590 30, 000
97·41 54·44 58·33 65·91 76·47 42·56 60·52 43·19 45·73 87·45 93·09 50·00 25·00	800,000				9, 670, 000 94, 900 720, 000 7, 332, 000 605, 000 420, 084, 816 6, 885, 088 880, 000 328, 000 198, 724, 100 14, 469, 004 1, 600, 606 2, 012, 260	23,771 3,403 65,454 36,823 17,286 125,661 37,909 22,863 15,356 100,926 14,470 30,274

 $\mbox{8 GEORGE V, A. 1918} \\ \mbox{Table 4.} \mbox{--Amount of Railway Capital at the}$

	1	2	3	4	5	6	
			Stocks.		Funded		
Number.	Name of Railway.	Amount Out- standing.	Amount per Mile of Line.	Proportion to Total Railway Capital. 100 x Col. 2.	Amount Out- standing Cols. 8+9+10+11	Amount per Mile of Line	
		8	s	рс	s ·	· §	
$\frac{51}{52}$	Kent Northern Kettle Valley*	75,000 375,000	$\frac{2,778}{17,000}$	$69 \cdot 50$ $100 \cdot 00$	32,000	1,185	
53 54	Klondike Mines Lake Erie & Detroit River	1,375,900 1,400,000	44,355 7,042	56 · 00 31 · 88	1,091,250 3,000,000		
	Lake Champlain & St. Lawrence Junction Lotbiniere & Megantic	600,000 50,000	9,917 1,666	$61 \cdot 35$ $100 \cdot 00$	378,000	6,248	
57 58	Manitoba Great Northern Massawippi Valley	2,066,000 800,000	$\frac{22,513}{22,560}$	100·00 100·00			
60;	Midland of Manitoba Montreal & Atlantic Moneton & Buctouche	4,300,000 $3,200,000$ $250,000$	$\begin{array}{r} 671.875 \\ 31,098 \\ 7,812 \end{array}$	$100 \cdot 00 \\ 71 \cdot 34 \\ 80 \cdot 65$	1,065,000 60,000		
$\frac{62}{63}$	Morrissey, Fernie & Michel Napierville Junction	$\substack{1,263,000\\600,000}$	217,010 $22,173$	100 · 00 100 · 00			
65	Nelson & Fort Sheppard New Westminster Southern North Shore (N.B)	2,846,800 600,000 98,000	51,368 39,526 11,355	$100 \cdot 00$ $100 \cdot 00$ $73 \cdot 68$	35,000	4,056	
67 68	Northern New Brunswick & Seaboard Ottawa & New York	298,500 1,000,000	15.075 17.575	51.00 38.46	297,000 1,600,000	15,000 28,119	
70	Pacific Great Eastern Pere Marquette (Canada)	25,000,000	138,888 20,750	55.36	20,160,000 5,870,000	29,500	
72	Philipsburg Ry. & Quarry Co Quebec Central Quebec, Montreal & Southern	124,500. $3,381,603$ $1,000,000$	15, 233 5, 208	75·70 35·17 14·27	40,000 6,233,406 6,000,000		
74 75	Quebec Oriental Red Mountain	119,500 412,600	$\frac{1,195}{43,024}$	$\begin{array}{c} 4\cdot 55 \\ 100\cdot 00 \end{array}$	2,026,894	20,269	
77	Roberval-Saguenay Rutland & Noyan Salisbury & Albert	2,000,000 100,000 150,000	54,347 29,499 3,333	$ \begin{array}{r} 61 \cdot 13 \\ 50 \cdot 00 \\ 37 \cdot 50 \end{array} $	1,272,000 $100,000$ $250,000$	$ \begin{array}{r} 34,565 \\ 29,499 \\ 5,555 \end{array} $	
79 80	St. Clair Tunnel St. Lawrence & Adirondack	700,000 1,230,655	37,497	$\begin{array}{c} 21 \cdot 90 \\ 57 \cdot 37 \end{array}$	2,500,000 914,418	27,862	
82	St. Martins Temiscouata. Thousand Islands	99,000 1,000,000 60,000	3,300 8,849 8,186	$52 \cdot 38$ $24 \cdot 41$ $54 \cdot 54$	90,000 $3,099,669$ $50,000$	3,000 27,401 6,821	
84	Toronto, Hamilton & Buffalo Vancouver, Victoria & Eastern	4,512,500 $20,850,000$	44,336 79,861	$\frac{42 \cdot 21}{100 \cdot 00}$	6, 180, 000	60,719	
87	Victoria & Sidney Victoria, Terminal & Ferry Co. York & Carleton	103.000 500 105,000	6,449 505 10,000	$27.00 \\ 100.00 \\ 100.00$	300,000	18,785	
	Final Totals	1,089,114.875	10,000	100 00	896,005,116		

^{*}On 22·19 miles only.

SESSIONAL PAPER No. 20b close of the year ending June 30, 1917—Concluded.

7	8	9	10	11	12	13	
Debt.		Designation of	Funded Debt.		Summ	nary.	
Proportion to Total Railway Capital. 100 x Col. 5.	Bonds.	Mis- cellaneous Obligations.	Income Bonds.	Equipment Trust Obligations.	Total Railway Capital	Amount per Mile of Line.	1
Col. 12.							-
p.e.	\$	\$	\$	8	8	\$	
$30 \cdot 50$	32,000				107,000	3,963	
	1				375,000	17,000	
$68 \cdot 12$	$\frac{1,091,250}{3,000,000}$				$\frac{2,466,250}{4,400,000}$	78,660 $22,132$	
38.65	378,000				978,000	16, 165	
					50,000 $2,066,000$	$\frac{1,666}{22,513}$	
					800,000	$\frac{22,516}{22,560}$	
					4,300,000	671,875	
28.66	1.065.000				4,265,000	41,448	
19.35	60,000				310,000	9,687	
					1,263,000	217,010	
					600,000	22,173	
					$2,846,000 \\ 600,000$	51,368	
26.32	35,000				133,000	39,526 $15,411$	
49.00	297,000				595, 500	30,075	
61.54	1,325,000		275,000		2,600,000	45,69	
$44 \cdot 64$	20, 160, 000				45, 160, 000		
100.00	5,870,000				5,870,000	29,500	
$24 \cdot 30$	40,000				164,500	27,410	õ
64 · 83	6,233,406				9,615,009 $7,000,000$	43,315	
$85.73 \\ 94.45$	2,026,894	6,000,000			$\frac{7,000,000}{2,146,194}$	36,456 $21,46$	
94.49	2,020,394				412,600	43, 02	1
38.87	1,260,000	12,000			3, 272, 000	88, 91	
50.00	100,000				200,000	58,998	
$62 \cdot 50$	250,000				400,000	8,888	8
78 · 10	2,500,000				3,200,000	1,428,57	
$42 \cdot 63$	914,418				2,145,073	65,35	9
47.62	90,000				189,000 $4,099,669$	6,300 $36,250$	
$75 \cdot 59 \\ 45 \cdot 46$	3,099,669 50,000				110,000	36, 250 15, 000	
57·79	5,280,000			900,000	10,692,500	105,05	
01.13	0,200,000				20,850,000	79,86	1
73.00	300,000				403,000	25, 23	
					500	50.	5
					105,000	10,00	0
	812, 420, 116	26,012,000	25, 275, 000	32,298,000	1,985,119,991		_

8 GEORGE V, A. 1918 Table 5.—Statement of Aid, granted and paid to Railways

No.	Name of Bailway	By Doi	minion Govern	ment.	В	y Provincial
NO.	Name of Railway.	Subsidy Granted.	Subsidy Paid up.	Loan.	Name of Province.	Subsidy Granted.
1 2 3	Albert Southern abandoned Harvey Branch (C.P.Ry.)	\$ cts. 50,460 00 5,553 57 404,480 00	\$ cts. 50,460 00 5,553 57 404,480 00			\$ ets. 48,680 00 9,000 00
4	Algoma Central and Hud- son Bay	2,048,704 00	2,048,704 00		Ontario	199,620 00
5 6	Algoma Eastern	547, 648 00 902, 800 00	547, 648 00 902, 800 00			265,000 00
7	ern Bruce Mines and Algoma, now. Lake Huron and N.	902,300 00	902,800 00			
8	Ontario Canada and Gulf Terminal.	53,920 00 210,053 59	53,920 00 210,053 59		Ontario Quebec	50,918 00
9 10 11	Canada Southern, including, Sarnia, Chatham and Eric Leamington and St. Clair	51,200 00	51,200 00		Ontario	147,859 00
12 13	Can. Govt. R'lys.— Intercolonial, including,		01,200 00			147,005 00
14 15	Canada Eastern Drummond County Federicton and St.	374,839 84 423,936 00	378,839 84 423,936 00		Quebec	
16	Mary's Bridge Nova Scotia Steel and Coal Co.'s Ry	30,000 00 40,000 00	30,000 00 39,840 00		Nova Scotia	40,000 00
17 18	Prince Edward Island Canadian Northern: includ-				.vova ixotia	40,000 00
19	Bay of Quinte	$374,606 00 \\ 350,455 25$	374,606 00 350,455 25		Ontario	84,000 00
20 21	Brockville, Westport and Northwestern Central Ontario and	$\begin{array}{c} 140,800 \ 00 \\ 205,862 \ 79 \end{array}$	140,800 00 205,862 79	••		278,000 00
22	Marmora R'ly.andMining	30,720 00	30,720 00			
23	Edmonton, Yukon and Pacific	160,000 00	91,200 00			
24 25	Co Irondale, Bancroft and	627,000 00	368, 545 97		Nova Scotia	272.000 00
26	Ottawa	144,000 00	144,000 00		Ontario	641,575 25
27 28	Ontario and Rainy River Port Arthur, Duluth and Western.	1,534,526 00 271,200 00	1,534,526 00 271,200 00		Ontario	1,072,800 00 255,571 00
$\frac{29}{30}$	Halifax and SouthWestern Central of N.S. and N.S.	\$19, \$74 93 653, 776 00	819,874 93 653,776 00		Nova Scotia.	255,571 00
31 32	Southern, Halifax and Yarmouth, Liverpool and Milton.	160,000 00 32,000 00	160,000 00 32,000 00			156,499 33
33 34	Middleton and Victoria Beach Quebec and Lake St. John	$\begin{array}{c} 125,760 \ 00 \\ 1,454,695 \ 00 \end{array}$	$\begin{array}{c} 125,760\ 00 \\ 1,261,463\ 50 \end{array}$		Quebec	2,533,000 00
35 36 37	Can. Northern Ontario Can. Northern Quebec	14,775,872,00 2,020,616 89 3,094,104 00	14,386,762 51 2,020,616 89 3,094,104 00		Ontario Quebec	1,194,129 46
38 39	*Can. Northern Alberta *Can. Northern Pacific *Central of Canada	5,648,626 37 $30,145$ 02	5,648,626 37 $30,145$ 02			
40	Canadian Pacific:— Owned—	30, 369, 374, 70 10, 189, 521, 00	30, 369, 374 70 10, 189, 521 00	*	Manitoba British Colum-	375,377 50 37,500 00
41 42	Canada Central Lake Temiskaming Colo-	1,525,250 00	1,525,250 00			1,479,000 00
43 44	nization Montreal and Western North Shore.	310,33595 $361,27000$ $1,500,00000$	310,33595 $ 361,27000 $ $ 1,500,00000$		Quebec	350,076 82 472,500 00
45	Quebec, Montreal, Otta- wa and Occidental	1,555,666			Quebec	727,000 00

^{*}Under construction †Secured by the Guaranteed Bonds of the Co.

SESSIONAL PAPER No. 20b by Governments and Municipalities, to 30th June, 1917.

Governments	s.			By Muni	cipalities.		
Subsidy Paid up.	Loan.	Subscription to shares.	Subsidy Granted.	Subsidy Paid up.	Loan.	Subscription to Shares.	No
\$ cts. 48,680 00 9,000 00		\$ et		\$ cts.	S cts.	\$ cts.	
199,620 00 265,000 00							
50.918 00			500 00 20,600 00				
			322,500 00	322,500 00			
147,859 00							i
			15,000 00	15,000 00			
40,000 00			4,000 00	4,000 00			
						650,000 00	
84,000 00			197,990 43 116,000 00				
278,000 00			93,500 00	93,500 00			:
19.149 39				. 9			
223,000 00 135,000 00 641,575 25			100,000 00	50,000 00			
1,072,800 00 255,571 00			50,000 00 40,000 00				
	†4,447,000 00						
156,499 33			88,874 17 15,338 93	88,874 17 15,338 93			
2,368,816 88			12,000 00 20,000 00	12,000 00 20,000 00		450,000 00	
1,194,129 46			82,000 00			200,000 00	1
372, 157 50)			404 701 00			
$\begin{array}{c} 37,500 \ 00 \\ 1,479,000 \ 00 \end{array}$	<u>}</u>		572,500 00	464,761 29		42,500 00	
350,076 82 472,500 00					 - 		
727 000 00	1.176.956.00		25,000 00	25,000 00	771,644 62		

8 GEORGE V, A. 1918
Table 5.—Statement of Aid, granted and paid to Railways

No.	Name of Railway.	By Don	ninion Govern	ment.	B	y Provincial
NO.	Name of Kanway.	Subsidy Granted.	Subsidy Paid up.	Loan.	Name of Province.	Subsidy Granted.
		\$ cts.	\$ ets.	\$ cts.		\$ ets.
	Canadian Pacific—Con. Leased—					
46	Alberta Ry. and Irriga-					
	tion Co	148,094 00	148,094 00			
$\frac{47}{48}$	Esquimalt and Nanaimo Kingston and Pembroke.	$\begin{array}{c} 1,520,560 \ 00 \\ 48,000 \ 00 \end{array}$	$1,520,560 00 \\ 48,000 00$		Ontario	456,493 00
49	St. Maurice Valley	173, 120 00	173,120 00		mario	400,490 00
50	St. Maurice Valley Atlantic and North West	3,888,800 00	3,888,800 00		Quebec	711,122 00
$\frac{51}{52}$	Cap de la Madeleine. Columbia and Kootenay.	$7,424 00 \\ 88,800 00$	7,424 00 88,800 00			
53	Credit Valley				Ontario	531,000 00
54	Fredericton				New Brunswick	$230,000 \ 00$
$\frac{55}{56}$	Guelph Junction Guelph and Goderich	51,200 00	46,000 00		Ontario	
57	Lindsay, Bobcaygeon and					
	Pontypool	185, 173 06	185,173 - 06		**	52,500 00
58	Manitoba anf Northwest-				Manitoba.	
59	ern Manitoba South West				Manifoba.	
	Colonization					
60	Montreal and Lake Maski- nonge	41,280 00	41,280 00		Quebec	87,750 00
61	Montreal and Ottawa	192,000 00	192,000 00		Ontario	100,000 00
					Quebec	182,210 00
62	Nakusp and Slocan.	121,600 00	117,760 00		British Colum-	
63	New Brunswick				bia New Brunswick	76,000 00
64	New Brunswick and Can-					
65	ada					575,000 00
66	New Brunswick Southern Nicola, Kamloops and					413,000 00
	Similkameen.	300,800 00	300,800 00			
67 68	Northern Colonization	$355,200 00 \\ 196,000 00$	355, 200 00		Quebec. Ontario	96,000 00
69	Ontario and Quebec Ottawa, Northern and	196,000 00	196,000 00		Ontario	
	Western.	$950,000\ 00$	821,009 20		(Ontario	50,000 00
70	Orford Mountain	202,926 50	202,926 50		Quebec	1,316,389 1
71	Saskatchewan and West-	202,820 30	202,920 50		Quebec	100,004 02
= 0	ern				Manitoba	
72 73	Shuswap and Okanagan St. John Bridge and Ry.	163,200 00	163,200 00			
10	Extension			433,900 00	New Brunswick	5,181 8
74	St. John and Maine.				**	880,000 00
75 76	St. Lawrence and Ottawa St. Mary's and Western				Ontario	
	Ontario	67,709 00	67,709 00			
77	St. Stephen and Milltown	14,848 00	14,848 00		New Brunswick	13,920 00
78	Tilsonburg, Lake Erie and Pacifie	158,871 48	150 071 48		Ontario	38,564 00
79	Tobique Valley	134,016 00	134,016 00		New Brunswick	70,000 00
80	Toronto, Grey and Bruce	4,656 00	14.656 00		Ontario	375,282 00
81	Vancouver and Lulu Island	61,670 00	61,670 00			
82	West Ontario Pacific	60,000 00	60,000 00		Ontario	
83	Cape Breton	196,800 00	196,800 00		Nova Scotia	99,200 0
$\frac{84}{85}$	Caraquet	224,000000 $53,69920$	$224,000 00 \\ 53,699 20$		New Brunswick	180,000 0 41,950 0
86	Colchester Coal and Ry. Co	12,800 00	12,800 00			11,000
87	Cumberland Ry. and Coal	11 000 00			Your Seatie	104 450 0
88	Co	44,800 00	39,850 00		Nova Scotia	184,450 0
	ing					
89 90	Windsor and Annapolis	1,193,369 00	1,193,369 00		Your Sentie	44,800 0
91	Cornwallis Valley	$44,800 00 \\ 500,000 00$			Nova Scotia	679,197 4
92	Midland of N.S.	399,060 40				

^{*}Cash paid for land relinquished by Company.

SESSIONAL PAPER No. 20b by Governments and Municipalities, to 30th June, 1917—Continued.

Government	s.						Ву	Muni	cipalities	S.				N
Subsidy Paid up.	Loan.			iptions nares.	Subsi Grant		Subsic Paid		Loa	ın.	Subs to S			
\$ ets.	. 8	cts.	\$	ets.	\$	cts.	8	cts.	8	ets.		s	cts.	
456,493 00					509,	320 00	509,3	320 00 						
699,192 08								-					00 00	1
$\begin{array}{cccc} 531,000 & 00 \\ 230,000 & 00 \end{array}$					1,085, 80,	000 00 000 00		00 00 00 00						
• • • • • • • • • • • • • • • • • • • •					31,	000 00	31,0	00 00			19	93,0	00 00	
52,500 00					73,	000 00	73,0	00 00						
					215,	600 00	215,6	800 00						
	900,000	00							. 0					
87,750 00 100,000 00 182,210 00					5,	300 00	5,5	800 00	}					
76,000 00	647,074	1 00			23,	000 00	23,0	00 00						
575,000 00 413,000 00						500 00 000 00		500 00 000 00						
96,000 00						500 00	59 5	 500 00						,
50,000 00						000 00		00 00	1					
1,192,672 58 138,884 92						000 00 000 00		000 00 000 00						
					10,	000 00	10,0	00 00						
5,181 81 880,000 00			300	,000 00)						30,0)
**********										000 00	9	90,0	00 00	1
13,920 00)				80,	000 00	77,9	96 39						
$\frac{38,564}{70,000} \frac{00}{00}$					75,	000 00	75,0	00 00						
375, 282 00					988,	000 00	969, 5	61 44						
99,200 00						000 00 000 00		0 00 00 00 00						
$\begin{array}{c} 180,000 \ 00 \\ 41,950 \ 00 \end{array}$														
172 670 00														
173,650 00		• • • •												
44,800 00 679,197 45					27,	685 00 000 00								
183,510 40						000 00								1

8 GEORGE V, A. 1918 Table 5.—Statement of Aid, granted and paid to Railways

	X* / D. I	By Dor	ninion Govern	ment.	B	y Provincia
No.	Name of Railway.	Subsidy Granted.	Subsidy Paid Up.	Loan.	Name of Province.	Subsidy Granted.
93 94 95	Edmonton D. & B.C. Elgin and Havelock Fredericton and Grand	\$ cts. 160,352 00 †82,652 82	\$ cts. 125, 202 84 †\$2, 652 82		New Brunswick	\$ cts
	Lake Grand Trunk, including	216,576 00	216,576 00	15,142,633 33		
97 98	Beauharnois Junction Brantford, Norfolk and	62,400 00	62,400 00		Quebec	179,073 0
99 100	Port Burwell Buffalo and Lake Huron. Cobourg, Blairton and Marmora.				Ontario	68,000 0 18,740 0
101	Grand Trunk, Victoria Jubilee Bridge	500,000 00	500,000 00			19,710 0
102	Grand Trunk, Georgian Bay and Lake Erie.	500,000	000,000 00		Ontario	336,000 0
103	Grand Junction, Belleville, and N. Hastings.	21.888 00	21,888 00			224,660 0
104 105	Owen Sound Branch Hamilton and North	39,744 00	39.744 00		**	
106	Western London, Huron and Bruce				**	565,020 0 178,630 0
107 108	Midland, Ontario Montreal and Champlain					168,350 0
109 110	Junction. Northern North Simcoe	103,600 00	103,600 00	·	Quebec Ontario	150,000 0 196,188 0 83,300 0
111 112 113	Northern Pacific Junction South Norfolk Toronto and Nipissing	1,320,000 00 54,400 00	1,320,000 00 54,400 00		Ontario	105,212 0
114 115	Lake Simcoe Junction Victoria					53,000 0 312,000 0
116 117	Waterloo Junction Wellington, Grey and Bruce	32,800 00	32,800 00			241,276 0
118	Whitby, Port Perry and Lindsay.				Ontario	94,957 5
119	Canada Atlantic	282,355-20	282,355 20		Ontario	270,000 0 200,000 0
120 121	Ottawa, Arnprior and Parry Sound Central Counties	932,512 00	932,512 00		Ontario	577,326 0
122 123	Pembroke Southern Grand Trunk Pacific	64,000 00 14,994,416 66 1 269 299 26	64,000 00 ‡4,994,416 66 1,269,299 20	10,000,000 00	**	$\begin{array}{c} 55,500 & 0 \\ 376,320 & 0 \end{array}$
$\frac{124}{125}$	Hereford International of New Bruns-	170,560 00	179,560 00		Quebec	103,000 0
126 127	wick	726,080 00 58,334 27	726,080 00 †58,334 27		New Brunswick	275,000 0 135,000 0
128	(abandoned)	$\frac{22,400}{2,174,190}$ $\frac{00}{72}$	22,400 00 2,174,190 72		British Colum-	
129 130	Klondike Mines *Kootenay Central	197, 184 00 1, 065, 856 00	197,184 00 1,065,856 00		bia	1,110,700 0
131 132 133	L'Assomption (abandoned). *Lake Erie and Northern Lake Erie and Detroit	11,200 00 320,191 40	11,200 00 320,191 40			
134	River and London and Port Stanley.	571,851 00	571,851 00		Ontario	83,000 0
135 136 137	Lottoniand For Stanley. Lottoniare and Megantic Maganetawan River. Maritime Coal, Ry. and	96,000 00 3,552 00	96,000 00 3,552 00		Quebec Ontario	126,994 0 10,000 0
138	Power Co Massawippi Valley Minudie Coal and Ry. Co	$ \begin{array}{r} 40,700 \ 00 \\ 5,376 \ 00 \\ 18,544 \ 00 \end{array} $			Nova Scotia Quebec	39,788 0 5,000 0

[†]Includes loan used iron rails. ‡Paid under the special "Implement Clause."

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by Governments and Municipalities, to 30th June, 1917—Continued.

Government	ts.			By Munic	ipalities.		
Subsidy Paid up.	Loan.	Subscription to Shares.	Subsidy Granted.	Subsidy Paid up.	Subsidy Loan.	Subscription to Shares.	
\$ ets	s. \$ ets	. \$ cts	. \$ cts.	\$ ets.	\$ cts.	\$ cts.	
107,500 0	0		13,000 00	13,000 00			
179,073 0	0						
68,000 0	0		966,000 00	008 000 00			
18,740 0	26,000 06)	113,000 00	996,000 00 113,000 00			
10,740 0	20,000 00	1	113,000 00	115,000 00			
336,000 0	0		929,000 00	929,000 00			1
,			213,000 00			* 0.000.00)
224,660 0			85,500 00	213,000 00 85,500 00		50,000 00	
565,020 00		4 4 1	599,805 00	599,805 00			
$178,630 \ 00168,350 \ 00168$			311,500 00 144,870 85	311,500 00 144,870 85			
150,000 00			21,774 00	21,774 00			
196,188 00 83,300 00			241,980 00	241,980 00		390,000 00	1
			65,000 00	65,000 00			
105, 212 00			376,702 59	376,702.59			
53,000 00 312,000 00			100,000 00 186,000 00	100,000 00 186,000 00			
			47,000 00	47,000 00			
241,276 00)		682,000 00	682,000 00			
94,957 59 $270,000 00$			222,094 93 154,392 00	222,904,93 $152,900,00$		32,000 00	
200,000 00			104,002 00	152, 900 00	•	52,000 00	
577,326 06	8						
55,500 00			24,000 00 20,000 00	24,000 00 $20,000 00$			ı
376, 320 00			350,000 00	350,000 00			
84,226 36							
275,000000 $135,00000$			5,000 00	5,000 00			
21,000 00			())				
, 110, 700 00							
83,000 00			356,500 00	356, 500 00			ĺ
126.994 00					1,332,854 00	414,000 00	
10,000 00			,				
39,788 00							
5,000 00						65,000 00	

\$8 George V, A. 1918 Table 5.—Statement of Aid, granted and paid to Railways

šo.	Name of Railway.	By I	Doi	minion Gov	ern	ment.	I	By Provincia
	.vame of Itahway.	Subsidy Granted.	-	Subsidy Paid Up		Loan.	Name of Province.	Subsidy Granted.
			ts.		ts.	\$ cts.		\$ ets
$\frac{40}{41}$	Montreal and Atlantic: and, Lake Champlain and St.						Quebec	414,000 0
	Lawrence Jet						**	250,280 0
42	Montreal and Province Line	58,560					**	231,122 0
	Moneton and Buctouche	102,400					New Brunswick	96,000 0
$\frac{44}{45}$	Napierville Junction New Brunswick Coal and	173,440	00	173,440	00		Quebec	· · · · · · · · •
	Ry, Co	190,400	00	190,400	00		New Brunswick	224,000 0
46	New Brunswick and Prince Edward Island	113,440	00	113,440	00			99,708 9
47	North Shore (N.B.)	27,616					**	16,200 0
18	Northern New Brunswick							10,200 0
4.0	and Seaboard	108, 160		108,160				
$\frac{19}{50}$	Ottawa and New York Phillipsburg Ry, and Quar-	262,384	00	262,384	00		Ontario	35,000 0
	ry Co	23,712	00	23,712	00		Quebec	25,667 0
51	Pontiac and Renfrew	13,600	00	13,600	00			17,433 0
	*Quebec Bridge and Ry. Co.	374,353	33	374.335	33			250,000 0
53	Quebec Ry., Light and Power Co	96,000	00	96,000	00			306,945 5
54	Quebec Central	585,038		585,038				1,076,123 1
55	Quebec Oriental	846,885		846,885				1,596,390 0
56	*Quebec and Saguenay	248,801		248,801				
57	Quebec, Montreal and							
58	Southern, and United Counties, East	500,386	25	500.386	25		Quebec	207,565 0
90	Richelieu Valley	69,952	oo.	69.952	00			115,215 0
59	South Shore	296, 998		296, 998				276,645 0
	Roberval and Saguenay.	231,787		231, 787				270,040 0
31	Salisbury and Albert	29,665		†29,391			New Brunswick	455,000 0
32	Schomberg and Aurora	48,000		46, 144			New Didnessier	455,000 0
53	*Southampton (N.B.)	81,280		81,280				
	St. Clair Tunnel	375,000		375,000				
	St. Lawrence and Adiron-	,		3.3,000				
	dack	149,481	60.	149,481	60		Quebec.,	70,400 0
36	*St. John and Quebec	598,319	70	598,319	70			
37	St. Martins	83.612	54	†83,612	54		New Brunswick	145,600 0
38	Sydney and Louisburg							
39.*	(Dom. Coal Co.) Thessalon and Northern	89,600	00	87,808	00		Nova Scotia	87,808 0
	Ontario	6.112	00.	6,112	00			
0	Temiscouata	645,950	00	645,950			Quebec	362,250 0
71	Temiskaming and Northern						New Brunswick	66,000 0
1	Ontario	2,134,080	oo'	2,134,080	00			
72	Thousand Islands	61,200		2, 134, 080			Ontario	
	Toronto, Hamilton and	51,200	-	20,010	00			
	Buffalo	57,600	00.	57,600	00		, "	
4	York and Carleton	32,896	00	32,896	00		New Brunswick	$25,247 \ 0$
	Total	118 204 991	05:	116 962 222	63	25 576 533 33		31 374 184 8
	rotar	110,201,331	00	110,002,220	00	20,010,000 00		91,917,104 0

^{*}Under construction. †Includes used iron rails. ‡Includes Ha Ha Bay Railway.

SESSIONAL PAPER No. 20b by Governments and Municipalities, to 30th June, 1917—Concluded.

Governments				By Muni	cipalities.		
Subsidy Paid up.	Loan.	Subscription to Shares.	Subsidy Granted.	Subsidy Paid up.	Loan.	Subscription to Shares.	Ne
\$ cts. 315,891-89	\$ ets.	\$ ets.	\$ cts.	\$ ets.	\$ cts.	\$ cts. 528,000 00	14
$\begin{array}{c} 250,280 & 00 \\ 231,122 & 00 \\ 94,500 & 00 \end{array}$			51,000 00 25,000 00	36,000 00 25,000 00			14 14 14
224,000 00			10,000 00	10,000 00			14
99,708 90 16,200 00							14
35,000 00			85,000 00	85,000 00	 		14 14
$\begin{array}{c} 25,667 & 00 \\ 17,433 & 60 \\ 250,000 & 00 \end{array}$			300,000 00	290,817 46			15 15 15
206, 945 50 1, 076, 123 14 947, 199 25			103,000 00 50,500 00	103,000 00 9,000 00			15 15 15 15
207,565 00							15
115,215 00 276,645 00 455,000 00			25,000 00 12,365 30 70,000 00	25,000 00 12,365 30 70,000 00			15 15 16 16 16
70,400 00							16
145,600 00							16 16
82,000 00							16
362,250 00 66,000 00			25,000 00	25,000 00	\	· · · · · · · · · · · · · · · · · · ·	16 17
			10,000 00	10,000 00			17 17
25, 247 00			268,000 00	265,500 00			17: 17:
29,940,865 16	7,197,030 00	300,000 00	12,919,693 20	12,670,837 78	2,404,498 62	3,459,500 00	

Table 6.—Barnings of Railways for the year ending June 30, 1917.

	÷1	55	7	FC:	9	1-
		Ean	Carnings.			
	Passenger.	Freight and Switching.	Other Earnings from Operation.	Total Gross including other Earnings from Operation.	Operating Expenses.	Net operating Earnings.
	& CIS.	% 25	\$6 2 2 8	&	× 5 ∞	& G ×
	70,949 39	809,003 50			969, 481, 56	186,996 08
:	16, 183 60		28 + T + 151 28 + T + 151 28 + T + 151 29 + T + 151 20 + T + 151 20 + T + 151 21 + 151 22 + T + 151 23 + T + 151 24 + T + 151 25 + T + 151 26 + T + 151 27 + T + 151 28 + T + 151 29 + T + 151 20 + T	626, 640 75	159, 738, 43	31 920 T.F. — 12 910 SEE —
					132, 498 20	
	51,862 40 18,683 41	219,570 79	3 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	200, 000 000 100, 100 000	ST 685.17	4.295 68
		9, 440, 972, 17		977		
:	4,900,673 27			18,023,955 14	16,385,815 23	1,638,139,91
Canadian Covernment Railways (Prince Edward Island)	6 718 575 53	35 136, 913 07	4, 154, 487, 57			
				115	96, 657, 441-72	
	6,774 48	4,928 57	658 04	340,645,36	274, 340, 95	66,305,25
		53,621 73		80,741 86	79,959 69	
	12,358 31	83,458 70	4,945 13	100,762 14	206, 237, 04	05,474,90
		6.619.91		11,300 27	30, 437 39	
		614, 285 46		1,152,274 45	830, 278 07	
		25,894 96	1,873 15	29,466 06	34,954 20	-8,488 14 -8,764 90
	1,707 56	7,450 29	1, 127 70			
-		79, 795 73	18,732 30			
	180,391 71	428,910 34		656,711 21	53 460 60	41, 233, 78
	11.131.954.82					
	1,047,245 33	919	1,024,535 89	6,651,298 18	6,857,032,99	-205,734.81
	314,709 07	1, 142, 796 03	150,015 90			

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	1, 489, 681 335 1, 489, 681 335 566, 082 35 566, 082 35 566, 082 35 20, 135 40 19, 550 00 11, 550 00 11, 550 00 11, 550 00 11, 550 00 12, 580 40 12, 580 53 12, 580 53 13, 580 53 14, 580 53 15, 580 53 16, 580 53 17, 580 53 18, 580 53 18, 580 53 19, 580 53 19, 580 53 10, 5
181, 370, 17, 857, 33, 736, 89, 83, 736, 89, 83, 736, 89, 89, 89, 89, 89, 89, 89, 89, 89, 89	288, 668, 65 287, 868, 677, 713, 645, 66 1, 173, 645, 16 1, 192, 354, 80 202, 687, 19 80, 741, 28 38, 741, 28 38, 741, 28 112, 975, 75 153, 157, 37 153, 157, 37 158, 157, 37 1710, 651, 25 1710, 729, 57 1710, 729, 73 1710, 73
135, 960 26 25, 357 33 569, 1357 33 14, 788 86 19, 77 21 12, 421 22 17, 541 22 17, 542 24 18, 560 75 18, 963 35 1, 301, 293 46 88, 964 91 7, 113, 246 41 7, 113, 246 41	295, 243, 277 179, 671, 100 3, 203, 336, 511 1, 758, 437, 115 1, 758, 437, 115 1, 252, 283, 23 100, 291, 288, 23 100, 694, 37 1, 45, 955, 26 1, 45, 955, 26 1, 45, 955, 26 1, 45, 955, 26 1, 224, 561, 42 2, 224, 561, 42 2, 192, 093, 23 2, 192, 093, 23 47, 085, 29 3, 138, 80 47, 087, 50 3, 969, 001, 33 6, 521, 73 6, 521, 73 1, 171, 179, 10
3, 230 40 2, 928 49 2, 928 49 1, 8410 51 1, 111 24 1, 250 00 2, 570 57 2, 570 57 2, 570 57 1, 444, 04 1, 444, 04 1, 444, 04 1, 444, 04 1, 6, 035 64 1, 7, 7, 8 1, 1, 44, 04 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	36.980 25 56.980 25 57.611 52 97.516 53 97.516 53 97.516 53 97.516 53 97.516 53 97.516 53 97.516 53 97.516 53 97.517 53
96, 206 63 388, 463 45 388, 463 45 28, 867 69 26, 1016 84 90, 101 84 147, 176 86 178, 047 62 21, 024 72 1, 030, 379 14 147, 092 88 6, 095, 722 85 88, 962 64 17, 347, 086 54 17, 347, 086 54 21, 039 28	178. 333 00 3. 032, 750 93 1. 215, 001 08 22, 179 81 157, 941 25 91, 361 47 119, 819 90 119, 819 90 119, 819 90 119, 884 31 50, 271 11 1, 356, 276 99 1, 356, 276 99 1, 356, 276 11 1, 356, 276 99 1, 356, 276 99 331, 333 70 1, 653, 384 31 1, 653, 584 31 1, 653, 584 31 1, 653, 584 91 1, 653, 585 46 1, 653, 585 55 1, 653, 585 55
36, 523, 23 151, 528, 83 151, 638, 63 4, 634, 12 11, 618, 89 6, 134, 57 66, 134, 57 12, 38, 90 11, 307, 25 10, 215, 39 17, 501, 62 17, 501, 62 1, 534, 63 1, 534, 63	79, 331 24 40, 742 00 112, 974 06 145, 919 44 155, 0219 97 56, 0219 97 56, 0219 97 56, 0219 97 57, 021 31 58, 021 59, 140 99 28, 140 99 28, 140 99 48, 389 3 48, 389 3 1, 620 81 119, 620 81 1, 633 00 1, 633 00
Kent Northern Kent Northern Kettle Valley. Lotbiniere & Megantic. Lotbiniere & Megantic. Maintoba Great. Northern Maritine (voal Ry. & Power Co Massawippi Valley. Montrol & Burtouche. Montrol & Burtouche. Montrol & Atlantic. Napierville Junetion. Napierville Junetion. National Transcontinental Nelson & Fort Sheppard. Nelson & Fort Sheppard. New Brunswick & Prince Edward Island. New Westminser Southern.	North Shore North Shore Ottawa & New York Pacific Great Bastern Pacific Great Bastern Quebec Central Quebec Central Quebec Mantreal & Southern Quebec Mantreal & Southern Rad Mountain Sal Lawrence & Adirondark St. Jawrence & Adirondark St. Jawrence & Adirondark St. John & Quebec. St. Martins Sydowy & Louisburg St. John & Quebec. Temisconaia Temisconaia Temisconaia Temisconaia Victoria Yerloria & Eastern Victoria Terminal Railway & Ferry Co. Victoria & Sidney, B.C. Victoria & Sidney, B.C. Victoria & Carleton York & Carleton

Table 7.—Earnings and Income for the year ending June 30, 1917.

Revenue from Transportation-Rail Line.

																			8	GI	EC	R	GE	١ -	√,	A.	19	1
Muil.	es cts.				2,442.24		60	378	SS	1 459 997 80	į -							2, 196 94		10 101 99							9,745 38	
Parloar and Chair Car,	es cts.				TO TO!	76 705 1				18,368 87		442 68				2000	0, 322 45			2 199 %		100,735 41	358 99				*	-
Sleeping Cars.	€÷							263, 796-89	000 000	200, 634 50						07 877		11,837 77					107,979 76	3,931 86				
Excess Видинде.	ee c(s	262 08	324 28	39 04	181 46	398 32	27,763 62	33,536 28	2,278 55	349 519 87	70 75	955 97		103 21	338 55	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0,417.00	641 57		9 539 06		59,339 62	7,001 65	2,115 72	104 66	214 26	1,723 41	-
Per Passenger per Mile.	C'ents.	3,927	100.50	3,869	9-503		2.346	1.555	1,661	80.5	2,890	3 165	2.891	3,502	080.5	536.6	6000	3.589		090.6	3 - 152	1.901	2.136	#C6. 51 5	027.0	1	2.966	
Passenger.	e		46, 183 au		22, 405 46	16,680 43	3, 371, 483, 56	4,900,673 27	162,105 4S	97 936 719 91	6,771 48	115,674 93	22,904 02	12,358 31	13, 765 48		447,707,75		1,707 56	186 391 71	7,681,98	11, 134, 954 82	1,047,245 53	314,709 07	13,055 51	7,735 88	151,258 63	
Per Ton per Mile.	Cents.	0.744		0.626	1.203	3,186	0.651			0.675		1.509	33.166	1,099	90.	1.093	0121.0	6F6 · 1		0.710	1.555	0.738	0.731	†01·1	700.1	701-1	1.549	
Freight.	es cts.	681,115 58			919,896,90	26, 653, 75	9,391,949 41	10,916,071 21	280,340,98	101,001,074 SI			53,621 73	SS, 527, 70	79,405 35	15 610 a	25 E97 E9	262,589 79	7,450 29	100 100 100 T	86,031-10	31,093,103 34	4, 557, 112 80	1, 132, 921 91	90,550 41	14,692.96	384,707,31	
Name of Railway.		Algoma Central and Hudson Bay	Algoma bastem.	Aborta & Great Waterways.	Brandon, Saskatchewan & Hudson Bay	inal				Canadian Pacific	('ape Breton	Central Vermont.	Caraquet & Gulf Shore	Crow's Nest Southern	Cumberland	Central Canada	Costom Sritish Columbia	Edmonton, Dunyegan & British Columbia	Elgin & Havelock	Essex 1 criminal	Predericton & Grand Lake Coal & RIV Co	Grand Trunk	Grand Trunk Pacific.	Grand Trunk Pacific Branch Lines Co.	International of New Permaniels	Kent Northern	Kettle Valley	TOTAL MANAGEMENT OF THE PROPERTY OF THE PROPER

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218 01 280 68 577 92 3,550 10 8759 30 804 00 13,383 41	14, 498 34 1, 502 40 1, 452 90 4, 741 76	4,732 59 1,520 00 10,661 12 28,285 64 5,288 80 3,953 07		1,079 60 2,320 34 2,241 43 1,015 88 4,016 22 1719 43 25 26 395 93	3, 169, 910, 97
1,161 80			1,076 92	855 00	268,875 33
99 166'4	35,345 99			3,979 69	2,832,750 58
	3,278 3,278 146 15 15 15 15 15 15 15	547 62 198 00 1, 198 09 4, 547 43 1, 140 52 11, 142	20 64 89 93 91 30 753 66 209 27	500 20 787 93 4, 641 00 248 87 1,988 60 991 03 3,212 39	569,566 07
2 2 2 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	2.632 3.257 2.418 3.166	2 6 6 9 9 9 9 9 9 1 1 1 1 1 1 1 1 1 1 1 1	2.718 2.692 1.659 2.416 2.521	388.5 9 2 388 9 2 5 6 9 2 5 6 9 2 5 6 9 2 6 9 6 9 2 6 9 2 6 9 2 6 9 2 6 9 2 6 9 2 6 9 2 6 9 2 6 9 2 6 9 2 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9	
11, 618 89 5, 502 34 6, 134 57 66, 812 53 96, 774 45 12, 368 193, 474 03 11, 307 25	25,52,53 25,	331 742 974 919 019 628	5501 5501 551 551 694 694	48, 994 50 48, 385 33 674, 08 77 7, 765 17 427, 156 17 119, 620 81 1, 800 53 383, 600 90 1, 653 000	61,290,290 70
0.6055 0.555 0.555 0.889 0.884 0.884 1.188	0.709 0.503 0.503 2.393 2.615 2.615	0.577 0.591 1.334 1.382 1.101 3.438	3,835 3,835 1.743 1.089 2.419 6,034	1-161 2-512 0-921 11-327 1-350 0-907 6-545 6-545	
7,037 08 34,624 76 89,189 97 145,640 62 170,030 11 21,022,281 38 64,490 91	325 325 337 039 039	784 331 941 941	488 5 3 3 5 6 6 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6	678,518 69 161 045 82 1,346,570 32 26,670 32 1,535,423 94 383,397 08 18,985 98 3,372,555 55 4,629 41	215, 245, 256 49
Maine Central Manitoba Great Northern Maritime Coal Rly, & Power Co Massawippi Valley Midland Rly, of Manitoba Moncton & Buctouche Montreal & Atlantic Morrissey, Fernie & Michel	National Transconfinental Nelson & Fort Sheppard New Brunswick Cod & Rig. Co. New Brunswick Cod & Rig. Co. New Westminster Southern Northern, New Brunswick & Seabord Northern, New Brunswick & Seabord	North Show York. Pacific Great Eastern Pere Marquette. Quebec Central. Quebec, Montreal & Southern Quebec Oriental. Quebec Riv Linth & Power Co.	Red Mountain. Red Mountain. Retland & Noyan. Roberval-Saguenay. Salisbury & Albert. St. I awrrence & Adirondack. St. John & Quebec.	Sydney & Louisburg Temiscouata Temiscouata Temiskaming & Northern Ontario Thousand Islands Toronto, Hamilton & Buffalo Varcouver, Victoria & Eastern Victoria Terminal Rly, & Ferry Co Victoria & Sidney, B.C. Wabash (in Canada) York and Carleton	Final total

TABLE 7.—Earnings and Income for the year ending June 30, 1917—Continued.

Name of Railway.	Express.	Other Passenger Train.	Milk.	Switching.	Special Service Train.	Other Freight Train.	Water Transfers Freight.	Total.
	& 5 2 2 3	35	**************************************	E G	* ± 5	- G.	es-	se cts.
Algoma Central & Hudson Bay	3,089 16			127, SS7 92 13 647 17	3,321 30	2,072 75		888, 693 18 589, 244 57
Atlantic Quebec & Western Albartia & Great Waterways	1,725 96			-		- :		139, 421 59
Brandon, Saskatchewan & Hudson Bay.	1,862 70	19 87		4,948 67				
tish Yukon.					87.30	1		280, 164 0
anada Southern		23,240 40	928 26	18, 022 76		81 0		
anadan Govt, Rlys. (Intercolonial)	669,327 93	66 778	34,335 63	76, 468 66		90 90+		17,312,273 56 436,108 64
Sanadian Northern System	1,096,264 37	17, 412 07	57,536 16	522, 838-26	29,554 57	130 08		10,617,439 6
anadian Facilie.	5, 916, 004 17	12,922 74	200, 555 59			2 :		27, 450, 555 12, 361 05
entral Vermont		S0 081	2, 239 29	3,781-02				336,943 4
araquet & Cult Shore	10.000	16 03		115.00				98,837.9
Jumberland				00 00				97,925 7
Sentral Canada	104 20	101 65	77.7. 0.	1 166 95	935.50	27 09		1 138 037 6
Sastern British Columbia								
dinoaton, Dunyegan & British Columbia	9,458 13			2,836 71	E E			
Sign & Havelock	451 62			2,000.04		3, 598 10		2 00 00 00 00 00 00 00 00 00 00 00 00 00
Squimal & Nanaimo	10, 149 09	71 00	4,209 44	00 91		20 00		
Fredericton & Grand Lake Coal & Bly. Co	1 072 240 62	11 291 60		61.0 230.10	99 505 33			14,539 7
and Trunk Pacific		920 40	1,458 14	22, 403 96	9,974 73			349,904
Grand Trunk Pacific Branch Lines Co	73,584 34			9,874 12	1,819 54			1,559,777 2
Herelord	550 75			5 13 13 13 13 13 14 13 15 13 16 16 13 16 1				134,895 72
Kent Northern	1,775 97							25, 120
Kettle Valley of biniore & Merantic	(2,909 62			3,736 12	25 1501	00 677		34,773.86
Maine Contral	851 63							

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190	953 755	410 646	2,339 04 7,055 471 02 7,055 471 05 7,055 471 05	32,386 50,694 23,297	294,174		255 21					81,083		174, 175				3,127	3 808 978 13	6,521	
	1,536 24 8,017 51		24 75 51,397 22		116 79	29,379 98	1,682 95		951 00	32, 911, 34		90 8			9,712 37						
		2, 152 23	459 51 646 62		1,875 94	2,667-68	10 181				15 990 91				99 +	:			2,119 39		
5 07	111 30	118 15	5 40 50 00 15 13	5 10	397 19		268 10		5 99		19 619						156 73		177 58		
	999 96 20, 359 83		625 87 51,345 89 2,142 25	9888			27,488 46 12,346 52		943 28	-	454 65	545	08 911				91,599,89			219 32	
Manitoba Great Northern Maritime Coal, Rdv. & Power Co	Massawippi Valley Midland Rly, of Manitoba	Moneton & Buctouche Montreal & Adantie Torrison Fornia & Michel	Napiercylle Junction National Transcontinental Nelson & Fort Sheppard	New Brunswick Coal & Rly. Co. New Brunswick & P. E. Island. New Westminster Southern. Northern New Brunswick & Seaboard.	North Shore Ottawa & New York	Pere Marquette	Quebec Central Quebec, Montreal & Southern	Quebec Oriental. Onebec Blv., Light & Power Co	Red Mountain.	Roberval-Saguenav	Salisbury & Albert St. Lawrence & Adirondack	St. John & Quebec.	St. Martins	Temiscouata	Temiskaming & Northern Ontario.	Thousand Islands	Vancouver, Victoria & Eastern	Victoria Terminal Rly. & Ferry Co.	Victoria & Sidney, B.C. Wabash (in Canada)	York & Carleton.	

TABLE 7.—Earnings and Income for the year ending June 30, 1917—Continued.

								8 0	SEOR	GE V	Α.	1918
	Total.	& cts.		184, 356 29 209, 317 87 169, 381, 99	3,834,255 15							
	Other.	& cts.		219 71 6 90 6 90 6 90 6 90	82,067,28							
4	Express,	æ ≘3.		9, 465 33	39, 904 61							
Revenue from Transportation—Water Line	Mail.	es cts.			71.307 11							
Transportatio	Other Passenger Service,	& cts		1,720 85	22 25							
Revenue fron	Exress Baggage.	& cts.		852 66	2,170 38	=						
	Passenger.	se cts.		67,916 40	1,719,111,17							
	Preight.	& cts.		184, 136 58 129, 355 73	1,919,672 35							
	Name of Railway.		Algoma Central & Hudson Bay	Canada & Gulf Terninal ('anada & Gulf Terninal ('anada Southern ('anadian Govt. Rlys. (Intercolonial) ('anadian Covt. Rlys. ('Intercolonial)	Canadian Pacific	Caraquet & Gulf Shore Caves Nest Southern	Central Canada. Dominion Atlantic Eastern British Columbia.	Edmonfon, Dunvegan & British Columbia Elgin & Havelock	Escar, Cuming Esquimalt & Nanaimo Frederickon & Grand Lake Coal & Ry. Co Grand Trumb	Grand Trunk Pacific Grand Trunk Pacific Branch Line Co.	Interestoria International of New Brunswick Kont Northern	ž

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Manitolia Crost Monthons		_	-	-			-	
Memitimo Cool Ply & Douge Co								S
Memorine Volley								E
Massawippi valicy							•	S:
Midland Kly, of Manitoba								SI
Moneton & Buctouche								C
Montreal & Atlantic								7(
Mountaine Tourie & Michal								
Morrissey, Perme & migner								\L
Napierville Junction						-		
National Transcontinental								P
Molbon & Dont Chamond								A
TVEIDOR OF FOLEDBARD CO.								P
New Brunswick Coal & Kly. Co								E
New Brunswick & P. F. Island.								R
Now Westminster Southern								
N								٧.
NOTE IT OF DIMINISTRA CONTROL OF THE AT A T OF THE OTHER PROPERTY.								0.
North Shore						-		2
Ottawa & New York								20
Pacific Great Eastern								lb
Done Money to								
reic maidheach								
(Juebec Central								
Ouchec, Montreal & Southern								
Ourles Oriental								
Quebec Oriental.								
Quebee Kly., Light & Power Co		-						
Red Mountain								
Roberval Sagnenay								
Dutland & Marson								
Numana & Noyan								
Salisbury & Albert				:				
St. Lawrence & Adirondack								
St. John & Oneboc								
Ct. Months						-		
of Martins								
Sydney & Louisburg								
Temiscouata								
Temiskaming & Northern Ontario								
Thousand Islands								
Thomas I Describe to Dr. Calo								
Toronto, manificon & formato.								
vanconver, victoria & Eastern								
Victoria Terminal Kly, & Ferry Co								
Victoria & Sidney, B.C.								
Wahash (in Canada)								
Vinte and Conferen								
LOIN and Catieton								
Final total	9 965 118 77	1 841 256 59	3 093 04	1 743 10	11 202 12	55 057 89	158 801 93	1 307 311 30
A Attent to treet.	1, 201, 1001, 1	1,011,000 00	10,000,0	1, 13	11,000,11	20,100,100	20,001	

Table 7.—Earnings and Income for the year ending June 30, 1917—Continued.

	Demurrage, Telegraph and Telephone,	& cts.	142,303 00 3,416 53 1,772 00 979 50	343 80 327 64 334 40 547 15		5 4 55	991 00	1,171 00	2, 239, 25 2, 239, 25 43, 27 1, 619, 66		4,445 00 1,655 00	14 3,075 38 65 00	7, 05 124 00 102 00 102 00 102
	Storage Ваggage,	S. C.		0 65	3, 833, 25 3, 587, 75 8, 587, 758	888	8 55		3 25 126 32	2 40	105 20	# <u>9</u> 22	29 30
al.	Storage Freight.	** = = = = = = = = = = = = = = = = = =	12, 494 66 10, 002 74	19 44 5 32 553 65	13 49 1,602 94 15,574 53	23, 214 87 135, 753 54	3.46 38	Dr. 4 65	5 70 940 79	115 95	672 95	28,876 45 2,014 75 599 39	24 H 80 24 H 80 25 H 80 8 H 80
Incidental	Parcel Room.	ese Z	- :		5,413.24	11,064 25 51,022 35	13 10	5 00 Dr				14, 201 67 574 45 90 00	0 3 3
	Station, Train and Boat Privileges.	×.	8 *	1, 190 00	3,356 01	7, 280 46 11, 475 59	10 25		800 01	3, 483-37	135 00	44,647 45	31 24
	Hotel and Restaurant.	\$ 5 ×			23,041 70 23,632 56	101,045 09 394,859 26							
	Dining and Buffet,	** = = = = = = = = = = = = = = = = = =	. :		142, 705 50 321, 209 13	1, 664, 671 41			1, 123 60			369, 502, 00 164, 319, 33 13, 980, 01	
	Name of Railway.		Algonia Central & Hudson Bay	Mlantic, Quebec and Western Mherta & Great Waterways Brandon, Saskatchewan & Hudson Bay	Canada & Gulf Terminal Canada Southern Canadian Govt, Rlys. (International)	('r. f., 1stand). ('anadian Northern System. ('anadian Pacific.	ape Breton entral Vermont.	Taraquel & Cull Shore.	Pominion Atlantic	Eastern Fritsh Columbia. Edmonton of transfer & British Columbia	Essex Terminal Esquinalt & Nanaino	Fredericion & Grand Lake Coat & Kly, Co. Grand Trunk Pacific Grand Trunk Pacific Branch Line Co.	Hereford International of New Brunswick Kert Morthern Kettle Valley,

221 00	96 00 89 57	25	280 00 23 84 360 47 13,944 58 171 00 2,057 55	55 00	72 25 13 02 38 00	65 00 70 00 11 00 463 30	34 20 40 00 294 42 04 95	213 53 73 50 7 05 03 00 9 48 150 36	90 52 90 75 62 155 51 51 51 51 51 51 51 51 51 51 51 51	89 1,706 08	035 00	14 72 328, 295 29
e1 	1, 196 5, 289	17,159	<u>:</u>		-	10, 465 5, 111 1,779	34 10 10 10 10 10 10 10 10 10 10 10 10 10		3, 680 1, 742 18, 215		63	1,526,214
	01 011	9.75	87 65 15 60	3 52	8 70	9 70 276 07 16 10	0+ 2	0 52	335 90	16 71 16 779	14 85	77,134 48
GF 9	562 79 644 90	726 31	12 14 4,904 47 16 25	1 80		947 95 1, 180 26 279 89	27 ±2	36 16	63 29 87 15 1,619 05	591 1,365 1	Dr. 4 45	247, 132 61
01 0	26 0		0 10	1 25	2 00		3 00			8 4 87		82,446 02
***			3, 187-12	1 90	34 32	118 21 4,899 13 120 00	124 10	244 81 106 94	500 00 5,400 02	382 32 40 59	1,185 49	99,875 58
												542, 581 61
	9,618 48		Dr. 2,580 86			11, 186 14			16,772 84	22, 720 27 3, 747 88	10,344 66	3,026,048 70
Manitoba Great Northern	Maritime Coal, Rly, & Power Co Massawippi Valley Midland Rly, of Manitoba	Moneton & Bactouche. Montreal & Atlantic. Montreal & Atlantic.	Morrissey, France waters: Napierville Junction National Transcontinental Nelson & Fort Sheppard	New Brunswick Coal & Rly, Co New Brunswick & P. E. Island. New Westminster Southern. Northern New Brunswick & Scaboard	North Shore Oftawa & New York	Pacific Great Eastern Pere Marquette Quebec Cintral Quebec, Montreal & Southern	Quebec Oriental Quebec Rly., Light & Power Co Red Mountain	Koberval-saguenay Rudand & Noyan Salisbury & Albert St. Lawrence & Adirondack St. John & Quebec	Nydmerths Nydmery & Louisburg Temiskonutu Temiskanning & Northern Ontario.	Thousand Islands Toronto, Hamilton & Buffalo Vancouver, Victoria & Eastern Victoria (P. Eastern)	Victoria & Sidney, B.C. Wibash (in Canada). York and Carleton	Final total

TABLE 7.—Earnings and Income for the year ending June 30, 1917—Concluded.

				Incidental—Concluded	Concluded.			
Name of Railway.	Grain Elevators,	Stockyards,	Rents of Buildings and other property	Miscellancous.	Total.	Joint Facility.	Joint Facility. Joint Facility.	Total Operating Revenues.
						('r.	1) r.	
	&. E.	& E	ec E	s cts	s cts.	æ. €	s cts.	s cts.
Algoma Central & Hudson Bay.				109, 565-87 24, 641-94	267,780 06 37,396 18			1, 156, 478 24 626, 640 75
Atlantic, Quebec & Western Alberta & Great Waterways Brandon, Saskatchewan & Hudson Bay			3,271 45		5, 166 33			139,421 59 $61,992 52$ $48,107 07$
British Yukon Canada & Gulf Terminal		:	1,050		3, 724 S4 667 36			283,888 88 46,284 86
Canada Southern Canadian Govt, Rlys. (Intercolonial).	6,190 82	9, 622, 76	6,613 20,635		251,349 23 527,225 29			13, 529 977 84 18, 023, 955 14
('anadian Northern System ('anadian Pacific.	229, 498 63 828, 629 54	82 56	219, 603 56 957, 137 36	603, 276 87 603, 276 87 608, 848 82	21,505 03 1,870,912 03 5,228,607 25	345,587-21	3,344 36	000, 999 42, 999, 976 146, 713, 115
Cape Breton Central Vernong.			2,512 54 Dr.	Dr. 180 00	3,701.82			12,361 09 340,645 30
(Tow's Nest Southern			720.00		1,924 18			80,741 86 100,762 14 99,053 32
Central Canada. Dominion Atlantic Eastern British Columbia. Edmonton, Dunvegan & British Columbia.		•	8, 159 96 522 65 3,716 96	803 60 248 32	30 17 14,236 80 1,598 15 11,801 88			11,300 27 1,152,274 45 29,466 06 487,605 56
Elgin & Hayelock Essex Terminal Esquimalt & Nanaimo			908 00	9,781 20	15, 134 20			10, 285 55 98, 528 03 656, 711 21
Frogeration & Orand Lake Cont & Riy. Co Grand Trunk Acrific Grand Trunk Pacific Branch Lines Co.	125,025 27	557 10	140, 722-19 29, 437-04 7, 581-08	_	1,250,817 40 280,040 53 33,241 79	3,942 15 21,353 61	4,714 35 0 19	94, 094, 58 46, 951, 270, 39 6, 651, 298, 18 1, 593, 019, 00
Hereford International of New Brunswick Kent Northern Kettle Valley:			237 50 1 00 1 1,206 80		484 SI 1,064 54 237 16 4,595 23			73, 187 91 135, 960 26 25, 357 33 569, 134 57

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788	7 0 0 02 424 22 22 424 22 22 425 425	299, 243, 27 179, 671 00 1, 758, 477 15 1, 758, 477 15 10, 291, 884, 59 10, 329, 884, 59 10, 329, 884, 59 10, 329, 884, 50 10, 329, 884, 50 10, 329, 884, 50 10, 484, 50 10, 544, 544, 544 10, 5	72 8,839 76 310,771,479 10
	21 0	51, 995-5	425,878 7
15 00	231 07 48 00 48 00 1, 552 57 1, 552 57 29, 646 61 7, 755 39 7, 775 39 2, 458 823 5, 458 823 108 75	1,068 50 16,855 52 37,195 10 2,188 29 31,156 68,233 14 1,811 75 11,293 25 11,293 25 11,293 25 11,252 95 11,575 62 11,527 62	10, 407, 098 90
	20 1 20 1 20 1 20 1 20 1 20 2 20 1 20 3 3 2 20 6 4 20 2 20 2 20 2 20 2 20 2 20 2	86 40 315 00 315 00 642 22 642 22 54,629 30 15 877 15 877 1,463 47 1,463 47 1,463 47 1,157 89 32,128 37 2,128 37	1,820,245 80
15 00	1, 304 00 1, 304 00 2, 831 66 4, 275 97	58 00 60 00 60 00 11,575 69 12,700 12,000 12,000 12,000 12,000 12,000 13,000 13,000 14,000 15,000 16,000	1,457,494 70
			10,262 42
	17 22		1,189,366 97
Lotbiniere & Megantie	Manic Central Manitoba Creat Northern Maritime ('oal, Rly, & Power ('o Massawippi Valley Midland Rly, of Manitoba Montroal & Maritime Montreal & Atlantic Morrissey, Fernic & Michel Napierville Junction National Transcontinental Nelson & Fort Sheppard New Brunswick ('oal & Rly, ('o New Brunswick ('oal & Rly, C'o New Brunswick & P. E. Island New Mestininster Southern Now Westininster Southern Now Westininster Southern	North Shore Ottawa & New York Parific Great Eastern Per Marquette Quebec Central. Quebec Crental. Quebec Oriental. Quebec Ry, Light & Power Co. Quebec Rly, Light & Power Co. Red Mountain. Roberval-Saguenay. Salisbury-Abber. St. Lawrence & Adirondack. St. Antins. Sydney & Louisburg. Sydney & Louisburg. Temiscounta. Temisc	Final total

Table 8.—Summary of Operating Expenses for the year ending June 30, 1917.

			Ma	Maintenance of Way and Structures.	ty and Structu	res.		
Name of Railway.	'Superintend- ence.	Rondway Maintenance.	Tunnels and Subways.	Bridges, Trestles, and Culverts.	Ties.	Rails.	Other Track Material.	Ballast,
	\$\frac{2}{8}	& 25 25	<u>×</u>	\$ G S	; ; ;	& c(s.	ý. 5	\$ 50 \$ 50
Algoria (Sentral & Undson Bay	11 159 07			1.9 ADT 10		00 000		1
Aboung Eastern				13, 620 1	10 000 1	1,000	20 007.0	98 766
Atlantic Onches & Western	25. 323	161 16	21 003					00 000
Allento & Chaot Waterman	1,040,01	101.50	C+ 000	4,007	05 270			2,742,70
Reported & Circle Water May 8. Remotion Societate bourses & Harding Press	700.1	20 000 0		35.0				<u>e</u>
mospan v	10.7	0,550		2,002 94	27 101 1	r. 112 68	1,302 98	9 3 80 3
Canada & Gulf Terminal	16 989	5, 927	:	12° 0000 °≈				9, 900 30
Canada Southern	87,348 71	122, 092	18.815 70	18, 899, 95	205 989 35		30, 760	
Canadian Govt. Railway (Intercolonial).	170,732 19	233, 920	136.			27 000 75	130,459	
	17, 278 42			79 097 7	11,439 14	50 87	980 7	1 607 11
3/5/5/ E.	271,657 15	974, 220	1,939 39	401, 795, 22			050 050	27.067.2
Canadian Pacific	621, 202, 76	2,024,791	587,563 58		1,545,758 10		189,349,85	516,220 12
Cape Breton.	250 00	3,967		1,871 08	1,516 73			
Central Vermont.	2,760 33	9,486		5,961-16	8,944 58	1, 199 38		
Caraquet & Cull Shore		4,915						2,400 34
Crow's Nest Southern		918,45				16,982 01		
Cumberland	1,072.58	12, 683						
Central Canada		6,218		115 00		1,017 68		91 968
Dominion Atlantic		27,851		19, 525, 44	28, 692, 31			2,060 78
	200 000	2, CE0 .5		1,061 05	1,313 08	r. 48 80		
Parimonton, Danyegan & British Columbia.	5, 554 05	26,830		7,117				1,070 30
February Transfered								
Estational & Mannian	3 5	F 000 00		3	75 ×18 5	7.061 52	61 211	97 ST
Fredericton & Grand Lake Cost & 18y Co.	9 38 6 2 8 8 6			15, 13, 23, 21, 21			99 291	95 93 93 93
		100 155			60 210 000	100 02	127 000	60 200 200
Grand Trunk Pacific	58 987 86 86 7 86	315 621 61	01 01:1 ::	02 PT 211		150 TOS TO	10 450	27 612 91
Grand Trunk Pacific Branch Lines	47 979 75	90 538			27. 276 90	91 010 0	109 5	0.0070
Hereford	1.830 99	5, 432				23.00	161	55.55
International of New Brunswick	4,060 S;	7,418		302 97		2.907 78	3, 583	1.797 01
Kent Northern	200	2,043		25 00	955 00			200 00
Kettle Valley	10,566 32	210,383 31		12,511 07	6,203 87			5 39
Lotbiniere & Megantic		6,525					277 05	
Mame Central	4	170		25 36				
Maritime Coal. Ry, & Power Co.	20 712 .c	7.497		1.586 45	27,839 02	39 95	404 56	
Mussawippi Valley.		6,260 26		2,958 75		6,929 72	5,876 76	

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Table 8.—Summary of Operating Expenses for the year ending June 30, 1917—Continued.

Name of Railway.	Tracklaying and surfacing.	Right of way Pences.	Snow and Sand Fences and Snow sheds.	('rossings and Signs.	Station and Office Buildings.	Roadway Buildings.	Water Stations.	Fuel Stations.
	& cts.	es ets.	s cts.	ee .	es ets.	ets.	\$ ets.	ets.
Almonia Control & Hackey Rose				195 53	3 031 46	1,390 21	2,908,55	1,238 48
oma Cantal & Hudson bay	23.781 91	58 G				232 OS	455 02	
Adantic, Ouchec & Western.								
Alberta & Great Waterways	9,248 40				384 39		1,617 32	
Brandon, Saskatchewan & Hudson Bay	11,472 33		557 36	500 33		318 05 6 27 05	415 56	191
Stritish Yukon	11,390 91							
Canada Southern	346 180 68	15 419 80		19, 584 69	29, 183, 21			
tanada Cost Pailway (Interestonial)		50 970 55		28.58	174,857 19		31,333, 12	17.648 05
when the stands (In Edward).		7.018 03		1,508 76	9,853 46	SI SS		
adina Marthorn Systom	9 189 846 60	16, 575, 50		28, 233, 20	153, 168, 29	21.273 16		
anadian Pacific	5, 155, 676, 92	142,885 92	67,359 04	119,047 37	985, 332, 23		431,682,87	147,672 7
Sape Breton				36 41		116 86		
'entral Vermont	23, 593 03	4, 137, 98	129 85		2, 428 79		121 14	77 65
araquet & Gulf Shore	1 2 2		:		10 031	30 931	60 200	
row's Nest Southern	28,040		00 50	26 GS	100 001	06 001		
umberland	06 316 6						398 93	
Continion Atlantic	54,292 17	2,780 71		1,710 41	13,849 59	153 36		1,434 13
Jastern British Columbia								
Sdmonton, Dunyegan & British Columbia	92,732 68	19 826	22 44	855 01	1,533 02	10 611	2,767 34	:
:				-			-	
Communal & Namaimo	31 901 65	1 041 13		785 20	4.245 95	384 63	1,083 66	353 5
Andericion & Grand Lake Coal & Ry. Co.						2 00		C1
	1,485,162,88	59, 141 13		196,596 12	279,260 61	15,209 82	48,531 01	21,771 8
Grand Trunk Pacific		3,381 07	2,074 21		34,261 93	3,560 29		3,336
Grand Trunk Pacific Branch Lines		2,444 67		239 18	1,037 01	280 78	30.100	•
Hereford		1,942 86	1,303 85	3,409 77	6,344 25			2,602
International of New Brunswick	24,950 51	76 17			370 06	73 73	551 46	
Kent Northern					67 770			
Kettle Valley			0c /c	1,27, 68		+, 014,4 50,500 50,500		
Jordinere & Meganile				-				
Manitoba Great Northern	65 ±65 19, 582, 99	367	76.59	106 75	795 74	188 12	548 17	24 99
Maritime Coal, Ry. & Power Co.	10, 275 64				2 50			
M		0 0 17 20		00 000	27 200 0	2001	12 066	

Table 8.—Summary of Equipment for the year ending June 30, 1917.

			Maintenan	re of Way and	Maintenance of Way and Structures-Continued.	ntinued.		
Name of Railway.	Shops and Enginehouses	Grain Elevators.	Storage Warehouses.	Wharves and Docks.	Coal and Ore Gas-producing Wharves.	Cas-producing Plants.	Telegraph and Telephone Lines.	Signals and Interlockers.
	& cts.	% 5 \$€	es cts.	\$\$ cts	es E	s ets.	ets.	± 15 €
Algoma Central & Hudson Bay	1,954 36 1,150 75			1 93	23,433 03 11,046 00		4,142 91 1,466 86	91 (°r. 14 36 86 92 16
Atlantic, Quebec & Western Alberta & Great Waterways Brandon, Saskatchewan & Hudson Bay	377 T3 482 29			88 898				913 42
Oritisa Tukon ('amada & Gulf Terminal ('amada Southern. ('amadian Govt, Railway (Intercolonial).	43,794 28 93,498 82	त्म 6 त म	5.	7	158 11	1 61 61 61 61 61 61 61 61 61 61 61 61 61	91 44 9,320 18 17,820 40	41,511,56
Canadian Northern System	3,408 13 94,749 81 560,523 07	79,902 67	8 75 7 74 1,272 52	7, 473 53 3, 220 38 41, 350 85	417 02 39,407 22	5,794_23		25, 653 51 127, 783 72
Cape Breton Central Vermont Caraquet & Gulf Shore	65						714 70	14 50
Crow's Nest Southern Cumberland. Central Canada.	442 97			355 45				
Doninon Atlantic Eastern British Columbia Edmonton, Dunvegan & British Columbia	79 761							253 63
			0 78	114 +11			85 90	361 16 15 72
Predericton & Grand Lake Coal & Ry. Co Grand Trunk Pacific Grand Trunk Pacific Branch Lines. Hereford	94 51 275, 445 30 39, 700 27 6, 276 86 168 22 118 22	10, 199 33	427 17	31, 132 51 9,595 57	824 75 2 29 2 4 62 4 62		27,524, 22, 92, 93, 93, 94, 94, 94, 94, 94, 94, 94, 94, 94, 94	49, 406 82 2,354 27 1,540 49 111 90 136 21
Kent Northern Kettle Valley Lotbiniere and Megantic	1,136 50			136 56 62 09			3,395 97 18 09	112 80
Maine Central Manitoba Great Northern Maritime Coal, Ry. & Power Co.	353 07 353 64						296 39	772 92

9	FSG	10	NΔ	.1	PΔ	PFF	No.	20h

86 12	1,075 53	10,313 46 83 60 2 20	8,061 13 1,279 06 34 80 1,125 12	25 32 15 65 110 05 10 78	2,144 66 210 00	30 01 11,149 31 2,734 30	315,585 93
148 94 108 29	4,235 81	78 75 (°r. 39,059 28 263 41 52 89 35 13		93 38 99 88 644 67 4 4 53 510 00		5,700 12 1,942 29 1,804 40 0 64 0 58	481,162 85
			25 89				6,239 53
							75,288 49
		131 57	542 96 149 19 400 36	122 87 1 10		28 95 329 62 1 00 68 90	141,959 87
	6,663 95						8, 472 05
		82 82 45					90,913 77
952 89 1,285 28	6,711 43	80,767 25 r. 0 00 1,702 44 558 60 r. 1 72	2,775 15 4,213 61 591 11 1,275 27	r. 0 09	1,035 42 65 14 2,104 71	14,888 72 4,974 76 58: 01 1,905 17	1,254 720 36
Massawippi Valley	Montreal & Alantic Montreal & Alantic	Mortres, retries a Michael. National Transcontinental. Nelson & Fort Shoppard. New Brunswick Coal & Ry. Co. New Brunswick & P. B. Island. New Westminster Southern. Northern New Brunswick & Seaboard.	North Shore. North Shore. Ottawa & New York. Parlie Great Eastern. Pere Marquetre Quebec Central Quebec, Montreal & Southern.		St. Lawrence & Adirondack. St. John & Quebec. St. Martins. Sydney & Louisburg.	Timiskaming & Northern Ontario Thousand Islands. Toronto, Hamilton & Buffalo. Vartoria, Terminal Ry. & Ferry Co. Victoria, Terminal Ry. & Ferry Co. Withous & Sidney B. C. Wabash (in Canada).	Final total

Table 8.—Summary of Operating Expenses for the year ending June 30, 1917—Continued.

			Maintenane	e of Way and	Maintenance of Way and Structures-Continued.	ntinued.		
Name of Railway.	Power Transmission Systems.	Miscellaneous Structures.	Paving.	Roadway Machines,	Small Tools and Supplies.	Removing Snow, 1ce, and Sand,	Assessments for Public Improvement.	Injuries to Persons,
	es c(x.	æ	ets.	es c(s.	s cts.	es cts.	± €	æ
Algoma Central & Hudson Bay		157 91 18 49		2, 133 09 201 76	2,600 97	26,240 57 4,091 58		316 53 49 27
Affantie Quebec & Western Alberta & Great Waterways. Brandon, Saskatchewan & Hudson Bay.		0.25		743 86 313 54	710 864 1,107	873.05 858.07 70.858.07		60 8
British Yukon Canada & Gulf Terminal Canada Southern	7,566 86			3,842,95		8, 550 52 1, 327 05 25, 608 69		2, 932 31
Canadian Govt, Railway (Intercolonial) (P. E. Island)	2, 232, 96 8, 604 34	934 24	2,886 60		8 9 9 9 9 9 9 9 9	8, 432 01 8, 432 01 412, 982 59		32, 968 92 32, 968 92
Canadian Pacific. Cano Brefon		39, 557 66	397-27	50,789			25, 236, 23	88,812.5
Caraquet & Gulf Shore				21 01 12 20 008	883	19, 992 39 2, 100 50 4, 310 50		10 5 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Cambacharda				187 73		1,062 77 542 73		
Oominion Africa Sestem British Columbia		21 85 207 57		65	1,349 409			C9 1
schronton, Dunyegan & British Columbia. Slein & Hayelock				2,833 15	1,358 1,358	11, 153 60		
	76 65		13 20	553 13	1.422 92	3,206	14 176	00 G
Fredericton, & Grand Lake Coal & Ry, Co., frand Trunk		16, 690-35	2,967 94	7,348 70	43, 787	345,256 11		26, 222, 91 1 166, 30
Grand Trunk Pacific Grand Trunk Pacific Branch Lines	53 30 41 60	20 00 Cr.	Cr. 149 78	5, 656 45 1, 579 18	13, 513	37,797 56		302
Hereford International of New Brunswick				535 02	38 g	5, 994 S5		
Kettle Valley Lotbiniere & Megantie					9,575 84 9,575 84 54 73	63,333 29 239 02		3 00
Maine Central. Manifola Great Northern				452 17	695 90	4,260 65		13 15
Maritime Coal, Ry. & Power Co. Massawippi Valley				71 072	930 39	1, 030 71		2, 105 00

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SESSI	ONAL PAPE	ER No. 20b				
157 53	506 33 1 56 1 51 18 13	221 97 932 60 2,220 15		5 00 5 00 1,037 47	609 46 1,252 64 219 06	165,753 59
67 75	12 92	S0 01 200 93			276 86	26,846 85
	2, 723 01 209, 564 65 3, 800 41 1, 321 70 63 17		357	5, 627 34 4, 014 05 77 00 2, 401 65 3, 459 69 40, 447 84		2,829,658 94
	165 52 54, 471 69 225 96 463 49 16 10 434 43	1,098 79 4,105 91 2,173 09 2,350 27			2, 596 13 2, 557 77 2, 557 77 1 87 29 24	502,677 44
32 66 670 17	21,493 63 238 68 0 90 58 60	890 34 634 74 1,566 84 124 45	2, 088 16 2, 088 16	616 87 50 44 50 894 91	1, 059 81	147,891 62
	2 27					6,117 50
193 05				1.038	802 49	67,764 48
	17 68	26	2, 162 83	33		21,925 04
Midland Ry, of Manitoba Moncton & Buctouche Montreal & Atlantic Morrisey, Fernic & Michel	Napierville Junction National Transcontinental Nelson & Fort Sheppard New Brunswick Coal & Ry, Co. New Brunswick & P. E. Island. New Westminster Southern	Northern New Brunswick & Seaboard North Shore Ottawa & New York Pacific Great Eastern Pere Marquette Queboe Central	Quebec Oriental. Quebec Ry., Light & Power Co. Red Mountain. RobervalSaguenay. Ruthand & Noyan.	Sansoury & Albert St. Lawrence & Adirondack St. John & Quebec St. Martins Sydney & Louisburg Temiscoutta Temiskaming & Northern Ontario	Thousand Islands Toronto, Hamilton & Buffalo Vancouver, Victoria & Eastern Victoria Terminal Ry, & Perry ('o Victoria & Sidney, BC Wabash (in Canada)	York & Carleton

TABLE 8.—Summary of operating Expenses for the year ending June 30, 1917—Continued.

		Mainter	nance of Way a	Maintenance of Way and Structures-Concluded	-Concluded.	
Name of Railway.	Insurance.	Stationery and Printing.	Other Expenses,	Maintaining Joint tracks, Yards, and other Facilities-Dr.	Maintaining Joint tracks, Yards, and other Facilities—('r.	Total Maintenance of Way and Structures.
Algoma ('entral & Hudson Bay.	\$ cts.	% S05	\$ cts. 147-21	\$ ets. 212 10	s cts.	\$ ets. 286,459 32 79 765 16
Algoma Eastern Atlantic, Quebec & Western Alberta & Creat Waterwyss, D. E. C. S. Lecthown & Holson Res	2, 183 b9 476 99 310 78		189 71	2, 688 38		46,887 55 21,801 19 60,145 35
Definition Associations of August August 1975 Principles of Company & Conf. Terminal		00 83				•
Canada Southern Canadian Govt, Railway (Intercolonial)	1,061 33	4, 196 75 15, 522 88 9 134 81	45 53 452 94	86, 080-92 75, 396-38	99,472 01 10,395 22	1, 127, 943 2, 699, 393 167, 491
Canadian Northern System Canadian Pacific	5, 486 86	7,374 86	2,580 30 5,341 74	62, 730 63 235, 736 09	53, 102, 90 52, 998, 07	7, 160, 338
Cape Breton	285 84			430.81		88,739 56
Caraquel & Culf Shore.	786 05	75 00 255 56	374 98 374 98 53 54 98	00 66		117, 661 67
Cumborland.	206 27	27.2	5. 5. 5.			12,616 48 200,133 82
Dominion Atlantic Eastern British Columbia	1			7 509 81	61 102 6	9,703
Edmonton, Dungeyan & British Columbia.		122				5,099
Essex Terminal Esquimalt & Namúno		115 06				110,958 96
Frederiction & Grand Lake Coul & ISY, Co	47,870 93	6,740 93	2, 452 Cr. 1 100	X 1	394,	1,502,001
Grand Trunk Pacific Branch Lines	1,935 20	816	Cr. 17 80	21	21	504,529
Heretord International of New Brunswick	C 217	<u>s</u> = <u>8</u>	10	:		7 337 43
Kent Northern Kettle Valley 1. ettsims 6. Moometie	1,602 24	330 57	306 55	7,705 88	27,749 84 210 00	306,133
Manicordraft Manicordraft Manicoba Great Northern	371.39	13 15 282 94	244 80	:		2,113 04 71,973 66 16,119 71
Maritme Coal, Ry, & Powerk O. Massawippi Valley Midland Ry, of Manitoba	289 39	36 76 78 76 18	111 77	825 53 10,335 88		73,718 28 52,002 38

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SESSIONAL PAPI		a		
11, 326, 42 283, 533, 91 9, 613, 63 20, 105, 38 1, 535, 581, 74 44, 036, 23 19, 166, 99 113, 392, 09	935 366 858 864 963 957		344,795 62 4,453 04 2013,299 38 209,200 91 200,200 91 4,643 60 307,332 50 1,846 31	
14,370 73	877 53 6,720 00	106 93	8, 974 55 30, 964 68 12, 238 90 51 30 716 360 91	
2, 992 79 6 53 11, 137 55 2, 940 00 265 00	1, 051 35 120, 263 85 720 00 385 00 303 14	193 05 16,972 05 550 00	2, 497, 50 2, 076, 89 27, 676, 60 304, 639, 89	1,002,110 01
1, 04 04 1, 04 04 5 50 616 37 341 41 1. 138 29	3 53 183 14 185 14 9 89 6,725 51	1, 507 69 2 32 1 64 3, 920 34 2, 762 26	25 45 7 50 267 66 267 66	27, 000 10
628 69 6 65 7, 990 61 168 29 19 72 69 38	· ·		70 % 70 % 70 % 70 % 70 % 70 % 70 % 70 %	
59 02 127 42 251 75 59 14	112 42 1, 498 05 1, 440 00 851 98 3 56		2, 969 04 455 07 3, 208 03 27 70 27 70	10, 602,00
Moncton & Buctouche Montreal & Atlantic Morrisey, Fernic & Michel National Transcortinatal Nelson & Fort Sheppard New Brunswick ("Oal & Ry. ("O. New Brunswick & P. E. Lstad New Westninster Southern Northern New Brunswick & Seaboard	North Shore. Ottawa & Now York. Dacific Great Eastern. Pere Marquette. Quebec Central & Southern. Quebec Montral & Southern. Quebec Oriental.	Roberval & Suguenay Rutland & Noyan Salisbury & Albort St. Jawrene & Adirondack St. Jawrene & Robee St. Martins Sydney & Morrisburg	Temiskaming & Northern Ontario. Thousand Islands. Thousand Islands. Tyrouno, Hamilton & Buffalo. Vancouver, Victoria & Eastern. Victoria Teminal Ry. & Ferry Co. Victoria Asidney. B.C. Wabash (in Canada). York & Carleton.	r taal to(al

Table 8.—Summary of Operating Expenses for the year ending June 30, 1917—Continued.

		1	N	Maintenance of Equipment	dquipment.			
Name of Railway.	Superintend- ence.	Shop Machinery.	Power Plant Machinery.	Power Sub-station Apparatus.	Steam Locomotive Repairs.	Steam Locomotive Renewals,	Freight-train Cars— Repairs,	Preight-train Cars— Renewals,
	\$ 5 \$\frac{2}{x}\$	e& <u>x</u>	89	æ	ese C13.	₹		& 5 5
					0.000		1000	
Algoma Central & Hudson Bay.	7,272.86	1, 648 72 201 16			52,400 IS		20,019 57	
Algoma Eastern.	OK 722 'F	91 180			08,429.00			
Allunde, Quebec & Western		10 901			7,015,83			
Constant Cortes to the Constant Constan	10 302		05 36		0. 112 01		20 (C) 1	
Dightop, Paskatenewan & Hudson Day	55 150	076	ā		58 961 9			
Chanda & Calf Therachard		1			2 839 50			
County Lead to thinks	64 165 21	The St	701	15 17a b	651 554 07	201 201	989 167 48	143, 467, 65
Consoling Cost Pullance (Internalism)	82, 651 10		20%		1 174 383 11		845 586 93	
control cover wallway (intercolonial)	2, 723 63	0.00.0	76.597	-	25 335 61		10, 736, 21	
(1. P. British Mand boun Aredons	107 228 60	113 27	51.4	613.10	0 080 727 40			
Chandian Poolfic	20 027 028	659 541 15	-	or 010	96 899 116 9	80 196 022 6		1,915,792,90
Chara Bratan	1000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			810 38			
Control Vermant	- Suc -	01 201			15, 452, 13		10, 199 36	
Caracinet & Call Shore	1 150 00	909			5 638 07			
Crow's Nest Southern	200	66 164	25.55		7,591 33		7,006 05	
('umberland	820 03				4,829.89		2, 454 42	
Central Canada	-		:		1,875 41			
Dominion Atlantic	2,669 76	_			34,753 49	12,000 00	11,211 16	
Bastern British Columbia	12 00	-			5, 167 29			
Edmonton, Dunvegan & British Columbia	334 80			:	25,086 46		19,839 51	
Dlgin & Havelock				:				21.5 2X
Essex Terminal		5 35			7, 0,77	986 586		
	3,035 88	2, 738, 26			37,266 20			2, 292 22
Fredericton & Grand Lake Coul & Ry, Co		- !			18/51		250	
Grand Trunk	139,379 66	222, 237 75	25 SS X		S, 149, 100 52			00 100
Grand Trunk Pacific	68,200 46	32, 612	370		07 10.160	4,900 00		40,027,09
Grand Trunk Pacific Branch Lines Co	24,786 69	9,433	3,465		HI, 155 36			(, (3/ 24
Hereford	830 47	£.			8, 171 02	('r. 43 84	1,291	20 41
International of New Brunswick	880 27	719	179 99		11,658 88			•
Kent Northern		75			560 00			
Kettle Valley	4,857 03	71			37,083 52			
legant					1,621 60		846 93	
Maine Central					519 85	('r. 4 05	1,066 50	5 71
Manitoba Great Northern.		315	07 81		3,021 79		3,445 72	
Maritime Coal, Ry. & Power Co	1,201 67	140 37	:		3, 737 12		000 0000	
Massawippi Valley		885			19,876 051		12,905 201	

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21.21†'2†	3, 885 61 3, 885 61 107 34	42, 598 27
9,966 13 6,385 42 6,385 42 6,126 85 1,026 19 521,327 1,454 09 1,454 09	6,365 80 3,526 71 3,539 80 11,413 91 1,792 99 1,722 99 4,226 52 4,226 52 4,226 52 4,226 52 1,739 99 1,739 99 1,	52, 109 14, 838 2, 29 190, 259 190, 259
95, 609, 60	15,000 00 15,000 00 8 41 12,249 06 433 29	38,054 93 2,700 00 220 67 2,654,278 18
32, 632 78 1,639 92 1,639 92 8,532 21 6,532 21 6,532 21 4,431 15 7,137 71 1,583 98	20,960 H 96,578 63 191,621 56 19,578 63 19,727 51 1,917 27 1,917 27 1,658 15 1,658 15 1,658 15 1,958 40 1,958 41 1,958 4	902 139,561 55,886 637 229,109
50 80		9, 908 84
40 89 89 89 89 89 89 89 88 8 8 8 8 8 8 8	1,405 95 5 74 118 17	122 28 1, 151 59 48, 730 39
1, 024 05 4, 329 44 2, 835 22 56, 758 50 632 41 3, 791 79 370 93 42 85	1,528 3,875 3,875 6,387 1,714 167 167 167 167 168 168 168 168 168 168 168 168 168 168	602 904 1 16 245 245
3, 308, 49 3, 167, 97 724, 51 64, 543, 35 450, 89	8, 393, 72 1, 5, 71, 1, 21 1, 2, 47, 11 1, 2, 47, 24 1, 2, 47, 24 1, 2, 24 1, 639, 61 1,	
Midland Railway of Manitoba. Montron & Barcouche. Montreal & Atlantic. Morrisey, Fernic & Michel. Napierville Junction. National Transcontinental. Netson & Fort Sheppard. New Brunswick Coal & Ry. Co. New Brunswick Coal & Ry. Co. New Westminster Southern. Northern New Brunswick & Seaboard.	Parific Great Eastern. Parific Great Eastern. Perific Great Eastern. Perific Great Eastern. Quebec Central Quebec, Montreal & Southern. Quebec Oriontal. Roberval-Siguenay. Red Mountain. Roberval-Siguenay. Red Mountain. Salishury & Mbort St. Jawrence & Adirondack. St. Jawrence & Adirondack. St. Jahrens Quebec. St. Martins. Sydney & Louisburg. Temiscontal	Thousand Islands Baffalo. Toronto, Hamilton & Baffalo. Vancouver, Victoria & Eastern Victoria Terminal Ry, & Ferry Co. Victoria & Sidney, B. C. Wabash (in Canada). York & Carleton Final Total.

Table 8.—Summary of Operating Expenses for the year ending June 30, 1917—Continued.

	1					. 6											OR		,		918
	Work Equipment Renewals,	\$ C				2,056 19		367 939 65								1 067 85	10 100			2 37	
	Work Equipment Repairs.	et.	10, 151 30	1,371 59	2, 210 24 2, 786 85		5,856 48	178, 559 29		240 76	2,689 40		5,833 41	2,061 98	4, 187, 68	165, 224 98		2,009 89	95 34	2,038 27	354 40
med.	Floating Equipment Renewals.	∞ E ∑														02 011					
Maintenance of Equipment—Continued.	Floating Equipment Repairs.	s cts.					47,594 0S	614 93								73,345 11		553 24			
tenance of Equ	Motor Equipment of Cars— Renewals.	جه چ															2,203 94				
Main	Motor Equipment of Cars— Repairs.		17 33	2,389 42				39,708-29									6, 476 00				
q	Passenger- train Cars— Renewals.	&				5,019 07		178 001 53								57 160 Z	915 30			5 29	
	Passenger- train Cars— Repairs.	cls.	5,898 11	4,501 12	2, 177 72	579 54 62, 642 22	501,818 28	736, 266 23	212 80	2,888 11	773 20		15, 162, 51, 403, 15	9,886 82	23, 512 SI	587, 467 30	15, 293, 96	2,897 60	3,954 01	389 86	1,071 45 4,183 70
	Name of Railway.		Algonia Central & Hudson Bay	Western.	Brandon, Saskatchewan & Hudson Bay British Yukon	Canada & Gulf Terminal Canada Southern	Canadian Govt, Railway (Intercolónail)	Canadian Northern Systems	Cape Breton	Central Vermont.	Crows' Nest Southern	Central Canada	Dominion Atlantic Eastern British Columbia	Edmonton, Dunvegan & British Columbia Elgin & Havelock		Frederiction & Grand Lake Coal & Ky, Co Grand Trunk.	Grand Trunk Pacific Branch Lines	International of New Brunswick	Actile Maley Lettle Valley Lorinions & Mornitie	Maine Central Manie Central Manieba Great Northern	Maritime Coal, Ry. & Power Co. Massawippi Valley

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	j	6,026.52	757 13	380,200 06
287 14 13,411 77 188 45 102,501 59 1,249 80 1,28 90 1,28 90 736 31 1,091 27	2.262 45 1.783 74 1.188 74 1.262 45 1.262 45 1.262 45 1.263 45 1.2	25 30 444 68 62 37 2,996 43 373 26 Cr. 5,260 47	8, 123 91	1,158,250 19
				112 50
18,925 54	4,874.71		3, 208 09	360,856 52
				2,203 94
01 601	9,341 02			58,041 16
33, 231 49 7r. 0 29	2,554.71 266.74 9,000.00 3,638.80	96 299 91	1,816 50	257,092 80
10, 247 14 227 722 3, 103 72 778 87 72 256, 343 66 122 69 1, 184 46 722 51	1, 150 1, 170 18, 187 18, 187 16, 789 16, 789 17, 510 17, 190 18, 190 18, 190 18, 180 18, 180 18, 180 18, 180 18, 180 18, 180 18, 180 180 180 180 180 180 180 180 180 180	3, 434 05 3, 434 05 478 832 42 08 42 58 05 63, 692 18	29 642 13 29 642 13	5,986,231 12
Midland Ry. of Manitoba. Moncton & Buctouche Monrased, & Alannte. Mapierville Junetion. National Transcontinental. Nelson & Fort Sheppard. New Brunswick Coal & Ry. Co. New Brunswick & P. E. Island. New Westminster Southern. Northern New Brunswick & Soubourd.	North Shore Ottawa & New York Parific Great Eastern. Pere Marquette Quebec Central Quebec, Montreal & Southern Quebec Bailway, Light & Power Co Red Mountain. Robertal-Saquetay	Authanna (A. 1907) Salisbury & Albert St. Lawrence & Adirondack St. Martins. St. Martins. Sydney & Louisburg Temiscouata. Temiscouata. Temiscouata. Thomstand Islands	Toronto, Hamilton & Buffalo. Vancouver, Victoria & Eastern. Victoria Terminal Ry. & Ferry Co. Victoria & Sidney, B.C. Wabash (in Canada). York & Carleton.	Final Total

Table 8.—Summary of Operating Expenses for the year ending June 30, 1917—Continued.

			Main	Maintenance of Equipment—Concluded	ipment('onel	uded.		
Name of Railway.	Miscellancous Equipment Repairs.	Injuries to Persons.	Insurance.	Stationery and Printing.	Other Expenses.	Maintaining Joint Equipment at Terminals Dr.	Maintaining Loint Equipment at Terminals Cr.	Total Maintenance of Equipment.
	eé 	&	&• 2. 2. 3.	S	es 2.	& G. S.	æ. <u>x.</u>	\$\$ \$\frac{c}{3}\$
Algema Central & Hudson Bay	10,341.85	418 84 15 40	4,026 65	455 16 179 78				
Allaria, Quebec & Western Alberta & Great Waterways Brandan Systeteteways I Hudson Bay		177 69		55	39.87	01 889		21, 977-13 16, 754-30 16, 235-76
British V Golf Dominal		0.32		1 73	1.28			19,373 66
	= 2	1, 129 82 1, 485 47	569 59	6, 745-15	49 77 399 52	1,508 18,570		1,361,934 75 2,835,778 02
Canadian Northern System	5 101	53 79 13,671 54	3,481-19	16, 617 19. 518 19. 518 19. 518	16 95 1, 664, 56 3, 338, 14	9, SS0 59 8, SS0 90 8, SS0 90	1, 047, 21	81,529 5,231,772 21,654,950
Cape Breton	E :	SD 134.*C1		1000				8.17
Central Vermont Caractust & Culf Shore				150 06				9,061 33
Crow's Nest Southern Company of Standard		192 07	155 95	57 93 4 63	37 61			8, 708 33
Central Canada		583 13		17		95 93		2,827 98 83,088 01
Eastern British Columbia			30 be #,7		8 9	9 371 53		7,655 19
Come of the control of								
				-16 59	725 00			3 125 68
Grand Trunk		31, 709 01	51,278	20,488 53	12,587 06	9,230,26	105,569 72	7,625,842
Grand Trunk Pacific Stanch Lines		2, 189 33 107 08	4,232 58 572 23	4,618 38 581 28	17,798 71	701 7		315, 400 59
Hereford International of New Brunswick		5 35 5 45 5 45	951	98 58 18 58 18 58	3 25	218 51		24,261 53
Kent Northern Kettle Valley Lettin CM	176 95		246 14	388 42	6,591 56	0]- 898	99 889	70,539 04
Maine Central Manitoba Great Northern Meritipa Rallmar College		117 02	27 67 81 89	9 32 34 88 88				2, 171 15 10, 556 04 6, 150 61
Mailtille Mailway, Cod & Lower Co.								

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Massawippi Valley Midland Ry. of Manitoba Moneton & Buctouche Montreal & Atlantic	1.35	453 90	332 59	123 28 210 48 224 24	462 45 882 00	1,242.20		10,004 89 60,209 59 4,083 44 289,947 15
Morriscy, Fernie & Michel Napieville Junction National Transcontinental Nelson & Fort Sheppard		455 72 Cr. 124 34	r. 5 00 5 00	8, 166 39 38 98	471 70 26 63	3,249 29		13, 434 28 6, 420 58 1, 720, 010 04 8, 621 61 7, 633 41
New Brunswick Coal & Ky. Co. New Brunswick & P. E. Island. New Westminster Southern Northern New Brunswick & Scaboard.		8 81 50 91	235 85	62 74 4 69	2 07 3 74	105 89		9,781 91 4,138 84
North Shore Ortawa & New York				_		38 17		375
Pacific Great Eastern Père Marquete.		3,995 86	5,481 90	135 76 1,029 12 190 75	1 35 95 61 7 150 90	490 24		61, 175 16 258, 048 05 172, 146, 87
Quebec, Cantral & Southern				_				180,441 12
Quebec Oriental Quebec Railway, Light & Power Co Red Momerin		9 50			H +69	8 749 55	2,110 90	22,013 82 2 437 83
Roberval-saguenay. Rutland & Noyan.			387 74 12 80	8 57 6 06				18, 269 70 1, 969 87
Salisbury & Albert St. Lawrence & Adirondack St. John & Ouebec				282 34				2,739 47 57,432 09 3,959 85
St. Martins. Sydney & Louisburg. Temiscouata.				48 40	7,680 51			906 62 205,009 90 29,920 76
Tenniskaming & Northern Ontario		954 71	5, 436 66	1,321 07			4,445 80	270,578 38 3,504 90
Trovone, Prantico & Buffalo. Vancouver, Victoria & Eastern Victoria Terminal Ry. & Ferry Co.		514 76 883 57	1,258 19 2,689 57	739 48 217 32	20 00	15 70	12, 212, 05 458, 89	306, 436 01 104, 304 12 86 36
Victoria & Sidney, B.C. Wabash (in Canada) York & Carleton		7,140 03	5,343,43	1,726 77		138,375 11		4, 055-58 652, 744-61 228-92
Final Total	11,403 45	139,934 29	91,656 13	107,668 20	181,376 46	213,230 31	126, 528 23	46, 371, 178 39

Table 8.—Summary of Operating Expenses for the year ending June 30, 1917—Continued.

Superior						Truffie 1	Traffic Expenses.				
4, 881 31 1 14 28 6 145	Name of Railway.	Super- intendence.	Outside Agencies,	Advertising.	Traffie Associa- tions.	Fast Freight Lines.	Indiustral and Immi- gration Bureaus.	Insurance,	Stationery and Printing.	Other Expenses,	Total Traffic Expenses.
Pay. 4,981 31											± €
Fig. 10 Fig. 25 Fig.	ra Central & Hudson Bay ra Eastern	4,981 31 3,027 27		197 128	265 90	5 45		64 15 50 86	628 72 367 09		6,156 98 4,927 66
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	ie, Quebec & Western	938									1,289 30
2, 1, 1, 2, 1, 2, 3, 4, 4, 4, 5, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6,	on, Saskatchewan & Hudson	518		945			216 81		240 09		3,346 65
20,589 78 69,485 68 29,663 10 7,329 78 45,287 79 45,287 79 45,287 79 45,287 79 45,287 79 45,287 70 45,483 67 71 48 65 71 48 65 71 48 75 48 75 48 75 48 75 48 75 68 71 48 75 48 75 48 75 48 75 48 75 48 75 48 75 76 77	h Yukon a & Calf Terminal			1,776	35 66						66 66 67 68 68 68 68 68 68 68 68 68 68 68 68 68
1, 2, 3, 2, 7 7, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	a Southern		69,485	29, 663	7,329 78	49,485 36	1,340 78	86 92			285,838 41
235 288 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	teroloniul	72,287 97	121,790	38,873				137			
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	E. Island	12,881.24	4,872	703				.c 9			10,063 75 719 809 04
1,760 39 2,711 77 701 46 162 60 0 223 80 2 16 346 72 1 84	nan Northern System	671, 238 52	1, 487, 985	548,927							3,078,301 42
14 15 15 15 15 16 17 18 18 18 18 18 18 18	3 Vermont.	1,760 39	2,711	701						0 9	
Fig. 19 779 18 2,836 45 9,921 24 360 61 10,779 18 2,146 18 133 17 0 35 41 15,828 87 367 41 120 20 00 1,713 65 40 35 41 15,828 11 15,878 86 31,654 07 41,400 70 11,198 51 1,092 00 11,713 65 65 10 1,092 00 1,091 89 22 64 10 2	act & Cull Shores	654 19	:				223 80	91 21		-	3,976
jii. 10,779 18 2,146 18 133 17 g B C 4,762 94 2,836 45 9,921 24 113 65 9 11,713 65 11,713 65 11,713 65 11,713 65 11,713 65 11,713 11,713 11,713 11,713 11,	orkind									5	
ake Coat and 40,098 26 77,119 08 240,098 26 77,119 08 242 64 230 73	non Atlantic	27.0	2,836		360 61					 	
ake Coatland 50 50 150 60 1	n Diritish Columbia Mon, Dunyegan & B.C.	4,762.94						00 05	1,713 65		7,842 87
ake Coatland 40,098 26 77,119 08 26,684 72 2,041 92 11,198 51 1,092 00 91,528 71 6,493 91,1 Franch Lines 14,092 6 26,656 79 9,890 55 550 43 19 0 02 66 64 120 74 15,685 56 177 18 1,027 43 90 22 519 05 28 91 0 0 02 66 64 1 24 416 63 865 20 94 19 10 24 1	Ferminal										264 38 150 60
247,197 00 547,053 34 115,878 86 31,654 07 41,400 70 11,198 51 1,092 00 91,528 71 6,493 91 1, 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	icton & Crand Lake Coal and			89							
140,038 20 26,656 72 27,041 33 20 44 19 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Trunk		547,053	115,878		41,400 70	11, 198 51	1,092 00	91,528		1,093,497 10
1,027 43 90 22 519 05 28 91 0 02 66 64 1 24 232 85 4 76 679 29 1,091 89 23 80 4 24 64 24 64 64 62 95 80 242 64 80 8 00 242 64 673 13 69 33 80 8 73 14 78 1 12 104 22 7 73 14 78	Trunk Pacific Branch Lines	14,602 60	26,656	9,850				12 0g	5,865		57,664 82
2,504 00 62 95 8 00 242 64 8 00 98 33 44 78 1 27	rd tional of New Brunswick	1,027 43 02 070	1,091	519 82		0 0	19 : 99 :	1 24	232 85 416 63		1,969 88 2,249 60
8 00 942 64 64 13 69 13 69 14 78 1 27	Vorthern Vallev	3,504 00								105	
	iere & Megantie. Central	308	: 32	2 TOT	12 12 13 13 14		13 69				96 96:

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1,806 41	3,569 53 10,205 07		395		2,668 93 590 86			672	113	28,894 94	101					6,915 94	1 :		4,727 15	3				138,543 35	6, 236, 810 91
1 04	89 55		105 71	0 91	0 40			5 80		135 26	٠.			76 22 76 22 76 22 76 22		89 O						328 11		61 45	11,097 94
171 32	712 93		48 38 9.530 48	504	309 92 86 29				023	2,674 16	5			27 78 60 93					565 41		962			10, 506 06	610, 703 20
0 26	62.9			1 60	1 64 0 17					216 00			0 15	91 0		ि हर्			:			7 51		27 46	2, 134 32
	617 79			156 09	4 00 19 78			120 80					37 62	06-1	1					1,871 23		988 26		442 30	50,956 60
136 51							10 11							21 23		133 00			:		1,322,39				92,528 80
32 61	252 85 125 92		1.962 36		26 53 17 04			-		951 58			-	55 75		6 63		201 26	i i	679 24	593 50	222 48		2,690 12	116,638 85
274 92	580 70 2,139 87			810 90	442 96 0 06			921		3, 224 80				194 40 93 83		555 98			126 99		739			4, 999 42	86 1,023,871 63
873 54	393 05 4,721 56		50,067 03	1,148 15	1,180 04			473		10,016 90		584 39		504.87		2,641 51			958 05		963 03			84,068 83	2,761,176 86 1
316 21	2,342 93 1,761 16		724 79 48, 404 96	184	703 4-1 107 68		2 051 70			7 095 20				257 05		2,880 35		1,140 00	3,076 70		562		ع و	35,747 71	1,567,702 71
Manitoba Great Northern	Massawippi Valley	Montreal & Atlantic	Napierville Junction National Transcontinental.	Nelson & Fort Sheppard New Brunswick Con & By Co.	New Brunswick & P. F. Island New Westminster Southern.	Northern New Brunswick & Sea- board	North Shore.	Pacific Great Eastern	Pere Marquette	Ouchee CentralOuchee Montreal & Southern	Quebec Oriental	Quebec Ry., Light & Power Co	Red Mountain	Kobervat-Saguenay Rutland & Novan	Salisbury & Albert.	St. Lawrence & Adirondack	St. Martins.	Sydney & Louisburg	Temisconata	Thousand Islands.	Toronto, Hamilton & Buffalo	Vancouver, Victoria & Eastern	Victoria A Sidnow B C	Wabash (in Canada) York & Carleton	

Table 8.—Summary of Operating Expenses for the year ending June 30, 1917—Continued.

			Tra	nsportation Ex	Transportation Expenses—Rail Line	ne.		
Name of Railway.	Superintend- enec.	Despatching Trains.	Station Employees.	Weighing, Inspection and Demurrage Bureaus.	Coal and Ore Wharves.	Station Supplies and Expenses.	Yardmasters and their Clerks.	Yard Conductors and Brakemen.
	\$ cts.	s cts.	es cts.	s ets.	s ets.	\$ cts.	\$ ets.	\$ cts.
Algoma Gentral & Hudson Bay		4,094		481 21	28,229 35	3,074 08	1,958 61	12,433 42
Algoma Eastern		2,655			14,602 59		105	
Atlantic, Quebec & Western		519						
Alberta & Great Waterways. Readon Socketobowen & Hudson Rev		664 85		45 50	1, 253, 49	551 27		
British Yukon	2,402 97	1,342				2,196 15		918 20
Canada & Gulf Terminal								
Canada Southern	126, 249 23	17,507		1,119 00		25, 529 53	98,974	296, 490
Canadian Govt. Railway (Intercolonial)	105,530 32	162,064 12	1, 225, 656 57	3,296 15			3, 921, 77	
Canadian Northern Sysfem	483, 295, 92	190,825		6, 175, 70	464 10		130, 457	469, 127
Canadian Pacific.		700,636		12,551 53	396 38	655,902 74	418,066	1,844,175
Cape Breton	200							
Central Vermont.		1,089 21		76 34			214 50	
Caraquet & Gulf Shore		901						
Crow's Nest Southern		100	6,522 23	95 456 25		360 095	1 305 33	10 641 48
Control Canada	22 669	178 00	1,037 68					
Dominion Atlantie		5,078		264			7,946 35	***************************************
Eastern British Columbia	2,200 20		488	21 70		131		
Edmonton, Dunvegan & British Columbia		2,165 53	208	61 4		2,974 93		2,989 30
Elgin & Havelock			380 00	9				
Esquimalt & Nanaimo	8,700 53	8,759 26	42,416	254			30	5,075 64
Fredericton & Grand Lake Coal & Ry. Co			809	36			1,132	္တ;
Grand Trunk		165,022 71	2,941,115	12,893 82	109 75	277,788 63	393,581 59	S91,724 14 50 848 99
Creand Trunk Facility	90,505,30	10,679	86 000	1,110			3,973	22
Hereford		1.270	5.339	51 35		479 57		; :
International of New Brunswick	7,446 75	87	4,623			746 34		GE :
Kent Northern						212 00		. 6
Kettle Valley	3,475 23	6,274 23				3,027 69		7, 230 83 7,
Lotbiniere & Megantic		105		3		00 011		Α.
Manie Central		277 84		51 20		1,075 74		1
Maritime Coal & Power Co	1,441 54		1,453 84			40 36		91
Massawippi Valley		2,658 62	26, 484	82 83		1,846 /0		8

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5, 592, 50 12, 303, 82 10, 129, 81 54, 759, 72 2, 379, 73	3,690,22 380,37 26,885,86 5,321,95		27, 186 62 27, 186 62 41, 424 24 16,304 60 19 90 4,221,856 29
1,342,59 5,204,04 31,222,61	5 72 7,529 53 2,246 55	51.00	12,385 14,249 4,571 1,226,242
11,326 19 233 59 233 59 8,808 14 13 808 14 574 64 68,719 07 248 27 248 27 248 27 248 27 248 27 248 27 248 27 248 27	4,628 00 789 68 7,381 80 9 691 31 4,226 34 1,085 30 800 30	557 73 73 547 528	1,395 71 1,305 71 18,469 45 18,929 07 9,700 07 8,939 48 62 94 962 94 362 94 361 37 1,558,002 81
			45,048 66
95 56 23 33 6 47 1,982 73 37 59 26 24			185 71 185 71 390 06 731 19 730 94 329 59 5, 696 64 77, 790 35
26, 113 41 82, 760 00 82, 760 00 20, 118 78 241, 662 89 2, 381 01 2, 381 01 4, 122 29 28 63		488 7713 368 1111 669 240	10, 977 33 160, 122 38 5, 160 17 155, 705 08 141, 280 08 4, 123 4 6, 023 37 15, 289, 063 08
18 51 7,998 99 217 75 120,109 47 721 57	2,180 00 1,741 63 9,071 74 8,263 15 5,260 90 5,360 90		1,793 30 1,793 30 14,184 97 14,171 95 5,810 41 1,529,312 70
3,808 35 12,699 63 1,905 80 646 72 80,950 80 1,529 70 556 05	2, 968 78 29, 980 71 10, 118 01 5, 416 23 90 255	315 173 120 120 884 680	2, 848, 262 76
Midland Ry. of Manitoba. Monteon & Buctouche. Montraeal & Atlantic. 50 Morrisey, Fernic & Michel. On Napierville Junction. National Transcontinental. Nelson & Fort Sheppard. New Brunswick Coal & Ry. Co. New Brunswick & P. F. Island. New Westminster Southern. Northern New Brunswick & Senbard.	North Shore. Ottawa & New York. Pacific Great Fastern. Pere Marquette. Quebec Central. Quebec, Montreal & Southern. Quebec Oriental.	Red Mountain. Roberval-Saguenay Rutland & Noyan. Salisury & Albert. St. Lawrence & Adirondack. St. John & Quebec. St. John & Quebec. St. Mon & Quebec.	Temiscounta. Temiscounta. Temiscounta. Teniskaming & Northern Ontario. Thousand Islands. Toronto, Hamilton & Buffalo. Vancouver, Victoria & Eastern. Victoria & Sidney, B.C. Victoria & Sidney, B.C. Wabash (in Canada). York & Carleton. Final Total.

Table 8.—Summary of Operating Expenses for the year ending June 30, 1917—Continued.

														3 G	EO	ŖGE	٧,	Α.	1918
	Other Supplies for Yard Locomotives.	s cts.	178 03		15 52		84 70 5,083 45 27,239 51				344 70	77 88 245 00	22 87	19,755 49	291 23		86 43		
	Lubricants for Yard Locomotives.	\$ cts.	399 11		23 52		8,69497 $16,31246$		00 96		234 10	54 79	95 08	12,661 72	306 33	60 T	115 39		
tinued.	Water for Yard Locomotives.	\$ cts.	596 72				236 83 26, 520 19 60, 857 99	58 10			. 265 60	69 68		47,065 36			231 88		100 00
Rail Line—Con	Yard Switching Power Produced.	& ets.				6,097 27													
Transportation Expenses, Rail Line—Continued.	Fuel for Yard Locomotives.	\$ cts.	21,749 32		1,306 02	266, 789 63	7,559 25 480,238 00 1,702,612 17				20,762 33	395 04	1 772 14	1,201,700 06	18,359 59	61 18	5, 470 15		1,200 00
Transportat	Yard Motormen.	\$ cts.				6,072 80													
	Yard Enginemen.	\$ ets.	8,520 66		953 96	151,000 76 199,662 83	7,611 20 310,713 63. 1,106,008 08.				9,671 21	2,560 92	3,389 27		7,547 43	428 81	1,327 48		1,500 00
	Yard Switch and Signal Tenders.	\$ cts.	1,026 44				160 44 13,457 35 155,790 52	441 00				37 28	63 50	115,023 04	313				
	Name of Railway.		Algoma Central & Hudson Bay	Atlantic, Quebec & Western Alberta & Great Waterways.	British Yukon. Sitish Yukon.	Canada Southern	Canadian Northern System Canadian Pacific	Cape Breton	Caraquet & Gulf Shore	Cumberland	Dominion Atlantic	Edmonton, Dunvegan & British Columbia Elgin & Havelock	Essea Letturia Esquinalt & Nanamo Fradenicion & Cirard Lake Coal & By Co		Grand Trunk Pacific Branch Lines	International of New Brunswick.	Ment Northern Kettle Valley	Lotolinere & Megantic	Maritime Coal, Ry. & Power Co. Massawippi Valley.

155 60	281 59	684 62		8 14	816 80 21 25		1 95		299 97	776 83 86 23	23 39	64,074 48
254 48	177 32	1,384 21	10 15 18 30	38 94	759 47 250 70		44 82 2 87 5 87		104 15	956 09 136 29	24 70	52,428 04
897 41	00 66	80 948	78 18	43 00	1, 199 02 65 61		re 80		548 89	2,854 29 808 90	29 53	177,180 65
												6,097 27
70 100 71	14,341 86	112,337 88	3,171 51		38,881 72 9,021 15	2,030 38	376 75		34,575 81	94,771 45 15,493 16	Or. 198 88	4,621,612 10
												6,072 80
70 11.0 %	7,456 75	40,684 68	584 01	2,245 58	22,330 64	927 22	164 30		18,041 16	36,988 57 9,503 15	48 17	2, 627, 774 82
	348 95 2,918 58	5,953 02		497 41	941 87	1,547 68	44 25 21 91	929 67	1,773 72	3, 162 55 457 95		380,763 21
Midland Ky, of Manitodia	Montreal & Atlantic Morriscy, Fernic & Michel	jonal Transcontinental.	New Brunswick Coul & Ry. Co. New Brunswick Coul & Ry. Co. New Brunswick & P. E. Island. New Westminster Southern. Northern New Brunswick & Seaboard	Ottawa & New York. Panific Great Eastern	Peren Marquette. Quebec Central Quebec, Montreal & Southern.	Quebec Railway, Light & Power Co Red Mountain	Roberval-Saguenay Ruthand & Noyan. Salisbury & Albert. St. Lawrence & Adirondack St. John & Quebec.	Sydney & Louisburg. Temisconata	Temiskaming & Northern Ontario	Toronto, Hamilton & Buffalo. Vancouver, Victoria & Eastern. Victoria Terminal & Ferry Co.	Victoria & Pitting, D.C Wabash (in Canada) York & Carleton	Final Total

Table 8.—Summary of Operating Expenses for the year ending June 30, 1917—Continued.

			Trans	Transportation Expenses, Rail Line—Continued	nses, Rail Line	-Continued.			
Name of Railway,	Enginehouse Expenses— Yard.	Yard Supplies and Expenses.	Operating Joint Yards and Terminals Dr.	Operating Operating Joint Yards and Terminals and Terminals and Terminals	Train Enginemen.	Train Motorman	Fuel for Train Train Train Power Loconotives, Produced, Purchased	Train Power Produced.	Train Power Purchased
	es 2.5	e cts.	\$ cts.	.ets.	χ. 9÷	\$ ets.	& cts.	\$ ets.	\$ cts.
Algonia Central & Hudson Bay	6, 494 48	70 74	3,728 35		37,311 96 25 933 19		149,948 04	:	
Atlantic, Quebec & Western. Alberta & Great Waterways.			3,340 10			647 20	34,928 34,928 23,010		
Brandon, Saskatchewan & Hudson Bay, British Yukon					6,648 95 5,988 06		10,865 76		
Canada & Culf Perninal	38 987	10 794		579 Oc.	1,881 68	37 199 30	1	31.818.46	
Canadian Govt. Railway (Interedonial)	14.	27,	270,676 27	90,502 41			3,230,113		
Canadian Northern System	88, 141	6,108		29,159 61		117,569 74	4,354,854	10,201 29	36,725 09
	510, 624 00	65, 036	404,398 00	261,517 11	5, 281, 463, 03 2, 667, 60		12,587,667 48		
Central Vermont	359 47		678 06	56 21	18,924 01				
Caraquet & Gulf Shore					4,200 00		22,345 66		
Cumberland					9,355 09				
Central Canada Dominion Atlantic	2,708 52	8 47	2,631 60		51,489 70				
oia			-1		3, 187 90		3,249 35		
Edmonton, Dunvegan & Brit. Columbia Elgin & Havelock	167 47	132 92	7,769 47	Sc 606,1	83.5 83.8 83.0 83.0 83.0		1,978 61		
Essex Terminal									
Esquimalt & Nanaimo Fredericton & Grand Lake Coal and Ry.	669 -10	195 00	1,668 50		28, 565 84				:
CoCrunt	20 118 291	28 Feb 06	:	780 547 06	3,245 15		9,473 93		3 G
Grand Trunk Pacific.	11,549 42	- 1	102,968 21				658, 593		iEC
Grand Trunk Pacific Branch Lines	1,588 87	235			115,995 19		219,247 55)R(
International of New Brunswick	13 65	13 40	2,720 00		8,913 59				GE
Kent Northern	22 012		68 F69 Z	3 649 37	1, 180 00		2,056 39		V,
Lothiniere & Megantic.					1,410 35				A.
Manitoba Great Northern			742 62	52 00			9,022 60		19
Maritime Coal, Ky. & Power Co		322 10			4,188 90				18

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							6,000 00							42,725 09
														42,019 75
	7,385 73 20,567 63 1,169,894 14 11,080 56							7,758 38 129,363 34			6, 861 70 142, 343 32 76, 734 82		282,569 12 1,416 00	32, 163, 030 34
			1	F/ 00/**			2,037 23					88 08 1,380 47		163,672 76 3
956 185 589 715	7,369 00 5,074 88 357,939 61 5,742 95	866 121 128 138 138 138 138 138 138 138 138 138 13		107,047 07		2, 611 611 600 600 600 600 600 600 600 600		2,696 62 37,260 58 6 131 09				20,040 142,96 2,968,64	172, 265 14	12, 381, 760 52
259 30	\$3,494 96 579 49		330 51	5,481 16	947 95		152 07			75,774 70	138, 525 73			1,449,645 09 1:
884 40 4, 972 33 61, 627 23	162, 346 11		7,745 51	40, 113 98	112 50		62 00	106,824 34		1,300 00	6,560 98		545,700 94	2,776,550 94
165 43	3,497 62	139 00		237 27		110 46	241 56	: : : : : : : : :			998 31 110 59		2 00	138, 407 64
2,626 90	42,735 23	68 111	68 891	14, 191 78	1	5.0	944 82			6,301 49	11,888 78		211 90	981, 238 66
Massawippi Valley. Midhand of Manitoba. Moneton & Buctouche. Montreal & Atlantie.	Morrisey, Fernic & Michel Napierville Junction. National Transconfinental. Nelson & Fort, Shoppard.	wew Brunswick Com. New Brunswick & P. B. Island. New Westninster Southern. Northern New Brunswick & Seaboard	Ortgara & New York Defigure Cross Cork	Pere Marquette	Quebee, Montreal & Southern	Quebec Chemia Quebec Ry, Light & Power Co.	Roberval-Saguenay Ruthand & Noyan	Salisbury & Albert St. Lawrence & Adirondack St. John & Quebec	St. Martins. Sydney & Louisburg.	Temiscounta. Temiskaming & Northern Ontario	Thousand Islands Toronto, Hamilton & Buffalo. Vancouver, Victoria & Eastern	Victoria Terminal Ry. & Ferry Co Victoria & Sidney, B.C.	Wabash (in Canada)York & Carleton	Final Total

Table 8.—Summary of Operating Expenses for the year ending June 30, 1917—Continued.

The state of the s	Crossing Protection.	8 GEORGE V, A. 1918 8 GEORGE V, A. 1918 111 82 83 85 85 85 85 85 85 85 85 85 85 85 85 85
	Cros	
	Signal and Interlocking Operation.	\$ cts. 175 32 378 72 378 72 378 74 3, 781 40 866 41 180, 530 11 182 22 11, 122 31 1, 122 31 17, 923 13 15, 608 888 18, 888 89 638 88 18, 888 89 638 88 18, 888 89 17, 923 13 15, 608 888 18, 888 89 17, 923 13 15, 608 888 18, 888 89 17, 923 13 15, 608 888 18, 888 89 17, 923 13 15, 608 888 18, 888 89 17, 923 17
	Operating Sleeping Cars.	\$ cts. 92,009 63 112,688,58 958,493 18 4,261 42 4,261 42 1,319 93
o-Continued.	Train Supplies and Expenses.	\$ cts. 9,502 26 3,341 18 1,021 18 2,111 30 1,196 13 1,197 14 1,197 15
nses, Rail Lin	Trainmen.	\$ cts. 43,942.86 50,336.91 17,306.71 50,461.17 50,461.17 50,461.17 50,461.17 50,461.17 50,461.17 50,461.17 50,461.20 50,461.20 50,461.20 50,461.20 50,461.20 50,461.20 50,461.20 50,461.20 50,461.20 50,702.80 50,
Transportation Expenses, Rail Line—Continued	Enginehouse Expenses— Train.	\$ c18.332 90
Trans	Other Supplies for Train Locomotives.	\$ cfs. 1, 124 73 26.3 447 26.3 447 27, 56.8 69 28.9 77 28.9 7
	Labricants for Train Locomotives.	\$ cf. 1.738 64 1.738
	Water for Train Locomotives.	\$ cts. 6, 115 13 1, 302 82 2, 038 340 2, 038 340 2, 038 340 1, 125 586 445 2, 041 86, 048 98 2, 041 86, 048 98 2, 041 87 2, 541 94 1, 124 94 2, 541 94 1, 125 86 1, 125 88 1, 125 88 1, 125 86 1, 125 88 1, 12
	Name of Railway.	Algoma Central & Hudson Bay Algoma Eastern. Alboria & Great Waterways Brandon, Saskatchewan & Hudson Bay, Brish Yukon. Canada & Gulf Terminal. Canada & Southern. Canada & Southern. Canada & Southern. Canadian Southern. Canadian Southern. Canadian Northern System. Canadian Northern Canadian Northern Eastern. Compe Breton. Contral Vermont Contral Vermont Contral Vermont Contral Vermont Contral Vermont Contral Vermont Contral Contral Shore. Contral Contral Southern. Cumberland Contral Contral Columbia. Eastern Eastern Striish Columbia. Eastern Hrunk Columbia. Esquinnal & Naminno Bretericton & Grand Lake Coal and Railway Co Grand Trunk Pacific Grand Trunk Pacific Branch Lines. International of New Brunswick. Kent Northern. Kent Northern.

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4,376 92 1,861 87 1,073 89 5,585 39	629 629 629 653 653 653 653 653 653 653 653 653 653	396,538 16
2,079 75	1, 13	1, 224, 320 57
377 94 1,596 79 329 91 5,549 55 7,005 05 13,259 102 13 102 13 104 13 128,746 94 2,251 49 2,251 49 2,251 49 3,058 56		4,542,162 61
1, 791 97 6, 574 50 6, 574 50 74, 581 49 16, 187 45 1, 975 00 6, 961 45 6, 961 45 8, 427, 657 46 5, 467 46 8, 943 10 8, 943 10 8, 943 10 8, 943 10 8, 943 10	18, 997 123, 076 82, 862 10, 904 10, 904 10, 904 10, 904 10, 904 11, 500 11, 500 11, 500 11, 500 11, 500 11, 500 12, 108 13, 114 14, 044 18,	13, 223, 005 75
1, 956 29 1, 048 17 1, 238 40 6, 978 34 6, 978 34 7, 366 07 21, 108 39 8, 108 39 2, 108 46 29, 144 20 29, 144 20 29, 144 20 29, 144 20 29, 144 20 29, 144 30 6, 991 45		4, 189, 126 51
26 19 75 84 466 24 624 63 624 63 533 91 2,580 15 805 48 14,156 06 14,156 03 19 85 20 30 22 64	5550 100 100 100 100 100 100 100	398, 405 84
26 17 88 88 88 88 89 09 392 03 822 30 1, 655 49 17, 159 38 11, 159 38 11, 159 38 11, 159 38 11, 159 38 11, 159 38 11, 159 38	683 9060 9070 9080 9	408,270 57
132 15 276 13 276 13 4, 059 86 4, 059 86 2, 601 95 573 95 96, 323 14 269 36 182 87 20 06 20 06		1,539,253 10
Maine Central. Manitoba Great Northern. Maritime Coal, Ry. & Power Co. Massawippi Valley. Midland Ry. of Manitoba. Moncton & Buctouche. Montreal & Atlantic. Morriscy, Fernic & Michel. Napierville Junction. National Transcontinental. Nelson & Fort Sheppard. New Brunswick Coal & Ry. Co. New Brunswick & P. E. Island. New Westminster Southern. Northern New Brunswick and Sea-	board. Ottawa & New York. Pacific Great Eastern. Pero Marquette. Quebec Central. Quebec Oriental. Quebec Oriental. Quebec Oriental. Quebec Oriental. Red Mountain. Roberval-Saguenay. Rutland & Noyan. Saguenay-Albert. St. Lawrence & Adirondack. St. John & Quebec. St. John & Quebec. St. John & Quebec. Temiscouata. Temissaming of Northern Ontario. Temissaming of Northern Ontario. Thousand Islands. Toronto, Hamilton & Bufflalo. Victoria Terminal Ry & Ferry Co. Victoria & Sidney, B.C. Wabash (in Canada).	Final Total

Table 8.—Summary of Operating Expenses for the year ending June 30, 1917—Continued.

			Transpor	tation Expense	Transportation Expenses, Rail Line—Continued.	ontinued.		
Name of Railway.	Drawbridge Operation.	Telegraph and Telephone Operation.	Operating Floating Equipment.	Express Service.	Stationery and Printing.	Other	Operating Joint Tracks and facilities— Dr.	Operating Joint Tracks and facilities— Cr.
	\$ ets.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	& cts.	& cts.
Algoma Central & Hudson Bay	982 65				2,112 28 1,327 01	5,915 48	96 666	726 02
Atlantic, Quebec & Western		1917				73 95		
Alberta & Great Waterways,		299 93			353 65	172 49		
British Yukon		1,016 04				27 909	:	
Janada Southern		26,778 21			46,960 69	26,110 21	22,477	23,512 49
Canadian Govt. Railway (Intercolonial)	4,025	11,049 31			99,639 40	193 67		
(F. E. Istand)	6.911	17,969 69		17, 222, 24	131,659 99	5,696 31	14,461 97	:
Canadian Pacific	17,965 95	208,479 01			362,238 83		76,085	19,568 42
Cape Breton	96 617 1	150 91			9 919 93	,	9.43	
araquet & Gulf Shore					100 10	165		
Crow's Nest Southern.		64 71			454 16	323		
Cumberland					784 88	2, 492		
Central Canada	0101	25 50			6 605 75) ic		
Fastern British Columbia	01011	II 00			217 97	12		
Edmonton, Dunvegan & British Columbia.		973 99			2,677 19	508		
Elgin & Havelock				28 30	11 36			
Essex Terminal	02 006 6	47 93 177 01			11 13	18/		
Esquimant & Naranno Fredericton & Grand Lake Coal & By. Co.	00 862.2				351 00	6.742		
	26,928 26	44,704 91			190,301 81	58,397 02	8,711	143,291
Grand Trunk Pacific	2 00	16,798 75	373 27	145,025 56	26,331 03		3,684 72	1,381 19
Grand Trunk Pacific Branch Lines		4,071 90		20,465 33	9,414 50	433 45 61 10		
International of New Brunswick		352 43			542 05			
Kert Northern					1,749,43	1.410 35		830.24
Lotbiniere & Megantic		0 70			110 26	7 35	10 00	360 000
Manitoba Great Northern		195 69			236 77	105 39		
Maritime Coal Rv. & Power Co.		100 42			102 46			

SES	SSIC	NAL	PA	PER	Ν	ο.	20k)														
12 92		50 00					68 939	3.615 00				3 87	277 36				891 77		1,148 53		231 24	200,309 79
$\begin{array}{c} 1,069 \ 25 \\ 13,336 \ 41 \\ 9,400 \ 00 \end{array}$		2,872 35		457 00		2,902 84	29,724 62	14,760 48				41 40	9,261 59					1,223	4,913 87		104,140 03	337,234 18
$\frac{92}{1,187} \frac{85}{57}$		29 63 666 82		39 48			510					2 43		1		68	470 94				4,379.86	198,881 56
$\frac{379}{1,927} \frac{42}{38}$	6,528 26	683 51 33,061 88	282 06 84 34 73 84 34	65 98		1,721 22	9,889 58	4,142 39	300 00	925 76	1,319 11	56 08	2,264 39	246 78			13,147 68				5,107 88 9 00	1,008,279 15
						975 00											336.00					183,353 41
		77,128 28				90 886 68	31,496 01												10, 149 91			518,210 17
8 88 1,265 77		65 00 . 12,968 63	649	3 09		2 98		682 25			397 53		28 85		96 49				352 81		503 56	366,984 23
		1,709 13	05 30			833 71	330 30	553 94		169 48		14 49		0 43					2,020 82			71,842 35
Massawippi Valley. Midland Ry. of Manitoba. Maneton & Buctoneho.	Montreal & Alantic Montreal & Alantic	Napierville Junction National Transcontinental	Netson & Sheppard New Brunswick Coal & Ry. Co Now Brunswick to D. Usland	New Mannamer & 1 - E. Island Northern New Brunswick & Seaboard	North Shore	Ottawa & New York	Pere Marquette	Quebec Central Ouebec, Montreal & Southern	Quebec Oriental.	Quebec Ry., Light & Power Co	Roberval-Saguenav	Rutland & Noyan	St. Lawrence & Adirondack	St. John & Quebec.	St. Martins Sydney & Lonishurg	Temisconata	Temiskaming & Northern Ontario	Toronto, Hamilton & Buffalo	Vancouver, Victoria & Eastern	Victoria & Sidney, B.C	Wabash (in Canada) York & Carleton.	Final Total

TABLE 8.—Summary of Operating Expenses for the year ending June 30, 1917—Continued.

Name of Railway.	Insurance.	(Tearing Wreeks.	Damage to Property.	Damage to Live Stock on Right-of-Way.	Loss and Damage— Freight.	Loss and Dannage— Baggage.	Injuries to Persons.	Total Transporta- tion Expenses, Rail Line.
	es cts.	es cfs.	%)° €	s ets.	ets.	es cfs.	s ets.	e c(s.
Algebra Charles & Hudson Bay	69 990 6	89 686 61	1196		1 98.1 JP			110 632
going Carte Caracomarks	20 000 1	26 909 2			77 05	16.03	26 266	101, 100
fantio Chalson & Western	en mer,	200'7		75 00	90 991	60		191,001
Alberta & Great Waterways		90 00						57.00-10
Brandon, Saska(chewan & Hudson Bay	181	35	22 01	1.236 36	145 95	(fr. 13.29		48, 647, 89
itish Yukon		15 96					38	60,339
Canada & Gulf Terminal					33 25	96 6		19,037
nada Southern			6,883 70			1,193	49,845	4,351,449
Canadian Govt. Railway (Intercolonial)	1,780 20			7.5		1,742 63	4,551	9,787,422
" (P. E. Island)	<u>~</u>	24 98 18	433 98				-IS 50	336,519
andian Northern System	13,210 61	126,776 76	49,595 68	. 18,355				15,803,817
Canadian Pacific		111,019 36	44,856 67	41,519 36	765,563 07	2,009 35	431,214 91	47,093,830
Supe Breton		385 50	8 OO		9 13			11,76-1 49
entral Vermont.	80 73	657 62	28 69	72 50		92 9	1,541 88	138, 744
araquet & Gulf Shore		_			310 36			
Jrow's Nest Southern	307 25	130 68	162 08	683 15	91 55	('r. 11 83	40 23	60,369
Cumberland				:				49,632
'entral ('anada	89 51							12,017
Dominion Atlantic		08 181	1,083 1.	19 28	7,827 72	134 83	1,437 87	466,923
Sastern British Columbia	-				0 07			15,628
demonton, Dunvegan & British Columbia	1,040 21	3,606 31	100 00	95 11	1, 177 77		00 001	227, 220
dgin & Havelock		02 611						5,033
Ssex Terminal					43 32		90 -	27,706
squimalt & Nanaimo		272 83	00 07				765 00	212, 434
'redericton & Grand Lake Coal & Ry. Co		E 21	:	i;				
Grand Trunk	43,081-81	83, 125 79	38, 239 64	13,761	120,992 03	5, 196 96	230, 734, 56	19,053,769
and Trunk Pacific		8,999 67	1, 150 43	4,740			40,388 75	2,634,413
and Trunk Pacific Branch Lines		3,688 99	59 066 560	ទាំ		29 51	8.1 53	836,338
reford	95 26	835 93	1.25	265	584 62			
International of New Brunswick		4,930-29		16 6	6 13			80,968 03
Nent Northern	100	900		1				7,328
Lothinjora & Mogantia	70 710	2,000,2	00 10	67 200.1	100 F	00 \$.5	01-01	
tine ('entral								
Manitoba Great Northern	197.94	16 71	SO 30	01 00		(7r 6 49	60 16	38.015
Maritime Coal, Rv. & Power Co.		49 33			18			30.052
Massawinni Vallov	69 95	439 70	28 90	75 00		113.35	0 167 15	15.1 671

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606 166 166	55,990 54 56,027 79 3,673,841 19 40,734 99 14,783 99	842 756	735	621 948	218 166	256 322 269	110 848 750	207 276 797	678,081 02 437,899 21 1,275 00	153	114, 327, 343 71
1,622 14	14,569 67 7,625 24 18 60	10 26	38 00 28,706 12	625	0 61 706 22		471 86	360 84	2,783 99 5,179 29 0 15	1,870 10	966, 806 60 114, 327,
04 80	410 77 Cr. 111 84			72 00		0 84 0 82	12 82	71 47	S0 61 Cr. 40 12	9 : 8	16,396 78
	35,384 95 281 73 281 73 20 78			1,891 67 1,669 09					3,720 30 1,766 67 4 38		1,814,437 56
417 52	126 09 2,859 45 29 09 7 50			676 96 55 00 334 00			74 28 299 96	330 00 63 50 278 84	990 54 910 56 8 10	206	108,550 03
159 7	1,369 15			127 30 70 00	3 12	7 40 5 01 25 00		92 00	5,313 30 1,293 08 0 54		166, 421 29
56 78	39, 270 71 157 92	Cr. 17 24	943 68 1,626 28			1,096 28 12 85 98 43		1,094 87 806 10 3,405 54	1,577 15 1,943 82 0 07	761	557, 420 73
597 01	12 82 1,231 01 153 13	67 81 Cr		3,960 00 113 35		89 50 2 64	128 60 21 40	1,782 36	240 30 5,954 64 15 54	830	93,311 62
Midland Ry, of Manitoba Moneton & Buctouche. Montreal & Atlantic Mominary forming to Michael	Mofrey, refine & Mitthe. Mapierville Junction National Transcontinental Nelson & Shoppard. New Brunswick ("only & Rv. ("o.	New Branswick & P. E. Island. New Westminster Southern. Northern New Brunswick & Scuboard.	Ottawa & New York Pacific Grate Eastern Para Margantie	(Juebec, Montreal & Southern Onebec, Montreal & Southern	Quebec Railway, Light & Power Co. Red Mountain.	Roberval-Saguenay Rutland & Noyan Salishury & Albert	St. Lawrence & Adirondack St. John & Quebec. St. Marrins	Sydney & Louisburg. Temiscouata Temiskaming & Northern Ontario. Thousand Lebest.	Toronto, Hamilton & Buffalo Vancouver, Victoria & Eastern Victoria Ternimal Ry, & Ferry Co.	Wabash (in Canada) York & Carleton	Totals

TABLE 8.—Summary of Operating Expenses for the year ending June 30, 1917—Continued.

		Fransportation-Water Line	Water Line.			Miscellaneous Operations	Operations.	
Name of Railway.	Operation of Vessels.	Operation of Terminals.	Incidental.	Total Transporta- tion Water Line.	Dining and Buffet Service.	Hotels and Restaurants.	Grain Elevators.	Stockyards.
	3. 2.	s cts.	es ctr	æ. ⊗	s cts.	es c(s.	.e cts.	es ets.
Algoma Central & Hudson Bay. Alfornia Fastern. Alfantic, Quebec & Western. Alfordia & Great Waterways. Brandon, Saskartchewan & Hudson Bay. British Yukon.								
Canada & Culf Terminal Canada Southern Fanadam Govt. Ralbany (Intercolonial (P. E. Island) Canadian Northern System	123, 663 62 181, 206 82 86, 109 97	110, 538 36	9,542 30	123, 663 62 301, 287 48 86, 109 97	123, 831 03 292, 721 26 322, 512, 29 1 618 101 17	21, 245 25 19, 005 55 185, 813 34 183, 833 84	11,382 26	7,313 36
ern					80 98			
Fredericton & Grand Lake Coal & Ry. Co. Grand Trunk Grand Trunk Pacific Grand Trunk Pacific Branch Lines.					303, 201 84 132, 995 08 9, 476 59		11,216 18	8 18
International of New Brunswick Kent Northern Kettle Aldley Lothiniere & Megantic Maine Central Manitoba Great Northern Manitoba Great Northern								

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Table 8.—Summary of Operating Expenses for the year ending June 30, 1917—Continued.

. General Expenses.	Salaries and Salaries and Expenses Expenses of General Office supplies Office supplies Officers. Expenses.	\$ cts. \$ cts. \$ cts.	87 7.934 19 2.362 60 14.936 51 821	3,106 40 1,627 96 2,242 38 173	1 618 03 45 64 69	31 1,743 31 123 13 1,341 95 4	48 704 86 707	007 02	62 139, 602 39 5,017 65 22, 476 67 2, 421	75 6,147 61 213 87 962 00 88 57 40 151 259 62 69 758 67 69 758	236, 426, 32 435, 323, 44	123	788 85 4,736 76 137 21 1,087 74	63 2,167 65 128 30 2,615 81 4	738 50 733 49 943 34 326	832 28 13 12	250 00 557 00 42 5,507 59 60 60 557 00 557	74 4,124 58 2,136 59 1,644 68	985 00 526 01	41 374 92 19 15 711 90 6 688	18 1,762 00 189 84 82 91 378	485,124 71 67,246 52 80,641 38 757 86 11,886 54	99 80, 220 30 0, 689 32 22, 863 88 3, 497 36	54 1.792 56 168 86 631 46 2 64	82 1,469 30 51 93 243 50 26	39 274 86 79 50 113 75	9,402 00 1,094 50 47 50	00 1,295 21 646 52 894 89 245 47 29 48 110	54 73 25 1.486 28 2.73	00 009
Miscellaneous Operations.	Other Total Miscellaneous. Miscellaneous.	\$ ets.	-					<u> </u>	323,109	20 020												314,418	04,495 99 187							
	Name of Railway.		Algoma Central & Hudson Bay	Algoma Eastern	Allantic, Quebec & Western	Brandon, Saskatchewan & Hudson Bay	British Yukon.	Canada Southern	Canadian Govt. Railway (Intercolonial)	('Spading Morthon System	Canadian Pacific.	Cape Breton	Central Vermont	Crow's Nest Southern.	Cumberland	Central Canada	Eastern British Columbia.	Edmonton, Dunvegan & British Columbia	Edgin & Havelock.	Esquimalt & Nanaimo	Fredericton & Grand Lake Coal & Ry. Co	Grand Trunk	Grand Trunk Pacific Branch Lines	Hereford	International of New Brunswick.	Kent Northern	Kettle Valley	Maine Central	Manitoba Great Northern.	Maritime Coal, Railway & Power Co

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3, 342 00 3, 342 00 47 45 1, 606 50		29,215 06
Cr. 6, 708 98 Cr. 6, 708 98 Cr. 6, 708 98 Cr. 6, 708 98 Cr. 6, 708 98 Cr. 6, 708 98 Cr. 6, 708 98 Cr. 6, 708 98 Cr. 6, 708 98 Cr. 6, 708 98 Cr. 708 72 Cr. 6, 708 72 Cr. 708 72		807,275 95
900 900 900 900 900 900 900 900	11,720 70	666,941 25
26 00 216 00 216 00 21 1, 195 00 21 1, 195 00 21 1, 195 00 21 1, 195 00 21 1, 195 00 21 1, 195 00 21 1, 195 00 3, 19		332,187 81
1,226 62 2,24 68 68 68 68 68 68 68 68 68 68 68 68 68		2,591,936 24
1, 1478 96 96 96 96 96 96 96 96 96 96 96 96 96		1,283,951 30
277 7774 797 797	10,877.84	3,962,543 94
30,470 64		85,842 80
Midland Ry, of Manitoba Montreal & Atlantic Montreal & Atlantic Monrissey, Fernic & Michel National Transcontinental National Transcontinental New Brunswick & P. E. Island Northern New Brunswick & Seaboard Northern New Brunswick & Seaboard North Shore Ottawa & New York North Shore Ottawa & New York Ottawa & New York Ottawa & New York Auchec Central Quebec, Montreal & Southern Quebec, Montreal & Southern Quebec Railway, Light & Power Co. Red Montain Roberval -Saguenay Rutland & Noyan Salisbury & Albert. St. Lawrence & Adhrondack St. John & Quebec St. Martins Sydney & Louisburg Yeniscourta Temiscourta Temiscourta Temiscourta Temiscourta Temiscourta Temiscourta Terorotto, Hamilton & Buffalo Vaccouryer, Victoria & Eastern Victoria & Sidney, B. C.	Wabash (in Canada)	Totals

Table 8.—Summary of Operating Expenses for the year ending June 30, 1917—Continued.

)	General Expenses—Concluded	es—Concluded.			T. Company
Name of Railway.	Pensions.	Stationery and Printing.	Other Expenses.	General Joint Facilities— Dr.	General Joint Facilities— Cr.	Total General Expenses.	ation for Investment,
	\$ cts.	S cts.	es cts.	s cts.	s cts	s cts.	\$ cts.
Almonia Control & Huston Boy			67 747 80			119 476 91	
Algoma Eastern						16,715 29	12,062 50
Atlantic, Quebec & Western.		285 40				16,309 65	
Alberta & Great Waterways.							07.0
Brandon, Saskatchewan & Hudson Bay	77	00 001	06 GGI			4,125 04	2 42
Canada & Gulf Torminal						9, 210 43	
Canada Southern			11,686 17				
Canadian Govt. Railway (Intercolonial)	95, 171, 76	22,703 90	18,666 45				
" (P. E. Island)	4,116 22	972 16	1,256 75	-	:	15,490 53	
Canadian Northern System	98 O	46, 459 75	181,363 12	9,321 36	1,478 81	1,335,533 68	
Canadian Pacific.		113,041 20	635,539 14	1,639 20			
Cape Ireton.	00 016						
Contral vermont,	00 01:2		0 867 98			8,330,13	
Crow's Nost Southern	28 70	32 32 32				6.058 71	1.473 45
Cumberland							
Central Canada		44 72	7				:
Dominion Atlantic	6,578 93	3,399 19	1.91				
Eastern British Columbia		15 00	348 07				
· Edmonton, Dunvegan & British Columbia			4,594 25			24,179 51	
Elgin & Havelock		461 58	15 695 99				
Reminelt & Nanaimo							
Fredericton & Grand Lake Coal & Railway Co.		122 82					
Grand Trunk	147,725 51		340 63	163,576 31	1,2		
Grand Trunk Pacific			20,754 54	1,785 50	₹6 ±		
Grand Trunk Pacific Branch Lines			7,589 60				
Hereford	315 14	192 41	371 55				
International of New Brunswick	885 80		286 74			3,609 73	
Kent Northern			102 00				:
Rettle Valley		96	1,187,34			6.612 11	
Maine Central			89 99				
Manitoba Great Northern	17 90		95 06				48 32
Maritime Coal, Railway & Power Co		26 00	90 00:1			2,960 90	
, Massawippi Valley			14.4 00				

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	226	1,385 1,508 1,508 707 18,207
12,920,26 12,920,26 32,007,43 32,007,43 23,131,08 4,86,85 113,296,91 1,820,29 1,820,29 1,820,29 1,401,401,401,401,401,401,401,401,401,40	10,867 06 76,687 281 23 76,687 281 23 15,189 26 11,933 38 11,149 34 755 27 2,149 34 12,209 67 3,730 19 3,730 19 16,920 19	110, 677 12 3, 629 40 68, 059 40 68, 196 11 23, 196 11 2, 895 92 103, 641 52 7,584, 881 55
		2, 954 82 2,954 82
1,615.7	108 19	1, 197 83
0.51 25 0.61 52 0.60 52 250 06 250 06 250 07 0.52 70 0.52 24 2,528 07 1,538 07 7 30	121 47 17 17 17 17 17 17 17 17 17 17 17 17 17	090 20 20 924 714 714
8, 466 77 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		5, 493 97 1, 755 63 1, 755 63 19 39 19 39 2, 775 93 320, 540 02
20, 648 95 18 33 159 82 1 60	17 76 52 63 403 58	7,724 83 104 45 512 27 297,879 14
way (o. md. Seaboard.	horm. & Power (10.	ntario o rr & Ferry Co.
Muthand K.Y. Ol Manthona. Montreal & Atlantic. Montreal & Atlantic. Morrissey, Fernic & Michel. O Napierville Junction. O National Transconfinental. Nelson & Fort Sheppard. Ci New Brunswick & P. E. Island. New Westminster Southern. Northern New Brunswick & Seaboard. Northern New Brunswick & Seaboard. Northern New Brunswick & Seaboard. North Shore.	York stern il & Sout il & Sout nay nay ert. Adirond: ee.	Temiskaming & Northern Ontario. Thousand Islands. Toronto, Hamilton & Buffalo Vancouver, Victoria & Eastern Victoria Teminian Railway & Ferry C Victoria & Sidney, B.C. Wabash (in Canada) York & Carleton Totals.

Table 8.—Summary of Operating Expenses for the year ending June 30, 1917—Continued.

	Total Operating Expenses.	\$ ct 969 481 355,620 162,738 101,337 132,498 146,511 16,385,741 91,385 30,840,234 96,657,441 24,208 27,340 27,340 27,340 27,340 27,340 27,340 30,840,234 30,840,234 31,170 31,170 496,370 11,901 11,90	1, 796, 346 61 129, 025 49 129, 025 49 17, 857 33 669, 294 05 33, 736 83 16, 337 37
	Transport- ation for Investment, Cr.	\$ cts. 12,062 50 2 42 1,473 45	
	General Expenses.	\$ ct 119,476 16,715 16,309 16,309 19,140 314,187 314,187 314,187 314,187 314,187 314,187 315,333 2,908,351 3,880 8,433 6,605 6,605 6,738 1,224 1,222 2,735 6,605 1,907 1,907 1,907 1,907 1,185,507 1,907 1,907 1,907 1,185,507 1,907 1,907 1,907 1,907	72, 937 40 4, 304 16 3, 609 73 1, 858 50 14, 259 80 6, 612 11 761 73
Ises.	Miscel- laneous Operations.	\$ 152, 389 323, 109 323, 196 314, 418 187, 497	9, 476 59
Recapitulation of Expenses	Transport- ation Water Line	\$ cts. 123.663 62 301,287 88,109 97 2,760,831 55	
Recapitula	Transport- ation— Rail Line.	\$ C18. 410, 135 73 191, 061 52 67, 564 99 48, 617 89 48, 618 89 4	236,338 12 66,342 11 80,968 02 7,328 40 275,285 21 11,143 72 10,894 89
	Traffic.	\$ cts. 6,156.98 4,927.66 1,289.30 3,346.53 8,746.38 10,003.74 10,003.74 1,101.20 3,97 1,101.20 3,97 1,083.41 1,01.20 3,97 1,083.41 1,01.20 3,97 1,083.41 1,01.20 3,97 1,083.41 1,01.20 3,97 1,01.20 3,97 1,083.41 1,01.20 3,97 1,093,47 1,01.30	2, 249 60 2, 249 60 3, 076 95 3, 076 95 396 56
	Maintenance of Equipment.	\$ (147, 253, 322, 821, 977, 134, 134, 134, 134, 134, 134, 134, 134	25,1,305,1,305,21,305,31,31,31,31,31,31,31,31,31,31,31,31,31,
	Maintenance of Way and Structures.	\$ (18.7) \$ (18.	70, 281 34 306, 133 71 70, 281 34 77, 387 34 306, 133 05 11, 262 97 2, 113 04
	Name of Railway.	Algonna Central & Hudson Bay. Algonna Eastern Athanic Quebec & Western Athanic Quebec & Western Alborta & Great Walerways. Brandon, Saskatchewan & Hudson Bay British Yukon. Canada Soathern Canada Soathern Canada Soathern Canada Soathern F. E. Island Canadian Pacific Cape Brefon. Cartal Vermont Cartal Vermont Cartal Vermont Cantral Vermont Cantral Vermont Cantral Canada Central Central Canada Central Cen	Grand Truth Lacilic Branch Lines. Hereford. International of New Brunswick. Kent Northern. Kettle Valley. Lotbiniere & Megantic. Maine Central.

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25, 283 43 25, 283 43 28, 318 29 344, 319 38 37, 193 38 1, 223, 777 51 88, 105 30 100, 390 235 100, 390 230 100, 300 230 1	26 1,713 645 16 287 808 05 287 808 05 287 808 05 287 807 19 280 741 28 280 741 28 280 741 28 281 733 44 129 75 75 281 100 101 051 20 281 167 12 281 167 167 167 167 167 167 167 167 167 16
39	226 11,385 1,508 707 18,207
3,336 62 11,554 47 11,554 47 12,900 96 11,554 47 12,177 41 21,131 08 4,806 83 4,806 91 13,296 91 13,296 91 1,852 49 1,401 14	10,887 06 29,381 29 26,387 06 15,320 06 15,110 20 11,933 58 11,933 58 11,933 58 11,933 58 11,49 24 21,49 24 36,77 12 38,730 19 10,677 12 38,679 19 10,68,690 94 68,690 94 68,690 94 68,690 94 103,641 52
11, 279 50	15, 797 03 50, 551 96 20, 054 63 3, 414 00 10, 877 84
	3,271,892 62
38, 015 17 39, 052 15 154, 671 12 167, 696 11 16, 606 11 16, 606 11 16, 007 14 33, 996 34 35, 637 841 19 40, 783 29 14, 783 29 18, 783 28 18, 7	173, 410 82 173, 410 82 176, 623 39 176, 623 39 176, 623 39 174, 556 69 174, 556 69 174, 556 10 17, 919 10 17, 919 10 19, 277 11 19, 289 20 19, 277 19 19, 289 20 11, 589 20 11, 588 20 11,
1,806 41 3,569 53 10,205 07 10,205 07 895 35 131,774 34 2,785 17 42,50 2,668 93 590 86	6,919 11 3,672 32 1,672 13 05 67,113 05 67,113 05 1,28 59 1,918 85 1,118 85
10,556 04 6,150 61 40,004 89 60,209 59 60,209 59 7,152 7,15 1,720,010 04 8,621 61 7,638 41 1,720,010 04 8,621 61 7,638 41 1,780 11 04 8,621 61 7,638 41 9,781 91	39, 375 66 61,175 166 61,173 148 80 180,441 19 30,443 99 22,043 82 2,403 80 1,969 87 1,969 87 2,739 47 2,739 47 2,739 47 2,739 49 3,959 85 3,959 85 3,959 86 62,920 76 205,930 80 3,644 80 104,304 148 86 65 4,055 58 4,055 58 4,055 58 4,055 58
71, 973, 66 16, 119, 71 77, 18, 28 52, 002, 88 11, 326, 42 28, 533, 91 20, 195, 38 11, 535, 581 23, 166, 99 24, 66, 99 23, 166, 99 13, 392, 99	78,035,44 51,366,51 241,664,51 122,963,64 13,057,43 14,755,43 17,367,43 18,290,89 11,755,43 11,755,43 11,755,64 11,154,193,11 11,866,93 11,866,93 11,866,93 11,866,93 11,866,93 11,866,93 11,866,93 11,866,93 11,866,93 11,866,93 11,866,93 11,866,93 11,866,93 11,866,93 11,866,93 11,866,93 11,864,93 11,86
Manitoba Great Northern. Maritime Coal, Ry. & Power Co. Massawippi Valley. Midland Railway of Manitoba. Montroil & Atlantic. Morrisey, Fernie & Michel. National Transcontinental. National Transcontinental. Nelson & Fort Sheppard. New Brunswick & P. F. Island. New Westminster Southern. Northern New Brunswick & Seaboard.	North Shore Ottawa & New York Pacific Great Eastern Pero Marquette Quebec Central. Quebec Central. Quebec Oriental Quebec Central. Quebec Ry, Light & Power Co. Red Mountain Roberval-Saguenay Rutland & Noyan Salisbury & Albert St. John & Quebec St. John & Quebec St. Martins. St. Lawrence & Adirondack. St. Martins. St. Martins. St. Martins. Temiskaming & Northern Ontario. Thousand Islands. Toronto, Hamilton & Buffalo. Vancouver, Victoria & Eastern. Victoria Terminal Ry & Ferry Co. Victoria & Sidney, B.C. Wabash (in Canada). York & Carleton. Final Total.

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Table 9.—Income Account for

Name of Bulleton	Ne	t.		Outside Op	erations.		
Name of Railway.	Operating Revenue.	Operating Deficit.	Revenue.	Expenses.	Profit.	Loss.	
	\$ cts.	\$ ets.	\$ ets.	\$ ets.	\$ cts.	\$ ets.	
1 Algoma Central & Hudson Bay			514,452 10	226,930 78	287,521 32		
2 Algoma Eastern 3 Atlantic, Quebee & Western	271,020 22	13,316 83					
4 Alberta & Great Water- ways. 5 Brandon, Saskatchewan &		39,345 02	9,261 60	10.969 72		1,708 12	
Hudson Bay							
6 British Yukon	137,377 47 4,295 68						
8 Canada Southern Canadian Gov't Railw's—	5,936.234 61						
	1,638,139 91						
1 Canadian Northern System	12,159,742 39 50,055,673 93						
3 Cape Breton 4 Central Vermont	66,305 25	11,847 19			! !		
5 Caraquet & Gulf Shore 6 Crow's Nest Southern	782 17	105,474 90					
7 Cumberland 8 Central Canada	11,882-88	19,137 12					
9 Dominion Atlantic 20 Eastern British Columbia	321,996 38	5,488 14	6,281 30	8,948 19		2,666 89	
21 Edmonton, Dunvegan & British Columbia				3,864 95			
22 Elgin & Havelock 23 Essex Terminal	32,441 92	1,616 39					
24 Esquimalt & Nanaimo 25 Fredericton & Grand Lake			1				
Coal & Railway Co 26 Grand Trunk	41,233 78 13 179 038 48						
27 Grand Trunk Pacific 28 Grand Trunk Pacific Br'h		205,734 81					
Lines		203,327 61 55,837 58					
30 International of New Bruns- wick		45,409 86					
31 Kent Northern 32 Kettle Valley	7,500 00	100,159 48					
33 Lotbiniere & Megantic 34 Maine Central.	1,052 03	100,100 40	1				
35 Manitoba Great Northern 36 Maritime Coal Railway &		83,218 36					
Power Co	42,260 43		·	j			
37 Massawippi Valley 38 Midland of Manitoba 39 Moneton & Buctouehe		9,810 70					
40 Montreal & Atlantic	77,555,95				1		
41 Morrissey, Fernie & Michel 42 Napierville Junction	70,346 41			1			
43 National Transcontinental. 44 Nelson & Fort Sheppard.		82,032 16 47,830 30	3'				
45 New Brunswick Coal & Railway Co.		13,591 73	3				
46 New Brunswick & P. E. Island		27,112 46					
47 New Westminster Southern 48 Ottawa & New York		13,364 78	3				
49 Pacific Great Eastern 50 Pere Marquette	1,489,691 35	108,209 7					
*1 Ourhan Classes	566,082 35						
51 Quebec Central. 52 Quebec, Montreal & South-							

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Total		Taxes Deduction	Tota	il.	Other In- come from	Total Gross Corporate.					
Net Net Deficit.			Operating Income.	Operating Loss.	all other Sources.	Income,	Loss.				
\$ cts.	\$ ets.	\$ et	s. \$ ets.	\$ ets.	\$ ets.	\$ ets.	\$ ets.				
474,518 00 271,020 22	13,316 83	30,728 $1,839$ $3,263$	13 269,181 09)	113,765 84 1,186 98 59,074 61	557,555 17 270,368 07 42,494 78					
	41,053 14	2,160		43,213 74	25,855 70		17,358 04				
137,377 47 4,295 68 5,936,234 61	84,391 13	1,071 6,805 252,859	27 130,572 20 4,295 68	3	22,592 22	153,164 42 4,295 68 6,276,759 17					
1,638,139 91 12,159,742 39 51,766,906 53	245,183 35	903,021	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	245,183 35	364,563 50 9,660,476 89	59,544,432 71	245, 183 35 1				
66,305 25 782 17 11,882 88 319,329 49	1:22-121-22	5,450 6,341 138 412	782 17 91	111,816 71	22,546 45 5 01 669 30 23,291 67	83,401 31 782 17 11,882 88 342,208 80	111,811 80 1 118,606 21 1				
• • • • • • • • • • • • • • • • • • • •	5,488 14	1,460	318, 917 13 318, 917 13 318, 917 13 318, 917 13 318, 917 13 318, 917 13 318, 917 13	6,948 21	14,638 89	20,428 54	2				
32,441 92		35,965	. 32,441 92	1,616 39		32,441 92	1,616 39 2				
13, 179, 038 48	205,734 81	1,289,167 44,725	41,233 78 77 11,889,870 71	250,460 60	2,500,485 04 2,535,064 04	41,233 78 14,390,355 75 2,284,603 44	2222				
	203,327 61 55,837 58		61		909,375 72 382 01	683,762 50	57,256 54 2				
7,500 00 1,052 03 3,429 84	100, 159 48	10,020	7,500 00 18 18 1,052 03 2,919 8	$\begin{bmatrix} 0 & \dots & 179 & 66 \\ 110 & 179 & 66 \end{bmatrix}$		7,500 00 1,052 03 2,954 96	110.179.66.3				
42,260 43	61,767 54 9,810 70 1,230 03	2,403 27,128	42, 260 48 87	64,171 41 36,939 15 1 230 03	1,450 16 28,076 90	42,260 43	62,721 25 3 8,862 25 3				
77,555 95 8,729 58 70,346 41		854	8,729 58 69,491 90	82,032 16 53,449 96	2,468 51 105 41	44,472 37 8,729 58 71,960 41	82,032 16 4 53,344 55 4				
• • • • • • • • • • • • • • • • • • • •	13,591 73			13,591 73			13,591 73 4				
1,489,691 35 566,082 35	27,112 46 5,971 86 13,364 78 108,209 77	872 883	81		$\begin{array}{c} 350 & 82 \\ 2,406 & 98 \\ \hline 156,250 & 35 \end{array}$	1,644,621 06	27,112 46 4 6,493 36 4 11,841 61 4 108,209 77 4				
20,137 40	45,055 87	7,696 3,099					5				

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Table 9.—Income Account for

	Net.				Outside Operations.												
Name of Railway.	Operating Revenue.		Operating Deficit.		Revenue.			Expenses.		s.	Profit.			Lo	ss.		
Quebec Railway, Light &	\$	ets.	\$	et	s.	\$	ct	ts.		\$ 0	ets.		\$	eı	ts.	\$	cts
Power Co	19.7	550 00										١					
Red Mountain			14.	.398	41										[
Roberval-Saguenay	47.	537 00]		
Rutland & Novan													. .				
Salisbury & Albert	6,	779 34															
St. Lawrence & Adirondack	457.5	268 82															
St. John & Quebec			18.	,115	95												
St. Martins				,809	46												
Sydney & Louisburg	127,8	846 15															
Temiscouata	1 - 28.8	866 35															
Temiskaming & Northern																	
Ontario	525,	577 - 25															
Thousand Islands	12,5	241 - 37															
Toronto, Hamilton & Buf-			1														
falo	884,	948 - 20															
Vancouver, Victoria & Eas-																	
tern			333	, 980	53												
Victoria Terminal Railway			1														
& Ferry Co	1,0	044 - 94							٠								
Victoria & Sidney, B.C																	
Wabash (in Canada)	[1, 207, 6]																
York & Carleton	1,	$223 \ 47$															
	00.001	0.00	0.010	*0.4			100		0.00	0.000		-	010	00.	-01	-	
Total	89,894,	376 24	2,013	, 534	22	5,572,	488	50	3, ot	00,828	5 50	z,	ulo,	U35	UΙ	4,	375

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Total	l.	Taxes	Total	l .	Other Income from	Total Gross (Corporate.
Net Revenue.	Net Deficit.	Deduction.	Operating Income.	Operating Loss.	all other Sources.	Income.	Loss.
\$ ets.		\$ cts	\$ cts.	\$ ets.	\$ ets.	•	\$ ets.
47,537 00 3,068 10 6,779 34 457,268 82	18,115 95 2,809 46	17 44 5,579 74	47,537 00 3,050 66 6,779 34 451,689 08	15,585 53 18,115 95 2,809 46	4,000 00 567 33 230 67	47,537 00 7,050 66 6,779 34 452,256 41	5 5 5 17,885 28 6 2,809 46 6
525,577 25 12,241 37		78 99	525,577 27 12,162 38		134,700 43 534 29	660,277 68 12,696 67	6
884,948 20	333,980 53		849,959 42		72,684 55 168,120 80	922,643 97	230,605 29 6
12,630 49 1,207,668 04		1,380 05	$11,250 44 \\ 1,207,668 04$		Dr. 403 43	10,847 01 1,207,668 04 1,223 47	6 7
91,898,979 46	2,006,477 44	4,726,462 17	87,377,687 38	2,211,647 53	17,731,038 52	104,334,486 19	1,437,407 82

8 GEORGE V, A. 1918
Table 9.—Income Account for

			1	Deductions from
No.	Name of Railway.	Rents accrued for lease of other roads.	Other rents.	Loss on separately operated properties.
		\$ ets.	\$ ets.	\$ cis.
$\frac{1}{2}$	Algoma Central & Hudson Bay		70,476 57 $14,557$ 81	
5	Alberta & Great Waterways. Brandon, Saskatchewan & Hudson Bay		1,688 33	
6 7 8 9	British Yukon Canadian & Gulf Terminal Canada Southern Canadian Government Railways—Intercolonial		2,463 15	
10 11 12	Canadian Government Railways—Intercolonial P. E. Island Canadian Northern System Canadian Pacific Cape Breton	225,000 00 2 372 133 58	210,899 13 124 727 45	
13 14 15	Cape Breton. Central Vermont Caraquet & Gulf Shore.		32, 344 71	
16 17 18	Crow's Nest Southern. Cumberland		4,332 60 2,969 74	
$\frac{19}{20}$	Dominion Atlantic Eastern British Columbia Edmonton, Dunvegan & British Columbia	61,581 41	$ \begin{array}{r} 39,954 & 35 \\ 6,603 & 59 \end{array} $	
22 23 24	Elgin & Havelock Essex Terminal Esquimalt & Nanaimo			
$\frac{25}{26}$	Fredericton & Grand Lake Coal & Railway Co Grand Trunk Grand Trunk Pacific		22,564 80 $581,576 88$ $155,988 65$	908,618 52
28 29 30	Grand Trunk Pacific Branch Lines Hereford International of New Brunswick		64 86 400 00	
$\frac{31}{32}$	Kent Northern	21,966 62	62,425 88	
34 35 36	Maine Central. Manitoba Great Northern. Maritime Coal, Railway & Power Co		10,321 25	
37 38 39	Massawippi Valley Midland of Manitoba Moncton & Buctouche			
40 41 42	Montreal & Atlantic Morrissey, Fernie & Michel Napierville Junction		23,205 34	
43 44 45 46	National Transcontinental. Nelson & Fort Sheppard. New Brunswick Coal & Railway Co. New Brunswick & P. E. Island		$\frac{4,411}{3,456}$ $\frac{27}{43}$	
48 48 49	New Westminster Southern. Northern New Brunswick & Seaboard. North Shore.		16,944 18	
50 51	Ottawa & New York Pacific Great Eastern		52,240 15	
52 53 54	Pere MarquetteQuebec CentralQuebec, Montreal & Southern	175,187 09	680,454 35 32,409 43 953 88 18,535 39	
55 56 57 58	Quebec Oriental. Quebec Railway, Light & Power Co. Red Mountain. Roberval-Saguenay.		137 73	
59 60 61	Rutland & Noyan. Salisbury & Albert. St. Lawrence & Adirondack	1		
62 63	St. John & Quebec		11,683 38	

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Gross Corporate	e Income.				Net Co	rporate.
Interest accrued on Funded Debt.	Other Interest.	Sinking Funds.	All other Deductions	Total Deductions.	Income.	Loss.
\$ ets.	\$ ets.	\$ ets.	\$ cts.	\$ ets.	\$ cts.	\$ cts.
$\begin{array}{c} 530,730 \ 00 \\ 143,669 \ 91 \\ 63,716 \ 88 \\ 133,200 \ 00 \end{array}$	1,081 76 13,672 73 20,187 28		250,016 65 44,753 86	818,994 31 272,573 07 78,274 69 153,387 28		$\begin{array}{r} 261,439 \ 14 \\ 2,205 \ 00 \\ 35,779 \ 91 \\ 170,745 \ 32 \end{array}$
102,238 00	1,651 97			1,688 33 $103,889 97$	49,274 45	86,556 04
1,130,200 00	243,451 95			$2,463 ext{ } 15$ $4,149,550 ext{ } 66$ $786,605 ext{ } 68$	1,832 53 2,127,208 51 851,534 23	
11,657,677 38 698,591 68	2,725,127 97 11,810 84		6,316 65	14,825,021 13 3,207,263 55		245,183 35 3,203,736 97
14,234 60				68, 296 74 8, 212 40 4 332 60	15,104 57	7,430 23 116,144 40
35,146 67				38,116 41 341,462 43	11,882 88 746 37	
322,799 32	21 38			6,624 97 384,194 37		13,573 18 363,765 83 1,616 39
193,280 00			28,851 81	$\begin{array}{c} 220,474&11\\ 51,416&61 \end{array}$	32,441 92	28,013 75 10,182 83
7,602,092 56 6,368,084 04 538,760 16 32,000 00	1,515,358 61 551,720 50 683,657 64		$\begin{array}{c} 1,946,666&66\\ 7,772&67\\ 40&00\\ 500&00 \end{array}$	12,427,361 04 7,992,184 38 1,222,522 66 32,900 00		5,707,580 94 538,760 16 90,156 54
				18,669 10 84,392 50	7,500 00	194,572 16
	3,150 00			3,150 00 10,321 25		195 04 94,249 41
				5,428 50 69,035 52 86,078 80	36,831 93	131,756 77 94,941 05 1,230 03
$52,650\ 00$				124,662 18 23,205 34	8,729 58 48,755 07	80, 189 81
				741,062 29 4,411 27 3,456 43 5,107 94		823,094 45 57,755 82 17,048 16 32,220 40
				16,944 18 52,240 15		23,437 54 64,081 76 108,209 77
257,560 94	258,561 22		0 04	1,105,441 43 289,970 37 259,515 14	539,179 63 276,492 92	20,633 05
99,506 30	20, 189 40		2,391 03	118,041 69 137 73 94,131 73	11,972 07	101,002 45 15,693 99 46,594 73
4,000 00	20,100 10		2,301 00	4,000 00	3,050 66 6,779 34	10,001 10
48,768 98 539 74				236,143 36 $11,683 38$ $539 74$	216,113 05	29,568 66 3,349 20
12,166 66		9,733 33		22,560 88	$\begin{array}{c} 127,846 & 15 \\ 5,135 & 86 \end{array}$	

8 GEORGE V, A. 1918
TABLE 9.—Income Account for

			:	Deductions from
No.	Name of Railway.	Rents accrued for lease of other roads.	Other rents.	Loss on separately operated properties.
		\$ cts.	\$ cts.	\$ cts.
64 65 66 67	Sydney & Louisburg. Temiscouata Temiskaming & Northern Ontario. Thousand Islands.		66089 $75,43204$	
68 69 70 71	Toronto, Hamilton & Buffalo. Vancouver, Victoria & Eastern. Victoria Terminal Railway & Ferry Co Victoria & Sidney, B.C.		$ \begin{array}{r} 39,143 & 34 \\ 169,918 & 66 \\ 441 & 76 \end{array} $	
71 72 73	Wabash (in Canada) York & Carleton			
	Total	3,707,655 03	7,242,241 87	1,158,418 52

SESSIONAL PAPER No. 20b the year ending June 30, 1917—Concluded.

Gross Corporate	e Income.				Net Co	rporate.	
Interest accrued on Funded Debt.	Other Interest.	Sinking Funds,	All other Deductions	Total Deductions.	Income.	Loss.	No
\$ cts. 3,000 00 254,450 00 15,000 00	9,005 64		4,363 90 36 10	\$ cts. 77,706 74 10,569 90 302,635 08 169,918 66 449 27 25,550 87	2,126 77 620,008 89	400, 523 95 548 51 14,703 86	64 65 66 67 68 69
30,616,990 49	6,126,569 27			426 85 51,175,398 81	796 62	13,371,119 32	71

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Table 9.—Income Account for the year ending June 30, 1917.

			Disposal	Disposal of Net Corporate Income.	rate Incom	٠.			Balance	nee.
Name of Railway.		Dividends.		Additions America	Amorpourin		Applied		Jo Filma, J	Dobit of
	Common Stock.	Preferred Stock.	Total Dividends.	ments tions to Charged to Reserve, Income.	Appropriations to Reserve,	Miscel- lancous,	to Improve- ments.	Total.	Profit and Profit and Loss Account, Loss Account	Profit and Loss Account
	e≉ 2.	⇔	\$ 50 mm	s c	ets.	2. 7.	s cts.	\$ 5 \$\frac{c}{x}\$	S C S.	± 5 ••
Sritish Yukon 'anada Southern 'anadian Pacific Oominion Albatrie	မ	150, 000 00 000, 000 00 10, 278, 672 14	450,000 00 36,278,672 14	281	5,955 03			5,955 03 450,000 00 36,278,672 14 281 99	43,319 42 1,677,208 51 20,058,497 02 461 38	
nd Trunk reford no Control	32,000 00		32,000 00	:				32, 069 73	1,962,994 71	122, 226 27 1, 541 14
rrissey, Fernic & Michel .		169,080 16	169,080 16		87,716 82			87,716 89 169,080 16	107,412 76	:
Querose Kartway, Lagae & Power Co. Toronto, Hamilton & Buffalo Balance Railways not dis-	214,343 75	52,500-00	52,500 00 214,343 75					52,500 00 214,343 75	:	40,527 93
ilbuted	22 600 000 00	00 680 000 01	96 606 919 75 10 500 989 90 97 108 508 (IS		1 807 69 67 87	:			3, 698, 202, 22, 13, 280, 767, 74	3, 698, 202, 22, 13, 280, 767, 74, 25, 263, 764, 18, 594, 050, 39

Table 9a.—Current Assets and Liabilities.

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Name of Railway		็อ	urrent Assets A	Current Assets Available for Payment of Current Liabilities.	yment of Curre	ent Liabilities.		
Adding of Adding by .	Cash.	Bills Receivable.	Due from Agents.	Due from Solvent Companies, etc.	Traffic Balances.	Other Cash Assets.	Total Assets.	Loans Bills Payable.
	s cts.	s cts.	s cts.	\$ cts.	& cts.	s cts.	ets.	••
Algoma Central. Algoma Bastern	406,631 17	1 000 00	8,021.56	242,820 04	17,990 89	1,406 25	676,869 91	
Atlantic, Quebce & Western. 4 Alberta and Great Waterways.	40,823 48 152 43		6,412 08	3,343 02	27,002 36	1,525,001 30	82,397 64 74,237 92 1,529,412 85	
ol Begungton & Actson 6 Brandon, Sask, & H. B. 7 British Vokon								
8 Canada & Call Terminal	705 81		198 98	2,147 83	78,08		3,130 70	
O Canadian Northern	55, 527, 23 18,871, 593, 32	288, 901, 83	2,008,428,00	7. 754, 355, 28		3,150 00	585, 117 89	56 090 760 51
11 Canadian Facific 12 Caraquet & Gulf Shore.	53, 519, 313 70 580 20		3, 164, 800 57 1, 761 16	9, 663, 762 04 926 98	1,385,245 12	29, 123, 367 98 955 60		3,679.59
row's Inest Southern entral Canada	432 03			195 365 59		22 KGT 277	000	60 710 0
15 Detroit River Tunnel	143,325 55			132, 645 74		00 #67,011		2,874 0
Eastern B.C.	1,275 86		31,852 20	29,716 33 17,562 03	366 25	108 45	68,685 33 19,312 59	1,609,412 50 420,000 00
19 Elgin & Havelock	5,480 47		6,551 92	234, 476 22	9,864 78	913, 195 50	1,169,568 89	4 606 7
20 Grand Trunk. 21 Grand Trunk Pacific.	5, 202, 772, 26			39, 168, 376 34	4, 150, 959 78	# 6 60 6 0 C	48, 522, 108 38	33, 266, 666 67
G.T.R. Branch Lines. Kettle Valley	34,538 15	136,901 62	000	0,001,200,00		3 00	8, 279, 011, 52, 171, 442, 77	13, 550, 846 13, 700, 893 5
24 Manitoba Great Northern.			+0 e0e,+	198, 955 09	97, 101-20	158 84	260,998 77	3,665 5
25 Midland of Manitoba	13,870 69		1,404 53	33,597 42		5,000 00		
Morrissey, Fernie & Michel.	101.0			49,965 80	516 52		6, 116 09 50, 567 20	2,158 66
Nelson & Fort Sheppard New Westminster Southern	126, 249 15	44,017,00	20,584 00		37,213 60	5, 178 21	230, 241 96	6,200 00
31 Pere Marquette	2,726,471 96	222, 181 98	940,476 32	917,325 10		91,435 63	- 1	656,092 80
33 Quebec, Montreal & Southern	212, 966, 99	266, 181 29	20,718 99	423,054 51	47, 184 36 78, 252 46	3,241 53	901,477 75	8,443,472,62
35 Quebec Ry., Light & Power	3, 126 87		2,035 87	8,920 10	24,029 46		38,112 30	

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Table 9a.—Current Assets and Liabilities—Continued.

		Current A	ssets Available	for Payment o	Current Assets Available for Payment of Current Liabilities.	llities.		
Name of Railway.	Cash.	Bills Receivable.	Due from Agents.	Due from Solvent Companies, etc.	Truffic Balances.	Other Cash	Total Assets.	Loans Bills Payable.
	& .t.	s ets.	& cts.	\$ cfs.	es cts.	\$ cts.	\$ cts.	\$ cts.
36 Red Mountain 37 Salisbury & Albert	12,369 49		1,360 96			7,000 00	20, 730 45	2, 120 22
39 Teniscoutans 40 Teniskaning & N Ontario	12, 190 65	1, 495 94	3,689 21	656 58 312, 135, 37	2,647 83 55, 227 28	1,118 22 7,100 00	:	
41 Thousand Islands. 42 Toronto, Hamilton & Buffalo.	16,642 36 712,855 83	1,291 55	•	459 29 202, 628 92	5,601.25		18, 537 95	2,793
45 Vancouver, victoria & Eastern	13, 154 35	1 00	10,114 00	59, 604 19			82,873 54	
and the course of the course o								

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Table 9a.—Current Assets and Liabilities—Continued.

20b—6			j j	rrent Liabiliti	Current Liabilities.—Continued.			
Name of Railway.	Audited Vouchers and Accounts.	Wages and Salaries.	Traffic Balances.	Dividends Uncalled For.	Interest Coupons Unpaid.	Rents	Miscellaneous	Total Liabilities.
ø	es cf.x.	es.	es cts.	s ets.	& cts.	\$ ets.	s ets.	es cts.
1 Algoma Central. 2 Algoma Bastem.	94,113 38 50,914 05	58,587 50	42,810 38		1,563,871 76		461,644 03	2, 221, 047
3Atlantie, Quebee & Western. 4Alberta & Great Waterways. 5Bodhiacton & Nelson	1,542,968 14	3,942 35	15,558 00		277 87		2,050,000 00	2, 183, 746 2, 183, 746 1, 546, 129
6 Brandon, Sask. & H.B.	537, 235, 88							108,961 76
7 British Yukon. S.Canada & Gulf Torminal	10 120 6	90 001	192, 212, 36				77,991 72	270,204 08
9 Canada Southern	10 106.77	2,109 50	10, 397, 38	1 940 95	00 21%	00 000 566	13,495 67	28,954 42
10 Canadian Northern.	13,786,946 12	1,996,062 19		OF OTO C.	2,275,855,87	00 000,622		74 888 633 69
11 Canadian Pacine 12 Caraquet & Gulf Shore	8,825,761 22	5, 453, 264 11	1,016,215 77	61,338 60	352, (41-31		76	
13 Crow's Nest Southern.	537,831 38	1, U.S. 0.20	00 005.2					16,251 11
14 Central Canada	163,897 71	105 30						166.877 64
19 Detroit Kiver Lunnel	6,923.80	20 200 06	0.00	90,000,00				96,923 80
17 Eastern B.C.	1,420 24	2,520 25	430 64				1 594 70	1,725,960 66
18 Edmonton, Dunvegan & B.C 19 Blein & Havedock	1,472,922 27	20,373 01						
20 Chand Trunk	3, 409, 909, 09	3 111 671 41		9 272 009 01	17,974 99		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	24,839 25
21 Grand Trunk Pacific.	2, 252, 274 27	624,745 28		2, 510, 000, 04	4,506,784.85		1,081,093,87	57,746,438 21,795,744
22 (i. 1. P., Branch Lines	135, 444 74	7,762 05	00 000 00		19,517 90		946,236 69	14,809,854
24 Manitoba Great Northern	492,722 55	40,000,00	20, 040, 02			21,966 62	5,045 00	160, 107
25 Midland of Manitoba.	604,230 25	8,456 52						612,686 77
27 Morrissev, Fernie & Michel	20,009 85	3 037 50				000 0000	1000	
28 Napierville Junction	17,438 67	2,703 84	31,670 27			11,000 00	129, 765 48	146, 191 41 107 010 99
29 Netson & Fort Sheppard 30 New Westminster Southern	946, 160 28							946, 160 28
31 Pere Marquette.	1.262.207 81	768,056,20	1 076 138 37		01 626 780 FF		7 040 691 20	81,271
32 Quebec Central.	107,001 29	52,315 64	43,694,26	40,544 22	203,508 74		224, 996 06	20, 092, 191 95 672, 060 21
34 Quebec Oriental	59,716 09 76,892 05	5, 146, 85	40, 146 26.		00 009 619		250 20	
35/Quebee Ry., Light & Power			1,284,861 48		00 070 000			1,284,861 48

TABLE 9A.—Current Assets and Liabilities—Concluded.

			r C	Jurrent Liabilities.— Continued	s.— Continued.			
Name of Railway.	Audited Vouchers and Accounts.	Wages and Salaries.	Traffic Balances.	Dividends Uncalled For.	Interest Coupons Unpaid.	Rents.	Miscellaneous	Total Liabilities.
	c(3;	es:	.e.	e& 2	<u>v</u>	æ cts.	e cls.	.ecs.
36 Red Mountain 37 Salisbury & Albert	266, 637-74	1,890 2s						266, 637 74 4, 010 50
38 St. Martins 39 Temiscounta	8,016.31	:	3,072.35	1,418 92			24,297 46	47, 120 23
Thousand Islands	1,346 85				00 031 1	00 08	12 113	4,170
42 Loronto, Hamilton & Bullato 43 Vancouver, Victoria & Bastern	646, 563 87	16,010,62 25,000,62 25,000,62					7.87.135	646, 567
45 Victoria & Sidney.	206, 256 66	:						206,256

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cts.

,050,000 00 395,052 99 204,510 92 378,078 58 9,866 36 683,960 84 2,037 508 85 Net Operating Revenue. G. 52,855 46 135,107 32 487,589 42 8,408 64 Operating Expenses. ets. Total æ , 050, 000 00 447, 908 45 339, 618 24 865, 668 00 18, 275 00 $|12,387 \ 00|2,721,469 \ 69|$ Total Revenue. ets. Table 10—Summary of Earnings and Expenses for the year ending June 30, 1917. Æ 12,387 00 Freight Revenue, £ æ Rents of Buildings and other Property. 1,236 55 4,903 1911,051.236 55 st. 1,050,000 00 60 <u>e</u> ţ Power Revenue. 4,903 333,478 50 5,888 00 339,366 50 ets. Switching Revenue, ø. Parlour and Chair Car Revenue, 51,705 00 51,705 00 ij F 813,963 00 813,963 00 Sleeping Car Revenue, £, (fe 447,908 45 447,908 45 cts. Bridge Tolls Revenue. Ģ Detroit River Tunnerl Co.
International Bridge Co.
St. Clair Tunnel Co.
The Pullman Co.
Van Buren Bridge Co. Name.

 $20b - 6\frac{1}{2}$

Table 11.—Summary of Passengers and Tons Carried, Train Mileage, and Mileage Operated, for the year ending June 30, 1917.

Mileage of Non- Revenue Trains.	Miles.	11,397 849 3,436 250	7,389 5,907		10,260	1,020,943	5.006		15,721		10,708			5,814	000	528,692	106 974	2,876	6,107	60,816	*	S 5	
Total Revenue Train Mileage.	Miles.	388, 627 166, 866 98, 325 60, 532	64,157 75,615	20, 450 3, 959, 662 8, 503, 320	362,216	46,755,564	19, 406	49,563	75,748 39,330	7,362	576,349	221,400	16, 200	260,334	31,794	19,263,014	876, 978	74,210	89,076	420,815	18,780	14,325	23,263
Special Revenue Train Mileage.	Miles.	1,492	:	16	010 01	9,706	146				258	1,908				 	85		777	2,051	:		
Mileage of Revenue Mixed Trains.	Miles.	18,928 37,411 20,566	51,758		282, 102			49,563	00 500	3,700	155,313	65,135	16,200	24,000 4,120						39,831	18,780	6,105	33,285
Mileage of Revenue Passenger Trains.	Miles.	59, 296 56, 470 26, 256 11, 665	43, 125 1, 262	2,003,748	54,973	18, 577, 524	1.11 954		33,075	500	306,039	90,100		150,783			397,017			204,162		3,900	9,980
Mileage of Revenue Freight Trains.	Miles.	308,911 110,396 34,658		1,798,962	25, 141	26, 068, 815	690 89		42,676	3,462	114,670	64,257		105, 431		10, 588, 729	1,513,550	8,172	19,960	174,771		4,320	7, 138
Passengers Carried One Mile.	No.	1,806,461 1,647,065 1,296,019	895, 106 568, 191	1010	1000	1, 438, 404, 245	234,398 2,654,837	792, 202	352,941	111,522	19,569,366	5, 184, 564	106, 260	6,095,270	571	585, 618, 284	13, 268, 821	579,038	1,467,499	5,099,76S	148,477	491,564	202, 248
Passengers Carried.	No.	27, 142 69, 735 39, 471	24, 253 9, 605	24, 713 1, 686, 530 1, 498, 678	393, 758	16, 267, 599	10,392	19,150	13,054	2,328	519,867	43,967	7,590		11,366	ci							8,848 91,001
Tons Carried One Mile.	No.	91, 477, 568 26, 953, 203 7, 184, 863 5, 268, 141	1, 321, 268 7, 234, 200	22,310 854,755 24,713 625,118 625,118 67,823,118 67,823,118 61,441,621,420 1,686,530 143,633 675 713 175 175 175 175 175 175 175 175 175 175	6,297,036	4,918,662,202	190,743	1, 693, 461	7,584,365	390,919	26, 672, 361	16,944,253	89,830	15, 812, 166	5, 650, 763	4, 214, 229, 916	102 645,559	3, 033, 272	6,830,276	24, 854, 982	792,211	1,161,785	6, 248, 921 3, 274, 901
Tons Carried.	No.	866, 402 2, 261, 317 169, 535 61, 303	30,862 30,862 81,187	32,310 9,749,315	159,041	31,334,238	6,430	41,304	198,895	8, 232	399, 106	170,706	8,983	299, 208 475, 948	163,334	21,512,160	1,725,708	122,543	128,982	300, 563	54,733	227,801	102,413
Name of Railway.		Algoma Central & Hudson Bay. Algoma Eastern. Althuir, Quebec & Western. Alloria, & Cross Waterways	on Bay		: :	Canadian Northern System Canadian Pacific.				Central Canada		Eastern British Columbia Edmonton, Dunvegan & British Columbia.	Eigin & Havelock	Essex Terminal Escurinalt & Nonaimo	Fredericton & Grand Lake Coal & Rly. Co.	Grand Trunk	- 17	Organd Tunk Facility & Drahen Lines	International of New Brunswick.	Kent Northern Kettle Valley	Lotbiniere & Megantie	Maine Central	Manitoba Great Northern

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161, 694 3, 766 152, 453 132 132 838 525, 658 7, 129	42,736 963 42,736 77,205 77,205	515 232 969	144, 580 20, 416 , 056, 706 7, 764 , 779, 772 245, 725 , 282, 773 1, 763	168 775 954	7, 171 31, 185 310, 096 71, 017 16, 500	204, 903 127, 814 1023, 397 95, 278 178, 639 178, 639 178, 639	829 660 223 223	115, 797, 100 3, 627, 901
393 912		35,515 30,904 12,474	238, 073 2, 860 75, 228	33,837 248,975		18, 440 70, 020 61, 246 95, 278 1 708	96,557 1,74 151 2,413 1	8,746,811 102,990 115
96 87,626 40 102,016 49 141,968	4,687 82 689,670		63 78,857 07 218,799 115 265,824 43 124,502			24, 47, 47,	241 258 116, 258 481 2, 197 35, 470 812 500, 014	1
2, 470, 859 4, 147, 847 566, 447 7, 829, 834 231, 049	388,072 25,077 145,704 2,175,982	18.55 2	,249,596 65,663 ,872,190 837,907 ,951,653 228,015 ,487,822 83,043	88.65.88 88.65.88	381, 216 2, 181 324, 755 13, 445, 536 130, 092 1, 175, 717 336	738 162, 999 4, 383 514, 508 181	255 83, 355 83, 364 7, 291 1, 311,	3,150,127,428 62,863,724 44,083,575
2580 248 340 340	027	8778	22 22 27	550 550 101 101		25.55 25.55	######################################	3,749,680 3,150
16, 543, 569 19, 225, 973 460, 278 86, 618, 107	2, 427, 409 $19, 222, 514$ $1, 200, 857, 918$ $1, 961, 968$	1, 201, 300 723, 402 1, 418, 030 877, 812	30, 979, 122 507, 807, 460 91, 096, 678 20, 293, 668	14, 345, 284 2, 628, 219 373, 929 2, 241, 256	766, 835 1, 151, 985 70, 479, 217 2, 077, 887	58, 407, 794 6, 410, 978 146, 125, 191 235, 464 113, 998, 539	33, 464, 921 16, 206 290, 068 650, 673, 278	21, 916, 272 31, 186, 707, 851 53, 749, 680
258,512 269,164 22,568 1,691,075	3,398,031	21,878 21,878 61,197 102,069	2, 970, 266 1, 158, 456 461, 654	168, 726 259, 564 41, 609 169, 090	226,500 48,045 1,828,822 55,851 16,005	3, 905, 872 165, 393 886, 912 3, 244	1,048,689 16,370 16,370 31,286 3,100,380 7,940	. 121, 916, 272
Massawippi Valley Midhand of Manifoba Moneton & Buctouche Monfred & Atlantic	Morrissey, Fernie & Mener Napierville Junction. National Transcontinental. Nelson & Bort Shonograf	Nerson & For merpan New Brunswick Coal & Rly. Co. New Brunswick & P. E. Island. New Westminster Southern.	Ottawa & New York. Quebec Central. Quebec Central. Quebec, Montreal & Southern.	Quebec Oriental. Quebec Rly., Light & Power Co. Red Mountain Roberval-Saguenay.	Rutland & Noyan Salisbury & Albert St. Lawrence & Adirondack St. John & Quebec. St. Martins.	Sydney & Louisburg Temisconario Temiskaming & Northern Ontario Thousand Islands Toronto Hamilton & Ruffalo	Vancouver, Victoria & Fastern Victoria Terminal Rly, & Ferry Co. Victoria & Sidney, B.C. Wabash (in Canada). York & Carleton.	Total

8 GEORGE V, A. 1918 ELECTRIC

Table 1.—Summary of Road, Mileage,

		Track Mileage.					
Name of Railway.	Length of Road First Main Track.	Length of Road Second Main Track.	Total Main Track.	Length of Sidings and Turnouts.	Total Computed as Single Track.		
Berlin & Waterloo (now Kitchener &							
Waterloo)	$3 \cdot 28$	1.40	4.68	0.38	5.0		
Berlin & NorthernBerlin, Waterloo, Wellesley & Lake Hu-	3.15		3.15		3 · 1		
Berlin, Waterloo, Wellesley & Lake Hu-	17.81	2.90	20.71	$7 \cdot 25$	27.9		
ronBrandon Municipal	10.31			7.23	10.3		
Brantford & Hamilton	$23 \cdot 00$		23.00		$23 \cdot 0$		
Brantford Municipal	$29 \cdot 96$				$31 \cdot 9$		
British Columbia	$245 \cdot 59$				367.4		
Calais Street	7·00 55·50		7·00 71·00		$7 \cdot 0$ $72 \cdot 0$		
Canadian Resources Development	1.75		1.75		1.9		
ape Breton.	30.59		30.59	1.26	31.8		
Chatham, Wallaceburg & Lake Erie	36.94		36.94		40 ⋅ €		
CornwallEdmonton Radial	$\frac{4.00}{52.37}$		$ \begin{array}{r} 4.00 \\ 52.37 \end{array} $		6 · 3 53 · 9		
Edmonton Radial.,,	19.88				30.3		
Fort William Guelph Radial Halifax Tramways	8.50		8.50		S-8		
Halifax Tramways	$12 \cdot 29 \\ 7 \cdot 00$	9 · 29			21.6		
damilton & Dundas	7.00		7.00		7.(
Hamilton, Grimsby & Beamsville	$\frac{22 \cdot 00}{33 \cdot 70}$		22.00		22·0 33·1		
Hamilton Radial	25.00	8.69	33.69		33.0		
Hamilton Street Hamilton Radial Hull	15.67	12.15	27.82	3.49	31 -		
International Transit	4.30		4.30	0.22	4		
Kingston, Portsmouth & Cataraqui	8·00 11 00		8·00 11 00		8.0		
Lethbridge Municipal	11 75		11 75		11		
London Street	$36 \cdot 02$		$36 \cdot 02$		36.0		
London & Lake Erie	29.75		29.75	1.50			
London & Lake Erie London & Port Stanley Lake Erie & Northern Moneton Tramways Montreal Tramways Montreal & Southern Counties	23.60		23.60	19.00			
Lake Erie & Northern	51·00 4 47		51·00 4 47				
Montreal Tramways	124.26				233		
Montreal & Southern Counties	$52 \cdot 20$		52 · 20				
Moose Jaw	9.00		10.50				
Nelson Viagara Falls Park & River	2·13 11·91						
Niagara, St. Catharines & Toronto	61.58		61.58				
Nelson Niagara Falls, Park & River Niagara, St. Catharines & Toronto Niagara, Welland & Lake Erie Ninissing Central	1.87		1.87				
	10 01		15.37				
Oshawa Ottawa Peterborough Radial.	9 00 28·11				13 52		
Peterborough Radial	6 55		6 55				
Port Arthur	12.43						
Pictou County (did not report) Quebec Ry.,Light & Power Co. (Citadel)	21.04		21.04		21.		
Quebec Ry., Light & Power Co. (Montgomery)	28.60	9.80	38.40	3.00	41.		
Regina Municipal	32.12		32.12				
Sandwich, Windsor & Amherstburg	41.34		41.34		41.		
Sarnia	8.25		8 25				
Sherbrooke Sudbury, Copper Cliff Suburban Shawinigan Falls	9 00		9 00 6 · 24				
Shawinigan Falls	0·24 2.75		3.75		3.		
St. Thomas	7.00		7.00		7 -		
St. Thomas Suburban Rapid Transit	21.02		$21 \cdot 02$		21.		
Saskatoon MunicipalSchomberg & Aurora Railway	12.63						
Schomberg & Aurora Railway Toronto	14·40 60·69		14·40 119·05		14· 127·		

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RAILWAYS.

Passengers and Freight carried for the year ending June 30, 1917.

	(Car Mileage.		Pa	ıssenger Traff	ic.	Frt. Traf.
Length of Track Leased.	Passenger Car Mileage.	Freight, Mail and Express Car Mileage.	Total Car Mileage.	Fare Passengers Carried.	Transfer Passengers Carried.	Total.	Number of Tons of Freight Carried.
•••••	199,303 34,600		199, 303 34, 600	1,229,753 $185,055$		1,253,335 185,055	
	$239,591 \\ 305,878$		276,779 305,878	1,218,383 839,375	48,876	1,218,383 888,251	168,617
	328,013	37,766	365,779	624,560		624,560	
145.25	402,990 $11,313,210$		$\begin{array}{c} 402,990 \\ 12,458,725 \end{array}$	1,625,146 $43,234,384$		1,625,146 49,780,631	180 327,559
	183,960		183, 960	758,065	17,092	775, 157	
	2,573,993 $6,388$	13,240	2,587,233 6,388	13,909,238 4,097	3,528,472	$17,437,710 \\ 4,097$	7,707
19.03	676,894	19,187	696,081	4.643.990	79,037	4.723.027	
	250,000 $203,867$	19,406	468,705 $223,273$	$348,774 \\ 438,996$		348,774 438,996	106,390 93,318
	1,881,839 $629,688$	24,083	1,905,922 629,688	10,148,382 $2,672,114$	1,302,478 438,433	11,450,860	260
	228,000	4,700	232,700	1,097,503	186,861	3,110,547 1,284,364	14,000
	1,380,474 157,464		1,380,474 157,464	8,935,380 935,628	732,959	9,668,339 935,628	361
	368,729	27,771	396,500	660,420		660,420	40,113
	2,783,918 489,658		$2,783,918 \ 503,467$	16,542,136 1,322,615		20,912,365 1,322,615	29,026
1.82	790,695	26,321	817,016	3,102,929	111,000	3,213,929	8,583
	283, 129 199, 680		283, 129 199, 680	2,121,868 1,055,982	149,098	2,121,868 1,205,080	
	268,659		268,659	991,678	42,469	1,034,147	
	424,439 1,932,316		435,437 $1,932,316$	2,061,998 11,234,977	338, 172 1, 750, 125	2,400,170 12,985,102	2,260
	440, 315	403,747	844,062	333,669 726,799		333,669 726,799	6,500
	296, 130	646,483	942,613	373,299		373,299	471,114 55,512
• • • • • • • • • • • • • • • • • • • •	100,838		100,838	414,781 $179,974,549$		414,781 $243,425,821$	
27.83	657, 263		767,918	2,057,574	124, 125	2,181,699	
	445,814 $61,594$		$445,814 \\ 61,594$	2,347,484 $323,148$		$\begin{array}{c} 2,347,484 \\ 323,148 \end{array}$	
	262,221		262,221	1,335,579		1,335,579	
	1,319,671 $87,834$		$1,461,776 \\ 87,834$	5,643,150 $693,843$		5,732,569 693,843	405,051
13 · 26	251,516		251,516	1,297,298		1,297,298	5,982
	56,210 $4,913,611$	33,928	90,138 $4,913,611$	286,486 $28,286,233$	9, 428, 744	286,486 $37,714,977$	213,888
	437,896		437,896	1,550,610	413,543	1,964,153	
	650,885 $2,277,121$		650,885 $2,277,121$	2,624,461 $13,165,318$	328,930 $2,997,308$	2,953,391 $16,162,626$	
	473,406 931,340		473,406 $943,162$	1,947,667 4,914,140	635,656	1,947,667 5,549,796	
		, i					20,018
9 · 45	1,163,765 $204,244$	4,952	1,163,765 $209,196$	6,988,361 $1,270,288$	1,098,026 104,340	8,086,387 $1,374,628$	207,801
	390,681		390,681	1,237,760	197, 563	1,435,323	
	54,626		54,626	251,053		251,053	22,398
	578,130		*#O 400	436,332		436,332	
* * * * * * * * * * * * * * * * * * * *	578.130	l 	578, 130	1,189,190		1,256,968	640
	757,734		757,734	3,624,268	644,758	4,269,026	
			$757,734 \\ 52,296 \\ 20,585,398$	3,624,268 36,931 152,782,659	644,758 60,821,816	4,269,026 36,931 213,604,475	9,706

8 GEORGE V, A. 1918
Table 1.—Summary of Road, Mileage,

		Tr	ack Mileage.		
Name of Railway.	Length of Road First Main Track.		Total Main Track.	Length of Sidings and Turnouts.	Total Computed as Single Track.
Toronto Suburban Toronto & York Radial Three Rivers Traction Company Toronto Civic Railway Winnipeg Windsor, Essex & Lake Shore Winnipeg, Selkirk & Lake Winnipeg Yarmouth	72·17 7·10 9·75 110·20 36·17 40·69	9.75	110·20 27·30 40·69	1.04	82·00 7·60 20·54 110·20
Total	1,743.54	345.72	2,089.26	188.70	2,277.90

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Passengers and Freight carried for the year ending June 30, 1917—Concluded.

	(Car Mileage.		:	Passenger Tr	affic.	Frt. Traf.
Length of Track Leased.	Passenger Car Mileage.	Freight, Mail and Express Car Mileage.	Total Car Mileage.	Fare Passengers Carried.	Transfer Passengers Carried.	Total.	Number of Tons of Freight Carried.
			$1,696,145\\328,199\\1,334,650\\10,362,151\\401,716$	6,688,327 1,150,050 14,696,841 53,679,757 701,066	239, 406 18, 887, 866	$\begin{array}{c} 6,688,327 \\ 1,389,456 \\ 14,696,841 \\ 72,567,623 \\ 705,842 \end{array}$	
	420,663		420, 663 86, 870	697,594		697, 594	

8 GEORGE V, A. 1918

Table 2.—Summary of Capital at the close of the year ending \rightarrow June 30, 1917.

Number	Name of Railway.	Stocks.	Bonds.	Total Capital.
		\$	\$	\$
1	Berlin & Waterloo	17,800	146,963 $2,400$	146,963 20,200
$\frac{2}{3}$	Berlin & Northern	125,000	426,000	551,000
4 5	Brandon Municipal	300,000	$450,000 \\ 660,000$	450,000 $960,000$
о 6	Brantford Municipal		270,000	270,000
7	British Columbia	9,173,000	7,068,138 $2,365,173$	16,241,138 $2,365,173$
$\frac{8}{9}$	Canadian Resources Development	486,000		486,000
0	Cape Breton (a)	1,359,000 $760,600$	$1,096,000 \\ 694,500$	2,455,000 $1,445,100$
$\frac{1}{2}$	Cornwall	200,000	034,300	200,000
3	Edmonton Interurban	600,000	3,067,947	600,000 $3,067,947$
4 5	Fort William Terminal Railway & Bridge Co	125,000	5,001,941	125,000
6	Fort William	1 100 000	1,112,000	1,112,000
7 8	Grand Valley	$1,100 000 \\ 193,000$	688,800	1,788,800 $193,000$
9	Halifax Tramway (a)	1,400,000	100,000	1,400,0 0 0 200,000
0	Hamilton and Dundas	100,000 $235,000$	150,000	385,000
2	Hamilton Radial	111,150	160,000	271,150
3 4	Hamilton Street	1,205,000 $292,000$	420,000	1,625,000 $292,000$
5	International Transit Co	150,000	180,000	330,000
6 7	Kingston, Portsmouth & Cataraqui	83,100 1,500,000	99,250 $1,600,000$	182,350 $3,100,000$
8	Lethbridge Municipal	400,000	463,439	463,439
9 0	Levis County	422,900 $572,680$	151,100 $605,000$	574,000 $1,177,680$
1	London & Lake Erie	2,000,000	840,000	2,840,000
2 3	London & Port Stanley	1, 125, 400	900,000 $304,000$	900,000 $1,429,400$
4	Montreal Tramways	3,394,300	35,608,153	39,002,453
5 6	Montreal & Southern Counties	1,000,000 760,372	35,000	1,000,000 $795,372$
7	Nelson		81,000	81,000
$\frac{8}{9}$	Niagara Falls, Park & River	925,000	600,000 $1,098,000$	600,000 $2,023,000$
0	Niagara, Welland & Lake Erie	250,000	52,000	302,000
1 2	Nipissing Central Oshawa	530,000 $40,000$	18,452	530,000 $58,452$
3	Ottawa	1,876,900	425,000	2,301,900
4 5	Peterborough Radial	$100,000 \\ 300,000$	300,000	100,000
6	Port Arthur		863, 200	863,200
7 8	Quebec Ry., Light & Power Co. (a)	3,250,000	2,503,434 $1,675,000$	5,753,434 $1,675,000$
9	Sandwich, Windsor & Amherstburg	297,000	600,000	897,000
$\frac{0}{1}$	Sarnia Saskatoon	90,000	$90,000 \\ 725,000$	$180,000 \\ 725,000$
2	Shawinigan Falls Terminal	300,000	150,000	450,000
3 4	Sherbrooke (a)	1,127,000 800,000	1,126,700 $1,000,000$	2,253,700 $1,800,000$
$\frac{1}{5}$	St. Stephen.	100,000	100,000	200,000
6 7	St. Thomas	85,028 100,000	500,000	85,028 $600,000$
8	Sudbury & Copper Cliff	162,600	75,000	237,600
9 0	Sydney & Glace Bay	500,000 $250,000$	389,000 300,000	889,000 $550,000$
1	Three Rivers Traction	250,700	415,000	665,700
2	Toronto	12,000,000 $1,500,000$	4,684,633 2,628,000	16,684,633 4,128,000
4	Toronto & York Radial	2,000,000	1,640,000	3,640,000
5 6	Toronto Civie Windsor, Essex & Lake Shore	750,000	2,082,737 $750,000$	2,082,737 $1,500,000$
6	Winnipeg (a).	13,380,000	5,000,000	18,380,000

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Table 2.—Summary of Capital at the close of the year ending June 30, 1917—Concluded.

Number.	Name of Railway.	Stocks.	Bonds.	Total Capital.
68 69 70	Winnipeg, Selkirk & Lake Winnipeg. Windsor & Tecumseh. Yarmouth. Final Totals.	\$ 500,000 100,000 250,990 70,606,520	\$ 653,200 189,000 250,000 90,628,219	\$ 1,153,200 289,000 500,990 161,234,739

8 GEORGE V, A. 1918
Table 3.—Summary of Gross Earnings from

			Car Earnings.					
No.	Name of Railway.	Passenger.	Freight.	Mail and Express.	Other Car Earnings.	Total Car Earnings.		
1	Berlin and Waterloo	\$ cts. 49,236-37		\$ ets.	\$ ets. 241 87	8 ets. 51,227 74		
2	Berlin and Northern Berlin, Waterloo, Wellesley & Lake	7,402 20		197 25	44 75	7,644 20		
	Huron	95.898 36	116,552 98	13,830 31	217 43	226,499 08		
5	Brandon Municipal Brantford and Hamilton	36,676 60 $141,458 91$		691 20	200 00 757 15	36,876 60 $164,515 11$		
	Brantford Municipal. British Columbia	97,306 12 2,234,657 07	2,592 76 466,076 07	691 20		99,898 88 2,700,733 1-		
8	Calais Street	37,678 80				37,678 S		
9	Calgary Canadían Resources Development	563,621 05 204 85			3,428 00	576,416 00 204 83		
11	Cape Breton	232,186-56		9,235 65	940 20	242,3624		
	Chatham, Wallaceburg & Lake Erie Cornwall	$\begin{array}{c} 66,798 & 95 \\ 19,445 & 20 \end{array}$		2,682 42 832 41	543 15	127, 193 09 32, 051 23		
14	Edmonton Radial	483,145 35	486 12		5,520 50	489, 151 9		
15 16	Fort William	$115,873 66 \\ 42,865 71$	3,229 59	350 00	574 50	$\begin{array}{r} 116,798 & 10 \\ 46,095 & 30 \end{array}$		
17	Halifax Tramways Hamilton and Dundas	388, 494 05				388,494 0		
18 19	Hamilton and Dundas Hamilton, Grimsby and Beamsville	68,821 02 87,142 86			978 35 894 70	70.9784 $124,7922$		
20	Hamilton Street	735,906 20			1,322 34	737 228 5		
21 22	Hamilton Radial	148,157 56 165,721 13			478 10	161,314 23 196,220 20		
23	Hull International Transit Co	86,879 45	5 00			86,884 4		
24 25	Kingston, Portsmouth & Cararaqui Lethbridge Municipal	48,766 36 46,502 29			86 80,	48,766 3 $46,589 0$		
	Lewis County London Street	90.441 60	3,615 08			94,409 6		
27 28	London Street London and Lake Erie	411,007 49 36,703 51		1,503 26 9,648 76		412,831 3 59,982 20		
29	London and Port Stanley	147,470 44	147,826 72	4,340 84	1,501 67	301,139 6		
30 31	Lake Erie and Northern Moncton Tramways	$\begin{array}{r} 108.784 & 56 \\ 16,683 & 36 \end{array}$			93 93	168,128 88 16,683 30		
32	Montreal Tramways	7,374.295 79			351,203 09	7,725,498 8		
33 34	Montreal and Southern Counties Moosejaw	230, 232 26 102, 059 80	11,758 62	6,388 04	10,412 75	258,791 6 102,059 8		
35	Nelson Niagara Falls, Park and River	13,778 10				13,778 1		
36 37	Niagara Falls, Park and River Niagara, St. Catharines and Toronto	132.753 92 445,947 57	243 030 07	720 64 14,400 82		135, 203 89 753, 080 6		
38	Niagara, Welland & Lake Erie	31,771 27	2 96			31,774 2		
39 40	Nipissing CentralOshawa	83,986 74 14,324 31		10,618 46	$\begin{array}{c} 1.210 \ 98 \\ 856 \ 89 \end{array}$	97,161 1 138,928 9		
41	Ottawa	1,185,247 19				1,189,615 3		
42 43	Peterborough Radial Port Arthur.	67,715 80 112,532 49			242 42	67,715 8 112,774 9		
44	Picton County			1				
45 46	QuebecRy.,Lt.&PowerCo.(Citadel) (Montmorency)	549,356 90 204 586 05	Dr. 166 50	198 12 6 107 46	9,212 37	558,600 8 222,020 3		
47	Regina Municipal	207,563 34	7,157,46		3 780 75	218,501.5		
48 49	Sandwich, Windsor & Amherstburg Sarnia	339,252 97 55,621 21	7,348.15 $6.234.03$	735 00 5 026 51	1	347,931 3 66,881 7		
50	Sherbrooke	54,292 55	44,797 00		55 00	54,347 5		
51 52	Sudbury, Copper Cliff Suburban. Shawinigan Falls.	25, 980-95	44 797 00			25.980 9 44,797 0		
53	St. Thomas	10,010 04				16,616 6		
$\frac{54}{55}$	Suburban Rapid Transit	50,180 22 182,075 98	3,615 60	1,315 00	70 00 836 40	55,180 8 182,912 3		
56	Schomberg & Aurora Railway	9,844 53	7,242 95			17,087 4		
57 58	Toronto	5,989,881 95 168,895 15		1,994 02		5,989,881 9 171,965 6		
59	Toronto and York Radial	503,054 12	70,466 70	5,510 41		579,031 2		
60 61	Three Rivers Traction Co Toronto Civic Railway	58,129 25 248,389 92		233 56	127 00	58,495 76 $248,389$ 93		
62	Winnipeg	2,084,516 73		5,235 45	427 92	2,090,180 1		
63 64	Windsor, Essex and Lake Shore Winnipeg, Selkirk & Lake Winnipeg	144.319 54 112.038 77			550 51 175 25	179,925 58 130,320 33		
65	Yarmouth	10,399 71		400 00	284 15	11,083 8		

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Operation for the year ending June 30, 1917.

		Misce	llaneous Earr	nings.			Total	
Advertising	Rent of Land and Buildings.	Rent of Tracks.	Rent of Equipment	Sale of Power.	Other Earnings.	Total Miscel- laneous.	Gross Earnings.	N
\$ cts. 800 00 150 00	\$ cts.	\$ cts. 1,486 68		\$ cts. 1,873 49	\$ ets. 250 76	\$ ets. 4,445 88 318 50	S ets. 55,673 62 7,962 70	
	498 76		. , ,	336 94	10 19	1,445 89	227,944 97	
$\begin{array}{c} 446.75 \\ \dots \\ 1,620.00 \end{array}$	5,960 19		379 24			$\begin{array}{r} 446 \ 75 \\ 6,339 \ 43 \\ 2,200 \ 00 \end{array}$	37,323 35 170,854 54 102,098 88	
						4,732 80	2,700,733 14 42,411 60	
						9,050 16	585,466 16 204 85	
999 98 385 45 464 00	25 00 324 92		700 00	4 00 92 00	$\begin{array}{c} 5 & 00 \\ 5,666 & 90 \\ 1,835 & 84 \\ 2,718 & 16 \end{array}$	1,029 98 7,081 27 2,391 84	243,392 39 134,274 36 34,443 07	5
$\begin{array}{c} 404 & 00 \\ 4,479 & 41 \\ 600 & 00 \end{array}$	720 00	47 97			[2,718,16]	7,965 54 654 55	497,117 51 117,452 71	
$\begin{array}{c} 425 & 75 \\ 2,922 & 33 \end{array}$	250 22				6,710 66	$\begin{array}{c} 778 \ 08 \\ 10,611 \ 54 \end{array}$	46,873 38 399,105 59)
$\begin{array}{c} 100 \ 00 \\ 350 \ 00 \\ 725 \ 00 \end{array}$	2.7725 $2,50200$ $1,90329$	2,795 68	506 74 5,591 47 1,492 22 8,232 23			3,649 67 $8,443 47$ $4,120 51$	74,628 08 133,235 70 741,349 05)
$\begin{array}{r} 300 \ 00 \\ 1,075 \ 00 \end{array}$	896 50	900 00	194 09			9,42873 $1,56505$	$ \begin{array}{r} 170,742 \ 96 \\ 197,785 \ 25 \end{array} $	5
$\begin{array}{c} 1,467 & 13 \\ 400 & 00 \\ 200 & 70 \end{array}$					$52,274 26 \\ 220 00$	53,741 39 3,663 61	$\begin{array}{c} 140,625 \ 84 \\ 52,429 \ 97 \\ \end{array}$	7
698 70 660 00 3,033 60						$egin{array}{ccc} 1,951 & 19 \ 660 & 00 \ 3,532 & 12 \end{array}$	48,540 28 $95,069 68$ $416,366 43$	3
500 00			679 50		$\begin{array}{c} 34 & 71 \\ 6,216 & 59 \end{array}$	534 71 $15,545 54$	60,51691 $316,68521$	
200 00						$\substack{1,082\ 200\ 00}$	169,211 13 16,883 36 7,725,498 88	5
$\substack{1,436\ 77\\846\ 45}$	467 26		1,400 00	1,884 00	$\begin{array}{c} 252 & 11 \\ 2,076 & 68 \end{array}$	5,440 14 2,923 13	264,231 81 104,982 93	l
64 50 $1,129 16$	278 37		2 49	781 51	$\begin{bmatrix} 249 & 57 \\ 8 & 80 \end{bmatrix}$	$\begin{array}{c} 314 & 07 \\ 2,200 & 33 \\ 3,500 & 37 \end{array}$	14,092 17 $173,404$ 22	2
$\begin{array}{c} 225 & 28 \\ 237 & 15 \\ 625 & 00 \end{array}$	823 48	229 00			2,460 61 874 25	3,509 37 $237 15$ $1,728 25$	756,590 03 32,011 38 98,889 40	3
$\begin{array}{c} 240 & 00 \\ 3,175 & 00 \end{array}$	1.25644	<i></i>	l		5,411 00	6,907 44 $5,115$ 81	145,836 40 1,194,731 12	2
$\frac{476}{711} \frac{67}{00}$			178 71	300 00	33 05 645 29	509 72 1,835 00	68,225 52 114,609 91	2
2,242 48					110 45 5,399 05	2,352 93 7,089 60	560,953 82 229,109 94	
3,767 23 $1,040 00$				32,581 51	1,095 31 2,263 32	4,862 54 35,884 83	223,364 09 383,816 17	7
557 00					3,071 53 429 33	3,471 53 986 33	70,353 28 55,333 88 25,980 98	3
328 25			 			$\begin{array}{cc} 503 & 21 \\ 765 & 22 \end{array}$	$\frac{45,300}{17,381} \frac{21}{86}$	3
1,540 00	1		62 50			9,126 18 2,348 73	$\begin{array}{r} 64,307 & 00 \\ 185,261 & 11 \\ 17,087 & 48 \end{array}$	ιļ
25,000 00 507 25			2,187 54 1,345 00	32,509 53	62,756 94 990 12	$\begin{array}{c} 91,722 & 89 \\ 35,351 & 90 \end{array}$	6,081,604 84 207,317 50	1
$\substack{1,300 \ 00 \\ 465 \ 50}$	1,016 00				27,620 50 1,314 38	29,936 50 1,779 88	608,967,73 $60,275,64$	1
$\begin{array}{c} 1,116 \ 00 \\ 9,502 \ 50 \\ 560 \ 00 \end{array}$		500 04	1,800 00		1,361 41 223 54	$\begin{array}{c} 1,116 \ 00 \\ 13,163 \ 95 \\ 883 \ 54 \end{array}$	249,50592 $2,103,34405$ $180,80912$	5
600 00		1,000 00		5,645 71	24,432 61	1,600 00 $30,078 32$	131,920 33 41,162 18	3
89,972 70	30,942,29	22,100 97	24,776 64	80,265 22	223,300 12	471,357 94	30,237,663 54	1

8 GEORGE V, A. 1918
Table 4.—Summary of Operating Expenses

		Main	enance—Wa	y and Struct	ures.
No.	Name of Railway.	Track and Roadway.	Electric Line.	Buildings and Fixtures.	Total Way and Structures.
2 3 4 5 6 7 8 9	Berlin and Waterloo Berlin and Northern. Berlin, Waterloo, Wellesley and Lake Huron. Brandon Municipal. Brantford and Hamilton. Brantford Municipal. British Columbia. Calais Street.	\$ cts. 3,539 44 324 41 12,929 79- 226 92 20,191 32 3,361 72 130,248 47 4,556 34 6,702 26	\$ ets. 369 85 2,157 84 155 69 2,464 84 1,359 56 44,289 35 1,128 88 3,014 98	\$ ets. 10 75 12 38 2,484 76 3 26 192 62 120 42 2,041 90 56 41 639 37	8 cts. 3,920 04 336 7572 39 17,572 39 22,848 78 4,841 70 176,579 72 5,741 63 10,356 61
10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 29 30	Canadian Resources Development. Cape Breton. Chatham, Wallaceburg and Lake Erie. Cornwall. Edmonton Radial. Fort William. Guelph Radial. Halifax Tramways. Hamilton and Dundas Hamilton, Grimsby and Beamsville. Hamilton Radial. Hull. International Transit Co Kingston, Portsmouth and Cataraqui. Lethbridge Municipal. Levis County. London Street. London and Port Stanley. Lake Erie and Northern	14,654 83 11,824 39 3,440 30 11,008 04 4,004 85 3,218 12 19,957 73 9,133 12 14,243 05 12,678 49 14,583 26 10,803 70 740 12 2,945 70 3,954 86 5,764 84 30,285 53 7,980 43 14,400 86 33,889 98	3, 848 99 524 79 213 25 1,841 74 1,160 94 539 58 2,706 09 1,270 98 3,694 91 7,617 98 2,267 40 3,286 28 76 60 181 75 516 56 687 60 6,337 63 685 94 29,500 58 7,401 36	1,089 08 2,022 25 1,001 74 1,503 94 993 45 77 71 875 48 409 58 418 22 474 13 30 45 172 35 725 52 399 97 589 31 423 46 60 78 282 51	20,706 05 17,268 88 14,564 13 846 63 3,299 80 5,196 94 6,852 41 37,512 47 9,089 83 43,962 22
31 32 33 34 35 36 37 38 39 40 41 42 43	Moneton Tramways. Montreal Tramways. Montreal and Southern Counties Moosejaw Nelson Niagara Falls, Park and River Niagara, St. Catharines and Toronto Niagara, Welland and Lake Erie Nipissing Central Oshawa Ottawa Ottawa Peterborough Radial Port Arthur	553 39 26,478 27 4,728 29 1,203 22 23,202 10 49,016 44 208 65 9,722 64 9,137 51 27,585 23 1,749 46 10,227 52	283 61 3,990 50 308 91 566 36 3,471 58 8,565 15 1,087 00 488 59 27,015 90 247 12 1,921 23	269 98 43 00 1,009 03 12,363 99 1 000 1,158 79 995 68 1,196 51 98 88	31, 595 566 5, 307 18 1, 812 58 27, 682 71 69, 945 58 209 65 11, 968 43 10, 621 78 55, 797 64 2, 095 46
44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 60 61 62 63 64 66	Pretou County. Quebec Ry., Light and Power Co. (Citadel) (Montmorency) Regina Municipal Sandwich, Windsor and Amherstburg. Sarnia. Sherbrooke. Sudbury, Copper Cliff Suburban Shawinigan Falls. St. Thomas Suburban Rapid Transit Saskatoon Schomberg and Aurora Railway. Toronto Toronto Suburban. Toronto Suburban. Toronto and York Radial. Three Rivers Traction Co. Toronto Civic Railway. Winnipeg. Windsor, Essex and Lake Shore. Winnipeg. Selkirk and Lake Winnipeg.	19, 321 93 15, 416 03 3, 987 67 23, 116 10 5, 515 08 3, 448 71 796 69 4, 895 91 246 59 5, 736 15 6, 267 93 5, 691 57 75, 189 77 70, 721 01 36, 531 77 1,078 71 2,840 56 49, 819 86 11, 542 72 111, 750 62	7, 856 38 3, 670 97 3, 081 73 6,092 72 283 55 1,297 37 17 93 1,770 76 1,344 22 531 91 9,203 28 718 66 804 45 12,206 42 3,292 84 384 43 27 79	905 17 2,682 64 161 19 259 07 361 51 5,242 27 119 31 2,283 45 67 39 1,240 59 247 03 11,369 24 181 84 3,890 87 11 25 851 06 2,730 23 665 12 283 94	28, 083 48 21, 769 64 7, 230 56 29, 467 82 6, 160 14 5, 270 35 8, 950 12 246 56 7, 147 76 8, 040 43 5, 998 66 129, 023 28 13, 689 46 49, 625 95 1, 496 60 4, 496 60 12, 418 96 12, 418 96
60	Total		275,443 73	_ 	1,209,900 6

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C.	Til .	1	Electric	Miscel-	Miscel-	rc :
Steam Plant.	Electric Plant.	Cars.	Equipment of Cars.	laneous	laneous Shop Expenses	Total Equipment.
\$ cts.	\$ ets 727 4		\$ ets. 3,677 11	\$ cts. 564 94	319 76	\$ cts. 8,718 62
141 48	960 60	745 30 491 65	$\begin{array}{c} 5,007 & 44 \\ 267 & 06 \end{array}$	871 40 127 67		88 96 7,726 22 887 90
	1,223 0	1,519 42	6,009 22	4,862 64		16,619 83 1,519 42
	16,367 27 328 19		$\begin{array}{r} 44,827 \ 39 \\ 501 \ 12 \\ 12,772 \ 06 \end{array}$	903 22	8,527 79 53 26 2,225 98	173,052 88 2,238 04 48,153 94
	2,883 16	62 92 8,368 88	5,440 92	1,006 13	927 70	$\begin{array}{r} 62 & 92 \\ 18,626 & 79 \end{array}$
		2,098 81	1,938 98 1,365 39 12,044 87	1,564 41 1,082 14		$\begin{array}{r} 6,128 \ 08 \\ 3,464 \ 20 \\ 43,217 \ 31 \end{array}$
	123 7		5,543 46 2,585 90	300 47 285 29	1,938 74	14,537 23 $5,126$ 26
		919 86	9,579 17 356 86	3,171 88 7,647 53	1,843 51	29,807 46 8,924 25
	1,206 98	$\begin{array}{c} 11,226 \ 47 \\ \hline 7,820 \ 00 \end{array}$	5,795 03 $36,846 19$ $3,250 44$	27,924 90	3,801 58	22,030 06 64,771 09 11,070 44
	443 50	2,520 55	24,69859 2,31901	608 21		24,698 59 5,891 27
	168,70 85 19	4,054 69	1,535 44 7,412 18	18 77 150 21 2,550 80	125 45	3,712 81 $5,865$ 79 $23,607$ 11
	2,725 48	$\begin{array}{c} 31,206 & 05 \\ 9,219 & 97 \end{array}$	13,016 03	2,869 77		47,091 85 11,945 45
	940 50	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	6,263 62 3,364 35 735 98	106 56 860 35 26 18	21 00	$\begin{array}{c} 26,259 & 86 \\ 6,016 & 45 \\ 4,130 & 89 \end{array}$
	124 3		6,793 84 30 42	1.633 38 44 17	05 50	18,910 10
	519 45 164 7 58 40	1,045 09	454 48	29 63		4,029 26 $1,209 80$ $2,486 59$
	628 46 47 55	31,055 03 1,233 81	50,078 30 162 76	215 78 18 15		84,566 25 1,462 24
6,830 04	236 93	1,785 07	3,581 69 $2,416 12$ $22,864 62$	206 06 915 66 3,289 33	5 00	10,092 29 5,121 85 70,915 69
0,330 04	104 80 28 69	3,037 69	1,691 05 2,809 14	25 30 6 55		4,858 84 10,318 43
77 47	86 00	18,540 51 7,531 89	12,489 41 14,218 98	$\substack{1,709 \ 07 \\ 77 \ 46}$	29 77 635 89	32,768 76 22,627 69
	963 23	8,975 78	4,227 32 11,302 50	88 15	3,314 64	$\begin{array}{c} 16,517 & 74 \\ 24,672 & 37 \end{array}$
	767 6-	671 15 287 44	2,970 32 $1,879 00$ $41 65$	157 46	185 31	$ \begin{array}{r} 3,155 & 63 \\ 3,475 & 25 \\ 496 & 79 \end{array} $
		1,711 72	1 80	350 05		$\begin{array}{r} 350 & 05 \\ 1,920 & 84 \end{array}$
	474 09 994 20 200 19	8,177 05	2,043 32	4,798 34 79 63		$16,012 \ 91 \\ 300 \ 94$
16,833 52	16,341 43	3 156,882 90 2,896 35	$129,014 56 \\ 1,732 91$	$37,577 67 \\ 26 65$	31,188 28 444 42	387,838 36 5,100 33
141 43	2,897 8	26,956 11 4,900 34	26,065 58 735 35	15,547 76 405 55	103 08 207 42 464 44	71,711 80 $6,248 66$ $16,500 73$
1,714 43	943 31	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	3,079 18 46,477 16 6,367 24	$\begin{array}{r} 11 & 53 \\ 1,141 & 67 \\ 474 & 82 \end{array}$	8,622 14	147,059 80 18,174 69
154 46	474 76 58 51	5, 186 21	4,158 51 550 46	130 49	7 87	9,827 35 1,412 93
25,892 83	56,385 18	781,736 48	575,391 48	126,589 29	80,615 76	1,646,611 02

8 GEORGE V, A. 1918
Table 4.—Summary of Operating Expenses

_			Transportation—Operation						
No.	Name of Railway.	Wages.	Fuel for Power.	Water for Power.	Lubricants and Waste.				
		\$ ets.	\$ ets.	\$ ets.	\$ ets.				
1	Berlin and Waterloo								
3	Berlin and Northern. Berlin, Waterloo, Wellesley and Lake Huron Brandon Municipal	2,166 43	$1,545\ 00$		362 50				
$\frac{4}{5}$	Brandon Municipal	4.154.12							
6	Brantford Municipal								
7 8	Brantford Municipal British Columbia	1,670 or 1,576 43	1.257 96	7,829 15					
9	Calgary Canadian Resources Development								
10 11	Canadian Resources Development								
12 13	Cape Breton. Chatham, Wallaceburg and Lake Erie. Cornwall. Edmonton Radial.	8 40 1,500 00	905.07	120.00					
14	Edmonton Radial	1 405 04							
15 16	Edmonton Radial. Fort William Guelph Radial. Halifax Tramways. Hamilton and Dundas Hamilton, Grimsby and Beamsville.	1,465 24			37 64				
17	Halifax Tramways	6,171 40	20,297 60	896 40	516 00				
18 19	Hamilton and Dundas Hamilton, Grimsby and Beamsville	4,171 50							
~ U									
21 22	Hamilton Radial								
23	International Transit Co								
$\frac{24}{25}$	Kingston, Portsmouth and Cataraqui Lethbridge Municipal								
26	Levis County. London Street.	901 00			37 14				
27 28	London and Lake Erie								
29	London and Port Stanley								
30 31	Lake Erie and Northern								
32	Montreal Transways Montreal and Southern Counties Moose Jaw Nelson	7 127 09							
33 34	Moose Jaw	5,062 78	9,607 89	159 51	1,024 06				
35	Nelson	485 25			99.26				
36 37	Niagara Falls, Park and River Niagara, St. Catharines and Toronto	10,190 92			22 30				
38	Niagara, Welland and Lake Erie	9 201 20							
39 40	Nipissing Central. Oshawa	1,824 19							
41	Oshawa. Ottawa. Peterborough Radial.	34,097 34	144 84	3,141 84	95 82				
42 43									
44	Pictou County								
$\frac{45}{46}$	" " (Montmorency),	1,321 27							
47	Port Arthur Pictou County Quebec Ry., Lt. and Power Co. (Citadel) (Montmoreney). Regina Municipal. Sandwich, Windsor and Amherstburg. Sarnia.	6 690 1.1	2 620 20		619 27				
48 49	Sarnia		3,009 29		012 01				
50									
$\frac{51}{52}$	Sudbury, Copper Cliff Suburban. Shawinigan Falls.								
53 54	St. Thomas Suburban Rapid Transit								
55 55	Saskatoon								
56	Schomberg and Aurora Railway	$\begin{array}{r} 1,065 \ 48 \\ 31,974 \ 28 \end{array}$			139 82				
57 58	Toronto Suburban	1,572 63							
59 60	Toronto and York Radial	16,544 67							
61	Toronto Civic Railway								
62 63	Winnipeg Windsor, Essex and Lake Shore	4,049 50	13.396.87						
64	Winnipeg, Selkirk and Lake Winnipeg	5, 132 27	·	<i></i>					
65	Yarmouth	3,596 41	20 96		36 41				
	Total	169,473 67	65,870 56	12,226 36	3,587 02				

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Power Plant				Transporta	tion—Operat	ion of Cars.		
Miscel- laneous Supplies and Expenses.	Hired Power.	Total Operation Power Plant.	Superin- tendence.	Wages of Conductors	Wages of Motormen.	Wages of Miscel- laneous Car Service	Wages of Car House Em- ployees.	
\$ cts.	\$ ets.	\$ ets.	\$ ets.	\$ ets	\$ cts.	\$ ets.	\$ ets.	-
	6,063 48	6,063 48	1,400 00	6,379 58	6,379 59			
	1,972 08 $20,560 80$	1,972 08 $24,634 73$	2,280 00	1,011 95 11,881 30	1,011 95 $11,885 50$	8,008 25	7,783 23	3
	10,464 60	10,464 60		5,870 27	5,870 27		3,672 04	
	13,405 72	17,559 84	1,170 28	5,894 73	5,894 72	4,655 15	2,418 89	9
50 031 49	16,344 64	16,344 64	01 010 90	13,296 40	13,296 40	50 501 90	3,877 13	
50,021 43 528 03	$\begin{array}{c} 624,922 & 09 \\ 7,500 & 00 \end{array}$	687,443 24 10,862 42	81,818 39	416,199 52 4,480 40	$\begin{array}{r} 416,199 \ 51 \\ 4,489 \ 60 \end{array}$	59,761 32	$\begin{bmatrix} 75,186 & 25 \\ 2,434 & 80 \end{bmatrix}$	
	89, 128 59	89,128 59	2,76595	85,657 03	85,657 01		5,769 05	
	300 00	300 00		161 78	161 77			
	23,648 52 $14,201$ 58	23,648 52 14,209 98	$3,509 63 \\ 854 93$	20,407 47 8,199 90	$20,407 ext{ } 47 \\ 8,199 ext{ } 91$	2,782 51 5,587 18	$\begin{bmatrix} 4.341 & 34 \\ -2.002 & 22 \end{bmatrix}$	
61 80	14,201 00	2,586 87	0.04 0.0	5,593 49	5,593 49	791 20	2,002 22	-
	97,460 10	97,460 10	7,552 98	74,372 79	74,372 80	5,612 18	9,596 12	
44 69	15,258 31	16,805 88	$\begin{array}{c} 1,412 & 00 \\ 320 & 00 \end{array}$	18,588 71 6,351 14	$16,851 68 \\ 6,351 14$		5,854 53	3
4,597 00	7,845 60	$7,845 60 \ 32,478 40$	750 00	42,371 93	42,371 92	5,544 71	9,040 25	5
	7,546 97	7,546 97	578 40	6,402 05	6,402 05	16 85	167 82	
	12,654 51	16,826 01	1,121 13	8,656 19	8,656 19	7,909 74	955 19	
	69,308 83 20,045 07	69,308 83 $20,045$ 07	$\begin{array}{c} 15,166 & 51 \\ 2,607 & 48 \end{array}$	85,913 25 13,705 90	85,913 24 $13,705 91$	2,899 15	$\begin{bmatrix} 6,947 & 05 \\ 1,225 & 30 \end{bmatrix}$	
	16,784 47	16,784 47	2,001 10	22,113 38	22,113 38	2,000 10	1,220 00	1
	10,999 98	10,999 98	781 50	9,325 46	8,911-70		2,591 44	1
	4,31290 $14,69735$	$\frac{4,312}{14,697} \frac{90}{35}$	444 00	5,834 75 5,170 10	5,561 54 $5,170$ 11	5,425 82		
	10,976 36	11,914 50	1,440 00	11.813 66	12,111 92		3,060 99	9
	36,884 41	36,884 41	7,399 54	60,954 45	61,510 74	6,230 50	6,992 92	
	13,389 61	13,389 61 40,295 50	1,905 40	7,793 59 9,912 04	7,793 59 19,149 19		5 110 96	
6,207 32	40,295 50 $25,214 85$	31,784 98	$6,594 04 \\ 1,336 66$	6,328 55	6,424 16	1,794 34	$\begin{bmatrix} 5,410 & 28 \\ 1,281 & 06 \end{bmatrix}$	
	3,915 00	3,915 00	600 00	2,319 85	2,319 75	570 85		
000 21	22 000 00	10.056.01	0.410.15	10 000 00	18,600 82			
898 31 1,129 74	33,999 80	$42,056 04 \\ 16,983 98$	$9,412\ 15$ $476\ 00$	18,600 82 18,541 37	18,541 37	2,936 36	3,089 45	5
		485 25	1,500 00	3,151 25	3,381 45		360 10	
173 86	75 00	6,709 14	4,308 11	10,331 83	10,365 07	178 64	3,258 45	
	$36,72386 \\ 1,69349$	$\begin{array}{r} 46,914 & 78 \\ 1,693 & 49 \end{array}$	$\begin{array}{c} 16,721 \ 67 \\ 150 \ 00 \end{array}$	58,714 27 3,016 38	58,714 27 $2,915 62$	31,947 96	9,229 98 186 53	
118 29	14,673 75	16,996 84	1,496 02	10,393 48	10,393 49	63 90	2,188 18	
	7,799-46	$9,623\ 65$	2,033 70	7,801 67	7,801 67	9,000 00	3,950 00	0
790 15	$\begin{array}{c} 22,588 & 66 \\ 3,000 & 00 \end{array}$	60,858 65 $3,000$ 00	18 00	$170,924 40 \\ 9,959 09$	170,924 40 9,733 80	5,848 81 1,308 55	19,399 57	4
101 05	19,999 92	20,100 97	2,865 31	16,233 76	16,243 54	3,466 84		
	37,469 38 $41,250 04$	37,469 38 $42,571 31$	$\begin{array}{c} 12,347 & 23 \\ 1,355 & 70 \end{array}$	73,081 52 16,789 38	73,081 53 14,667 01	1,604 06 18,967 68	15,970 53 791 61	
	48,307 13	48, 307 13	3, 139 47	39,440 62	39,928 71	2,242 73	7,110 49	
	39,486 33	50,808 13	1,620 00	42,740 87	42,740 86		9,705 99	9
	$9,344\ 70\ 6,000\ 00$	$9,344 70 \\ 6,000 00$	890 47	$\begin{bmatrix} 6,641 & 77 \\ 7,274 & 37 \end{bmatrix}$	6,641 77 7,303 33	353 84	$\begin{array}{c} 3,081 & 34 \\ 3,690 & 30 \end{array}$	
	1,819 40	2,344 40	997 00	1,545 30	1,514 15	555 64	502 55	
	3,113 10	3,113 10		,				
303 10	4,243 87	4,243 87	1 977 97	7,696 23 $18,927 57$	7,696 23 18,273 07	1,193 25		1
30-3 10	27,554 24 $29,717 54$	$30,623 14 \ 29,717 54$	1,377 37 4,432 89	28, 493 94	28, 493 93	1,195 25		
30 74	7,800 00	4,636 85	120 00	1,586 15	1,586 14	2,446 67		
• 430 57 1 211 79	733,235 14	771,841 53	202,894 09	649,827 89	639, 150 08		5 year on	
$1,311\ 72$ $216\ 72$	14,667 96 84,000 00	$17,552 31 \ 108,403 67$	$2,132 50 \\ 14,312 59$	$15,925 52 \\ 35,915 78$	14,865,43 $35,915,78$	$1,380 65 \\ 4,695 52$	5,820 60 $19,496 46$;
	8,898 17	8,898 17	319 00	5,038 16	5,038 16			
#00 ·	57,780 27	57,780 27	8,176 47	45, 267 78	45,122 48	2,927 07	9,716 85	
$702 41 \\ 1,318 23$	142,511 77	143,214 18 $18,764$ 60	31,714 58 1,109 90	377,364 45 7,355 78	$382,009 05 \\ 7,355 78$	6,99090 $16,07478$	29,488 76)
408 27	23,653 06	29, 193 60	1,809 25	8,812 98	8,678 38	2,330 16	2,299 05	5
390 71		4,044 49		1.972 32	1,972 31			
								-

8 GEORGE V, A. 1918
Table 4.—Summary of Operating Expenses

1			7	Tananartatio	n_Operation
			'	'ransportatio	
ο.	Name of Railway.	Car Service Supplies.	Mis- cellaneous Car Service Expenses.	Hired Equipment.	Cleaning and Sanding Track.
		\$ ets		\$ ets.	\$ ets.
	Berlin and WaterlooBerlin and Northern				
3	Berlin, Waterloo, Wellesley and Lake Huron		16.901 00		
4	Brandon Municipal	794 9	1,765 14	1,349 65	517 7
5	Brantford and Hamilton	2,135 1	2,754.85	1,349 65	
6 7	Brantford MunicipalBritish Columbia	8,362 3 $13,105 5$	70 901 99	10 000 01	0 021 2
8	Calais Street	15,105 5	79,801 22	18,800 84	0,951 2
)	CalgaryCanadian Resources Development	15,851 0	1,797 30		6,305 4
)	Canadian Resources Development		25 17		
2	Cape Breton Chatham, Wallaceburg and Lake Erie	4,374 5	9 004 19	11,568 69	652 0
	Cornwall		5,994 12	11,505 09	1 345 3
ŀ	Edmonton Radial		17,239 83		5,763 9
5	Fort WilliamGuelph Radial	2,361 1	1,389 20		
	Guelph Radial	1 540 5	2,733 81		
	Halifax Tramways	1,345 3	753 51	6 356 55	11,010 4
	Hamilton, Grimsby and Beamsville				
) [Hamilton Street	12,488 3	9,354 15	a una nx	
	Hamilton Radial	2,671 20	1,882 89	20,486 65	
3	Hull	1,423 1	1,080 00		
ı l	Kingston Portsmouth and Cataragni				
	Lethbridge Municipal Levis County London Street	262 5	3	1	1.427 9
	Levis County	911 3	3,051 88		449 2
	London Street		1,891 09		163 8
	London and Port Stanley		1 164 25	20 638 93	
	London and Lake Erie London and Port Stanley Lake Erie and Northern Moncton Tramways			409 39	
	Moncton Tramways	405 0	1,530 41		
	Montreal Tramways. Montreal and Southern Counties	5 co2 6	09 550 59	1,647 15	
	Moose Jaw	0,000 0	159 29	1,047 10	
	Nelson Niagara Falls, Park and River	116 8	31	<i></i>	l
			832 75	47,152 40	470 7
	Niagara, St. Catharines and Toronto	117 7	23,559 19	47,152 40	
	Nipissing Central	2,052.78	855 68	3,160 95	149 7
1	Niagara, Welland and Lake Erie Nipissing Central Oshawa		6,748 71	3,160 95 16,036 57	
- 10	Ittawa		1 - 36.991.25		
	Peterborough Radial Port Arthur	· 1 284 8	324 50		594 1
- 11	Pieton County		1		
-	Quebec Ry., Lt. and Power Co. (Citadel)		13,995 86		3,000 0
	Quebec Ry., Lt. and Power Co. (Citadel)	e 700 90	7,826 60		0.212.4
1	Sandwich Windsor and Ambersthurg	0,750 3	380 93		2,313 4
1	Sarnia.		573 50		
	herbrooke		111 93		75 0
1	Sudbury, Copper Cliff Suburban	341 2	99 35		
	St. Thomas				
1	Suburban Rapid Transit	99 3-	521 96	1,800 00	539 7
- 13	baskatoon		10,970 62		
1	Schomberg and Aurora Railway	321 38		548 40	2,191 5
	Γoronto Γoronto Suburban	2,155 70	241,693 67 534 38	5,670 91	5,694 5 1,642 0
	Coronto and York Radial	2,100 70		1,275 42	6,747 2
1	Three Rivers Traction Co	608 4-	561 30	1,210 12	1,119 2
	Coronto Civie Railway	6,356 79	414 75		992 7
	Vindsor Fessy and Lake Shore	8,494 5			10,869 7
	Vindsor, Essex and Lake Shore				
	armouth				
	TD + 1	105 116 5			
- 1	Total	105,440 51	648,476 06	171,283 98	73,573 2

SESSIONAL PAPER No. 20b for the year ending June 30, 1917—Continued.

Cars—Cont	inued.			Gen	eral.		
	Total peration of Cars.	Salaries, General Officers.	Salaries, Clerks.	Printing and Stationery.	Office Expenses.	Store Expenses.	Stable Expenses.
913 85 8,444 94 1,1	\$ cts. 14,762 15 2,257 06 60,968 77 19,082 25 27,164 14 39,746 08 78,248 72 11,482 43 204,884 96	\$ cts. 1,000 08 115 00 5,798 80 1,393 57 2,120 48 20,324 57 6,372 60	\$ cts. 958 48 1,128 90 19,780 65 6,873 24 4,155 36 64,833 85 2,805 00	5,641 47	65 00 1,302 50 957 43	519 41 5,500 00	5,553 28 3,876 23
1,842 22 976 05 1,579 50 1,579 50 1,891 08 10,675 18 338 21 973 45 2,909 99 7,766 67 447 18 498 60 6,352 94 1,593 65 1,593 65 2,936 24 	348 72 348 72 41, 385 95 13, 323 51 96, 090 19 96, 090 19 33, 543 99 33, 543 99 22, 195 25 41, 772 31 223, 758 21 23, 758 21 77, 320 71 12, 474 66 33, 485 54 17, 492 58 62, 868 73 17, 492 58 62, 868 73 17, 492 58 62, 868 73 17, 492 58 62, 868 73 17, 492 58 62, 868 73 17, 492 58 62, 868 73 17, 492 58 62, 868 73 17, 492 58 62, 868 73 17, 492 58 62, 868 73 17, 492 58 63, 636 78 17, 492 58 63, 636 78 17, 492 58 63, 636 78 17, 492 58 63, 636 78 17, 492 58 63, 636 78 18, 636	6, 363 12 3,700 05 4,218 65 3,096 50 9,744 00 1,022 81 1,975 93 9,447 36 2,543 61 3,263 98 617 80 2,929 50 8,249 85 5,916 65 2,960 00 2,491 41 3,536 14 3,000 00 585 28 10,604 74	6,804 81 2,809 30 1,442 79 5,844 75 1,087 50 1,247 36	1,046 50 764 81 23 75 353 53 432 54 143 28 178 76 685 81 1,174 49 537 21 831 32 155 72 98 25 114 07 250 34 210 02 1,063 98 4,024 42 3,230 28 905 03 152 09 190 48 5,940 60 35 75 762 23 195 96 1,279 92 328 92	1,424 52 819 42 832 23 58 65 1,834 40 974 56 796 09 22 73 220 36 1,112 99 370 10 2,212 70 230 50 2,149 68 458 16 60 00 152 99 2,698 37 150 11 1,879 91 957 72 1,205 40	1,033 37 1,621 47 265 99 250 02 937 20 19 10 9 72 1,567 15 1,414 84 1,435 36 154 35	1,942 80 48 00 1,109 72 799 05 631 33 417 52 2 25 125 88 198 00
5,111 15 1,479 61 1 2,472 41 	40,678 31 120,363 85 65,509 13 102,771 99 16,938 38 22,171 65 4,999 62 21,866 77 15,392 46 43,568 51 43,568 51 17,757 09 16,163 32 17,056 24 17,056 24 17,056 24 17,056 24 17,056 24 17,056 24 17,056 24 17,239 74 184,317 23 32,437 06 24,815 83 4,355 45	4,256 49 12,303 48 5,244 88 2,504 00 4,800 00 1,819 00 1,072 57 960 00 699 90 45,760 28 4,157 62 7,800 00 1,392 00 1,179 64 28,294 58 3,531 35 3,000 00 1,361 60	6,151 74 8,545 10 5,073 78 6,000 00 1,872 00 2,083 05 150 00 240 00 343 81 200 00 72,605 41 2,562 50 9,372 24 1,927 08 8,015 80 21,221 62 2,755 06 7,800 10 556 68	166 43 2,334 51 397 42 422 09 99 30 149 03 28 80 123 17 493 79 4 00 5,774 52 415 46 1,197 65 504 58 3,047 65 3,460 95 657 16	53 07 1,320 00 280 69 583 13 21 84 6 00	2,607 14 1,573 38 61 36 13,372 63 187 17 2,841 10 2,488 50 3,309 04 494 50	908 34 693 11 1,887 65 315 24 5,659 82 429 90 696 79 1,377 92 7,472 74

8 GEORGE V, A. 1918
Table 4.—Summary of Operating Expenses

				General-
čo.	Name of Railway.	Advertising and Attractions.	Mis- cellaneous.	Damages.
_	Berlin and Waterloo	\$ ets. 135 50	\$ cts. 250 00	\$ ets
2		155 50	314 38	
3	Berlin, Waterloo, Wellesley and Lake Huron	75 00	4,303 36	70 0
5	Brandon Municipal. Brantford and Hamilton	56 57	52 28 1,184 41	$\begin{array}{c} 4 & 0 \\ 3,556 & 3 \end{array}$
6	Brantford Municipal	13 50	272 76	564 4
7	British Columbia	6,795 53 10 00	$\begin{array}{r} 29.340 & 48 \\ 3.025 & 05 \end{array}$	43,732 3
8	Calgary	224 95	6,774 81	11,528 3
10	Canadian Resources Development	144 28	4 114 65	
$rac{11}{12}$	Cape Breton Chatham, Wallaceburg and Lake Erie	329 39	4,114 65 498 41	6,121 9 2,689 8
13	Cornwall	2,248 07	543 16	89 1
14	Edmonton Radial	3,610 61	$\begin{bmatrix} 2,165 & 91 \\ 14 & 09 \end{bmatrix}$	15,549 3 $19 8$
$\frac{15}{16}$	Guelph Radial		922 52	326 0
17	Halifax Tramways	25 67	1,849 60	1 001 0
$\frac{18}{19}$	Hamilton and Dundas Hamilton, Grimsby and Beamsville	29 55 53 10	$\frac{467}{1,136},\frac{54}{.24}$	$\begin{array}{c} 1,621 & 0 \\ 3,770 & 2 \end{array}$
20	Hamilton Street	195 70	2,107 58	22,104 8
21	Hamilton Radial	64 90 98 89	1,333 58 4,933 08	$\begin{array}{r} 3,860 \ 7 \\ 3,000 \ 0 \end{array}$
22 23	International Transit Co	90 00	29, 902 79	3,000 0
24	Kingston, Portsmouth and Cataraqui	248 65	1,397 67	
25 26	Lethbridge Municipal	$\begin{array}{c} 1,184 & 81 \\ 131 & 23 \end{array}$	86897 $2,45615$	$\begin{array}{c} 19 \ 3 \\ 729 \ 3 \end{array}$
27	London Street	472 65	3,404 83	14,844 4
28	Levis County London Street London and Lake Erie London and Port Stanley	570 02	3,763 70	$\begin{array}{r} 302 \ 1 \\ 1,351 \ 3 \end{array}$
29 30	laka Eria and Northarn	4,208 92	5,562 48 2,324 23	3,212 1
31	Moneton Tramways		120 00	
32 33	Montreal Tramways Montreal and Southern Counties	2,795 89	448 38	9,270 4
34	Moose Jaw	18 45	135 75	90 7
35	Moose Jaw Nelson.	2.074.07	9 009 15	1 701 2
36 ±	Niagara Falls, Park and River	$3,974 87 \\ 6,562 46$	3,663 15 13,783 81	$1,764 \ 3$ $24,971 \ 0$
38	Niagara, Welland and Lake Erie		738 6S	7 5
39 40	Nipissing Central Oshawa	304 80	77 85	577 7 11 0
41	Ottawa	1,504 88	19,377 79	10,679 4
42	Peterborough Radial	13 75	609 89	123 7
43 44	Port Arthur	8 95	506 01	10 2
45	Pictou County Quebec Ry., Light and Power Co. (Citadel). (Montmorency) Regina Municipal. Sandwich, Windsor and Amherstburg.		5,427 14	2,249 2
16 47	" " (Montmorency)	2,120 72 1,023 04	9,186 38 186 76	$\frac{112}{799} \frac{3}{7}$
18	Sandwich, Windsor and Amherstburg	225 25	4,218 46	6,785 0
49	Sarnia	55 25	7,432 82	
50 51	SherbrookeSudbury, Copper Cliff Suburban	49 60	9,366 03	
52	Shawinigan Falls		1,15547	
53 54	St. Thomas Suburban Rapid Transit		750 63 264 05	503 0
55	Saskatoon		5, 195 61	439 5
56	Schomberg and Aurora Railway		108 68	00 115 0
57 58	Toronto Suburban.	11,857 32 481 41	54,229 98 2,002 90	89,445 0 184 4
59	Toronto and York Radial	3,436 65	41,177 43	12,000 0
60 61	Three Rivers Traction Co	43 20 21 56	1,570 22 64 13	$177 0 \\ 279 9$
	Toronto Civic Railway	4,754 54	20,440 97	21,749 1
63	Winnipeg Windsor, Essex and Lake Shore	1,693 49	1,200 00	
64 65	Winnipeg, Selkirk and Lake Winnipeg. Yarmouth.		$\begin{array}{r} 433 \ 13 \\ 1,284 \ 03 \end{array}$	91 7
-				
-	Total	61,873 57	320,516 50	321,514 6

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Concluded.						Grand Total.
Legal Expenses.	Miscellan- eous Legal Expenses.	Rent of Land and Buildings.	Rent of Track and Terminals.	Insurance.	Total. General.	Operating Expenses.
\$ cts.	\$ cts.	\$ ets. 550 02	\$ cts.	\$ cts. 2,518-52	\$ ets. 6,025-70	\$ cts. 39,489 99
	73 25	174 60	2,470 44	$\begin{array}{c} 311 & 70 \\ 5,080 & 00 \end{array}$	1,934 98 40,140 90	6,589 87 $151,043 01$
	514 74			169 72	1,629 72	32,450 34
0 107 10				795 85 1,718 80	30,745 34 8,201 66	$\begin{array}{c} 114,937 & 93 \\ 70,653 & 50 \\ \end{array}$
2,187 40			14,082 34	10,917 89 773 80	232,882 78 3,814 35	2,448,207 34 34,138 87
. .	955 05		357 42	2,224 95 59 54	$ \begin{array}{r} 35,410 & 12 \\ 416 & 96 \end{array} $	387,934 22 1,128 60
				1,964 38 1,534 44	30,791 81 $13,533 48$	150,977 22 89,628 92
				882 99 4,892 94	5,239 87 40,657 33	28,268 00 $391,276 45$
	17 15	240 00		2,58392	7.816 19	94,177 34
8,526 41	2,650 00			1,381 66 1,060 00	$\frac{4,270}{29,742} \frac{84}{88}$	36,756 49 $249,230 00$
	$\begin{array}{c} 208 & 76 \\ 3,777 & 92 \end{array}$	9 929 99	$\begin{array}{c} 5,936 & 14 \\ 446 & 00 \end{array}$	131 69 843 52	$12,796 85 \\ 30,780 34$	$\begin{array}{c} 61,945 & 13 \\ 130,222 & 16 \end{array}$
	1,967 68	16,340 16	110 00	2,345 84	73,34742	451,891 60
	1,662 37			453 80 3,054 09	31,255 67 $19,306 10$	140,491 53 129,849 83
4.138 65	508 63			$2,922 35 \\ 610 89$	$35,037 60 \\ 10,219 70$	$76,261 02 \\ 38,865 92$
				$\begin{array}{c} 614 & 14 \\ 4,516 & 81 \end{array}$	4,204 31 19,203 81	42,439 05 $100,769 82$
				2,250-51	33,711 86	301,937 37
	315 09		1,658 97	$\begin{bmatrix} 1,193 & 64 \\ 5,961 & 65 \end{bmatrix}$	$\frac{18,263}{33,969} \frac{65}{77}$	70,181 12 $207,356 08$
		305 84	600 00	$1,400 \ 02$ $60 \ 00$	$24,578 03 \\ 182 25$	$\begin{array}{r} 124,463 & 71 \\ 16,873 & 73 \end{array}$
			61 111 15		104, 161 34	*4,601,771 84 274,236 12
4 75	8 53 64 28	5,143 52	61,141 15	3,539 52 $2,284 07$	9,775 01	80,733 77
10 00	1,556 93			303 15 1,720 06	$\begin{array}{c} 515 \ 24 \\ 24,488 \ 87 \end{array}$	12,532 50 92,941 83
2,166 05				7,361 90 892 43	$\begin{array}{c} 92,103 & 03 \\ 2,621 & 36 \end{array}$	547,174 59 12,521 82
30 90			732 87	436 12	6,252 82	78,073 93
35 50			1,191 71	$\begin{array}{c} 1,527 \ 44 \\ 10,187 \ 51 \end{array}$	8,664 66 $75,032$ 35	87,404 26 696,528 23
	0 70	159 65		3,575 66 $1,561$ 14	$\begin{array}{c} 12,206 \ 12 \\ 8,255 \ 07 \end{array}$	45,349 94 91,986 85
	1,728 69			5,324 30	39,067 91	357,753 38
965 62	965 62			2,590 37	33,649 14 15,894 86	186, 126 91 190, 722 31
	1,000 00			$\begin{array}{r} 3,821 & 54 \\ 900 & 00 \end{array}$	27,583 23	229,339 34
2 00	419 65			$\begin{array}{c} 851 & 16 \\ 2,365 & 47 \end{array}$	15,140 64 15,137 01	50,739 49 52,054 26
50 00		80 00	1,998 89	$1,036 \ 36$ $128 \ 10$	2,540 92 4,575 90	11,315 57 38,855 94
			1 00 12 48	899 23	$\frac{2,885}{2,696}$ $\frac{66}{41}$	24,689 42 84,509 91
• • • • • • • • • • • • •			12 43	2,244 47	8,434 73	134,596 99
• • • • • • • • • • • • • • • • • • •	50 00 15,986 30			$ \begin{array}{r} 305 \ 45 \\ 48,694 \ 62 \end{array} $	668 13 $363,385 96$	21,210 85 $3,403,846 22$
• • • • • • • • • • • • • • • • • • • •	2,210 22 918 18	1,018 40		7,94298 $2,93157$. 22,149 02 85,063 50	104,406 02 $450,968$ 21
• • • • • • • • • • • • •	567 56	282 50		$2,445 \ 27$	9,892 69	43,904 38
1,414 75	8,142 67		9,745 72	$\begin{array}{ccc} 2,034 & 86 \\ 18,495 & 64 \end{array}$	$\begin{array}{r} 18,509 \ 97 \\ 156,161 \ 76 \end{array}$	$\begin{array}{c} 216,516 \ 72 \\ 1,445,509 \ 47 \end{array}$
			501 00	8,898 67 2,604 82	$\begin{array}{c} 19,631 \ 74 \\ 14,505 \ 29 \end{array}$	104,508 77 $90,761 06$
	62 27			172 37	4,389 18	14,607 29
20, 132 03	57,366 10	47,278 03	123,985 68	213,306 30	2,046,151 79	20,098,634 35

^{*}Not distributed. †Rent of Right of Way.

\$8 GEORGE V, A. 1918 Table 5.—Income Account for the

				,	
				Income.	
No.	Name of Railway.	Net Earnings from Operation.	Net Loss from Operation.	Miscel- laneous Income.	Total Income from Operation.
		\$ ets.	\$ cts.	\$ ets.	\$ cts.
1 2 3	Berlin and Waterloo	16,183 63 1,372 83			16, 183 63 1, 372 83
	Huron	76,901 96		1,040 37	77,942 33
4	Brandon Municipal Brantford and Hamilton	4,873 01			4,873 01
5 6	Brantford Municipal	31 445 38			55,916 61 31,445 38
7	British Columbia			1,093,009 31	1,345,535 11
8 9	Calais Street	8,272 73		10 740 07	8,272 73
10	Calgary Municipal Canadian Resources Development	197,531 94	923 75	16,542 95	$ \begin{array}{r} 214,074 89 \\ -923 75 \end{array} $
11	Cape Breton	92,415 17	0	125, 133 18	217,548 35
12	Chatham, Wallaceburg and Lake Erie	44,645 44			44,645 44
13 14	Cornwall Edmonton Radial	0,175 07		81 81	6,256 88 105,841 06
15	Fort William	23.275 37		1	23,275 37
16	Guelph Radial	10,116 89		302 83	10,419 72
17 18	Halifax Tramways Hamilton and Dundas	149,875 59		302 83 224,651 72	374,527 31
19	Hamilton, Grimsby and Beamsville	3 013 54			12,682 95 3,013 54
20	Hamilton Street	289,457 45			289,457 45
$\frac{21}{22}$	Hamilton Radial	30,251 43		0, 100, 60	30,251 43
23	Hull International Transit Co	64 364 82		35,190 63 914 30	$\begin{array}{c} 103,126 & 05 \\ 65,279 & 12 \end{array}$
24	Kingston, Portsmouth and Cataraqui	13,564 05			13,564 05
25	Lethbridge Municipal	1 6 101 23			6,101 23
$\frac{26}{27}$	Lewis County London Street	114 420 06	5,700 14	2,665 03 48 97	-3,035 11 114,429 06
28	London and Lake Erie.	114,425 00	9.664 21	48 97	-9,615 24
29	London and Port Stanley	109,329 13			109,329 13
30 31	Lake Erie and Northern Moneton Tramways	44,747 42		128 46	44,875 88
32	Montreal Tramways	3.123.727 04			$\begin{array}{c} 9 & 63 \\ 3, 123, 727 & 04 \end{array}$
33	Montreal and Southern Counties		10,004 31	303 69	-9,70062
$\frac{34}{35}$	Moosejaw. Nelson.	24,249 16			24,249 16
36	Niagara Falls, Park and River	44.462.39		6.211.64	1,559 67 $50,674 03$
37	Niagara, St. Catharines and Toronto	209,415 44		6,211 64	209, 415 44
38 39	Niagara, Welland and Lake Erie	19,489 56		27 78	19,517 34
40	Nipissing Central. Oshawa.	20,815 47		27 78 371 80 1,346 55	21, 187 27 59, 778 69
41	Ottawa	498,202 89			498, 202 89
.42	Peterborough Radial	22,875 58			2,875 58
43 44	Port ArthurPictou County				22,623 06
45	Quebec Pr. It and Power Co. (Citadal)	202 200 44			203,200 44
46 47	Regina Municipal.	42,983 03			42,983 03
48	Sandwich, Windsor and Amherstburg	32,641 78		31 776 02	$32,641 78 \\ 186,253 76$
49	Sarnia	19.613 79		31,776 93	19,613 79
50	Sherbrooke	3,279 62		61,997 18	65, 276 80
51 52	Sudbury, Copper Cliff Suburban Shawinigan Falls	14,665 38		····	14,665 38
53	St. Thomas	0,444 27	7.307.56		$ \begin{array}{r} 6,444 & 27 \\ -7,307 & 56 \end{array} $
54	Suburban Rapid Transit		20, 202 91	27,516 78	7,313 87
$\frac{55}{56}$	Saskatoon Municipal	50,664 12			50,664 12
57	Schomberg and Aurora Railway Toronto	2,677,758 62	4,123 37	90,000 00	-4,123 37 $2,767,758 62$
58	Toronto Suburban	102,911 48		1,863 70	104,775 18
59 60	Toronto and York Radial	157,999 52			157,99952
61	Three Rivers Traction Company				16,371 26 32 989 20
62	Winnipeg	657,834 58		554,829 10	32,989 20 1,212,663 68
63	Windsor, Essex and Lake Shore	76,300 35			76,300 35
64 65	Winnipeg, Selkirk and Lake Winnipeg Yarmouth	41,159 27 26,554 89		16,205 55 40 50	57,364 82 26,595 39
	Total	10,196,955 44	57,926 25	2,292,200 76	12,431,229 95

sessional paper No. 20b year ending June 30, 1917—Concluded.

	Dedu	ctions from Inc	ome.		N	et	
Taxes.	Interest on Funded Debt.	Interest on Floating Debt.	All Other Deductions.	Total.	Income.	Loss.	N
\$ cts.	\$ cts. 7,832 10 170 00	\$ cts.	\$ ets.	\$ cts. 7,832 10	\$ cts. 8,351 53	\$ ets.	
5,087 21	17,040 00 21,000 00	606 15 1 550 64		99 733 36	55, 208 97		
5,139 45	39,600 00	47,154 70		91,894 15	31,445 38	35,977 54	Į.
$ \begin{array}{r} 140,335 & 82 \\ 790 & 93 \\ 2,955 & 82 \end{array} $	110,182 85		137,883 87	5,790 93 133,138 67	2,481 80 100,936 22		
9,061 76 1,892 52	54,790 83 34,725 00		48,850 00	112,842 89 39,353 65	5,291 79		
980 38	139,206 24 53,190 00	88,690 99	26,094 78 3,000 00	$\begin{array}{c} 1,168 \ 51 \\ 253,992 \ 01 \\ 56,190 \ 00 \\ \end{array}$		32,914 63	3
$\begin{array}{c} 1,753 & 54 \\ 36,691 & 30 \\ 1,265 & 01 \end{array}$	5,000 00	20,889 59	4,267-71	$61,848 60 \\ 6,265 01$	$312,67871 \\ 6,41794$		
$\begin{array}{r} 4,579 & 59 \\ 75,385 & 07 \\ 6,235 & 54 \end{array}$	7,500 00 $19,329 85$ $8,000 00$	44 594 35		14,598 84 95,443 20 58,829 89	194,014 25	28,578 46	
1,469 24 1,378 37	9,000 00 10,075 00	316 82		78,732 29 10,695 19 10,075 00	54,583 93 3,489 05		
$\begin{array}{c} 5,604 & 24 \\ 713 & 97 \\ 7,241 & 91 \end{array}$	$\begin{array}{c} 21,427 & 39 \\ 7,555 & 00 \\ 31,732 & 89 \end{array}$	9,274 91 1,205 70	5,000 00 221 00	27,031 63 22,543 88 40,401 50		25,578 99	1
3,166 25 4,121 79	48,667 28 1,275 00		5,000 00 221 00 20,000 00	71,833 53 5,396 79	39,479 09		
98,400 00		1 658 542 38	491 430 95	2 248 373 33	875,353 71	81,399 66	
5,518 11	30 000 00		1,723 02	35.518 11	15,155 92	1,795 33	
$\begin{array}{r} 10,792 & 05 \\ 654 & 63 \\ 1,019 & 18 \end{array}$	54,900 00 2,600 00	6,028 95	10,775 02	$71,721 00 \ 3,254 63 \ 11,794 20$	16,262 71 9,393 07		
$ \begin{array}{r} 2,796 \ 05 \\ 58,458 \ 60 \\ 65 \ 98 \end{array} $	17,000 00 9,884 40	28,601 63		104,060-23 9,950-38	394,142 66 12,925 20		
	69,097 56				203,200 44)
17,400 00	80,500 00 31,500 00		11,327 08	91,827 08 48,900 00	137, 353-76	59, 185 30	
1,080 97 566 56	4 484 95			5 565 22	1,124 12 4,304 76		
3,553 74	7,500 00	1,279 17 6,616 42	140 62	35,310 78		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	3
103 85 1,146,848 92	35,930 15 235,046 96	3,138 55 28,643 88			1,385 862 74	32,871 10	
2,628 39 13,466 86 540 93	29,999 72 82,000 00 14,926 26	$\begin{array}{c} 6,255 & 83 \\ 51,599 & 74 \\ 259 & 16 \end{array}$	19,661 07	$58,545 ext{ } 01$ $147,066 ext{ } 60$ $15,726 ext{ } 35$	10,932 92 644 91		
160, 109 61 2, 218 00 5, 178 72	87,239 26 250,000 00 37,500 00 32,660 00	177,588 32 19,332 56 4,059 96	3,005 76 27,486 33 1,592 24	90, 245 02 615, 184 26 59, 050 56 43, 490 92	597,479 42 17,249 79	57,255 82	2
919 26	11,275 00	$\begin{array}{r} 4,035 & 50 \\ 176 & 20 \\ \hline 2,363,626 & 95 \end{array}$	205 14 824,866 90	12,575 60		649,902 50	

8 GEORGE V, A. 1918

Table 5.—Income Account for the year ending June 30, 1917.

		Deduction	ons from Net	Income.	
Name of Railway.	Reserves and Special Charges.	Dividends.	Total Deductions.	Surplus for Year.	Deficit for Year.
Berlin and Waterloo				\$ ets. 8,351 53	\$ cts
Berlin and Northern. Berlin, Waterloo, Wellesley and Lake Huron.		12,500 00	12,500 00	42,708 97	
Brandon Municipal. Brantford and Hamilton. Brantford Municipal.	1		5,968 08	31,445 38	23,645 7 35,977 5
British Columbia. Calais Street	812,917 25 2,000 00	349,200 00	1,162,117 25 2,000 00	481.80	738,741 89
Calgary Canadian Resources Development Cape Breton	79,142 22		79,142 22	21,794 00	923 73
Chatham, Wallaceburg and Lake Erie Cornwall.			58,750 00	45,955 46 5,291 79 5,088 37	
Edmonton Radial Fort William Guelph Radial	31,793 60	7,680 07	31,793 60 15,680 07		148,150 93 64,708 23 7,013 89
Halifax Tramways	33,453 22	112,000 00 10,000 00	145,453 22	167,225 49	3.582.06
Hamilton, Grimsby and Beamsville Hamilton Street		113,225 00	113,225 00	80,789 25	11,585 30 28,578 40
HullInternational Transit Co					20,070 %
Kingston, Portsmouth and Cataraqui Lethbridge Municipal Lewis County London Street	9,963 72		9,963 72	3,489 05	30,894 1: 25,578 99
London and Lake Erie .		34,360 80			9,615 2
London and Port Stanley Lake Erie and Northern Moneton Tramways	10,914 12		10,914 12	39,479 09	
Montreal Tramways. Montreal and Southern Counties			337,880 50	537,473 21	81,399 6
Moosejaw Nelson Niagara Falls, Park and River				17,859 23	1,795 3
Niagara, St. Catharines and Toronto Niagara, Welland and Lake Frie	3,000 00		3,000 00	137,694 44 13,262 71	
Nipissing Central. Oshawa Ottawa	8,996 57 65,000 00		8,996 57 346,553 00	$9,393 ext{ } 07 $ $47,936 ext{ } 07 $ $47,589 ext{ } 66$	
Ottawa. Peterborough Radial Port Arthur	4,447 96		4,447 96	8,477 24	46,474 50
Pictou County Quebec Ry., Lt. and Power Co. (Citadel) (Montmorency)				203, 200 44 42, 983 03	
Regina Municipal Sandwich, Windsor and Amherstburg				137,353 76	59,185 30
Sarnia Sherbrooke, Sudbury, Copper Cliff Suburban		5,400 00	5,400 00		
Shawinigan Falls					2,334 96 7,307 56
Suburban Rapid Transit Saskatoon Schomberg and Aurora Railway	18,174 29		18,174 29		27,996 91 6,578 87 32,871 10
Toronto Toronto Suburban Toronto and York Radial	30,000 00 560 00	960,000 00	990,000 00 560 00	$\begin{array}{c} 395,862 & 74 \\ 45,670 & 17 \\ 10,932 & 92 \end{array}$	
Three Rivers Traction Co Toronto Civic Railway	60.737 03		60,737 03	644 91	117,992 8
Winnipeg Windsor, Essex and Lake Shore Winnipeg, Selkirk and Lake Winnipeg.	77,862 16 11,764 00	197,097 24	274,959 40 11,764 00	322,520 02 17,249 79 2,109 90	
1 armouth	1 285 651 29	2 162 628 61	3,754,340 83	14,019 79	1 514 981 6
* O(a1	1,230,004 22:	2,403,030 01	0,104,040 00	2,000,002 21	1,014,201 0

SESSIONAL PAPER No. 20b

Table 6.—Summary of Equipment for the year ending June 30, 1917—Continued.

		Passenger Cars	er Cars.					Other Cars.	Cars.				Ē
Name of Railway.	Closed.	Open.	Com- bina- tion.	Total.	Freight	Mails, Express and Bag- gage.	Com- bina- tion.	Work.	Snow Plough.	Sweeper	Miscellane-	Total.	All Cars.
Berlin & Waterloo Berlin & Northern	∞ ಣ ೕ	9	: :	<u> </u>				- '		<u> </u>	2	611-	91 01
Berini, Waterioo, Wellesley & Lake Huron Brandon Municipal Arantiord & Hamilton	ာ OT လ	10	21	<u> </u>	n		21	9		21	no :	- 13 - 0	22.2
Brantford Municipal British Columbia	381	40.		17 386	1 456	ŦI	5	15-		1 6	*21	248 843	934
Calgary. Canadian Resources Development.	25 - 6	1		86				- 01 01 -		1	23.7	12 4	103 133 133 133 133 133 133 133 133 133
Cape Breton Chatham, Wallaceburg & Lake Erie Cornwell	107	: e1 e		3∞5	. S.	- :			· ·			9 51,0	99 139
Gormwall Edmonton Radial Fort William	96		62	9-1-6						- 01	. e	ာ တာ ဇ	1 88 E
Guelph Radial Halifax Tramways.	(∞9	4.2		11.9					-	. — rc	13 1	30.00	39 g
Hamilton & Dundas Hamilton, Grimsby & Beamsville.		લું છે.		0	. चा							. 7	14
	35∞	19		111 8	11				-	7	1	10 E	116 20 20
Hull International Transit Co	- E =	13		==	÷	1		ខា	e)	co -		11.	55
outh & Cataraqui.	;∞;		2	85				Ç1		· 61		1 🕂	461
Levis County	15	6		77.		-		; C1	· 61	: 0°			00 FE
London Street.	20	13		3					φ1 ·	51	ಣ	1-	70
London & Lake Erle. London & Port Stanley.	15.			2 2	7	2 01		- \$1	-			11	24 26
thern	10	:		10	:	-	¢1	01 F			C)	% °	88 88 98
× × × × × × × × × × × × × × × × × × ×	J '			+				7	1			1	
Montreal & Southern Counties	5.5			÷15	_	ଚୀ	↔	©1 -	©1	G1 -		± °	36 E
	2 62			120				-				.)	300
Niagara Falls, Park & River	11	16		22		:	01		=	:	<u>01</u>	22	33

8 GEORGE V, A. 1918

Table 6.—Summary of Equipment for the year ending June 30, 1917—Concluded.

		Passenger Cars.	er Cars.					Other Cars.	urs.				
Name of Railway.	Closed.	Open.	Com- bina- ton.	Total.	Freight	Mails, Express and Bag- gage.	Com- bina- tion.	Work.	Snow Plough.	Sweerer	Miscel- lane- ous.	Total.	Total All Cars.
Niagara, St. Catharines & Toronto Niagara, Welland & Lake Eric Nipissing Central. Oshawa Ottawa Port Arthur. Pictou County. & Power (o. (Citadel) Quebec Ry. Light & Power (o. (Citadel)) Regina Municipal. Sandwich, Windsor & Ambrestbure	4			25. 25. 25. 25. 25. 25. 25. 25. 25. 25.	% 61 T	- ::1	7	± 2000 ≠ 5	क्ष्म चेल्ला च संह	କ କ୍ଷମ ବ ସ	g ::000 ::000	E-14191222 - 20183	126 189 189 189 189 189 171 177
Sarnia. Slierbrooke. Slierbrooke. Sladbury, Copper Cliff Suburban. Slaawingan Falls. St. Thomas. Suburban Rapid Transit. Saskathoon. Schomhere & Aurora Pallana.	1001100	1512	01		•								
Toronto Staturban. Toronto Suburban. Toronto & York Radial Three Rivers Traction Co Toronto Civie Railway Winnipey. Windboy, Essex & Lake Shore Winnipeg, Selkirk & Lake Winnipeg	236 156 157 158 207 327 111 112	131	7	897 187 183 1332 111 111	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100		গুৰুল ৮ জ	7 − − −	<u> </u>	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	: ::::::::::::::::::::::::::::::::::::	322 932 932 934 935 346 36 36 36 37
Total	2,104	447	628	3,116	621	6#	16	198	25	66	148	1,179	4,295

*Including 17 locomotives. †Locomotives.

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revenue	$\begin{array}{c} 24 \\ \text{XXVII} \end{array}$
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TWELFTH REPORT

OF THE

BOARD OF RAILWAY COMMIS-SIONERS FOR CANADA

FOR THE

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. 20c.-1918.]

THE BOARD OF RAILWAY COMMISSIONERS FOR CANADA.

Sir H. L. DRAYTON, K.C., Chief Commissioner.

D'ARCY SCOTT, Assistant Chief Commissioner.

Hon. W. B. NANTEL, K.C., LL.D., Deputy Chief Commissioner.

S. J. McLean, M.A., LL.B., Ph. D., Commissioner.

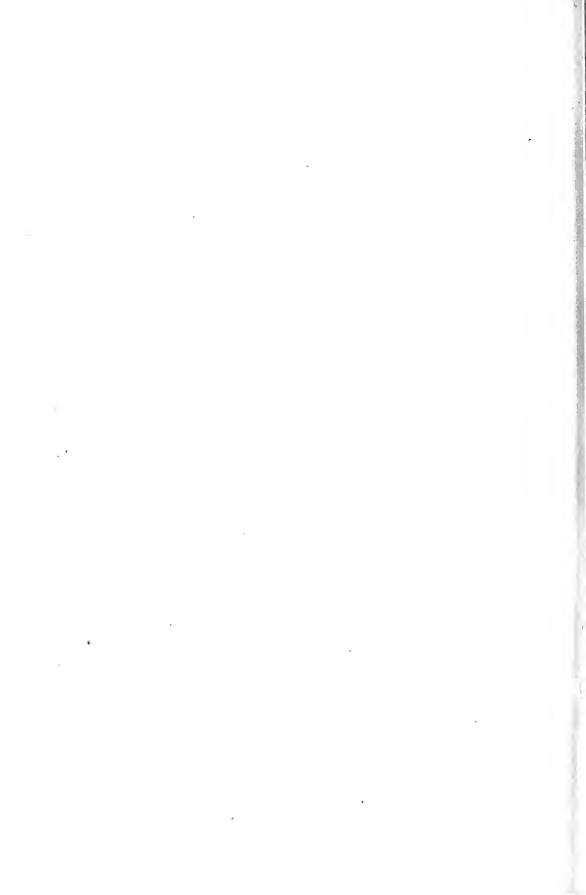
A. S. Goodeve, Commissioner.

A. D. CARTWRIGHT,

Secretary.

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REPORT

OF THE

BOARD OF RAILWAY COMMISSIONERS FOR CANADA.

To the Governor in Council:

Pursuant to the provisions of section 62 of the Railway Act, as amended by section 12 of chapter 32, 8-9 Edward VII, the Board of Railway Commissioners for Canada has the honour to submit its Twelfth Report, for the year ending March 31, 1917.

Since the submission of the Board's last report there have been no further amendments to the Railway Act, but there is before Parliament for its approval a Bill to consolidate and amend the Railway Act, which it is expected will be dealt with during the present session of Parliament. The need of the consolidation of the Act has been felt for some time, and the passage of the Bill consolidating and amending the Act is a matter of much importance to the country at large.

PUBLIC SITTINGS OF THE BOARD.

During the year covered by the period from April 1, 1916, to March 31, 1917, the Board held fifty-eight public sittings, at which 364 applications were heard. The number of public sittings held in the various provinces were as follows:—

In the	province of	Ontario	37
"	4.4	Quebec	4
**	44	Nova Scotia	1
**	4.6	Manitoba	3
4.4	44	Saskatchewan	4
ěı	4+	Alberta	4
44	44	British Columbia	3
44	44	New Brunswick	2

The applications heard at the above sittings of the Board include a variety of matters falling within its jurisdiction under the Railway Act, from the complaint of a private individual to larger matters of general public interest affecting the community as a whole.

FORMAL AND INFORMAL MATTERS.

The number of informal matters dealt with by the Board, as distinguished from matters heard at public sittings, constitutes a considerable percentage of the total applications and complaints dealt with by the Board, that is to say out of a total of 3,320 applications and complaints received and dealt with by the Board, 11 per cent were set down for normal hearing, and 89 per cent were disposed of without the necessity of a formal hearing. These informal complaints that are dealt with and settled

without the necessity of a hearing, in many instances entail a considerable amount of inquiry and consideration on the part of the Board's officers, and cover a wide range of subjects, such as, for example, a complaint of a more or less trivial matter to a matter of general public interest as affecting the community at large, involving the application of a general principle in regard to a railway rate.

RAILWAY GRADE CROSSING FUND.

In accordance with the provisions of section 7, of 8-9 Edward VII, chapter 32, entitled an Act to amend the Railway Act, provision was made that the sum of \$200,000 each year, for five consecutive years from the 1st day of April, 1909, was appropriated and set apart from the Consolidated Revenue Fund for the purpose of aiding in the providing by actual construction work of protective safety, and conveniences for the public in respect of highway crossings of the railway at rail level, in existence on the said 1st day of April, the said sums to be placed to the credit of a special account to be known as "The Railway Grade Crossing Fund," to be applied by the Board, subject to certain limitations set out in the amending Act, solely towards the cost (not including that of maintenance and operation) of actual construction work for the purpose specified.

In dealing with such crossings, the Board issued, between the 1st day of April, 1909, and March 31, 1917, 367 orders, providing protection at 408 crossings, as follows:—

By	electric bells	226
**	gates	91
**	subways	49
**	overhead bridges	20
**	diversion of highways	
	closing of streets	3
	removal of view obstructions	2

It will be seen by comparing the total number of crossings protected with the Eleventh Annual Report of the Board that the increase for the year ending March 31, 1917, in the number of crossings protected, numbers 25, made up as follows:—

Ву	electric bells	18
	gates	8
4.6	diversion of highways	2
		

In connection with the granting of aid to protective works under this fund, attention is again directed to the fact that the Board has found that the limitation imposed by the Act has prevented contributions being made in as large a degree as would seem to be proper in the public interest in connection with the larger schemes for elimination of grade crossings. Such works in the larger cities will run into amounts exceeding \$100,000, and occasionally as high as several million dollars, so that the limitation of \$5,000 (not to be applied to more than three crossings in any one municipality, or more than once to any one crossing), fixed by the Act, would be a mere fraction of the total amount involved.

GENERAL DECISIONS AND RULINGS OF THE BOARD.

Submitted herewith are some of the more important matters dealt with by the Board at its public sittings for the year ending March 31, 1917.

GENERAL ORDERS ISSUED BY THE BOARD.

The following is a brief statement of some of the matters dealt with under General Orders of the Board:—

The suspension of certain tariffs showing charges for salt and ice in refrigerator cars.

Provision in regard to the tariffs of the railway companies for the use of heated refrigerator cars and subdivision of territory west of Westfort and certain maximum tolls for boat in addition to the freight rates from or to the territory west of and including Montreal and Lachute be substituted for certain tariffs suspended and that the differences over the maximum tolls do not exceed from or to the territory south and east of Montreal and Lachute the differences expressed in the suspended tariffs.

Provision for the amendment of the Canadian Car Service Rules Nos. 1, 2, 6 and 15.

Provision for certain charges for demurrage and track storage to apply upon grain and lumber either in transit at Cartier, Sarnia, Capreol and North Bay, Ont., for a period from the 1st January, 1917, to April 30, 1917.

Provision that all railway companies subject to the Board's jurisdiction supply cars for the movement of coal as and when required, not only to points on the originating line of railway, but also to points on other lines of railway, and that the railway companies without sufficient equipment make the necessary changes in flat or livestock cars in order to provide for the existing emergency.

Provision that tariffs of freight rates from points in the United States to points in Canada include or be supplemented by a rule to the effect that the said rates unless specifically indicated as being impeditive be applied to certain points in Canada not enumerated in the said tariffs, and that the railway companies subject to the jurisdiction of the Board arrange accordingly.

Provision for the consolidation of the supplemental regulations regarding rules and regulations for the inspection and testing of locomotive boilers and their appurtenances and for an extension of time for the external inspection of locomotive boilers.

Approval of revised Supplement No. 10 to the Express Classification for Canada C.R.C. No. 3 relating to carload wagon service and pick-up and delivery service.

Provision that railway companies subject to the Board's jurisdiction be permitted to forward bituminous coal from the United States, billed for clearance of customs at the frontier, to its destination in Canada if the destination be a customs port or outport, and if not, then the customs port or outport nearest to but short of its destination, for customs clearance thereat, instead of at the frontier; the carriage from the frontier to the interior point of clearance to be in bond under customs manifest prepared by the railway company and signed by a customs officer.

Provision in regard to the allowance for grain doors supplied by shippers at and west of Port Arthur. Ont.

EASTERN RATES CASE.

What is commonly referred to as the Eastern Rates Case was an application of the Canadian Freight Association on behalf of the railway companies operating in Canada east of Port Arthur, Ont., and subject to the jurisdiction of the Board, for increased tolls on their freight traffle generally.

The application as filed shows that the following grounds were in the first instance relied upon in its support:—

- (a) It is in the interest of the country at large, as well as of the companies and their shareholders, that further revenues should be obtained from the carriage of freight traffic.
- (b) That the rate of return in net operating income upon the property investment of the companies has seriously declined.

- (c) That the principal cause of this decline is the steady and constant increases in operating expenses, due to matters of continuing character, such as wage increases, legislative requirements and the necessity of maintaining a higher standard of track, equipment and facilities generally.
- (d) That the return upon money invested in railway facilities in the territory in respect of which increases in rates are asked is unreasonably low and inadequate.
- (e) The effect of these factors is to seriously diminish the borrowing powers of the companies and compel the obtaining of necessary capital at much higher rates of interest, thereby increasing fixed charges which must be met out of the net earnings which have been decreased, and will in all likelihood be further decreased by the necessity of paying higher rates of interest on any moneys borrowed.
- (f) That in consequence of the exceptional conditions at present existing, various money markets previously open to the companies are now closed, the result being to very materially limit the sources from which money may be obtained.
- (g) That among other grounds the companies will urge as a reason for the proposed increases the fact that after a full hearing the Interstate Commerce Commission recently made an order increasing the rates in the Official Classification territory to the south, notwithstanding the fact that in the opinion of the applicants the conditions under which the companies were there operating were much more favourable than those which apply to the applicants.

The application was heard at sittings of the Board held at the following places and on the following dates:—

Ottawa, March 1, April 14, May 10, May 17, June 29 and 30, 1915. Montreal, March 18, 1915.

Toronto, March 29 and 31, 1915.

Hamilton, April 23 and 24, 1915.

A large number of boards of trade and shipping associations appeared on the application.

On the 9th June, 1916, the Board issued its judgment, dealing fully with the financial position of the companies and the enhanced cost of conducting transportation, and permitting certain increases in the freight rates on various commodities treated separately and "in extenso" in the judgment.

NANAIMO BOARD OF TRADE V. CANADIAN PACIFIC RAILWAY COMPANY.

If a carrier does not choose to meet water competition the Board's whole right to interfere with a toll is confined to a case where the toll charged is unreasonable for the service rendered. Therefore, where a carrier changes the route of its car ferry it is not an unjust discrimination for it to charge a reasonable toll for the rail haul necessitated instead of the former terminal toll only.

Plain Company v. Canadian Pacific Railway Company, 9 Can. Ry. Cas., 223. Canadian Railway Companies v. Grand Trunk, Canadian Pacific and Canadian Northern Railway Companies, 12 Can. Ry. Cas., 350. Blind River Board of Trade v. Grand Trunk, Canadian Pacific Railway, Northern Navigation, and Dominion Transportation companies. 15 Can. Ry. Cas., 146, p. 156 followed.

The facts are fully set out in the judgments of Chief Commissioner Drayton and

Commissioner McLean, March 16, 1916. 20 Can. Ry. Cas., p. 224.

HUNTING-MERRITT V. CANADIAN PACIFIC AND BRITISH COLUMBIA ELECTRIC RAILWAY COMPANIES,

A slightly higher toll basis not justifiable from branch and lateral line points but from adjacent main line points.

Almonte Knitting Company v. Canadian Pacific and Michigan Central Railroad Companies (Almonte Knitting Company Case), 3 Can. Ry. Cas., 441. Mulkin & Sons v. Grand Trunk Railway Company (Tan Bark Rates Case), 8 Can. Ry. Cas., 183. Oiler and Bridgeport Lumber Company v. Dominion Atlantic Railway Company, p. 238, followed.

The obligation of a carrier under section 317 is to supply cars according to their respective powers. Where a carrier is called upon to supply a car which is not carried on its equipment register it is within its powers to supply a car on its equipment register which is next available to the length asked for. When foreign cars of larger size than are carried on their equipment register are available carrier may furnish such cars but the Board has no jurisdiction to compel carrier to supply a larger form of foreign equipment.

The facts are fully set out in the judgment of Mr. Commissioner McLean, concurred in by the Chief Commissioner, March 28, 1916. 28 Can. Ry. Cas., 181.

MUNICIPALITY OF LASALLE V. CANADIAN PACIFIC AND NEW YORK CENTRAL RAILWAY COMPANIES.

Ordinary local trains should stop at stations where there is sufficient volume of traffic to call for additional train service, as the operating conditions and control of operations are entirely different and distinct from through express trains. It is no answer to such a claim that the existing service is unremunerative.

The facts are fully set out in the judgment of Chief Commissioner Drayton, April 7, 1916, 20 Can. Ry. Cas., 191.

GRIFFIN V. TORONTO EASTERN RAILWAY COMPANY.

Damages have never been allowed by the Board to an adjoining landowner for the construction of an electric railway along a highway. The Board dismissed the claim of the applicant for damages under section 235, alleging that his lands had been injuriously affected by the construction of an electric railway on the highway, made two years after the work was finished.

The facts are fully set out in the judgment of Chief Commissioner Drayton, April 12, 1916. 18 Can. Ry. Cas., 211.

REMY V. LAKE ERIE AND NORTHERN RAILWAY COMPANY,

The Board has no jurisdiction to grant damages for land injuriously affected by the construction of a railway on a highway where the applicant has signed an agreement releasing the railway company from such claims. Such a release must stand until set aside by a court of competent jurisdiction.

The facts are fully set out in the judgment of Chief Commissioner Drayton, April 13, 1916. 20 Can. Ry. Cas., 207.

LONDON AND LAKE ERIE RAILWAY COMPANY V. MICHIGAN CENTRAL AND LONDON AND PORT STANLEY RAILWAY COMPANIES.

The Board is not concerned with the disputes of rival railway companies if such are with the view that one desires to do business with another to the exclusion of a third, its only interest being that of the public in the transportation of passengers and freight. Under the special circumstances of this case the respondent Michigan

Central Railroad Company are obliged, under sections 217 and 334, to make reasonable traffic arrangements to enable the applicant to do business with it by issuing through joint tickets for the transportation of passengers.

The facts are fully set out in the judgment of Chief Commissioner Drayton, April

14, 1916. 20 Can. Ry. Cas., 195.

In re passenger tolls.

The Railway Act does not require carriers to meet short line competition if they do not desire to do so.

Edmonton Cloverbar Sand Company v. Grand Trunk Pacific Railway Company. 17 Can. Ry. Cas., 95, followed.

The facts are fully set out in the judgment of Mr. Commissioner McLean, April 19, 1916. 20 Can. Ry. Cas., 223.

TINKESS V. BELL TELEPHONE COMPANY,

Under 7 and 8 Edward VII, chapter 61, section 5, the Board has no jurisdiction to deal with the rearrangement of the respondent telephone service between different exchanges, the matter being one of internal management of its own business.

The facts are fully set out in the judgment of Mr. Commissioner McLean, April 19, 1916. 29 Can. Ry. Cas., 249.

MARITIME TELEGRAPH AND TELEPHONE CO. V. DOMINION ATLANTIC RAILWAY.

The practice of the Board has been to allow the right of way of railway companies to be crossed by the construction overhead or underground of lines of wires or water pipes or other pipes, without compensation. The Board's order merely creates an easement which can be cancelled or varied as occasion may require from time to time.

The facts are fully set out in the judgment of Mr. Commissioner McLean, May 3, 1916. 20 Can. Ry. Cas., 213.

CANADIAN NORTHERN ONTARIO RAILWAY COMPANY V. CANADIAN PACIFIC RAILWAY COMPANY.

Public interest, economy of movement to shippers and convenience must be established before the Board will grant one carrier interchange traffic facilities with another. No carrier is entitled to such facilities as of right. The property and advantages of one carrier should not be interfered with for the benefit of another; but objections by a carrier on the ground that the other carrier will thereby obtain a great advantage at its expense will be overruled in the interest of the public.

The facts are fully set out in the judgment of Chief Commissioner Drayton, June

9, 1916. 20 Can. Ry. Cas., 200.

BELL TELEPHONE COMPANY V. FALKIRK TELEPHONE COMPANY.

The Board is not given any power under 7-8 Edward VII, chap. 61, to direct that local telephone service shall be given to an applicant who is not a subscriber of a company subject to its jurisdiction, and therefore has no jurisdiction over the switching connected therewith.

The facts are fullly set out in the judgment of Mr. Commissioner McLean, June 20, 1916. 20 Can. Ry. Cas. 256.

COLEMAN V. TORONTO AND MAGARA POWER COMPANY.

Under section 247 the Board has no jurisdiction to authorize a highway to be constructed under the wires of a power company.

The facts are fullly set out in the judgment of Assistant Chief Commissioner Scott, October 14, 1916. 20 Can. Ry. Cas. 258.

MOODIE V. CANADIAN PACIFIC RAILWAY COMPANY.

The Board will recognize the public necessity for a highway crossing over a railway especially at or near a point where for a long period the railway company has allowed the public the use of such crossing, and it will order the railway company to make the crossing conform to its Standard Regulations Affecting Highway Crossings as amended May 4, 1910. The Board is not called upon to deal with the question of encroachment by a railway company upon the highway.

Village of Weston v. Canadian Pacific and Grand Trunk Railway Companies

(Dennison Avenue Crossing Case No. 593) 7 Can. Ry. Cas. 79 followed.

The facts are fully set out in the judgment of Mr. Commissioner Goodeve, October 19, 1916. 20 Can. Ry. Cas. 217.

BOWLBY V. HALIFAX AND SOUTHWESTERN RAILWAY COMPANY.

It is in the carrier's discretion whether it will meet water competition and it is not the privilege of the shipper to demand less than normal tolls because of such competition which the carrier in its own interest does not choose to meet.

Plain v. Canadian Pacific Railway Company, 9 Can. Ry. Cas. 222, at p. 223. Blind River Board of Trade v. Grand Trunk, Canadian Pacific Railway, Northern Navigation and Dominion Transportation Companies, 15 Can. Ry. Cas. 146 followed. Where the carrier is subject to effective water competition in a varying degree and also to potential water competition it is in its discretion whether it shall meet it and the fact that it has met the competition at one point does not place it under any obligation to meet it at another point, nor is the toll as it is put in to meet such competition to one point a necessary measure of the toll to another.

Dominion Millers' Association v. Grand Trunk and Canadian Railway Companies, 12 Can. Ry. Cas. 363, at p. 368. In re Western tolls (Western Tolls Case)

17 Can. Ry. Cas. 123, at pp. 161, 162 followed.

The facts are fully set out in the judgment of Mr. Commissioner McLean, October 18, 1916. 20 Can. Ry. Cas. 231.

CITY OF BRANTFORD V. GRAND TRUNK RAILWAY COMPANY.

The senior and junior rule which is sometimes applied by the Board when determining who should pay the cost of the crossing of one railway over another should not be applied where a highway is crossed by a railway as the municipality being the owner of the street and not being the owner of the street railway should not be considered junior to the steam railway company and the costs of protecting the crossing should be apportioned equally between them.

The facts are fully set out in the judgment of Assistant Chief Commissioner

Scott, November 2, 1916. 20 Can. Ry. Cas. 166.

MUNICIPALITY OF SASMAN V. CANADIAN NORTHERN RAILWAY COMPANY.

In applying the senior and junior rule between railway companies the construction of the crossing and not approval of the location gives priority, but between municipalities and railway companies that principle cannot be applied. When it is sought to cross a railway by a highway where a road allowance previously existed, then no matter how long the railway may have been constructed it is considered to be junior and the railway company should install and maintain the necessary crossing.

Canadian Northern Railway Company v. Canadian Pacific Railway Company (Kaiser Crossing Case) 7 Can. Ry. Cas. 297. Canadian Northern Railway Company

v. Canadian Pacific Railway Company. 11 Can. Ry. Cas 432 followed.

Where there is no road allowance, and the municipality desires to use the land of the railway company upon which to construct a highway, the entire cost of the highway improvements will be borne by the applicant.

Township of Gloucester v. Canada Atlantic Railway Company. 3 O.L.R. 85. 1 Can. Ry. Cas. 327 followed.

The facts are fullly set out in the judgment of Chief Commissioner Drayton, December 1, 1916. 20 Can. Ry. Cas. 246.

APPEALS FROM DECISIONS OF THE BOARD.

For the year ending March 31, 1917, there were two appeals made to the Governor in Council from the decisions of the Board.

One of these appeals, that of the Canadian Pacific Railway Company from three orders of the Board, dated May 31, 1912, dismissing the application of the company to construct a spur from a point on the Toronto to London line of the company to connect with the Toronto to Owen Sound line of the company, and to cross certain highways and the line of the Grand Trunk Railway Company, was referred back to the Board for a reconsideration of the original application, which is still pending.

The other appeal, that of the Canadian Pacific Railway Company from an order of the Board, dated June 9, 1916, directing that independently of the General Interswitching Order and pending the adjustment of the entire switching question before the Board, the toll of the Canadian Pacific Railway Company for switching live stock from its connection with the Canadian Northern Railway at Montreal to the Eastend Cattle Market there, should be \$5 per car, and that the company accept such traffic from the Canadian Northern Railway Company and resume the necessary switching service over its line to the Eastend Cattle Market at the toll provided. This appeal is still pending.

There were no appeals from the decisions of the Board to the Supreme Court of Canada during the above period.

 Λ list of the appeals from the Board's decisions to the Supreme Court of Canada, since its inception, will be found under Appendix "E" of this report.

ORDERS, GENERAL ORDERS, AND CIRCULARS.

The total number of orders issued for the year ending March 31, 1917, was 1065. The number of general circulars issued by the Board, directed to all railway companies subject to its jurisdiction, for the year was twenty-two. The general orders, as distinguished from other orders issued by the Board, are those affecting all railway companies subject to the Board's jurisdiction. It will be noted that the number of general orders issued by the Board for the year ending March 31, 1917, was twenty-two, as compared with twelve for the previous year.

A list of the general orders and circulars for the year ending March 31, 1917, will be found compiled under Appendix "F" to this report.

JUDGMENTS OF THE BOARD.

The principal judgments of the Board delivered between the 1st of April, 1916, and the 31st of March, 1917, will be found under Appendix "A."

APPLICATIONS TO THE BOARD.

The total number of applications, including informal complaints made to the Board, for the year ending March 31, 1917, was 3,320. At page 16 will be found a table classifying the applications and complaints made to the Board under the various sections of the Railway Act.

TRAFFIC DEPARTMENT OF THE BOARD.

In the Traffic Department of the Board the number of tariffs received and filed for the year ending March 31, 1917, were as follows:—

Freight tariffs including supplements	50,480
Passenger tariffs including supplements	12,349
Express tariffs including supplements	2,232
Telephone tariffs including supplements	2,270
Sleeping and parlour car tariffs including supplements	233
Telegraph tariffs and supplements	64

This makes a total of 67,628 for the year, as compared with a previous total for the year ending March 31, 1916, of 92,017. The total number of tariffs filed from February 1, 1904, to March 31, 1917, was 720,600.

The details in regard to the tariffs will be found under Appendix "B" to this report.

ENGINEERING DEPARTMENT OF THE BOARD.

In the Engineering Department of the Board a large number of inspections were made covering the whole Dominion. These inspections for the year ending March 31, 1917, number 238, and cover inspections for the opening of a railway for the carriage of traffic, pursuant to the requirements of section 261 of the Railway Act, inspections of culverts, highway crossings, cattle guards, road crossings, bridges, subways, and general inspections falling within the scope of the work of the Engineering Department of the Board.

OPERATING DEPARTMENT OF THE BOARD.

Under the work of this department is included the inspection of locomotive boilers and their appurtenances, the inspection of safety appliances on ears and locomotives, the investigations into accidents causing personal injury or loss of life, the reporting on the locations of stations, matters of protection at highway crossings, and train and station service performed by the railway companies.

Under Appendix "C" will be found a full and detailed report of the Chief Operating Officer of the department.

ACCIDENTS AND ACCIDENT INVESTIGATIONS.

On reference to the report of the Board's Chief Operating Officer it will be seen from the comparative statement of killed and injured that the number of accidents among passengers carried and railway employees, as compared with the previous year 1915-16, shows a marked increase; but with regard to trespassers a decrease. The figures given show that the number of passengers killed and injured for the year ending March 31, 1916, was 157, and for the year ending March 31, 1917, 296, an increase of 138. The total number of employees killed and injured for the year 1915-16 was 908, and for the year 1916-17, 1,329, an increase of 421. In this connection it will be noted by reference to the table given below, that the total number of passengers earried on railways shows a marked increase, and the number of employees with railways also a marked increase, and these facts must be taken in connection with the increase in the total number of killed and injured.

Attention is again directed to the comparative statements of the Chief Operating Officer, setting out in detail the situation as regards highway-crossing accidents during the past five years, and it will be observed therefrom that there has been a total of 556

accidents, covering 252 persons killed and 477 persons injured. There have been 151 accidents at protected crossings covering 66 persons killed and 122 persons injured, and at unprotected crossings there have been 415 accidents covering 186 killed and 355 injured.

In the year 1916-17 there were 36 automobile accidents at highway crossings, in which 20 persons were killed and 54 injured. Twenty-nine of these accidents occurred at unprotected highway crossings, when 14 persons were killed and 46 injured. These figures show a very considerable increase over the automobile accidents for the year 1915-16, in which only 6 persons were killed and 4 injured, and the Board is taking steps as to ascertaining what is the best method of protection at highway crossings where the same are used extensively by automobiles.

As has been previously stated there are a good many instances where the public disregard is evidenced in regard to protective appliances, by persons erawling under gates or going around them, or endeavouring to cross railway tracks in disregard of the alarm given by automatic signal bells.

The following is a table giving comparisons between the total number of passengers carried by the railway companies, the number of passengers killed and injured, and the same information as to employees, and as to trespassers, showing the number of trespassers killed and the relative percentage thereof to the total number of persons killed for the year. The figures giving the total number of passengers and employees carried are for the year ending June 30, 1916, the last figures available, and are taken from the railway statistics of the Dominion of Canada, published by the Department of Railways and Canals:—

Passengers—			
Number of	passengers	carried on railways	49,027,671
**	4+	killed	
4.6	4.4	injured	
Employees-			
Number of	employees	with railways	144,770
**	**	killed	155
4.4	4.6	injured	1,174
Trespassers—			
Number of	trespassers	s killed	129
43 per cent	of trespas	sers killed to total of 300.	

It will be noted that of what may be termed preventable loss there were 129 killed under the heading of trespassers, and 79 injured. This is a reduction of 14 in the number killed, and 23 in the number injured, from the year 1915-16.

The following table shows the totals by provinces as regards trespassers killed and injured for the year ending March 31, 1917:—

Province—	Killed.	Injured.
Ontario	7.0	54
Quebec	31	10
Manitoba	5	5
Saskatchewan	10	2
Alberta	2	3
British Columbia	7	2
Nova Scotia	3	2
New Brunswick	1	1
Yukon		_
	129	79

FIRE INSPECTION DEPARTMENT OF THE BOARD.

The railway fire inspection work has been carried on, as in former years, in co-operation with the various Dominion and provincial fire-protective organizations. During the past year seventy-three employees of such organizations were under appointment as local officers of the Board, in connection with the administration of the various regulations contained in General Order No. 107.

Letters prescribing special fire patrols in forest sections were issued to the following railway companies: Algoma Central and Hudson Bay, Esquimalt and Nanaimo, Canadian Northern, Canadian Pacific, Edmonton, Dunvegan, and British Columbia, Grand Trunk, Grand Trunk Pacific, Great Northern, Kettle Valley, Temiscouata, Victoria and Sidney, Western Canada Power. Supplementing the special patrol measures, instructions relative to the reporting and extinguishing of fires have been issued by the various railway companies to all their regular employees, with excellent results.

The fire-guard requirements for 1916 were identical with those prescribed for 1915, and were issued to the Canadian Pacific, Canadian Northern, Edmonton, Dunvegan, and British Columbia, Grand Trunk Pacific, and Great Northern railways. During the season a total of 11,398-60 miles of fire-guards were constructed in the Prairie Provinces, under the requirements prescribed by the chief fire inspector.

In forest sections, 388 fires were reported as being directly attributable to railway causes, out of a total of 558 fires originating within 300 feet of the track, along lines subject to the Board's jurisdiction. This is a decrease of 128 fires from the figures for 1915. The fires definitely attributable to railway causes thus represent 69 per cent of the total, 18 per cent being ascribed to known causes other than railways, and 13 per cent to unknown causes. Of the 388 fires chargeable to railway causes, 101 fires, or 25 per cent, are incipient fires which did no damage; 287 fires, or 74 per cent, are larger fires which burned over 11,285 acres valued at \$35,559. The total damage from all fires is estimated at \$39.471. Of this, the railways are charged with 90 per cent, known causes other than railway fires 8 per cent, and unknown fires 2 per cent. Thus, on all lines subject to the jurisdiction of the Board throughout Canada, the fires in forest sections definitely attributable to railway agencies did damage amounting to only \$35,559-a remarkably good showing, considering the unfavourable weather conditions, and one which reflects great credit upon the railways concerned. Various tables showing forest fire statistics will be found in the report of the Fire Inspection Department, Appendix "D."

ROUTINE WORK OF THE BOARD.

RECORD DEPARTMENT.

Since the publication of the last annual report there has been no change in connection with the clerical staff of this department.

Below is given a table setting forth the number of applications, filings and letters received during the year ending March 31, 1917, together with the number of orders issued:—

Number of	applications made	3,320
44	filings received during the year	3,131
**	out-going letters during the year	30,270
44	orders issued during the year	1,065

HONOUR ROLL.

The following members of the Board's staff have volunteered and are on active service in France with the Canadian Overseas Expeditionary Forces:—

E. E. Nelson, Private, 11th Battalion.

W. Downes, Corporal, 25th Battalion, C.F.A.

T. E. Dunsmore, Private, 38th Battalion.

E. W. Wadsworth, Sergeant, 207th Battalion.

R. Harvey, Private, 207th Battalion.

L. Bourgault, Private, Heavy Siege Artillery.

The vacancies in the Board's staff created by the enlistment of the members above referred to have not been filled.

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E. W. Wadsworth, Sergeant, 207th Battalion.

R. Harvey, Private, 207th Battalion.

L. Bourgault, Private, Heavy Siege Artillery.

The vacancies in the Board's staff created by the enlistment of the members above referred to have not been filled.

8 GEORGE V, A. 1918

Statement showing applications made to the Board under the various sections of the Railway Act, for the fiscal year ending March 31st, 1917.

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APPENDIX "A"

COMPLAINT OF THE DOMINION MILLERS' ASSOCIATION re INCREASE IN MINIMUM WEIGHTS ON GRAIN AND GRAIN PRODUCTS.

Complaint was made regarding the increase in minimum weights on grain and grain products. The existing minimum weights were 35,000 pounds for oats and buckwheat, 40,000 pounds for barley, shelled corn, Kaffir corn, pearl barley, whole peas, pot barley, rye and wheat. It was proposed in the case of the 60,000 to 70,000-pound capacity cars to increase the minimum of peas to 51,000 pounds, of shelled corn and Kaffir corn to 56,000, and in the other items already referred to, to 60,000.

The same provision was made in the case of \$0.000-pound capacity cars, while, in the case of 100,000-pound capacity cars, increases running up to \$0,000 pounds were provided.

The objections were, first, to the increase in the grain weights and, secondly, to the increase in the weight of flour and other grain products. It was not contended that the minimum weight of the proposed tariffs could not be loaded into the cars, but it was stated that the conditions in connection with labour, cost, trimming of cars, and handling of grain to and from warehouses in Western Ontario rendered it difficult to obtain the loading called for. In general, stress was laid upon the established commercial conditions. The objection advanced against the increase in weights on flour and other grain products was that commercial conditions were adjusted to the existing minimum weights, and that increased minimum weights would render the financing of the car movements more difficult, and in some cases impossible.

The Board held as follows:—

But the physical capacity is, as has been recognized in the way the weights on flour and other grain products have been worked out as explained by Mr. Tilston in his evidence, not the sole criterion. The railways, in the tariffs which they now seek to amend, have also given weight to difference in condition as one factor to be considered. In the amending tariffs, they also, by difference in minimum weights on grain in different sections, recognize differences in condition as a factor to be considered. The Board has recognized, in matters of classification and of rates, that established trade conditions or obligations, while not of necessity conclusive obstacles in the way of change, must be considered.

No general rule can be laid down. Each case must be looked into on its merits. It is a question of judgment what is a fair mean between the physical carrying power of the car, and the public interest as affected thereby, and the conditions under which business is carried on.

Having due regard to the contentions advanced, there has been a case made out for increase in weights but not to the full extent proposed by the tariffs.

The increases on grain products, other than flour, are justified. In the case of flour, an increase to 45,000 pounds is justified in the case of cars of 60,000 and 70,000 pounds capacity. The minimum weights as proposed in the tariffs are justified for the larger cars.

The tariffs carry provision for minimum weights in cars of 100,000 pounds capacity, the minimum weights of grain being as already stated. In the case of grain products, 60,000 pounds is called for in 100,000-pound car; malt, 54,000 pounds; flour, 70,000 pounds.

Objection was taken to these weights being carried in the tariff as it was pointed out that the 100,000-pound car was not being built by the Canadian Pacific and the Grand Trunk, and it was not established that these railways intended to build such a type of car. The only railway which was referred to in evidence as constructing

them was the Canadian Government Railway system. It was apparently feared that the Canadian Pacific or the Grand Trunk by supplying such a car to a shipper would

unduly penalize him by requiring a heavier loading.

The Board has already held in the Complaint of the Kootenay Shingle Company, Limited, v. Great Northern Ry., File 26018, decided October 19, 1915, that where a railway carries on its equipment register the type of car asked for, and has for its own convenience furnished a larger car, then the minimum of the car asked for shall apply. The same rule applies here. If a shipper is desirous of using the 60,000 or 70,000-pound car and asks for such car and the railway supplies him with the larger car, then the minimum of the smaller capacity car as asked for will apply, assuming, of course, that the actual loading does not exceed the maximum for the type of car ordered.

The following notation is carried on C.P.R. tariff C.R.C. No. E-2907, C.R.C. No. E-2715, C.R.C. No. E-3120, and C.R.C. No. E-2480; "Mixed carloads—on mixed

carloads the highest rate and highest minimum carload weight will apply."

Mr. Watts, in a communication on file, desires this notation to be considered.

The notation which the tariffs, which it is not proposed to amend, carried was—"Mixed carloads will be charged at the minimum weight for the commodity in the mixed car taking the highest minimum weight." This notation, however, did not appear on the tariff relating to ex-lake traffic.

Rule 2 of the classification provides "When articles under one distinctive heading are of the same class in carloads, the carload rating and highest minimum weight for

such class will apply."

The notation as carried in the proposed amended tariffs is thus in accordance with the classification. Since the classification governs, it is in reality not necessary to carry the notation on the tariffs. The rates have been checked and it appears that the various commodities are carried at the same rates between the same points.

The increased minimum weights found justifiable in the case of flour shall not become operative until the amended minimum weight in the case of the 60,000-pound and 70,000-pound car is covered by tariff; and the increased minimum weights on grain products, other than flour, are not to become operative until the amended minimum weights on flour become operative.

The facts are fully set out in the judgment of Mr. Commissioner McLean, dated March 30, 1917, concurred in by Assistant Chief Commissioner Scott and Mr. Com-

missioner Goodeve.

APPLICATION OF THE CANADIAN PACIFIC RAILWAY COMPANY FOR AN ORDER DIRECTING THE GRAND TRUNK PACIFIC RAILWAY COMPANY TO BEAR A PORTION OF THE COST OF LAND ACQUIRED FROM THE NATURAL RESOURCES DEPARTMENT OF THE C. P. R. CO., FOR THE CONSTRUCTION OF TRANSFER TRACK BETWEEN THE C. P. R. CO., AND THE G. T. P. R. CO., AT FROBISHER, SASK.

Judgment of Commissioner Goodeve, dated March 29, 1917.

This case was heard at Winnipeg, June 12, 1916, when judgment was reserved.

While the amount involved is a very nominal one, the principle to be decided is extremely important, particularly to the C. P. R. in view of the large amount of land held in the company's name, but not used, or contemplated as being used, for railway purposes. The argument of the C. P. R. Company, being that the land in question had never been regarded as land held for railway purposes, or shown within the limits of its right of way and, therefore, section 176 of the Act did not apply, but that it should be treated in all respects as if owned by private or third parties. The reply of the G. T. P. R. Company being that this should not be distinguished from the Orillia case.

It was shown at the hearing, and an examination of the Orillia case discloses, that the point involved is quite distinct from that in the Orillia case. In the latter the land in dispute was shown clearly to be used for railway purposes, and as part of

the right of way of the Grand Trunk Railway.

It was held that lands owned by a railway company which were not physically a part of the railway undertaking, or bought or obtained for railway purposes, and were not put to any railway use, should not come under section 176 of the Railway Act, but should be dealt with in the same manner as lands of private individuals and under clauses of the Act covering the expropriation of the same.

Upon these grounds the G. T. P. R. Company was ordered to pay its proportion of

the cost of the land involved.

Re increase in lake and rail rates from stations in eastern canada to fort william and other lake points.

This matter came before the Board for consideration upon the protest of the Montreal Board of Trade against the tariffs filed by the railway companies increasing lake and rail rates on sugar to Fort William and other lake points. The railway companies were called upon by the Board to justify the proposed increases and the matter came before the Board for hearing at a sittings held in Ottawa on the 20th March, 1917, at which the parties immediately interested were represented.

It transpired at the hearing that a number of other commodity rates, as well as class rates, were in the same position as the sugar rates; that, therefore, whatever justification there might be for increasing sugar rates would apply to the other rates

covered by the same tariffs.

Held that the Board has no jurisdiction over the rates charged or the division of lake and rail rates demanded by the different steamship companies operating boats on the St. Lawrence or the Great Lakes, other than the rates on the steamers operated by the C. P. R. Held also that the rail portion of the proposed rates would not appear to be excessive when compared with the local rail rates between the same points. Held also that the railway companies might in their discretion meet water competition if they saw fit to do so, and might also determine the extent to which they should meet it, and that the Board, therefore, could not interfere with the tariffs filed.

The facts are fully set out in the judgment of Assistant Chief Commissioner Scott, dated March 29, 1917, concurred in by Mr. Commissioner McLean and Mr. Com-

misioner Goodeve.

Re MAXIMUM LENGTH OF TRAINS ON CANADIAN RAILWAYS,

It was pointed out that under existing financial conditions and inadequate supply of rolling stock, and the importance of having as great as possible a movement of freight, the Board was not justified in making any direction in the matter. It was further set out that with the termination of the war and the getting back to more normal conditions, the matter would be gone into fully on its merits.

The facts are fully set out in the judgment of Mr. Commissioner McLean, dated March 24, 1917, concurred in by Chief Commissioner Drayton, Assistant Chief Com-

missioner Scott and Mr. Commissioner Goodeve.

Re complaint of Western canada flour mills company, ltd., goderich, ont., re stopoff charge of two cents.

The applicant flour mills company receives its grain by lake from the west, and as there is no rail-haul in, there is no milling-in-transit rate out. The matter was before the Board in 1908. It was then pointed out that, under the existing tariff, on the mileage from Goderich to Montreal, the rate properly applicable would be 15 cents. The railway had applied a rate of 12 cents, and the Board directed that this should be continued, the matter having been put upon a commodity-rate basis.

The present complaint was based on the allegation that there was, in fact, included in the 12-cent rate, as charged, a 2-cent charge for the milling-in-transit service, which was not performed, and that, therefore, the rate should be reduced to 10 cents.

The Board held that the commodity-rate basis of 12 cents as put in it did not consider that a specific portion of it, viz., 2 cents, was earmarked for such a stop-off arrangement as would apply under the milling-in-transit. It recognized that ordinarily a 15-cent rate to Montreal would apply, and that what had been given was a commodity-rate basis which it was held it was not justified in disturbing.

The facts are fully set out in the judgment of Mr. Commissioner McLean, dated

March 21, 1917, concurred in by the Chief Commissioner.

Re lake and rail rates, toronto to western points, via canadian northern Ry.

Complaint having been made to the Board by Mr. John P. H. Stevenson, customs broker, of Toronto, that while the Canadian Northern Railway Company has lake-and-rail rates from Orono and Yarker, non-competitive points on the C.N.R. east of Toronto via lake boats from Toronto to Port Arthur thence C.N.R. to western points, the company's eastern lines' Lake-and-rail Tariff C.R.C. No. E. 771, does not show any rates from Toronto, the point where the lake movement begins.

Held that the long and short haul clause, subsection 3 of section 326, applies in this case, and that the through rates from Toronto cannot be greater than the through

rates from Orono, Yarker, and other C.N.R. points east via Toronto.

The facts are fully set out in the judgment of Assistant Chief Commissioner Scott, dated February 26, 1917, concurred in by Mr. Commissioner McLean.

Re cost of maintenance of birch avenue subway, toronto, hamilton and buffalo Ry., Hamilton, ont.

By Order No. 15090, dated October 11, 1911, as amended by Order No. 19945, dated August 2, 1913, the city of Hamilton was authorized to construct a subway under the tracks of the Toronto, Hamilton and Buffalo Railway, to extend Birch avenue in a northerly direction.

The Board directed that an Order should go that the subway be maintained by

the city.

The facts are fully set out in the judgment of Assistant Chief Commissioner Scott, dated February 26, 1917, concurred in by Mr. Commissioner McLean.

Re complaint of the vancouver board of trade against increase in freight rates on canned goods and hardware consigned to points on the pacific coast.

Suspension of the tariff was asked for by the Vancouver Board of Trade. In order to have suspension of a tariff, a prima facie case has to be established and the Board's regulations set out what is necessary in this connection. Protests were also received from other parties.

Upon consideration of the matter, the Board held as follows:—

It appears that the Interstate Commerce Commission has found, 40 I.C.C. 35, June 5, 1916, that water competition via the Panama Canal is less effective. It has said, *Ibid*, p. 38:—

"The result of all the evidence offered was to show that there is not at this time any effective competition between the two coasts, and that there is little likelihood of any material competition by water during the present calendar year, irrespective of the action the Commission may take with respect to these petitions".

It was found as a fact, at p. 39:—

"As the situation now stands, however, the rail rates on all these schedule "C" commodities from eastern defined territories to Pacific Coast terminals are lower than the present conditions warrant, while at the same time higher rates are applied at intermediate points".

Canned goods and hardware are included in schedule "C" referred to.

Following this decision, the rates from eastern defined territories to Pacific Coast terminals were increased.

Following the decision of the Interstate Commerce Commission, 32 I.C.C., 611, January 29, 1915, reduced rates were put in on August 15, 1915, from Chicago by the American railways, the reduction on canned goods, for example, being 15 cents. The reduction was found, by the Interstate Commerce Commission, justified by water competition. Following this, the Canadian rates were, on December 18, 1915, reduced by 10 cents.

Effective December 30, 1916, rates from Chicago were, in general, increased 10 cents on carloads. This, as has been indicated, following a finding that water com-

petition to the coast was less effective.

The Canadian rates to which exception is taken are 10 cents increases over those put in December 18, 1915. The situation turns on the question of water competition, which the Canadian railways met in a measure when the competition was more effective, and which they now meet in less degree when the same competition is less effective. This is not contrary to the Railway Act.

A prima facie case for suspension has not been made out.

The facts are fully set out in the judgment of Mr. Commissioner McLean, dated February 9, 1917, concurred in by Chief Commissioner Drayton.

Re application for an order granting the grand trunk railway company authority to make a refund of freight charges from Midland, ont., to cleveland, ohio.

What is involved is a question of discrimination in rates on lumber from Penetang to Cleveland, as compared with rates from Midland to Cleveland.

It was alleged by the railway that this was justified on the basis of water competition. An analysis of the tariffs was made, pointing out to what extent rates in the territory in question to points in the United States had been grouped. The following statement was made by the Board:—

Examples of the rate practice as to inland points have been given. Kalamazoo, Michigan, Johnstown, Penn., may also be mentioned as inland points to which the rates from Meaford and Penetang are the same. An examination of the rate structure shows that this is the case as to normal rates to all United States territory covered by the tariff.

The Grand Trunk by its tariff C.R.C. No. 56, effective November 15, 1899, carried a rate of 10 cents from the Penetang-Meaford group to Black Rock, while from the Huntsville group the rate was 1 cent over this. Huntsville is 93 miles from Midland and 44 miles longer haul to Black Rock. This difference has been carried through various tariffs on file, and it appears that the companies have established a rate from Huntsville to Cleveland by adding to the Penetang rate the difference existing in the rates to Black Rock.

The rates from Huntsville, North Bay, and Whitney have been built up regardless of whether the shipping point was subject to water competition or not. Huntsville, 84 miles from Allandale, has been put 1 cent over Penetang, 39 miles from Allandale. North Bay and Whitney are 4.7 cents over Penetang; that is to say, that their added distance of 125 miles, as compared with the Midland added distance of 0.3 miles, represents a rate difference of 1.6 cent.

The ton-mile and car-mile earnings on the rates as charged for the points referred to may be compared:—

	To Cleveland.	Miles.	Rate.	Ton-mile rate.	Car-mile earnings on 34,000 lb. minimum.
From	Penetang	378.1	16.3	.862c.	14.66c.
6.6	Midland	378.4	19.4	1.025c.	17.43c.
6.6	Huntsville	422.5	17.3	.819c.	13.92c.
44	Whitney	504.9	21.0	.832c.	14.14c.
**	North Bay	503.5	21.0	.834c.	14.18c.

With due regard to the grouping arrangements that have been utilized in connection with the movement of this business and the respective earnings as indicated.

the rate adjustment from Midland to Cleveland is unjustly discriminatory to the extent that it exceeds the rate of 16·3 cents as charged from Penetang, and should be adjusted to the same basis.

The facts are fully set out in the judgment of Mr. Commissioner McLean, dated February 5, 1917, concurred in by Assistant Chief Commissioner Scott and Mr. Com-

missioner Goodeve.

APPLICATION OF THE SHINGLE AGENCY OF BRITISH COLUMBIA FOR STOP-OVER PRIVILEGE.

Judgment of Commissioner Goodeve, dated January 26, 1917, concurred in by

Chief Commissioner Drayton and Commissioner McLean.

This matter was first brought to the attention of the Board by letter dated June 23, 1916, addressed to Sir Henry Drayton as Chairman of the Railway Commission, by Mr. Hyde, Secretary of the above agency, in which he asked for "the privilege of a Milling-and-sorting-in-transit rate." It was set down for hearing on Monday, the 26th day of June, at Vancouver, when Mr. Hyde appeared in person for the applicants.

It developed at the hearing that the application was not really for a shingle milling-and-sorting-in-transit rate but an application to include the consolidation of shingles and lumber to be supplied from different mills in a mixed carload and shipped

under a single carload commodity rate.

The applicant based his claim for consideration on the ground that the Great Northern Railway Company, operating in this district had a tariff allowing this privilege, but it was pointed out by the Chairman of the Board that unless discrimination was proven this would not give the Board jurisdiction to make the Order asked for.

No discrimination having been proven, the application was refused.

Re complaint of munitions and Machinery, Limited, Sorel, que., regarding demand of the quebec, montreal and southern Ry. co. for an additional $2\frac{1}{2}$ cents per 100 pounds on shell shipments sorel to montreal, account of the imperial munitions board.

A rate of 11½ cents from Sorel to Montreal was quoted. It was contended by the applicant that the rate in question was to meet the rate of a water carrier. The railway contended that the rate was simply for local delivery in Montreal, and that the addition of 2½ cents per 100 pounds was properly chargeable to cover terminals and export business at Montreal.

The Board held:—

As part of the tariff record, it is stated that, effective October 21, 1916, by Supplement 1 to Tariff C.R.C. 580, the Quebec, Montreal and Southern Railway Company agreed with the Grand Trunk Railway Company to absorb the terminal charge on shipments of shell forgings from October 21, 1916, to November 25, 1916; but that it was not intended that this should be applied to shipments made previous to October 21.

Reference was made by the railways to the value of the forging. This does not appear to be material, as it does not appear that this was a matter discussed in the preliminary negotiations. It is stated by the railway that in putting in the tariff of October 21, the representative of Munitions and Machinery, Limited, agreed that if the absorption was made effective from October 21 to November 25 he would not take it as establishing a precedent, either on account of shipments made previous to October 21 or on shipments that might be made during 1917.

In the reply of Munitions and Machinery, Limited, it is stated that when they were solicited for the traffic in the first instance no question was raised as to whether the traffic was for local or export movement; and it was stated, which is, of course patent, that everybody knew where the shells were going. It is further stated that the railway's statement that the tariff supplement, which has just been referred to, was one which the applicants agreed would not be used as a precedent sets out a state-

ment of fact which was in no way discussed between the applicant and the representative of the railway.

The history leading up to the issuance of the tariff has been set out. The question is, what does the tariff say! Λ tariff is not to be interpreted by understandings. It should bear on its face exactly what it covers and to what traffic it is applicable. Aside from Tariff C.R.C. No. 580, there was no other tariff in force from Sorel to Montreal covering this traffic, except a class tariff. The tariff issued to meet—to quote its own statement—water competition, did not limit the movement. It was open under this tariff either to have a movement local to Montreal or to shipside at Montreal for export; either movement was, under tariff, covered by the 11½-cent rate; and the rate so provided for is the sole legal rate which the railway has authority, under the Railway Act, to collect.

The facts are fully set out in the judgment of Mr. Commissioner McLean, dated January 25, 1917, concurred in by Assistant Chief Commissioner Scott and Mr. Commissioner Goodeve.

Re application of the grand trunk pacific railway co. regarding apportionment of COST OF TRANSFER TRACK, CALGARY, ALTA.

On an analysis of the traffic concerned and the consideration of the general practice of the Board whereunder the junior road diverting traffic from an older line is required to bear the cost of the establishment of an interchange, the cost of maintenance for the interchange in question was placed upon the Grand Trunk Pacific.

The facts are fully set out in the judgment of Mr. Commissioner McLean, dated the 23rd January, 1917, concurred in by Chief Commissioner Drayton, Assistant Chief Commissioner Scott and Mr. Commissioner Goodeve.

Re application of the general traffic service co., of chicago, ill., on behalf of the WOODS MOBILETTE CO. REGARDING COMBINATION OF RATES ON AUTOMOBILES AND PARTS MOVING FROM WINNIPEG, MAN, TO HARVEY, ILL.

The question here involved in the matter of possible existing rate combinations

being used to defeat legally-filed and published through rates.

It was held that the Board has ruled, in dealing with a situation arising in Canada, that it is a fundamental proposition, under the policy outlined by the Railway Act, that when a rate, whether joint, or whether limited to points situated on one line of railway alone, has gone into force in conformity with the provisions of the Railway Act, it is the only legal rate in respect of the traffic mentioned and from the points mentioned. In the matter of Through Rates vs. Combination of Locals, File 9754. Reference may also be made to re Through rates on lumber exceeding the sum of the locals, File 24647; and Complaint of F. L. Getzler re through rates on pig-iron, Welland to Montreal, exceeding the combination of class and commodity rates. File 26848.

The route from Winnipeg to St. Paul is continuous. A joint tariff of 85 cents has been filed; such filing is in compliance with the Statute. It is in effect contended that the route can be made discontinuous and a combination of rates substituted for the through rate filed. This is not permitted by the statute, and the Board, therefore, has no authority to sanction the adjustment asked for.

The facts are fully set out in the judgment of Mr. Commissioner McLean, dated January 22, 1917, concurred in by Assistant Chief Commissioner Scott and Deputy Chief Commissioner Nantel.

HARRIS AND ATWOOD vs. CANADIAN NORTHERN RAILWAY, FILE NO. 27403.

The applicants applied for a farm crossing over the tracks of the railway company. No objection was made to the crossing by the company provided that the cost of construction and maintenance be placed upon the applicants. Submission of the railway company was that the conveyance of the property to it contained no reservation for a crossing and that, therefore, its statutory obligation to construct the crossing at its own expense was discharged.

Held Chief Commissioner (January 20, 1917) that while the owner by agreement can extinguish the right of crossing, the statutory right is not discharged by implication, and that notwithstanding the fact that conveyances of railway right of way for valuable consideration cover the value to the right of a farm crossing as well as to the value of the land required, such conveyances do not extinguish the owner's right to his crossing under section 252 of the Act. There must be an express extinguishment either by the conveyance of the right of way itself or by a sufficient agreement otherwise evidenced.

Order for crossing at the company's expense granted. Assistant Chief Commissioner Scott, Doputy Chief Commissioner Nantel, Commissioners McLean and Goodeve concurred.

Re complaints of Messrs. Hay & Co., Ltd., woodstock, ont., and J. H. Still Manufacturing Co., Ltd., St. Thomas, ont., regarding increased minimum weights of flat cars on logs for manufacturing purposes.

The increase in the minimum weights of logs on 36-foot flat cars for manufacturing purposes from 35,000 pounds to 50,000 pounds was objected to. It was claimed that it was practically impossible to get the loading asked for, it being stated that on account of the logs being cut in various lengths, from 10 to 16 feet, it was not practicable to load three lengths on a 36-foot-car, and that to get the weight asked for it would be necessary to load three lengths on a 36-foot car.

A table was submitted bearing on the impossibility of standardizing the lengths of the logs so as to get the minimum loading, and it was also submitted that, under the contracts with the farmers who cut the logs and brought them in, it was impossible to get them so arranged in piles at the loading point as to permit, without the added labour cost, a loading on the cars which would permit the minimum asked for.

Exhibits were filled by the railways showing loadings in excess of the minimum requirements. It was contended by the applicants that loadings from timber limits were not characteristic, because mechanical devices were available there for loading which were not available in connection with the business of the applicants.

The Board ruled as follows:-

The difficulties of loading due to the way the business is necessarily carried on have been set out at length. Mr. Hay very frankly stated that it would not pay to cut the logs into shorter lengths because of the extra wastage. He and those connected with him are naturally desirous of getting the maximum of logs from the tree. It is stated it is not feasible to so separate the logs according to size as to facilitate uniform loading. A photograph submitted as an exhibit by him shows how uneven, of occasion, the loading is.

The Board has dealt in particular eases with the question, if any, of the bearing of the particular costs of the manufactures upon freight rates. It has ruled that it is not part of the obligation of the railways, under the Railway Act, to equalize costs of production through lower rates so that all may compete on an even keel in the same market. Canadian Portland Cement Co. v. G. T. and B. of Q. Ry. Cos., 9 Can. Ry. Cas., 211; Canadian Oil Cos. v. G. T., C. P., and C. N. Ry. Cos., 12 Can. Ry Cas., 357; Blaugas Co. v. Canadian Freight Association, 12 Can. Ry. Cas., 305; Dominion Sugar Co. v. Canadian Freight Association, 14 Can. Ry. Cas., 195.

Reference may also be made to National Refining Co. v. C.C.C. & St. L., 20 I.C.C.R., 649.

In complaint of the Western Retail Lumbermen's Association of Winnipeg regarding the increase in the minimum on brick in Western Canada, File 9475.19, it was pointed out that a railway company is not justified in imposing rates on the same commodity differing according to the use to which the commodity is put, and that the same inhibition attached to a differentiation of minimum weights based on the use to which the commodity is put. It was further pointed out that a railway com-

pany is not under obligation to so adjust its minimum weights as to offset any inherent disadvantages of the business.

It was stated that the question of minimum weights had to be looked at from the standpoint of general convenience, advantage and interest. The generality of use of the commodity involved and how the arrangement met this use had to be considered, and it was pointed out that as to the great bulk of the brick business no objection had been taken to the minimum.

In the generality of the cases the 50,000 pound minimum is not objected to. The evidence submitted points to the conclusion that in a great majority of cases the minimum can be and is loaded. The Board would not be justified in directing a reduction in general to be made because in a particular instance it is slightly in excess of the average loading capacity. The reason why it is so in excess appears to be bound up with the conditions under which the business is carried on. The handicap complained of is part of the cost of production. It is not a handicap which is created by the railway, and the railway cannot with propriety be asked to equalize this handicap.

The facts are fully set out in the judgment of Mr. Commissioner McLean, dated January 20, 1917, concurred in by Assistant Chief Commissioner Scott and Mr. Comissioner Goodeve.

Re freight shed for New Toronto and Mimico, g.t.r.

By Order No. 25258, dated August 11, 1916, the Board approved of the location of a new freight shed and passenger station for the village of Mimico, on the G.T.R. and C.P.R. joint section between Toronto and Hamilton.

Before these facilities were constructed the corporation of the village of New Toronto applied to the Board to have the location of the freight shed at Mimico, referred to, changed by locating the shed about a mile further west.

The Board directed that an Order should go amending Order No. 25258 by chang-

ing the location of the freight facilities to New Toronto as applied for.

The facts are fully set out in the judgment of Assistant Chief Commissioner Scott, dated January 19, 1917, concurred in by Chief Commissioner Drayton and Mr. Commissioner McLean.

TRAFFIC CONGESTION—FILE NO. 27563.

The matter of traffic congestion, particularly with reference to coal, coke, and grain shipments, was brought about not only through shortage of railway equipment, but by other causes. The Chief Commissioner, after reviewing the situation and referring at length to the causes contributing to this congestion, in his reasons for judgment, dated January 8, 1917, says:—

"The imperative duty of the Board is to see, in the first instance, that this country fails in no regard in supplying materials necessary in the prosecution of the war. This, of course, means that the transportation required by the Imperial Munitions Board from the different factories producing munitions or materials required by the Empire and its Allies, must be properly and efficiently supplied. It also means that the full movement of grain and flour required both by Great Britain and by the Allied nations be fully and completely maintained.

"In like manner, it is the duty of the Board to see that the freight movement of the necessities of life for our own people and raw materials required for our export trade, on which depends so much in the matter of exchange and the financial standing of the country, is not allowed to suffer."

Everything possible was done by the Board to expedite the movement of these commodities with the equipment and competent men available from the freight service. To relieve the situation it was decided that the passenger service must be cur-

tailed to secure more engines and men, and to this end the railway companies were required to cut off all unnecessary passenger movements. Specific directions were made with respect to the service between Hamilton and Toronto, in which territory there was a daily operation of forty trains. The direction was that sixteen of these trains be cancelled; the railways to determine the ones which could be cancelled with the least possible inconvenience to the public. The restrictions in passenger service to be taken off upon the opening of navigation.

Assistant Chief Commissioner Scott and Commissioners McLean and Goodeve

concurring.

Re better train service on massena springs subdivision, g.t.r.

What was involved here was the train service between Massena Springs and Montreal. Connections at a considerable number of points complicated the situation. It was alleged that the train left Massena Springs at too early an hour in the morning, and petitions were filed asking that it leave about two hours later.

There was also an application for permission to ride on the milk train between Fort Covington and Montreal. An analysis of the individuals and places affected is

shown by the names on the petition which was made.

The Board recognized that the early hour at which the train left Massena Springs was a hardship, but held that there was not sufficient traffic moving to justify additional train service to take care of the Massena Springs-Montreal business by itself, and that therefore, it had to be combined with the other local business moving to Montreal.

It was also pointed out that the change asked for would disrupt the existing schedule and cause increased inconvenience to the parties who were not heard in the

present application.

It was pointed out that as to the passenger service on the milk train as asked for, the milk train had been put on in the first place because it was complained that this traffic delayed the passenger train coming into Montreal, and under these circumstances it did not appear reasonable to put a new burden of passenger business on the milk train, when the intention in the installation of the milk train had been as above pointed out.

The facts are fully set out in the judgment of Mr. Commissioner McLean, dated January 8, 1917, concurred in by Assistant Chief Commissioner Scott and Deputy

Chief Commissioner Nantel.

APPLICATION OF THE SHINGLE AGENCY OF BRITISH COLUMBIA re COMPLEMENT OF NAILS WITH SHINGLE SHIPMENTS.

Judgment of Mr. Commissioner Goodeve, dated January 4, 1917, concurred in by Chief Commissioner Drayton.

The applicants place their claim for special treatment chiefly upon the ground of the economic saving that would result to one of the chief natural resources in the province of British Columbia.

It was shown in the judgment that the granting of the application would involve a discrimination in rates as against other shippers and manufacturers of shingle nails; and also a discrimination against small independent shingle manufacturers in outlying districts who would be unable to supply nails with their shingle shipments.

On these grounds the application was refused.

CANADIAN CAR SERVICE RULES—DEMURRAGE CHARGES—FILE NO. 1700-140.

The railway companies applied for an Order amending the Canadian Car Service rules so as to provide that the demurrage charge for each twenty-four hours be increased from \$1 to \$4, and that the additional free time beyond forty-eight hours authorized under the rules be cancelled.

At the request of the Board, the shippers and shippers' associations represented at the hearing met the railways in an effort to arrive at an agreement. As a result of the conference, the application was abandoned and it was agreed that the free time of fortyeight hours should be allowed after cars had been spotted for unloading.

The Board directed that the necessary changes be made in the Canadian Car Ser-

vice rules to give effect to this arrangement.

The settlement arrived at was later taken up with the Boards of Trade in the West and the western section of the Canadian Manufacturers' Association. Some of these concurred, while others suggested that the demurrage rates should be even higher, in order to assist in keeping the urgently required rolling stock constantly in service. The objections to the arrangement were made by certain coal and lumber dealers. Held that notwithstanding these objections, the settlement arrived at must, in the public interest, be adopted.

The Chief Commissioner in his reasons for judgment, dated December 23, 1916,

referring to this branch of the subject, said:

"It must be borne in mind that all of the coal delivered in Toronto-which is the only place to protest-originates in American mines, and is hauled to a

very large extent in American cars.

"A much larger proportion of the coal brought into Toronto is unloaded mechanically than is unloaded by hand, but in any event, in the public interest, the settlement must be given effect to and the movement of coal facilitated, even if local Toronto dealers are penalized an extra 2 cents a ton for the third day coal cars may be held."

With regard to the lumber situation. The issue was whether the lumber merchants should or should not have an extra day which, if denied them, merely meant a charge of \$1 a day per car, amounting to a small sum per thousand feet.

Chief Commissioner:-

"The settlement after all is only temporary. It was agreed to by the shippers, not because the railways were entitled to any increased demurrage, not because the railways were not themselves in large part responsible for delays in transportation owing to lack of motive power and cars, but because it was felt that the increased demurrage fee was the only practical way in which a real public emergency resulting from shortage of cars could be in some degree relieved."

The reciprocal per diem allowance was increased from 45 cents to 75 cents per day per car and an additional penalty of \$5 per car if it moves in a direction away from the lines of its owner when available for return movements. This \$5 penalty was to apply if the company having possession of the car notifies the owning company of the diverted movement; if the owning company is not notified the penalty to be \$10 per car.

The increased tolls allowed under the judgment to come into effect on January 1,

1917.

Judgment concurred in by Assistant Chief Commissioner Scott and Commissioner McLean.

Re CLASSIFICATION OF "HEALTH SALT."

Application was made to the Board by the Harry Horne Co., manufacturers of an article known as "Health Salt," to have it given the third-class rating in the Canadian Freight Classification.

The article is marketed by various firms besides the applicants, namely "Canadian Health Salt" made by E. G. West & Co., Toronto, "British Health Salt" made at Hamilton, and "Kkovah Health Salt" imported and manufactured in Manchester, England.

Held that it would not be possible to compile a practicable classification that enumerated specifically all the items of commerce, or even of the drug trade with its

long list of staple and proprietary articles; that the grouping of the articles must of necessity be more or less broad. Held also that it was elementary in order that the cheaper goods may be carried any distance that the classification must be arranged according to the ability of the various articles to bear their share of the cost of transportation, so that luxuries and things which move in comparatively small quantities are rated higher than the indispensables. That furthermore, while war conditions may affect rates per se they ought to have no bearing on classification. The application was therefore refused.

The facts are fully set out in the judgment of Assistant Chief Commissioner

Scott, dated December 16, 1916, concurred in by Mr. Commissioner McLean.

COMPLAINT OF J. A. KAMMERER, Te CANADIAN PACIFIC RAILWAY CO.

This was a complaint of J. A. Kammerer against the Canadian Pacific Railway

Company for refusal to place a car for him on a private siding.

It appeared that the Canadian Pacific Railway Company had, on January 2, 1914, made an agreement with the Credit Valley Stone Co., Ltd., granting that company the right to use the siding connecting with the said railway upon certain terms.

Clause 12 of the agreement provided for its termination.

The complainant bought a stone crusher and had it hauled to the premises of the Credit Valley Stone Co. Subsequently the Credit Valley Stone Co. failed and the siding agreement with the railway company was cancelled.

Held that the Board had no jurisdiction to grant the subsequent application, and that a railway company is only bound to supply facilities for the receiving and loading of traffic at a stopping place and not anywhere on its right of way between stations, and that the application must be dismissed.

The facts are fully set out in the judgment of Assistant Chief Commissioner Scott, dated December 16, 1916, concurred in by Commissioner McLean.

Re Canadian northern town properties company, Ltd., and national trust company, Ltd., and mckenzie mann & co., Ltd., for leave to cross the canadian northern rallway.

These applications were made under section 237 of the Railway Act. Notices of the applications were served upon the municipalities interested and the Department of Public Works at Edmonton for the crossing in Alberta, and the Highway Commissioners for the province of Saskatchewan for the crossing in that province. The provincial authorities offered no objection to the crossings, provided that the cost of construction and maintenance be borne and paid by the applicants.

The applicants pointed out that their interests were not of a permanent character, but that the highway was; that as registered taxpayers in the municipality they paid a large proportion of any cost under the ordinary mode of assessment; and that the cost, therefore, should be distributed among the property owners. In other

words, that it should be placed upon the municipality.

Held per Chief Commissioner, for the reasons set forth in his memorandum of December 6, 1916, that as townsite companies, after the property had been sold and paid for, would, in all probability, cease to exist and there would be no practical way in which the responsibility of maintaining the crossings could be enforced; and that as the whole question is one for the local authorities rather than the Board, the Board should consider whether as a matter of administration and practice any more highway crossings should be authorized by the Board, except where required by the appropriate department of the local Government or the municipality.

The memorandum, under direction, was submitted to the provincial authorities with the request that they submit their views on the question, giving the Board a reference to the sections in the different local Acts relating to the constitution of

highways.

COAL TRANSPORTATION TRAFFIC PRACTICES.

The Board's attention was forcibly brought to the acute coal situation in the West, caused not only by the scarcity of labour and strikes at the mines, but directly by car shortage and the refusal of railway companies to provide coal miners with cars required for coal to be delivered at points on the lines of other railways. The question is fully dealt with by the Chief Commissioner in his reasons for judgment dated December 8, 1916.

Earlier decisions of the Board were to the effect that railway companies could not reasonably be required to supply cars for a short haul upon its own line and a long haul on the line of another company. Imperial Steel and Wire Company vs. Grand Trunk Railway Company, 11 C.R.C. 395, and the Canadian Pacific Railway Company vs. Nelson and Fort Sheppard Railway Company, decided by the late Chief Commissioner Killam in 1906.

In view of these authorities, the companies from time to time refused to supply cars to be routed for destinations off their own lines.

The question was taken up by the Board and as a result the Canadian Northern at Drumheller supplied open cars for deliveries at C.P.R. points and the C.P.R., at Lethbridge and other points, furnished cars for shipments to points whether on its own line or those of other railways. The condition was aggravated by the further requirements for grain traffic, and efforts were made to encourage the movement of coal during summer months and before the grain rush.

Chief Commissioner:-

"I am of the opinion that the Board must, in the first instance, lay down the general principle that coal must be moved, not only to points on the origination line of reilman, but also to prints on the Vice

ating line of railway, but also to points on other lines.

"Cars must be supplied for this purpose as well as for delivery at points on the originating line to the full extent cars are available. In all cases where transfer at the junction point results in the line on which the traffic originates obtaining the long haul, the duty is thrown upon that line to supply the cars. In cases where the long haul is enjoyed by the receiving instead of the originating line, the receiving line must supply the cars. In cases where the line that ought to supply the cars, under these principles, is unable to supply them, then the other line, although not enjoying the long haul, shall supply the cars, but shall be paid by the line in default a per diem charge of \$1.25 instead of the usual per diem of 45c., and this increased per diem charge shall be collected in the case of all such cars from the time the car leaves until it is returned to the line of the owning company."

While the jurisdiction of the Board to regulate the per diem allowance might be open to question, there is no question as to its control over the division of through rates, and the per diem allowance method was considered an easier and more simple solution than a rearrangement of through rate divisions, which might be made applications.

able to meet the emergency.

Under the facility clauses of the Railway Act, the Board may order companies to furnish at the place of starting and at the junction of the railway with other railways adequate and suitable accommodation for the receiving and unloading of traffic offered for carriage, and for these purposes it may direct that specific works be constructed—or that cars, motive power or equipment be allotted, distributed, used, or moved as specified by the Board.

In view of these powers, the Chief Commissioner expressed the opinion that the

Board had jurisdiction to make the Order above indicated.

The receiving company was required to return cars promptly to the owning line, and, in order to meet emergencies, companies without sufficient equipment were directed forthwith to make necessary changes in flat or live stock cars to enable them to carry coal.

Assistant Chief Commissioner Scott and Commissioner McLean concurred.

PER DIEM CHARGES.

The per diem charge of 45 cents has remained stationary notwithstanding the shortage of car equipment and that the cost of freight cars has advanced. Railways have placed embargoes on the traffic of other lines with the result that shippers are penalized for the misuse of cars by railways to a greater extent than the railways themselves are. Railways short of equipment can pay this 45 cents per diem charge and make money. Cars interchanged have been used by the receiving line practically as its own equipment, resulting in car shortage on lines which otherwise would have been able to properly look after their own business. The question of this abuse was taken up with the railway companies.

The Chief Commissioner in his judgment dated December 7, 1916, expressed the view that penalties ought to be provided, and points out that as the use of cars in certain trades differs from that in others, a general rule of close application could not be adopted as a basis for misuse, but that with a large per diem charge the different carriers ought to be able to use at least a fair portion of their own equipment; the penalties to be charged only after the lapse of a reasonable time for the return movement; the railway companies to agree as to what this reasonable time is.

APPLICATION OF THE TOWN OF VIRDEN, MAN., re FOOT SUBWAY UNDER CANADIAN PACIFIC RAILWAY COMPANY'S YARD.

This was an application of the town of Virden, Man., for an Order requiring the C. P. R. Co. to construct a foot subway under its tracks at a convenient spot in the said town.

Held that the Board had decided on several former occasions that where a rail-way company lays out a townsite and benefits from the sale of lots in that townsite that it should assist in providing suitable facilities for the public to get across the railway property in that townsite. Reference was made to the judgment of the late Chief Commissioner Mabee, vol. 11, p. 165, followed by the present Chief Commissioner Sir Henry Drayton, in the City of Medicine Hat v. C.P.R. Co., Can. Ry. Cas., vol. 16, p. 413. Held that the principle established in these decisions should be followed in the present case.

Held that an Order should go for a pedestrian subway to be constructed by the Canadian Pacific Railway Company according to plans approved by the Board's Chief Engineer, and that the cost of the subway be equally divided between the railway company and the town of Virden; the work to be completed by July 1, 1917.

The facts are fully set out in the judgment of Assistant Chief Commissioner Scott, dated November 25, 1916, concurred in by Chief Commissioner Drayton.

Re hagersville crushed stone company v, michigan central railroad company regarding rates on crushed stone.

Direction was given as follows:-

Michigan Central tariff C.R.C. No. 2490, effective November 27, 1915, carried a 70-cent rate from Hagersville to Amherstburg. This rate, adding the increase allowed in the Eastern Rates Case, becomes by tariff C.R.C. No. 2596, effective November 1, 1916, 75 cents. This rate is not changed by Supplement No. 12 to C.R.C. No. 2490, effective November 20, 1916, the history of which tariff has been so far as the Board is concerned, referred to. The supplement amends the rates so that Oldcastle, Paquette, Pelton, Walkerville Junction, and Windsor are given an 85-cent rate.

Amherstburg is about a mile further from Hagersville than is Windsor, the mileages being 171.8 and 170.7 respectively. The distances from Essex to Windsor and to Amherstburg are substantially the same. Both Windsor and Amherstburg are located on the Detroit river. Windsor has a main line movement; Amherstburg has a branch line movement from Essex, and might, if any difference were justified, be

expected to be on a higher basis. It is a rate established and continued by the railway. As a measure of whether the rate on a main line movement to Windsor is or is not out of line, it is reasonable to make use of it.

In consideration of the various factors affecting the matter, a rate not exceeding 75 cents to Windsor is reasonable.

The facts are fully set out in the judgment of Mr. Commissioner McLean, dated November 20, 1916, concurred in by Assistant Chief Commissioner Scott.

APPLICATION OF THE CITY OF CHATHAM FOR REMOVAL OF TELEGRAPH AND TELEPHONE WIRES.

This was an application of the city of Chatham, Ont., for the removal of the wires of the Canadian Pacific Railway Company's telegraph, the Great North Western Telegraph Company, and the Bell Telephone Company, as at present located on King, William, Queen, and Fourth streets, in the city of Chatham.

Held that there was no justification for the continuance of the line of poles and wires of the Great North Western Telegraph Company on King and William streets, and in the public interest they should be removed. Held further that the portion of the application relating to the Great North Western Telegraph Company's poles on Queen and Fourth streets, including the Bell Telephone Company's wires, as they are on the Great North Western telegraph poles, should be dismissed. Held further that if at some future time conditions on Fourth and Queen streets with regard to pole lines are changed, the city of Chatham could make any further application to the Board it desires.

The facts are fully set out in the judgment of Assistant Chief Commissioner Scott, dated November 21, 1916, concurred in by Mr. Commissioner McLean.

CAR SUPPLY FOR GRAIN SHIPMENTS.

Complaints were filed with the Board complaining of the failure of the C. N. R. Co. to provide the necessary cars to move the grain, and requesting that the Board make an order under the enabling legislation of 1916 requiring the C. N. R. Co. to furnish all facilities within its powers to carry grain to a point of interchange with another company or any terminal elevator, and directing such other companies to then complete the transportation.

Held, Chief Commissioner in his judgment of November 20, 1916, that it was impossible to do this at the time for two reasons: (1) that the legislation in question which was passed entirely to meet a greater emergency, only comes into operation after the close of navigation, and the Board, therefore, had no jurisdiction at the time to make such an order: and (2) that the first duty of the connecting carrier would be to farmers on its own line whose grain had not been marketed. It was suggested that the railways could very materially assist in seeing that cars were handled with the least possible delay both to and from wheat fields, and producers could similarly assist in seeing that cars were loaded with as little delay as possible. The Chief Operating Officer of the Board proceeded west under direction with a view of further assisting as much as possible the more rapid movement of grain.

THE OTTAWA PAINT WORKS' COMPLAINT.

The complaint was against the advances made in paints, dry or in oil, and lead, white or red. in straight carloads.

The discrimination complained of by Ottawa was that Montreal had been given rates lower than the class tariff which Ottawa had not enjoyed.

Chief Commissioner in his judgment dated November 22, 1916, concurred in by Commissioner McLean, held that so far as paint rates were concerned the case was covered by the judgment in the Eastern Rates Case, and the discrimination could be removed by applying to Montreal the class tariff rate; that the rate on dry white lead was in an entirely different position to the paint rate. No question of discrimina-

tion was raised. This article being a raw material should take the commodity rate on the other raw material, linseed oil, which was advanced two cents per 100 pounds instead of to fifth-class as asked by the carriers.

C.N.R. SERVICE BETWEEN HUBERDEAU AND MONTREAL.

Complaints were made against the train service given by the C.N.R. on its line from Huberdeau to Montreal, Que., that the trains were rarely on time, that the time allowed in Montreal was entirely too short to enable those going into Montreal to do any business and return the same day, and that it compels passengers to travel the entire distance to Montreal by the C.N.R. instead of availing themselves of the short route by way of the C.P.R. The mileage from Huberdeau to Montreal via C.P.R. from Montfort Junction is 77.6, while the mileage from Huberdeau to Montreal via C.N.R. is 115.7. Complaint was also made by the post office authorities that it interfered with a proper mail service along the route. The service the year before made connection with the C.P.R. at Montfort Junction timed to arrive at Montreal at 9.20 in the morning; leaving Montreal for Huberdeau at 4 p.m., thereby securing to passengers practically the day in Montreal for business.

The company contended that it should be allowed to take advantage of its own line from Montfort Junction east and that it should also be allowed to effect economies

to the fullest extent consistent with the proper public service.

The Chief Commissioner in his judgment of November 13, 1916, agreed with the submission of the railway company that it would not be reasonable to order the C.N.R. to operate its Montfort branch in connection with the C.P.R. and lose business to its own line, if it could handle it as well over its own rails. In fact, he would go so far as to say that the C.N.R. was entitled to its own traffic if it could give a service reasonably as good as that obtained over the former connection; but such service, however, was not being given under the present schedule, and the direction was that an Order go requiring the company to replace and maintain the service of the year before.

Re Joint Rates.

A large number of joint tariffs were filed by railway companies. In some of these tariffs filed joint rates were cancelled without substituting new joint rates for those cancelled.

Chief Commissioner Drayton, November 11, 1916, "under the Act the duty is thrown upon the companies of filing joint tariffs to cover transportation in cases where the movement over two or more lines is necessary in order to establish a continuous route and through billing."

Held, that an Order go disallowing all notices of cancellation of joint freight tariffs which have not been superseded by other joint freight tariffs duly filed with the Board and applicable between the same points and to the same classes of traffic. The Order, however, not to be applicable to joint rates which may have been necessary under the former system of railway construction, but which, by reason of the present construction, have become unnecessary.

Re application of canadian northern railway co. to close station at lower argyle, n.s.

The traffic earnings were set out and shown to be approximately only one-tenth of what is called for by the Board's Order in the Flag Station Case. The largest revenue that was alleged by the applicant was \$2,144. This total included an error, however. Adding express business, the best total available is less than \$2,000. The low earning power of the railway was referred to, and it was stated that the matter had to be looked upon from the standpoint of what accommodation was reasonable for

the public to expect. It was held that under the circumstances disclosed it was reasonable to permit the company to close the agency, the earnings being inadequate to justify the retention of an agent.

The facts are fully set out in the judgment of Mr. Commissioner McLean, dated

November 8, 1916, concurred in by Assistant Chief Commissioner Scott.

CAR SERVICE RULES.

Application was made by the Security Traffic Bureau of St. Paul, Minn., for a ruling in connection with claims made by it to the Canadian Freight Association for clients.

The Board had previously expressed the view in connection with a claim for demurrage under the Car Service Rules that "the car was liable to the car-service charge in force at the time of its arrival at destination." On the strength of this judgment the applicants asked a refund of all demurrage charges on the cars in question over the rate in force up to and including December 14, 1912, of one dollar per day. By an Order of the Board made in the fall of 1912 an increase of the demurrage toll from one dollar to two dollars a day for the first 24 hours to which the toll would properly apply, and to three dollars a day for each succeeding 24 hours was allowed. This Order was merely temporary to meet the emergency shown to exist, commencing December 15, 1912, and terminating March 31, 1913, both inclusive. The claim of the applicants was that as each of the cars with regard to which the ruling was asked arrived at destination before the tariff under the temporary Order became effective, the railway could only collect demurrage at the rate of one dollar a day.

Held, Chief Commissioner Drayton, November 9, 1916, concurred in by Assistant Chief Commissioner Scott, and Commissioner McLean, that the demurrage tolls chargeable on cars should be levied under the tariff in force at the date of arrival at destination; that demurrage tolls are recoverable under the Car Service Rules, and are not included in the ordinary transportation tariffs; that the right to demurrage accrues on the default of the consignee, is applicable to each day in default, accrues day by day, and expires just as soon as the default is removed; that demurrage charges have nothing to do with questions of transit one way or the other—they can only arise after transit is completed; that there ought to be no refund and to order otherwise would be to offend against the provisions of the Act prescribing equality of treatment and prohibiting discrimination.

Re city of brantford by-law against whistling and g.t.r

The question was raised by the G.T.R. as to the sufficiency and application of a by-law passed by the city, the submission being that the by-law in question was a general one to prevent the obstruction of streets, etc., and that, to be applicable, it must have passed under section 274 of the Railway Act.

Held, Chief Commissioner Drayton, concurred in by Assistant Chief Commissioner Scott, that the statutory duty of the company is quite clear. The question whether that duty has or has not been observed by the company is one for the courts. November 9, 1916.

THE VERNON BOARD OF TRADE AND C.P.R.

The Vernon Board of Trade complained of the failure of the C.P.R. to supply sufficient refrigerator cars for shipments from Okanagan Valley.

The matter was taken up with the company with a view, if possible, to obtaining sufficient refrigerator cars to relieve the situation. It was found that this was impossible. It was shown that, owing largely to the unprecedented and unforeseen conditions created by the war, the shortage of refrigerator car equipment was quite general amongst the railways on the American continent. The price of steel and the scarcity of labour made it practically impossible for companies to add to their stock of refrigerator cars to any appreciable extent. The Canadian Pacific Railway Company

offered to supply lined box cars with racked floors, equipped with a stove and the necessary fuel for each car, and agreed, in view of the emergency, to earry without charge an attendant to be employed by the shipper to accompany such cars to see that the fires were kept burning properly and the shipments protected from damage by frost. This attendant to be carried back free of charge.

Held by the Chief Commissioner, November 9, 1916, that the Board could make no better arrangement or order. Assistant Chief Commissioner Scott concurred.

Re division of cost of protection, g.t.r. crossing, colborne street, brantford, ont.

The railway had put in a day watchman at its own expense. A subsequent adjustment was obtained whereby the work of protecting the track and operating the interlocking plant was looked after by a day and a night watchman. The same parties under these circumstances should have equal division of the cost.

The facts are fully set out in the judgment of Mr. Commissioner McLean, dated November 8, 1916.

Re complaint of the lake superior paper co., Ltd., sault ste. Marie, ont., against excessive freight charges of the algoma central and hudson bay railway co., on carloads of pulpwood.

The Lake Superior Paper Company complained of increases in rates on shipments of pulpwood moving a distance of from 175 to 200 miles. The suspension of the tariff was asked for, but it was held that a *prima facie* case for suspension had not been made out, and the tariff was allowed to go into operation.

It was alleged by the applicants that, under an agreement with the railway, the paper company was to have exclusive rights to get pulpwood on the lands of the railway, south from a point 175 miles from Sault Ste. Marie, and stated, further, that north of this there was an arrangement by letter whereunder a blanket rate of \$3 per cord, for the distance of 175 to 300 miles, was to apply. This would work out at 4 mills per ton per mile. The paper company claimed that it had established its business on this basis, and that it was unreasonable to make the change.

The Board held that a contractual basis of the rate referred to did not oust the jurisdiction of the Board as to reasonableness of rates, and that reasonableness of rates, not adequacy of consideration therefor, was the ruling criterion, reference being made in this connection to Crows Nest Pass Coal Co. v. Conadian Pacific Ry. Co., 8 Can. Ry. Cas. 33, at pp. 40-41.

An analysis was made of the traffic of the railway, the bulk of which is low grade. Comparisons were made between the earnings and traffic conditions of the Algoma Central and the Temiscouata Railway which is heavily interested in the movement of pulpwood and other forest products. While their operating ratios are substantially the same, the average haul on the Algoma Central is about twice as great as on the Temiscouata, 94½ per cent of the traffic handled by the Temiscouata originates on the road. In the case of the Algoma Central, about 98.9 per cent originates on the road.

The Board held as follows:--

Tariff C.R.C. No. 345 filed provides that the 176-200 mile group shall have a rate of 7 cents. In Eastern Canada, the mileage scale is 6½ cents. The balance of the mileage under C.R.C. No. 345, up to 300 miles, has an 8-cent rate. In the Eastern Canada scale, the rate is stopped as follows: 7 cents for the 201-225 mile group; 7½ cents for the 226-250 mile group; and 8 cents for the balance. Under the rates authorized by the judgment in the Eastern Rates Case, pulpwood rates are for the eastern groupings as follows:—

Over	176	and	not	over	200	miles,	 	 	 			 63	cents
Over	200	ana	not	over	220	miles.	 	 				7.2	31
Over	225	and	not	over	250	miles.	 	 				7.3	4.6
Over	250	and	not	over	275	miles.		 				2	44
Over	275	and	not	over	300	miles	 	 	 	 	 	 S 2	44
221													

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On the hauls up to 175 miles inclusive, the rates in C.R.C. No. 345 are lower than the approved rates for Eastern Canada. In view of those lower rates for the shorter hauls, and having in further consideration the nature and amount of the traffic on the Algoma Central as compared with the traffic on the lines in Eastern Canada, the rates and scaling as set out in C.R.C. No. 345 are not unreasonable.

The facts are fully set out in the judgment of Mr. Commissioner McLean. dated

November 8, 1916, concurred in by Assistant Chief Commissioner Scott.

IMPORT RATES.

Railway companies applied for permission to materially increase their import rates. The importers objected that with high ocean rates the burden on their traffic was already unduly heavy.

Held that while undoubtedly ocean rates were very high, that fact of itself was no reason why companies should be required to carry imports at a probably low and unremunerative basis; that the present application for increased import rates should however, stand until the full effect of the increase authorized under the recent Eastern Rates Case judgment should be demonstrated. See judgment of the Chief Commissioner, dated November 6, 1916, concurred in by Assistant Chief Commissioner Scott and Commissioner McLean.

IN re TARIFFS OF TOLLS FOR HEATED CAR SERVICE.

The question of the tariffs from the East to the West has been gone into and the figures of cost submitted by the Canadian Pacific and by the Grand Trunk have been carefully checked.

In dealing with the question of the longer haul movement between the East and the West, the proposed tariff made use of a series of groups, these being as follows: Group A, west of Fort William to Winnipeg; Group B, remainder of Manitoba; Group C, Saskatchewan; Group D, Alberta; Group E, British Columbia, east of and including Kamloops, Penticton, Prince George; Group F, the remainder of British Columbia.

In using the group system, instead of having a flat computation on a mileage basis, the rates taper on the mileage of the group; that is to say, the longer distance obtains the advantage of a somewhat lower rate, if the matter is looked at from the standpoint of mileage alone. The cost items have been carefully analyzed and the groupings have been rearranged, and in this rearrangement there has been considered the characteristic points to which shipments are made. There has also been a revision in regard to rates.

In revising the groupings as set out in the subjoined table, the mileages as given are those from a common typical shipping point in the East, St. Catharines having been taken for this purpose. It may be also stated that the mileages as a rule are averages. This seems fairer. For example, to Group 4, the average distance from Winnipeg to the four terminal points has been added to the mileage from St. Catharines to Winnipeg. The following table sets out the rates which are reasonable for this phase of the service:—

To C	Groups,	Miles.	Ra	te.
1. West of Westfort	to and including Kenora and Rainy			
River		1,200	\$1 0	0.0
2. West of Group 1	to and including Winnipeg and			
Emerson		1,334	11	0.0
3. Remainder of Man	itoba	1,538	13	0.0
4. West of Group 3 t	o and including Viceroy, Moosejaw,			
Saskatoon and	Prince Albert	1,784	15	00
5. Province of Saska	tchewan west of Group 4	1,024	16	0.0
6. West of Group 5 to	and including the C.P.R. Macleod-			
Calgary-Edmon	ton line	2,137	18	00
7. North of Edmonto	on and west of Group 6 to Pen-			
ticton, Kamloo	ps, and Prince George	2,584	22	00
8. West of Group 7 t	o Vancouver and Prince Rupert	2,943	25	00

The charges above set out may be measured for the group mileages both in terms of ton-mile earnings and car-mile earnings. For this purpose, the loading of 24,000 pounds, the classification minimum for apples, is taken. In the computations per car mile, fractions of a mill are omitted:—

Group.	Per ton mile. Per car mile.
1.	6/10 of a mill
2.	6/10 of a mill
3.	7/10 of a mill
4.	7/10 of a mill
5.	6/10 of a mill
6.	6/10 of a mill
7.	7/10 of a mill
8.	7/10 of a mill

The proposed tariffs are intended to apply on all traffic requiring heating, and the clause in the tariff that the charge for heating was to be in addition to the ear rental as well as the freight charges was open to the construction that it was proposed to make the charge for refrigerator rental authorized under General Order No. 152 in the case of vegetables apply to all other traffic in heated refrigerators. Order No. 152 provides as follows:—

For any distance not exceeding 300 miles, \$3 per trip.

For any distance over 300 miles but not exceeding 500 miles, \$5 per trip.

For any distance over 500 miles but not exceeding 750 miles, \$6 per trip.

For any distance over 750 miles but not exceeding 1,000 miles, \$7.50 per trip.

For any distance over 1,000 miles, \$10 per trip.

The proceedings at Calgary show that one of the parties applicant interpreted the tariff as applying to all traffic loaded in heated refrigerators, and this misunderstanding was not corrected. The provisions of the tariff, however, have to be read in connection with the provisions of General Order No. 152 as limited.

It appears, further, that while the car rental refers only to vegetables, in fact its scope is extremely limited, and it does not appear what vegetables can be referred to, except, perhaps, an occasional carload of onions. It was stated at Toronto that it was only in exceedingly exceptional cases that potatoes were handled in refrigerator cars with oil heaters, the normal practice being to have the heating supplied by the shippers themselves, this heating being by coal stoves and the movement not being in refrigerator cars.

The provisions of the General Order looked at in connection with the heated car service charge create an extremely anomalous condition. If, for example, a shipper pays \$5 for a refrigerator ear not heated, on a movement from Toronto to Montreal, he would, on a movement of vegetables, if he required the car heated, pay one cent a mile in addition, or a total of \$8.34, whereas a heated ear earrying other traffic than vegetables would pay the heating toll of \$3.34, there being no car rental charge in this case; so there is the anomaly of an unheated car costing more than the heated car.

On full consideration of the conditions now existing, it appears that the situation is so different from that existing when Order No. 152 was issued that it should be reseinded; at the same time, this is without prejudice to such application, if any, as may be made, keeping in view the rearranged conditions.

The facts are fully set out in the judgment of Mr. Commissioner McLean, dated October 25, 1916, concurred in by the Chief Commissioner, Assistant Chief Commissioner Scott and Mr. Commissioner Goodeve.

Re crossing niagara, welland, and lake erie railway over michigan central railway on south main street, welland.

This was an application of the Michigan Central Railway Company to the Board for reconsideration of that portion of the Board's Order No. 17324, dated August 27, 1912, authorizing the Niagara, Welland, and Lake Erie Railway Company to cross the Michigan Central railway on South Main street.

It appeared that the Order in question was issued on the consent of the municipality, it dealing chiefly with the right-of-way of the Niagara, Welland, and Lake Erie Railway on the highways of the municipality, and that the municipality was not heard on the subject of the company's tracks on South Main street.

Held that an Order should go amending Order No. 17324, by eliminating from it the authorization to the Niagara, Welland, and Lake Eric Company to cross with its tracks the tracks of the Michigan Central at grade on South Main street, and authorizing the Niagara, Welland, and Lake Eric Company to cross the Michigan Central tracks underneath through the subway. That on the question of the cost the Michigan Central Railway Company should pay half of the cost of the subway not exceeding the \$6,500 offered by the company.

The facts are fully set out in the judgment of Assistant Chief Commissioner Scott, dated October 31, 1916, concurred in by Mr. Commissioner McLean.

Re protection at c.p.r. crossing by the st. vincent de paul penitentiary tramway.

The Board was asked by the Canadian Paeific Railway. Company and the Department of Justice to decide what, if any, protection should be installed at the crossing in question, and, if some protection was thought necessary, how the cost thereof should be apportioned.

Held that the crossing should be protected by the installation of a half interlocking plant and that each party should pay one-half of the cost of the installation and one-half the cost of renewal and repairing charges in connection therewith. That the plant should be installed by the C.P.R. Company and maintained by it, accounts being rendered to the Department of Justice for its share of the expense, and that the plant should be installed not later than January 1, 1917.

The facts are fully set out in the judgment of Assistant Chief Commissioner Scott, dated October 31, 1916, concurred in by Mr. Commissioner Goodeve.

Re transfer track, canadian northern railway and canadian pacific railway, moosejaw.

The city of Moosejaw and the village of Avonlea, Sask, desired transfer connection, between the C.N.R. and the C.P.R. in Moosejaw. The transfer track proposed by the C.N.R. connected with the C.P.R. on city blocks 154 and 155. The C.P.R. opposed the application as interfering with its terminal property in Moosejaw and made an alternative proposal connecting the tracks of the two companies on city block 155. This latter proposal objected to by the city.

The Chief Commissioner in his judgment of October 21, 1916, expressed the view that the construction proposed by the C.P.R. would be against public interest and productive of more real damage than the construction of the spur through its property which at that time was not being put to any railway use. In addition, the construction favoured by the C.P.R. entailed a crossing of the street railway at grade, while the construction along Maple street suggested by the city and the Canadian Northern Railway carried the spur under the overhead bridge on Fourth avenue.

Held, that the transfer track and connection should be constructed on city block 155. The city concurred upon terms to the construction through blocks 172, 155, and 156 and the use of the streets, and the direction was that work in accordance with the corrected plans filed be commenced at once and completed without delay, if men were available for the purpose. The city to be at no loss or damage resulting from the work on its streets.

Re riverdale park crossing, toronto.

This was an application by the city of Toronto for protection during the summer months at the crossing of the tracks of the Canadian Pacific, Canadian Northern and Grand Trunk Railway Companies' lines over a foot path connecting the portions of Riverdale Park which are separated by the Don river and the tracks in question.

Held that a watchman should be employed from the 1st May until the 31st October in each year, and that the cost of the watchman during the three months should be divided among the four parties concerned, and the city of Toronto should pay 25 per cent, the C. N. R. 40 per cent, the C. P. R. 25 per cent, and the G. T. R. 10 per cent.

The facts are fully set out in the judgment of Assistant Chief Commissioner Scott, dated October 13, 1916, concurred in by Commissioners McLean and Goodeve.

Re interchange connection, lake erie and northern RV., toronto, hamilton and buffalo RV., and grand trunk RV., brantford.

Application for interchange tracks was made to the Board by a large number of manufacturing concerns in the city of Brantford. It appeared that the chief object of their desiring the interchange was to enable them to get prompt shipment in or out from there to the C. P. R. points.

Held that the putting in of an interchange as applied for would be of great benefit to a number of important industries in Brantford; that it was clearly in the public interests and would not be seriously prejudicial to the business of other companies, as while it would take some business from them it would bring new business to them.

Held that an order should go granting the application, and that the order should be a permissive one allowing the Lake Erie and Northern Railway Company to construct the interchange track.

The facts are fully set out in the judgment of Assistant Chief Commissioner Scott, dated October 11, 1916, concurred in by Mr. Commissioner McLean.

APPLICATION OF CITY OF HAMILTON *re* CONVEYANCE BY THE HAMILTON RADIAL ELECTRIC RY.

CO. OF CERTAIN LANDS FOR THE EXTENSION OF BIRCH AVENUE.

This was an application of the city of Hamilton for an order that the Hamilton Radial Electric Railway Company convey a piece of property required for the extension of Birch agenue in the city of Hamilton to the city.

The application involved a question of the interpretation of the provisions of the Board's order 15241, dated October 11, 1911. Clause 1 of the said order stated as follows:—

"That the city corporation shall construct the extension of Birch avenue from its present northerly terminus to Gilkison street as shown on the annexed plan, and the cost of such construction shall be paid by the city corporation."

Held that there was nothing to warrant the Board in coming to the conclusion that the city had the right to take the railway company's property for an extension of Birch avenue without paying for it, and that the application should accordingly be refused.

The facts are fully set out in the judgment of Assistant Chief Commissioner Scott, dated October 13, 1916, concurred in by Mr. Commissioner McLean.

IN THE APPLICATION OF THE CANADIAN CAR SERVICE BUREAU FOR RULING ON CONDITIONS IN CANADIAN BILL OF LADING AND CANADIAN CAR SERVICE RULES.

The ruling was as follows:—

The Canadian Bill of Lading sets out a period of seventy-two hours' free time in the case of bonded goods. The United States Bill does not refer to clearance of customs. The National Demurrage Rules, however, provide for twenty-four hours for this purpose.

Section 5 of the United States Bill of Lading contains in the second paragraph thereof the words: "Nothing in this section shall be construed as lessening the time allowed by law or as setting aside any local rule affecting car service or storage."

Rule 2 of the Car Service Rules provides for forty-eight hours' free time. Subsection (d) of the same rule allows twenty-four hours additional free time for clearance of customs.

The Car Service Rules thus earmark twenty-four hours for the clearance of customs where such service is necessary. The Board ruled in the case of the Wood Coal Company and the Barber-Ellis Company, above referred to, that the twenty-four hours additional free time for the clearance of customs was the first period in point of time, and that under the rule the forty-eight hours for unloading ran from the termination of the time allowed for clearance of customs.

Section 5 of the United States Uniform Bill of Lading already referred to makes this provision, subject to the time allowed by law or by any local rule affecting car service. This is to be construed by the law or local rule in regard to car service in Canada.

The legal situation in the matter in the United States differs from that existing in Canada. There it is open to the individual state legislatures to pass laws dealing with the question of free time, and such laws have been passed by them. The National Demurrage Rules in use in the United States, while they have the endorsement of the Interstate Commerce Commission and a fairly general support, have been taken up by acceptance and not as a result of a formal Order. These rules came into force after the Bill of Lading in question was adopted. In Canada, the Car Service Rules are in force as a result of the Order of the Board; so, also, are the provisions of the Bill of Lading; so both of these are part of the law relating to the topic under discussion.

The Car Service Rules constitute a code dealing with the question of average reasonable time for delivery, delays to cars, and penalties for such delays. The Canadian Bill of Lading is a document defining the liability of the carrier. Incidentally, it does refer in Section 6 to the limits of the free time; but this is referred to as defining the period when the liability of the carrier qua carrier ceases, the liability thereafter being that of a warehouseman only.

The subject matter of the Car Service Rules and of the Bill of Lading are quite distinct.

Section 2 of the Car Service Rules is concerned with the period of seventy-two hours on bonded freight, made up of forty-eight hours' free time and twenty-four hours for clearance of customs, from the standpoint of the peculiar scope of the Car Service Rules as above referred to.

The Bill of Lading earmarks seventy-two hours as the maximum free time for bonded goods, but it does not say how that time shall be distributed. For this, reference must be made to the Canadian Car Service Rules; and the interpretation of this given in the case already referred to governs.

The facts are fully set out in the judgment of Mr. Commissioner McLean, dated October 6, 1916, concurred in by Chief Commissioner Drayton and Assistant Chief Commissioner Scott.

Re complaint of charles stevens, napanee, ont., re excessive freight rates on wood ashes.

Application was made for commodity rates on wood ashes in carloads for the purpose of manufacturing potash. The railways proposed the application to wood ashes of the fertilizer rates. It was held by the Board that the rates as proposed by the railways were reasonable.

The facts are fully set out in the judgment of Mr. Commissioner McLean, dated October 3, 1916, concurred in by Assistant Chief Commissioner Scott.

Re complaint on behalf of McKenzie & Thaver, Saskatoon, Sask., re canadian Northern railway rates on shipments of Brick.

What was involved was a movement from a point in the United States to a point in Canada. Between these points no specific through rates were in existence, and it was contended that by taking the sum of rates between points in the United States and the International Boundary, and rates beyond, a lower rate could be obtained than by the lower rate to Minnesota Transfer, plus the through rate from Minnesota Transfer to Saskatoon, and it was contended that, to the extent there was on the locals a lower rate combination, there was an overcharge that should be refunded.

The decision pointed out that, under section 336 of the Railway Act, where traffic moved from a point in a foreign country to Canada by any continuous route, a joint tariff was necessary to be filed.

The joint tariff as filed from Minnesota Transfer was held to be in compliance with the Railway Act, and the Board, therefore, had no authority to make the declaration asked for, or to direct the refund asked for.

The facts are fully set out in the judgment of Mr. Commissioner McLean, dated September 28, 1916, concurred in by Assistant Chief Commissioner Scott and Mr. Commissioner Goodeve.

Re complaint of t. m. stevens & co., vancouver, b.c., regarding advances in freight rates on sago and taploca.

The question of an advance in rates on sago and tapioca in connection with the publication of tariff, is involved.

The tariff as filed bears on its face the statement that it is issued July 7, 1916, effective August 1, 1916. As a matter of fact, the filing date with the Board was later, it not being until July 13 that the tariff in question was received.

Under section 328 of the Railway Act, as amended by 1 and 2 Geo. V, chap. 22, section 11, it is provided that when a special freight tariff advances any toll previously authorized to be charged under the Railway Act, the company is to file and publish such tariff 30 days previous to the date the tariff is intended to take effect.

In view of the fact that the tariff was issued as of July 7, 1916, effective August 1, 1916, and the further fact that it was not filed with the Board until July 13, the non-compliance with the provisions of the Railway Act was taken up with the railway companies. The answer of the Great Northern is submitted by its solicitor, Mr. Haydon, said answer being sent out in the letter of the general solicitor of the company. It states, inter alia, that "the Interstate Commerce Commission usually allows rates on import traffic to be put into effect on short notice; that under the circumstances the Canadian Commission should do likewise......"

The Board is advised by the Canadian Pacific Railway Company as follows:-

"In this matter, through an oversight, Mr. R. H. Countiss, who issued Transcontinental Tariff 26-D neglected to file it with the Board the full thirty days in advance of its effective date as required by sections 328 of the Railway Act.

"Accordingly, I have to request that the Board consent to alter the effective date of the tariff to August 8, and arrangements will be made to refund, on application, the excess charges on any shipments which moved between August 1 and August 8, when it should properly have been effective."

As to the position taken by the general solicitor of the Great Northern that the Board should grant short notice on import traffic, that is manifestly a question of what power is given under the Railway Act. The Board is bound by the explicit provisions of the Railway Act.

As to the suggestion contained in the latter paragraph of the letter of the Canadian Pacific as above quoted, the initial filing not having been in compliance with the

provisions of the Railway Act, there is no power in the Board to alter the effective date of the tariff to August 1. The full 30 days notice is required in connection with filing with the Board. At best, however, there was only a period from July 13 to August 1 covered by notice, and this does not establish a credit of so many days in connection with a later and amended notice of filing. The tariff as filed has not met the requirements of the Railway Act, and the railway companies cannot legally collect rates thereunder in respect of movements within the scope of the Railway Act. If the railway companies desire to put the tariff in question into force, immediate steps should be taken to file in accordance with the terms of the Railway Act.

The facts are fully set out in the judgment of Mr. Commissioner McLean, dated September 9, 1916, concurred in by Chief Commissioner Drayton, Assistant Chief

Commissioner Scott and Mr. Commissioner Goodeve.

Re increase in rate on coal from Magara frontier via Michigan central.

This was a complaint made by the city of St. Catharines, the town of Thorold, and other parties interested, against the increase in rates on coal in carloads from the Niagara frontier to Thorold and St. Catharines for Niagara, St. Catharines and Toronto rail delivery.

It appeared that the Michigan Central Railway Company and the Niagara, St. Catharines & Toronto Railway Company had for many years a joint rate in effect on coal from the Niagara frontier to St. Catharines and other Niagara, St. Catharines & Toronto points, of 40 cents per ton, and of this rate the Michigan Central Railway received two-thirds and the Niagara, St. Catharines & Toronto Railway one-third. It appeared further that this rate was cancelled on May 5, 1916, because the companies were unable to agree upon the proportion each company should pay of the revenue.

Held that a joint rate on coal from the frontier to St. Catharines and adjacent points over the Michigan Central & Niagara, St. Catharines & Toronto Railways, should be established, but that it was not reasonable to expect that it should be as low as a one line rate. Held also that the Niagara. Sc. Catharines & Toronto Railway Company had made out a proper case for an increase. Held also that as far as the Board was concerned, it would accept the new tariff effective on short notice, and it was directed that an Order should go for the establishment, as soon as possible, of the joint rate of 47 cents with the proportion to the Michigan Central Company of 27 cents and to the Niagara, St. Catharines & Toronto Company of 20 cents per ton.

The facts are fully set out in the judgment of Assistant Chief Commissioner Scott, dated September 20, 1916, concurred in by Mr. Commissioner McLean.

R_{ℓ} canadian northern and stop-over charges on shipments of grain in goose lake district.

Complaints were made by shippers that the railways were making a stop-over charge of one cent per 100 pounds on grain transhipped at Saskatoon under the Order of the Board. The railways denied that this charge was being made. The Canadian Northern Railway tariff under which the grain moved provided for a charge of one cent per 100 pounds for extra terminal services limited to milling-and-storage or cleaning-in-transit movements. The Order complained against dealt with the transfer of grain originating on the Canadian Northern Railway tracks in Goose Lake district to the Grand Trunk Pacific for furtherance east. The shippers shipped at the regular Canadian Northern through rate. The division of the joint movement was settled between the railway companies.

Chief Commissioner, judgment dated July 31, 1916, concurred in by Commissioner Goodeve, held that the question turned entirely upon the rate situation applicable to the Canadian Northern Railway; that the rule in its tariff above referred to must be applied to movements made under the substituted service on the Grand Trunk Pacific Railway; and that as a result the one cent per 100 pounds could not be exacted from shippers in

respect to grain which the Canadian Northern simply handed over to the Grand Trunk Pacific at Saskatoon, but that all grain taken into the elevator for storage or cleaning in transit in respect to which the Canadian Northern could have made the charge under its tariff the charge could still be made notwithstanding that the Grand Trunk Pacific carried the grain east instead of the Canadian Northern Railway.

Re protection of crossing of canadian pacific railway at twelfth street, new westminster, b.c.

The city applied for the installation of a bell at this crossing. Both the Canadian Pacific Railway and the British Columbia Electric cross Twelfth street close to each other. The electric railway company's crossing is protected by a bell. The Board's Engineer reported that if another bell was installed it would be necessary at least to bond the track on each side of the street for 400 or 500 feet, and as the tracks are only used for switching purposes, the cars would necessarily have to stand at times on the bonded area waiting to be routed to the different tracks west of the street, switches of which are close to Twelfth street. The result would be a constant ringing of the bell until the cars were clear of the bonded area and might be the cause of the real danger point being overlooked.

Held, Chief Commissioner Drayton, July 27, 1916, concurred in by Commissioner Geodeve, that an Order go requiring the Canadian Pacific Railway Company to stop

and flag its trains over the crossing.

THE VANCOUVER, VICTORIA AND EASTERN RAILWAY AND NAVIGATION COMPANY AND THE MUNICIPALITY OF BURNABY.

The railway company applied for approval of changes in its line of railway involving the carrying of North street over the railway by means of a bridge. The municipality objected first, that this unnecessarily interfered with its rights in the North road, and second, as to the character of the construction. The railway proposed a wooden structure, the municipality contending that if the crossing applied for was allowed a steel bridge should be constructed. The municipality's suggestion was that the railway should be carried under the North road by means of a tunnel.

Held, Chief Commissioner, in his judgment dated July 28, 1916, concurred in by Commissioner Goodeve, that a steel bridge with a width of 24 feet on the road and six foot sidewalks extending on each side should be provided at this crossing; the railway

company to file detail plans embodying these directions.

 $R_{\it e}$ proof copies of the proposed New Canadian freight classification no. 17. File no. 25672 9.

The new classification made not only radical changes in ratings but substantial changes in the rules as well. These changes made it difficult for the Board and practically impossible for shippers to properly consider the effect of the new rules and the new classification without definite information as to all the changes sought.

Held, Chief Commissioner, July 26, 1916, concurred in by Assistant Chief Commissioner Scott, that an Order should go directing the railway companies to file with the Board and serve on the parties a statement showing, in the first instance, all changes made in the Rules and the grounds on which the changes are sought to be justified, and showing the results the changes would make on traffic in Eastern and Western Canada respectively.

Re complaint of messes. Doucet & freres, grandes piles, p.q., Re freight rates on brick.

The complaint as launched involved two matters. First, the question as to whether the railway company was under obligation to reduce rates in order to offset the unfavourable economic condition of the producer; and, second, the question of the general reasonableness of the rates in themselves.

It was pointed out in the judgment of the Board that there was no such obligation under the Railway Act to reduce rates to offset any unfavourable economic condition to which the applicants might be subjected. The obligation was simply to enforce reasonableness of rates, and the rate factor was only one factor in connection with the general situation.

As to the general reasonableness of the rates, it was said:—

The question of the general reasonableness of the rates may now be dealt with. The applicants complain of the rates to various points. They state they had decided to take a contract with people in Yamachiche, hoping to get a rate of 3½ cents; but they found they were being asked 5 cents, and this rate seemed to them to be unfair. The applicants claim that formerly there was a 3½-cent rate to Yamachiche.

The Board's tariff files show no records of a 3½-cent rate from Grandes Piles to Yamachiche. Before January 1, 1911, there was a rate of 4½ cents, this being the rate charged in accordance with the railway company's special mileage scale on brick and other building materials. Effective February 1, 1911, the rate was raised to 5 cents, at which point it has since stood. The Applicants stated that in 1915 there was a rate of two cents to Garneau Junction, and that for one cent extra they could get to Grand' Mere and Shawinigan Falls, on the Canadian Northern. The Board's records do not show a 2-cent rate from Grandes Piles to Garneau Junction. The rate shown is 3 cents.

Complaint is made regarding the rate to Montreal. The applicants state that they formerly had a rate of 5 cents to Montreal. This rate is now, and has been since August 1, 1913, $5\frac{1}{2}$ cents.

To Shawinigan Falls and Grand' Mere the Canadian Pacific mileages are 51 and 57 miles respectively, but it is only 6.6 miles to Garneau Junction, where connection is made with the Canadian Northern, and the latter's distance thence to Shawinigan Falls and Grand' Mere being under four miles, the situation falls within the scope of the General Interswitching Order.

At the hearing Mr. Macdonell, for the Canadian Pacific, admitted this as the explanation of the joint 4-cent rate. But in this computation he includes the full interswitching toll of 1 cent, whereas it should only be half a cent. Consequently any shipments which have been charged 4 cents have been overcharged ½ cent, and adjustment should be made accordingly.

As indicated, there is a mileage scale on brick and other building materials. This is the scale which is charged in respect of the destination points referred to by the applicants, excepting Montreal. To Montreal the scale rate would be 8 cents. The rate actually charged of $5\frac{1}{2}$ cents is, therefore, $2\frac{1}{4}$ cents below scale. A reduction is made in order to allow the longer distance points to compete in the larger consuming markets. This is to the advantage of the producers located at the longer distance.

Reference is made by the applicants to the fact that there are shipments from competing plants at St. Tite, on the Canadian Northern, to Shawinigan Falls, Grand' Mere, and Montreal, and that these shipments are made on the rates they desire to obtain from the Canadian Pacific. The rate from St. Tite to Montreal is 5 cents. This is a one-line Canadian Northern haul, and the rate of 5 cents is a special rate for the distance of 106 miles. The rate to Shawinigan Falls and Grand' Mere, viz., $3\frac{1}{2}$ cents, is the single line rate for the distance involved, 11 and 18 miles respectively.

Aside from the lower rate basis to Montreal, the reason for which has been explained, the brick movements in the province of Quebec are looked after generally on the special mileage scale, no lower rates being given to other shippers than the scale rates. A departure from the general rate basis would, therefore, be a preference in favour of the applicants and discrimination against their competitors. The application cannot be allowed.

The facts are fully set out in the judgment of Mr. Commissioner McLean, dated July 26, 1916, concurred in by Assistant Chief Commissioner Scott and Deputy Chief Commissioner Nantel.

Re complaint of f. L. Getzler, Montreal, Que., re rates on Pig Iron in Carloads.

In this complaint there was involved the question whether a movement under a combination of a class and commodity rate which gave a lower total than the through rate between the points in question governed; that is to say, what was involved was a question of refund.

The Board points out in its judgment that the through rate between the points in question was legally in force. The Board has no power to direct a refund, and the only redress it could give was to direct for the future, on application, and a proper establishment of the unreasonableness of the through rate, a reduction of the through rate to the combination of the rates as referred to. No such application was made to the Board.

The facts are fully set out in the judgment of Mr. Commissioner McLean, dated July 14, 1916, concurred in by Assistant Chief Commissioner Scott and Deputy Chief Commissioner Nantel.

Re complaint of messrs. Graham co., Ltd., belleville, ont., re freight rates on desiccated vegetables.

The applicants in shipping from their Michigan factories pay the fourth-class rate under the official classification, which appears to be 31.9 cents from Mayville and 34.8 cents from Casnovia to Montreal. They are asking that the same goods moving from a point in Canada to a Canadian port, under the official classification, should be given a lower classification than when moving from a point in the United States to the same port.

As has been pointed out, the railways are under no statutory obligation to use the official classification on export business from Canadian points to Canadian ports. When it is used, as has been pointed out, it, in general, gives a lower combination than is given under the combination of the domestic tariff and classification. That is to say, there is extended to Canadian business the advantage of a rate worked out on the greater volume of business offering in the United States and the effect of competition in reducing the rates to the United States ports. The use of the official classification in Canadian territory thus gives the advantage of maintaining a parity of ports irrespective of volume of tonnage offering.

The remedy asked for by the applicants by way of putting their commodities into the 5th class of the official classification cannot, therefore, for reasons given, be granted.

The combination of the fifth-class rate of the Canadian classification and the domestic tariff from Belleville to Montreal, plus the terminal charge of $2\frac{1}{2}$ cents, gives a rate of $21\frac{1}{2}$ cents. This is the same as the fourth-class export rate under the official classification. The fifth-class rate of the official classification, for which the applicants are asking, would be 18 cents. The fifth-class domestic rate, plus the terminal charge of 2 cents, would give a rate from Belleville to St. John of 31 cents. The fourth-class export rate on which the commodity is moving is 25.8 cents. The Applicants are asking for a fifth-class official rate of 22.1 cents. To Halifax, the combination of the domestic rate and terminal is 32 cents. The fourth-class export basis which the applicants enjoy is 25.8 cents. They are asking for a fifth-class rate of the official classification of 23.1 cents.

At Montreal, the terminal services consist of:—(a) The Harbour Commissioners' switching charge of \$2.50 per car, regardless of weight. On the basis of the minimum weight required for evaporated vegetables by the official classification, namely, 30.000 pounds, this charge is equivalent to 16.67 cents per ton.

(b) Unloading from car to steamship sheds, estimated at 30-35 cents per ton; but this charge may be disregarded, since the fourth and fifth-class rates include handling by the railway company.

(c) Wharfage, 20 cents per ton, of which the railway company pays a half.

(d) Port Warden's fee, 2 cents per ton.

While there is a terminal charge, by tariff, in the case of Montreal of $2\frac{1}{2}$ cents per 100 pounds, the situation is that the railway absorbs the Harbour Commissioners' switching charge and one-half of the wharfage charge. There remains then as the amount which should properly be set out in the tariff as the sum payable by the shipper as terminal charge 12 cents a ton, Port Warden's fee and half wharfage. There should, therefore, be a correction in the tariffs to the basis of six-tenth cents per 100 pounds, so far as Montreal is concerned.

The question whether port terminals should not be entirely absorbed in the domestic rates has not been spoken to. It is a matter which may be listed for hearing.

The facts are fully set out in the judgment of Mr. Commissioner McLean, dated June 23, 1916, concurred in by Assistant Chief Commissioner Scott and Deputy Chief Commissioner Nantel.

CITY OF MOOSEJAW, CANADIAN PACIFIC AND GRAND TRUNK PACIFIC RAILWAY COMPANIES.

The city applied for an Order directing interchange facilities between these two companies in Moosejaw. The Grand Trunk Pacific asked that the transfer be made by constructing the transfer and storage track connecting its branch to the elevator with the Outlook Subdivision of the C.P.R. et a point between Twelfth and Eleventh avenues. The C.P.R. objected to this location on the ground that there was a 1 per cent grade at its Outlook branch; that this connection involved a long haul up its grade, and that as senior to the G.T.P. its interest should be first considered. It suggested a construction and connection nearer the Government elevator. It developed after the hearing that the connection proposed by the C.P.R. involved a 2 per cent grade.

Held, Chief Commissioner in judgment dated July 21, 1916, concurred in by Commissioner Goodeve, that the transfer must be built on the Outlook subdivision of the C.P.R. as applied for by the G.T.P. unless the C.P.R. could modify the grades at the connecting point on the interchange track suggested by it so as to give the G.T.P. a grade, exclusive of curvature, not greater than 1 per cent. In this event the G.T.P. to contribute the sum of \$2,500 towards the cost. If the Outlook branch transfer was made, the G.T.P. to be at the entire cost of the construction.

GREAT WEST COAL COMPANY AND G.T.P.

The Great West Coal Company applied for an Order, under section 226 of the Railway Act, directing the G.T.P. to rebate or refund to the applicant company the sum of \$31,189.30, being the aggregate amount paid by the applicant company for the construction and completion of the spur constructed under Order No. 15283, by way of rebate out of the tolls.

The spur in question was built under an agreement between the parties.

The Chief Commissioner in an oral judgment delivered at the close of the hearing on June 15, 1916, distinguished between the case of a spur constructed under section 222 of the Railway Act and those built under section 226, where the construction is forced upon the company. Section 226 expressly provides for a rebate, and when the amount is refunded the spur becomes the property of the company. In summing up the Chief Commissioner said:—

"The two cases are entirely different. The provisions of section 226 cannot be applied to section 222. Section 223 stands on agreement; section 226 stands on statutory rights which alone give the right of refund.

"The application is dismissed."

CANADIAN WESTERN LUMBER COMPANY, LIMITED, AND GREAT NORTHERN RAILWAY COMPANY, FILE NO. 19475-24.

The lumber company applied for a direction as to the correct charges to be made and collected by the Great Northern on a shipment of fir and a ruling as to whether the minimum weight required on a car can also be the maximum capacity of the car. The car in question was a 32-foot flat car with a marked capacity of 40,000 pounds. According to the tariff this car would take a 40,000-pound minimum if the same is a 40-foot car with a capacity up to 100,000. The minimum in the case complained of was also the maximum that could be loaded on the car. The tariff of the Great Northern covering the movement of fir and other lighter woods contained an exception to the ordinary minimum of lumber loading of 40,000 pounds by providing that in cars 36 feet in length, when loaded to the "full visible capacity," the minimum would be the actual weight, but not less than 30,000. The argument of the company's representative proceeded on the assumption that the provision as to the "full visible capacity" applied to the car in question.

Held, Chief Commissioner in his interim judgment dated June 1, 1916, concurred in by Commissioner McLean, that the rule as to "visible capacity" could not be applied to a flat car unless the tariff itself supplied information as to the floor area to be occupied and the height to which the loading was to be carried. The tariff in question contained no such provision. The minimum must be left at 40,000 pounds, the marked capacity of

this flat car.

Re lake erie and northern railway company and city of Brantford. File no. 18034.60.

The railway company apply for approval of location of its station at the corner of Colborne and Water streets in Brantford. The approval of the site necessitated the use of a triangular strip of Water street having a width at the junction of Colborne street of 16 feet 3 inches, and extending along Water street for a distance of fifty-two feet. The railway company had purchased a triangular strip of land on the east side of Water street with a frontage on Colborne of 10 feet, making an opening on to Water street at the angle and on the Colborne street line of thirty-seven feet and at a right angle of thirty-three feet.

The city objects to the approval of the site on the grounds amongst others that the freight traffic for both the applicant company and the Brantford and Hamilton Radial is down Water street and passes the proposed railway station from Colborne street on a down grade of about 7 per cent; that the Brantford and Hamilton Radial Company proposes to pass over the street by a level crossing; that Water street leading from Colborne is on an acute angle, the apex around which the bulk of the freight from Colborne street would have to pass to get to the proposed station; that with the industries already located and those proposed to be located on Water street, the traffic would be too much conjested; and, further, that the proposed station does not comply in height with the city's by-law which requires the front of the station to be 30 feet in height from the curb.

The city agrees to the Order on condition that the Canadian Pacific Railway acquire an additional triangular strip of land, shown as "C" on the plan, to the east of that already acquired by it, having a frontage on Colborne street of 22 feet and

an extreme depth to Water street, on the east, of 39 feet.

The Board's Engineer recommends that if the company were compelled to take the portion marked "C" and deed it to the city for highway purposes, the city in exchange give to the company the land marked "A" and "B" as shown on the plan.

Held, Chief Commissioner, June 6, 1916, that an Order go approving the location of the station subject to the condition that the company obtains block "C" shown on the city's plan and deeds it to the city for highway purposes; the city to deed to the company blocks "A" and "B" in exchange.

Re CAR SERVICE RULES.

Car service charges for the time over the free time allowed by the Car Service Rules are independent of the tariff under which the shipment moved on the railway, and consequently the car involved in the application in question was liable to the Car Service Rules charged in force at the time of its arrival at destination.

The contention of the application that it was the lower car service charge in force

at the time the bill of lading was issued was not upheld.

The facts are fully set out in the judgment of Mr. Commissioner McLean, dated May 22, 1916, concurred in by Chief Commissioner Drayton.

CITY OF WINDSOR V. THE CANADIAN PACIFIC RAILWAY.

The city applied for an Order directing the railway company to provide and construct a suitable bridge over the company's railway at its intersection with London street.

In support of the application it was submitted that because of the increase in traffic on London street the present width of the bridge was insufficient and inadequate for traffic passing over it; that the municipality's intention was to pave the street at its intersection with the railway company's line, and before doing so desired that the bridge be repaired and widened; and that the double tracking the Sandwich, Windsor, and Amherstburg Railway proposed putting down on London street of itself necessitated a wider bridge. The company in opposing the application contended that there was no necessity for widening, and as the municipality desired a wider structure it should pay for it; and, also, that there was no power in the Board to order the widening of this bridge unless a case was made out on the ground of public safety.

The Board found as a fact that there was not sufficient traffic to warrant the

widening of the bridge.

On the legal issue the Chief Commissioner in his reasons for judgment, dated May 9, 1916, expressed the view that it was similar to that considered in Hamilton v. T. H. & B. Railway (Board's file No. 24499) and referred also to C. P. R. v. G. T. R., 49 S. C. R. 525, and London v. London Street Railway (Board's file No. 7264) and held, therefore, that the objections raised by counsel for the railway company could not prevail.

The company's responsibility was to maintain the bridge to meet present traffic requirements. The double tracking of the S. W. & A. Ry. Co. necessitated the widening of the bridge. An Order should, therefore, go authorizing the widening, and as the responsibility for maintenance was on the railway company, and as sooner or later the bridge, as a bridge, would have to be replaced, 65 per cent of the cost to be borne by the Canadian Pacific Railway and 35 per cent by the municipality or the S. W. & A. Ry. Co.

The street railway company was not a party to the application, and it was directed, therefore, that an opportunity be given that company to make what submissions, if any, it desired, on the question of costs.

LONDON AND PORT STANLEY RAILWAY VS. THE CITY OF LONDON.

By Order No. 23753, dated May 22, 1915, leave was given the London Railway Commission, operating the London and Port Stanley Railway, to take possession of, use, and occupy certain lands in the city of London belonging to the Grand Trunk Railway Company, and particularly described in the Order.

The Order was not acted upon, but at the hearing of the application to determine the compensation to be paid therefor, the Board suggested a temporary solution for the consideration of the parties. A modified plan submitted by the London Railway Commission carrying out the Board's suggestion was, upon the report of its Engineer, approved.

On the question of compensation, the Chief Commissioner, in his judgment dated May 9, 1916, concurred in by Commissioner McLean, expressed the view that it was quite possible this point need never be considered. The London Railway Commission obtained no permanent rights in the lands of the Grand Trunk which were not required by it at the time for railway purposes, and which in all probability would not be required until such time as the work of elevation contemplated would be undertaken. The work of construction to be done by the London Railway Commission at their own expense.

MARITIME TELEGRAPH AND TELEPHONE COMPANY AND DOMINION ATLANTIC RAILWAY COMPANY AND BAIRD AND CANADIAN PACIFIC RAILWAY COMPANY.

The Maritime Telegraph and Telephone Company applied for approval of plan and agreement showing the crossing of the Dominion Atlantic with overhead telephone wires, at the first highway crossing west of Port William Station from Halifax, N.S., and H. W. Baird, of Nakusp, B.C., applied for leave to cross under the tracks of the Nakusp and Slocan Subdivision of the C.P.R. with a four-inch stave water pipe at a point four miles from Nakusp.

Upon the general issue whether compensation should be allowed railways for use of their property or not, and the jurisdiction of the Board, the Chief Commissioner, on May 4, 1916, after referring to the pertinent sections of the Act, namely, 246 and

250, under which the applications were made, says in part:—

"The usual rule is, of course, that property shall not be taken or used under any enabling statute without payment of proper and sufficient compensation,

unless the Act itself in clearest terms provides to the contrary.

"The Act does not provide for the confiscation of the property of railways or of others. Indeed, the matter of terms and conditions expressly left as they are to the determination of the Board, are quite sufficient to cover any question of compensation that the railway is entitled to.

"Regard, however, must be had to the actual conditions usually applying

to applications of this kind."

and points out, further, that railways stretching, as they do generally speaking, over the whole country, must of necessity be crossed by telephone wires and to a lesser extent by wires of power and light companies, and their tracks must also be crossed underground by sewer, water, and gas pipes. Railway companies, in application of the kind, do not obtain compensation for the use of their property. The issue usually is whether the crossing could properly and safely be made under the circumstances of the particular cases and whether the railway's use of its property was thereby lessened or endangered. The necessity for these crossings is recognized by the railways. It is difficult to determine the compensation, if any, the company should be allowed where wires are erected at such a height over its right of way as not to interfere with the railway's use and occupation.

The Chief Commissioner:-

"The practice of the Board has been to allow such crossings without compensation. The railway is not in any way injured by them. The Order mcrely creates an easement which can be cancelled or varied should occasion from time to time require it.

"In case of any real or appreciable injury or damage to the railway, or its property, the ordinary rule requiring compensation would, of course, apply."

Re canadian pacific railway and new york central and suburban train service between montreal and highlands, quebec,

By an Order of the Board, No. 24921, dated April 20, 1916, these railway companies were directed to stop their trains at Highlands as set forth in the Order.

20c - 1

Complaints were made that as a result of this Order the New York Central was prevented from putting into effect its spring time-table. Order No. 24921 merely fixed the minimum service that Highlands should receive. It did not assume to cover traffic to other points, and there was nothing to prevent the company from augmenting the service if it so desired.

Held, Chief Commissioner Drayton, May 4, 1916, concurred in by Commissioner Goodeve, that the company should continue for the convenience of the public using its line, a service similar to that given during other summer seasons.

LONDON STREET RAILWAY AND GRAND TRUNK RAILWAY CROSSING AT LONDON,

The city of London applied for an Order directing the London Street Railway Company to lay and maintain a double track across the tracks of the Grand Trunk Railway at Richmond street in the city of London. In support of the application it was urged that a double track was necessary to protect the travelling public. The jurisdiction of the Board to make the Order was questioned, it being contended that under section 8 of the Railway Act, the Board only had to do with the connection of crossings from the standpoint of safety so far as the steam railway and its patrons were concerned, that the safety of the public travelling on the cars of the street railway was a question outside the jurisdiction of the Board.

Held. Chief Commissioner Drayton, in his considered judgment dated April 7, 1916, that under the provisions of the Railway Act the Board had jurisdiction to make the Order, and referred to sections 8, 227, 237, and 238.

It was found upon inspection that both south-bound and north-bound street cars were delayed an unusually long time as a result of the slow operation caused by the single track. Held, therefore, that a double track should be ordered.

Upon the question of costs which in view of the street railway company's financial position, the possibility of grade separation, and the relief obtained by the Order it was thought should be dealt with in a special way. The Grand Trunk Railway being senior, there was no suggestion that it should be called upon to contribute. Held, that the new diamonds required be supplied by the city: that the street railway be at the cost of double tracking its track to the rails of the Grand Trunk Railway, and pay the city the sum equivalent to 7 per cent on the expense the city is put to, so long as it operates over the Grand Trunk Railway tracks and uses the diamonds. The ownership of the diamonds to remain in the city.

IN TO RAILWAY CROSSING SIGN POSTS AT RAILWAY CROSSINGS AT GRADE.

This was an application by the Brotherhood of Locomotive Firemen and Enginemen for an order directing the railway companies subject to the Board's jurisdiction to erect railway crossing sign posts (mile whistle boards) at railway crossings at grade.

After hearing representatives of the men and the railway companies, the Board held that it should not interfere in the matter but should leave the railway companies free to maintain or discontinue the whistle boards if they saw fit, and the application was accordingly dismissed.

The facts are fully set out in the judgment of Assistant Chief Commissioner Scott, dated April 6, 1916, concurred in by Deputy Chief Commissioner Nantel and Mr. Commissioner McLean.

APPLICATION OF CANADIAN PACIFIC RAILWAY CO. TO AMEND BOARD'S GENERAL ORDER NO 65.

This was an application made by the Canadian Pacific Railway Company to amend the Board's General Order No. 65 by adding to clause (c) of paragraph 8 of said Order a proviso that the provisions of the clause should not apply to structures adjacent to any side track, spur or siding on the opposite side of which there is a lateral clearance of at least six feet from the gauge-side of the nearest rail, or to structures

adjacent to any side track, spur or siding on the opposite side of which there is a parallel track situate at a distance therefrom of at least thirteen feet from centre to centre of track.

The effect of this amendment would be to limit the protection of the train crew to one side of the train only, and it was pointed out that many cases would undoubtedly arise where operating signals could not be given from the side upon which the protecting space was provided.

The Board after giving the matter careful consideration decided that the Order

should stand, and that the application should be dismissed.

The facts are fully set out in the judgment of Assistant Chief Commissioner Scott, dated April 7, 1916, concurred in by the Deputy Chief Commissioner and Mr. Commissioner McLean.

TAYLOR COMPANY AND THE CANADIAN FLOUR MILLS COMPANY V. PERE MARQUETTE RAILWAT COMPANY.

Wheat was shipped from Goderich and Port McNicoll into Chatham where it was milled in complainants' mills and forwarded at the through rate plus the eastern charge of two cents per 100 pounds for milling-in-transit. Besides the through rate and the milling-in-transit charge the complainants had been subjected to a further charge by the Père Marquette for switching service from and to the transfer track and the complainants' mills. The complainants claimed that this switching charge should be absorbed by the Canadian Pacific Railway and contended that in any event the two charges were illegal and discriminatory against them and in favour of the mills situated on the Canadian Pacific Railway Company's tracks.

Judgment, Chief Commissioner, March 31, 1916, concurred in by Assistant Chief Commissioner Scott, and Commissioner Goodeve, was to the effect that there was no difference in principle between this case and the case of the Anchor Elevator and Northern Elevator Company against the Canadian Northern Railway (File No. 9816) in which the view is expressed that the Interswitching Order was not intended to apply and did not apply to terminals, and that it did not include milling in transit privileges; and that the carrier should not be required to absorb a portion of a switching charge; and that the one cent was a reasonable charge for the stop-over privileges there allowed.

Held, therefore, that transfer stop-over privileges and the work and expense incidental thereto do not include interswitching charges entailed by taking the traffic from the line of another railway company, and that the application must be dismissed.

Re montreal & southern counties train service to east greenfield park.

This was a complaint by the residents of East Greenfield Park, a village some distance south of the St. Lawrence river and approximately ten miles from the city of Montreal, for an improved service on the line of the Montreal & Southern Counties Ry. between their village and the city of Montreal.

Held that it was unreasonable for the company to have no trains stop at East Greenfield Park to bring people into the city between the hours of 8.16 a.m. and 3.18 p.m., and the Board directed that an Order should go that Train No. 131 should stop on flag at East Greenfield Park.

The Board also decided that in order that it might be able to determine whether the stop would be of much service, the company should be required to keep a record of the stops made during the first three months and report to the Board at the end of that time so that it might be able to determine whether the service should be continued.

The facts are fully set out in the judgment of Assistant Chief Commissioner Scott, dated March 29, 1917, concurred in by Mr. Commissioner McLean.

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IN re TELEGRAPH TOLLS.

This was a complaint that the rates into and out of Winnipeg were excessive. The matter devolved into a general investigation of the level of telegraph rates west of the Great Lakes. The decision as rendered, after dealing with the costs of construction as submitted and consideration of the allegation of discrimination as between the section east of the lakes and that west held that statutory obligations held down the rates east of the lakes and further held that there should be revisions of the existing rate schedule. The existing 25-cent rate within any given zone was recognized as being of general acceptance and was continued.

It is the practice of the companies in the case of points located practically on the boundary lines of the sections to provide that these points shall be in both the sections divided by the boundary line, according as the rate is lower. Examples of this have been given in earlier connections. The same arrangement should be continued in the readjustment of the rate areas as directed.

As incidental to the handling of messages, the evidence is that the telegraph companies have provided for free delivery limits in practically all the cities of Canada. Rule 49 of the Canadian Pacific Tariff Book provides that "telegrams will be delivered free within what are considered the corporate limits of towns or villages. Beyond the free delivery limits only the actual cost of delivery service must be collected." The same regulation is to be found in Rule 73 of the Great North Western Tariff Book, and in Rule 61 of the Grand Trunk Pacific. The question to what extent delivery limits may be established is one which must be dealt with by the company, subject to its actions not being discriminatory.

Within sections 1, 2 and 3, there is a provision for a rate of 15 cents, day or night, applying within a distance of 12 miles. It is suggested that this arrangement be made general. The evidence is that this rate is not made use of and that it is in fact a paper rate. A paper rate is not a measure of unjust discrimination, and the question of whether the rate may be justifiably extended to other sections which show no evidence as to a traffic demand for it is a question of traffic expediency for the company to deal with; for the establishment of experimental rates to develop business a matter which falls within the company's discretion. British Columbia News Co. v. Express Traffic Ass'u, 13 Can. Ry. Cas., 177.

In section A and section 1, the excess word rate is 1 cent; in all other sections it is 2 cents per word. The excess word rate in each section should be 1 cent.

As already set out, the rates in the territory embraced in Grand Trunk Pacific sections 4 to 11 are to be the same as those in the adjoining sections 4 to 11 of the Canadian Pacific territory, and the same excess word rates will therefore apply. In the case of messages from sections 2 or 3 into this territory and vice versa, and in similar movements as between sections 15 to 18, inclusive, and this territory, the excess word rates appropriate to the day rates provided for in the Grand Trunk Pacific tariffs may apply as maxima.

Where there is a movement between exclusive offices involving the carriage of a message over two lines, it is recognized that there are costs additional to those pertaining to a message handled by a single company between two points on its own system. At the same time, it is not reasonable that the sum of the full locals should be charged. The companies should, therefore, provide in their tariffs to cover such a movement over two lines, or more than two lines if in such case there be through rates substantially less than the sum of the locals.

The section system is modified as to the transition from one section to another by the 100-mile rule. As provided for in the Canadian Paeific tariffs, this is that a higher rate than 25 and 2 — i.e., 2 cents per excess word — will not be charged between offices that are not more than 100 miles apart by wire mileage, no matter in what different sections these may be. This does not apply in the case of offices east of section 1. A similar arrangement is in existence in the case of the Great North

Western, although it is not properly provided for by tariff. The Grand Trunk Pacific Telegraph tariffs carry the notation: "A higher rate than 25 and 2 will not be charged between offices that are not more than 100 miles apart (by wire)."

It is suggested that this distance should be increased to 250 miles. The 100-mile distance is something added to the rate section in order to ease the sharp transition from one section to another. It is a concession compared with what is done in freight rate practice; for while there in the case of rates grouped on producing points the attempt is made to have the group rates break between producing points, none the less there is the sharp transition from group to group which is inseparable from the difference in rate. The same thing is presented in any freight tariff where there is a mileage grouping basis, the rate advancing by groups of miles. The 100-mile rule is a reasonable concession to meet this situation in telegraphic transmission, and an addition to it at present is not justified. The arrangement as at present provided for is reasonable and should be continued.

Night rates cover telegrams filed before midnight to be transmitted some time during the night at the convenience of the telegraph company, and delivered in the morning.

The deferred message service thus carried on has a lower basis than that of the day message, but is related to it.

While there is a convenience to the sender because of the lower rate basis, there are also advantages to the company. There tends to be an additional volume of business attracted by the rates so offered; and in addition it enables a more economical utilization of the company's operating staff since it is able to distribute the burden during both day and night.

It was stated by Mr. Camp, in evidence, that the practice of having night rates had existed, so far as his company was concerned, ever since the Canadian Pacific Telegraph department had been in existence.

The Canadian Pacific gives detail for rate groups advancing by 5, 10 and 15-cent steps. For purposes of summary presentation the 25, 30, 40, 50, 60, 75 cents and \$1 rate may be taken. To this may be added a \$1.25 rate to cover the extreme range within Canada of the Grand Trunk Pacific telegraphs. The rates for night rates and for night lettergrams are as follows:—

Where day rate is.	Night rate is.						lettergram is Each additional 10 words or less.
25—1 25—2 30—2	$25-1 \ 25-1 \ 25-1 \ 25-1 \$	 	 	 	 	25	.05
403	30-2	 	 	 	 	40	.08
50-3	30-2						.10
604	503	 	 	 	 	60	. 1 2
755	60-4	 	 	 	 	75	.15
1.007	755	 	 	 	 	1.00	. 20
1.25-8	1.00-7						. 25

In the case of the Canadian Pacific, the Great North Western and the Grand Trunk Pacific each company has night rates applicable between offices on its respective system. The Great North Western has night rates between all its offices and those of the Western Union. In general, the night rate message has the same word basis as the day rate message, viz., 10 words. Attention was drawn to the fact that in section 1 and in the Maritime Provinces 25 words can be sent at night for the day rate, while in the other sections 10 words can be sent. As, however, as pointed out in the next paragraph, there are in these other sections, as in the sections in question, night lettergram arrangements whereby 50 words may be sent for the day rate, it does not appear necessary to follow this phase of the matter further.

There has come into existence of recent years the night lettergram arrangement whereby a deferred message service of greater volume, catering especially to business

needs, is available. The Canadian Pacific tariff books provide that night lettergrams may be accepted for all checked direct offices in Canada and the United States, i.e., all Canadian Pacific offices in Canada and all Postal Telegraph Offices in the United States. The Great North Western will accept night lettergrams for points on its own lines and for points on the lines of the Western Union. It also accepts such messages for "other line" offices. From a check, it appears that this covers practically all "other line" points in Canada. The Grand Trunk Pacific has night lettergram rates between all offices on its system.

It does not appear that there is any such condition existing as to require at

present any specific direction being made.

The facts are fully set out in the judgment of Mr. Commissioner McLean, dated March 28, 1916, concurred in by Assistant Chief Commissioner Scott and Mr. Commissioner Goodeve, and in concurring judgment of Chief Commissioner Drayton, dated March 29, 1916, in which inter alia he agrees that the route and financial conditions disclosed do not justify the Board in adopting the size of the section in question as the standard for the whole rate structure.

SEPARATION OF GRADES AT BELLEVILLE ROAD CROSSING, C.N.R., NAPANEE, ONT.

Held that the condition of the highway crossing would not warrant the separation of grades at this point; that while the subway would add materially to the safety of the traffic on the highway, the cost of the same would be excessive, and the Board would not be justified, under the circumstances, in placing a substantial part of the cost on the town of Napanee, and as there is no other available source of revenue to defray the cost of the work, the Board decided that under existing conditions the crossing should remain as it is at least for the present.

The facts are all fully set out in the judgment of Assistant Chief Commissioner

Scott, dated March 26, 1917, concurred in by Mr. Commissioner McLean.

Re INTERCHANGE TRACKS AT BELLEVILLE, ONT.

The Board had already decided in a previous case that there must be interchange of traffic at Belleville between the G.T.R., C.P.R., and C.N.R. companies, and the matter of suitable interchange facilities between each of these companies as the result

thereof came up for consideration.

The Board directed that an Order should go for the approval of the interchange tracks as shown on the plan filed with it by the C.P.R. Company, the work to be completed by May 1, 1917, and that the Order should contain a clause setting out that where traffic is between Belleville and a shipping point or destination common to the railway companies concerned, or any two of them, where interswitching facilities are provided, the company upon whose line, including private sidings tributary thereto, the traffic is loaded, should be entitled to the line haul and the privilege of effecting the required delivery on the line of the other company by means of interswitching at destination, provided that the said company can afford facilities and privileges equal to those of the competing carrier at no greater charge.

The facts are fully set out in the judgment of Assistant Chief Commissioner

Scott, dated March 26, 1917, concurred in by Mr. Commissioner McLean.

INCREASE OF EXPRESS DELIVERY LIMITS IN TORONTO.

It appeared that the express companies doing business in Toronto voluntarily established the practice of free delivery of express parcels in that city many years before the Railway Board was established, and that the original limits had been from time to time extended either by the express companies of their own motion, or by Order of the Board.

It also appeared that the present delivery limits did not follow the municipal boundaries, and were not based on any principle of mileage from a central distributing

office, nor were they arranged on density of population, and that at present sections of the city were without a service and were unjustly discriminated against.

The Board directed that an Order should go defining the free service and the toll service areas and stating that the new arrangements would become effective on May 1, 1917.

The facts are fully set out in the judgment of Assistant Chief Commissioner Scott, dated March 23, 1917, concurred in by Chief Commissioner Drayton and Mr. Commissioner McLean.

Re demurrage charges on privately owned cars on private sidings.

This was an application of the Nichols Chemical Co., Ltd., Toronto, who owned a number of private cars specially constructed for the transportation of acids. Rule 12 of the Canadian Car Service Rules cited as follows: "When both cars and tracks are owned by the same private party, no car service tolls shall be charged."

It appeared that the cars in question were not owned by the consignee, and, theretore, were not exempt, under this rule, from the usual demurrage charges, and it was directed that the parties be informed that Rule 12 did not exempt the consignees of the Chemical Co. from the payment of demurrage.

The facts are fully set out in the judgment of Assistant Chief Commissioner Scott, dated March 10, 1916, concurred in by Deputy Chief Commissioner Nantel and Mr. Commissioner Goodeve.

Freight---

8 GEORGE V, A. 1918

APPENDIX "B."

REPORT OF CHIEF TRAFFIC OFFICER, J. HARDWELL.

S_{JR},—I have the honour to submit, for the Twelfth Annual Report of the Board. a memorandum of the freight, passenger, express, telephone, telegraph and sleeping and parlour car schedules filed with the Board from November 1, 1904, when, by order of the Board, under the authority of section 311 of the Railway Act, 1903, the railway companies commenced filing their tariffs, to March 31, 1916; and from April 1, 1916, to March 31, 1917, inclusive; also, of the more important orders relating to traffic issued by the Board to March 31, 1917:—

Schedules received from November 1, 1904, to and including March, 31, 1916:-

		9,666	r reight
	30.868	21,202	Local tariffsSupplements
	50,303	21,524 62,454	Joint tariffs
	83,978	91,337	International tariffs
	365,500	274,163	Supplements
480,346		_	Passenger—
	20,397	9.345 11.052	Local tariffs
	20,001		Joint tariffs
	16,788	10,641	Supplements
		$\substack{15,056 \\ 26,553}$	International tariffs
	41,609	20,000	Supplements
78,79		4,923	Express— Local tariffs
		52,132	Supplements
	57,055	- 3,660	Joint tariffs
	15 000	12,036	Supplements
	15,696	1,768	International tariffs
	2,729	961	Supplements
75,480		_	Telephone—
	2,016	$\substack{968\\1,048}$	Local tariffs
	2,010	2,251	Joint tariffs
	8,561	6,310	Supplements
	0,000	428	International tariffs
	7,058	6,630	Supplements
17,63		65	Sleeping and Parlor Car— Local tariffs
		75	Supplements
	140	36	Joint tariffs
	109	73	Supplements
	109	61	International tariffs
	254	193	Supplements
503			Telegraph—
		$\begin{array}{c} 102 \\ 112 \end{array}$	Tariffs
214	214		

Schedules received from April 1, 1916, to and includin	g March	31, 1917:-
Freight-		
Local tariffs 1,021		
Supplements		
0.000	3,023	
Joint tariffs		
Supplements	11,043	
International tariffs	11,010	
Supplements		
	36,414	
-		50,480
Passenger—		
Local tariffs 1,283		
Supplements	0.074	
Toint teriffs 1.147	3,074	
Joint tarmer.		
Supplements. 12	3,062	
International ta .Hs	0,002	
Supplements		
	6,213	
-		12,349
Express—		
Local tariffs		
Supplements		
	738	
Joint tariffs		
Supplements 522	070	
International tariffs 405	852	
International tarmes.		
Supplements	642	
		2,232
Talanhana		
Telephone— Local tariffs		
Supplements		
	134	
Joint tariffs		
Supplements 836		
	861	
International tariffs		
Supplements	1,275	
	1,210	2,270
		-,
Sleeping and Parlor Car—		
Local tariffs		
Supplements	43	
Joint tariffs 9		
Supplements		
	33	
International tariffs		
Supplements	157	
	151	233
_		-00
Telegraph—		
Tarinto		
Supplements	64	
		64
Combined totals, all schedules		67,628
Grand total		720,600

SUMMARY OF TRAFFIC ORDERS OF GENERAL INTEREST ISSUED DURING THE YEAR ENDED MARCH 31, 1917.

No. 24862, April 4, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and La Compagnie de Telephone St. Ours, Limitee, operating in the counties of Richelieu, St. Hyacinthe and Verchères, province of Quebec.

No. 24865, April 4, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Malahide and Bayham Telephone Association, Limited, operating in the counties of Elgin and Oxford,

province of Ontario.

No. 24767, April 11, 1916.—Approves a form of release and power of attorney to be signed by physicians and others who desire, for special reasons, to travel on the freight trains and in the baggage cars of the Toronto, Hamilton and Buffalo Railway Company.

No. 24909, April 18, 1916.—Empowers the London and Lake Eric Railway and Transportation Company to sell its passenger tickets to points on or via the Michi-

gan Central Railroad.

No. 24917, April 22, 1916.—Approves a form of release and power of attorney to be signed by physicians and others who desire, for special reasons, to travel on the freight trains and in the baggage cars of the Grand Trunk Railway Company of Canada.

No. 24922, April 26, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the corporation of the township of Dawn, operating in the counties of Lambton and Kent, province of Ontario.

No. 24938, April 25, 1916.—Amends order No. 19570, dated June 13, 1913, by making an allowance of 500 pounds in weight when slats are furnished by shippers in refrigerator cars not equipped with false floors for the carriage of earload shipments of fruit.

No. 24948, May 6, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Kemble-Sarawak Telephone Company, Limited, operating in the county of Grey, province of Ontario.

No. 24976, May 15, 1916.—Prescribes regulations for the handling of fruit from

Jordan, Ontario, by the Canadian Express Company.

No. 24977, May 15, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Palace Road Telephone Company, Limited, operating in the county of Lennox and Addington, province of Ontario.

No. 24994, May 22, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and La Cie de Telephone Local de Wotton, operating in the county of Wolfe, province of Quebec.

No. 25025, May 31, 1916.—Approves a form of release and power of attorney to be signed by physicians and others who desire, for special reasons, to travel on the freight trains and in the baggage ears of the Grand Trunk Pacific Railway Company.

No. 25050, June 10, 1916.—Requires the Grand Trunk Railway Company to interswitch cars between its team tracks and the London and Port Stanley Railway at

London, Ont., under an agreement made between the companies in 1870.

No. 25055, June 12, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Dunsford Telephone, Light and Power Co-operative Association, Limited, operating in the county of Victoria, province of Ontario.

No. 25056, June 12, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Cameron Telephone Union, operating in the county of Victoria, in the province of Ontario.

No. 25057, June 12, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Highland Telephone Company, Limited, operating in the counties of Simcoe and Dufferin, province of Ontario.

No. 25058, June 12, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telphone Company and the corporation of the township of MacDonald and Meredith, operating in the district of Algonia, province of Ontario.

No. 25059, June 12, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the corporation of the village of Caldwater executive in the country of Signature in 100 and 100 are in the country of Signature in 100 and 100 are in the country of Signature in 100 are in the country of Signature in 100 are in the country of Signature in 100 are in

of Coldwater, operating in the county of Simeoe, province of Ontario.

No. 25060, June, 12, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Pleasant Valley Telephone Association, operating in the county of Lennox and Addington, province of Ontario.

No. 25061, June 12, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the corporation of the township of Goderich, operating in the county of Huron, province of Ontario.

No. 25074, June 9, 1916.—Requires the Canadian Pacific Railway to accept live stock from the Canadian Northern Railway and to switch same to the east end cattle

market, Montreal, at a charge of \$5 per car.

No. 25087, June 19, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Hawley Telephone Association, operating in the county of Lennox and Addington, province of Ontario.

No. 250c8, June 20, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the corporation of the township of Mersea, operating in the county of Essex, province of Ontario.

No. 25089, June 19, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Hopetown Telephone Company, Limited, operating in the county of Lanark, province of Ontario.

No. 25098, June 23, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Mink Lake Rural Telephone Company, Limited, operating in the county of Renfrew, province of Ontario.

No. 25106, June 26, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Rosedale and Rural Telephone Company, operating in the county of Frontenae, province of Ontario.

No. 25124, July 3, 1916.—Approves Standard Maximum Mileage Freight Tariff C.R.C. No. 20 of the Edmonton, Dunvegan and British Columbia Railway Company.

General Order No. 167, July 3, 1916.—Permits the railway companies, owing to increased operating expenses, to make certain increases in their freight rates in Eastern Canada.

No. 25205, July 26, 1916.—Prescribes a minimum load of 30,000 pounds for lumber loaded in ears of a capacity of 2,050 cubic feet or less, from Pacific Coast and Interior mills to points east.

Noo. 25226, July 31, 1916.— Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the South Crosby Rural Telephone Company, Limited, operating in the county of Leeds, province of Ontario.

No. 25230, August 1, 1916.—Permits railway companies in Western Canada to make certain increases in their distributing freight rates from Winnipeg, Portage la Prairie, and Brandon, so as to conform to the basis laid down in the Judgment of the Board in the Western Rates Case, dated April 6, 1914.

No. 25232, July 31, 1916.—Requires the Great North Western Telegraph Company to restore the telegraph tolls charged prior to July 1, 1916, from Le Pas, Man.

No. 25248, August 2, 1916.—Approves Supplement No. 8 to Express Classification for Canada No. 3.

No. 25261, August 11, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Bethesda and Stouffville Telephone Company, Limited, operating in the counties of York and Ontario, in the province of Ontario.

No. 25279, August 14, 1916.—Amends the Express Classification so as to provide

for the carriage of fruit in leno-covered baskets.

No. 25285, August 18, 1916.—Authorizing the Grand Trunk and Canadian Pacific Railways to charge special tolls for detention to through cars containing western lumber and forest products at Sarnia, Ont., and Cartier, Ont.

No. 25298, August 19, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Rydal Bank Telephone

System operating in the district of Algoma, province of Ontario.

No. 25306, August 21, 1916.— Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Halton Telephone Company, Limited, operating in the county of Halton, province of Ontario.

No. 25311, August 21, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Blind Line Telephone

Company, Limited, operating in the county of Grey, province of Ontario.

No. 25343, September 1, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Westport Rural Telephone Company, Limited, operating in the counties of Leeds, Frontenac and Lanark, province of Ontario.

No. 25344, September 1, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telphone Company and the Corporation of the township of Monck, operating in the district of Muskoka, province of Ontario.

No. 25345, September 1, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Corporation of the township of Watt, operating in the district of Muskoka, province of Ontario.

No. 25348, September 1, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Leeds and Frontenac Rural Telephone Company, Limited, operating in the counties of Leeds and Frontenac, province of Ontario.

No. 25437, September 20, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Pleasant View Telephone Company, Limited, operating in the county of Grey, province of Ontario.

No. 25447, September 19, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Zion Line Telephone Association, Limited, operating in the county of Renfrew, province of Ontario.

No. 25448, September 19, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Omemee Telephone Company, Limited, operating in the counties of Victoria and Durham, province of Ontario.

No. 25457, September 22, 1916.—Approves standard Maximum Mileage Freight Tariff C.R.C. No. 1113 of the Toronto, Hamilton and Buffalo Railway Company.

No. 25464, September 25, 1916.—Prescribes a joint rate of 47 cents per ton on coal from the Niagara frontier to Thorold and St. Catharines over the Michigan Central Railroad and Niagara, St. Catharines and Toronto Railway.

No. 25496, October 3, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Mount Horeb Telephone Association, operating in the county of Grey, province of Ontario.

No. 25506, October 3, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Jackson Telephone Association, operating in the county of Grey, province of Ontario.

No. 25507, October 6, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Clavering Telephone Association, operating in the counties of Grey and Bruce, province of Ontario.

No. 25551, October 20, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Union Telephone Com-

pany. Limited, operating in the county of Wellington, province of Ontario.

No. 25561, October 20, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Shamrock and Renfrew Telephone Association, operating in the county of Renfrew, province of Ontario.

No. 25563, October 25, 1916.—Approves Standard Maximum Mileage Freight Tariff C. R. C. 1244 between stations on the lines of the Great Northern Railway in British Columbia.

General Order No. 173, October 26, 1916 (Corrected).—Prescribes tolls for the

use of heated refrigerator cars between Eastern and Western Canada.

No. 25570, October 27, 1916.—Authorizes the construction of an interchange track by the Lake Erie and Northern Railway for the forwarding and delivering of traffic between its railway and the Toronto, Hamilton, and Buffalo and Grand Trunk Railways at Brantford, Ontario.

No. 25575, October 27, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Massey Station Telephone Company, Limited, operating in the district of Algoma, province of Ontario.

No. 25576, October 27, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Millbrook Rural Telephone Company, Limited, operating in the counties of Durham and Northumberland, province of Ontario.

No. 25577, October 27, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Ardtrea Telephone Asso-

eiation, operating in the county of Simcoe, province of Ontario.

No. 25578, October 27, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Department of Lands. Forests and Mines for province of Ontario, operating from the village of Kearney to several points in Algonquin Provincial park, district of Nipissing, province of Ontario.

No. 25582, October 30, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Wilberforce Rural Telephone Company, Limited, operating in the county of Renfrew, province of Ontario.

No. 25584, October 25, 1916,—Approves Standard Maximum Mileage Freight Tariff C. R. C. No. 1251, between stations on the lines of the Great Northern Railway in British Columbia.

No. 25619, November 11, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the North Cavan Rural Telephone Company, Limited, operating in the county of Durham, province of Ontario.

No. 25630, November 15, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Wolford Rural Telephone Company, Limited, operating in the counties of Grenville and Lanark, province of Ontario.

No. 25636, November 16, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Dore Bay Telephone Company, Limited, operating in the county of Renfrew, province of Ontario.

No. 25656, November 23, 1916.—Requires the Grand Trunk, Canadian Pacific and Canadian Northern Railways to publish joint merchandise tariffs in the territory between Toronto and Montreal on the basis of 2 cents per 100 pounds, first class freight over the former cancelled rates.

No. 25662, November 24, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Canadian Explosives, Limited, operating in its factory of Nobel, with lines extending to its different departments, in the district of Parry Sound, province of Ontario.

No. 25664, November 24, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Parkhill Rural Telephone Company, Limited, operating in the county of Middlesex, province of Ontario.

No. 25667, November 27, 1916.—Requires the Grand Trunk, Canadian Pacific and Canadian Northern Railways to publish special commodity rates on white lead, in carloads, from Montreal to points in Eastern Canada where paint is manufactured.

No. 25681, November 28, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Mallorytown Telephone Company, Limited, operating in the county of Leeds, province of Ontario.

No. 25687, November 28, 1916.—Approves Supplement No. 8 to Canadian Freight Classification No. 16.

No. 25698, December 4, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Sandwich West Co-operative Telephone Association, operating in the county of Essex, province of Ontario.

No. 25699, December 4, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the East Middlesex Telephone Company, Limited, operating in the counties of Middlesex, Oxford, and Perth, province of Ontario.

No. 25704, December 7, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Mississippi Telephone Company, Limited, operating in the county of Lanark, province of Ontario.

No. 25735, December 18, 1916.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the South McNaughton Telephone Company, Limited, operating for the county of Renfrew, province of Ontario.

No. 25737. December 20, 1916.—Approves Standard Maximum Mileage Freight Tariff C.R.C. No. 23, of the Moneton and Buctouche Railway.

No. 25749, December 21, 1916.—Prescribe telephone tolls for subscribers on Toronto Island during the summer season.

General Order No. 174, December 23, 1916.—Permits increased demurrage tolls by railways in Canada between January 1 and April 30, 1917, with the object of lessening general traffic congestion.

General Order No. 175, December 26, 1916.—Permits increased tolls for demurrage and track storage on grain and lumber held in transit at Cartier, Sarnia, Capreol and North Bay, Ont., for the period from January 1, 1917, to April 30, 1917.

General Order No. 176, December 26, 1916.—Requires railway companies, from October 15 to March 31 in every year, to furnish all available cars for coal shipments, and where the movement is over more than one railway the car to be furnished by the company obtaining the long haul, or if such company is unable to do so, the company obtaining the short haul to supply the car, and to receive a special per diem compensation of \$1.25 per car.

No. 25754, December 27, 1916.—Refuses an application of the Great North Western Telegraph Company for an increase in the charge per word for messages of over ten words in eastern Canada, pending decision by the Supreme Court as to the effect of Acts relating to the Montreal Telegraph Company.

No. 25761, December 28, 1916.—Requires the Canadian Pacific Railway to continue in effect on its western lines special mileage rates on forest products for distances over 500 miles.

No. 25780, January 3, 1917.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Fallis Line Telephone Company, Limited, operating in the county of Durham, province of Ontario.

No. 25797, January 10, 1917.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Corporation of the township of Hay, operating in the county of Huron, province of Ontario.

General Order No. 177, January 10, 1917.—Requires tariffs of freight rates from points in the United States to points in Canada to provide that the rates, unless specifically indicated as being competitive, will apply to intermediate points in Canada not mentioned therein by name.

No. 25816, January 23, 1917.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Back Line Telephone Association, operating in the county of Dufferin, province of Ontario.

No. 25817, January 23, 1917.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Dereham Telephone Company, Limited, operating in the counties of Oxford and Elgin, province of Ontario.

No. 25818, January 23, 1917.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Corporation of the township of Medonte, operating in the county of Simcoe, province of Ontario.

No. 25819, January 23, 1917.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Norfolk and Tillsonburg Telephone Company, Limited, operating in the counties of Norfolk and Elgin, province of Ontario.

No. 25826, January 24, 1917.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Falkirk Telephone Company, Limited, operating in the county of Middlesex, province of Ontario.

No. 25827, January 23, 1917.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Corporation of the township of Tay (operating the North River Municipal Telephone System), in the county of Simcoe, province of Ontario.

No. 25828, January 24, 1917.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the corporation of the township of Harvey, operating in the county of Peterborough, province of Ontario.

General Order No. 180, January 30, 1917.—Approves Supplement No. 10 to Express Classification for Canada No. 3.

No. 25846, February 2, 1917.—Requires the Canadian Pacific to publish a tariff putting into effect a rate of \$3.04 per net ton on feldspar from Maberley, Ont., to East Liverpool, Ohio.

No. 25859, February 6, 1917.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Cavan Rural Telephone Company, Limited, operating in the county of Durham, province of Ontario.

No. 25861, February 10, 1917.—Enjoins the Grand Trunk Railway Company from charging a greater rate on lumber from Midland, Ont., to Cleveland, Ohio, than it concurrently charges from Penetang, Ont., to the same destination.

No. 25864. February 12, 1917.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Beckwith and Montague Rural Telephone Company, operating in the county of Lanark, province of Ontario.

No. 25877, February 16, 1917.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the E. J. Graham private telephone line, owned and controlled by the Riordan Pulp and Paper Company. Limited, operating in the county of Terrebone, province of Quebec.

No. 25879, February 19, 1917.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Saugeen Rural Telephone Company, Limited, operating in the county of Bruce, province of Ontario.

No. 25891, February 15, 1917.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the East Luther Telephone Company, Limited, operating in the county of Dufferin, province of Ontario.

General Order No. 183, February 24, 1917.—Extends to express companies the provisions of General Order No. 14 (Order No. 5117), dated July 30, 1908, permitting the filing of certain tariffs by joint agents under power of attorney.

No. 25903, February 26, 1917.—Approves Standard Maximum Mileage Freight

Tariff C.R.C. No. 361 of the Essex Terminal Railway Company.

No. 25924, March 6, 1917.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Silver Creek Telephone Association, operating in the county of Bruce, province of Ontario.

No. 25925, March 6, 1917.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Snake River Telephone

Association, operating in the county of Renfrew, province of Ontario.

No. 25926, March 6, 1917.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Metcalfe Rural Telephone Company. Limited, operating in the county of Carleton, province of Ontario.

No. 25941, March 16, 1917.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the South Diagonal Telephone

phone Association, operating in the county of Grey, province of Ontario.

No. 25942, March 16, 1917.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Upper Admaston Telephone Company, Limited, operating in the county of Renfrew, province of Ontario.

No. 25943, March 16, 1917.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Udney Telephone

Company, Limited, operating in the county of Ontario, province of Ontario.

No. 25944, March 16, 1917.—Approves Standard Maximum Passenger Fare of four cents per mile on Canadian Northern Brazeau Subdivision west of Tannis, Alta. No. 25954, March 22, 1917.—Prescribes express delivery limits in the city of Trail,

B.C.

No. 25956, March 22, 1917.—Permits railway companies to charge \$3 per car for lining cars for the carriage of flaxseed in bulk.

General Order No. 184, March 22, 1917 (amending Order No. 8860).—Requires reilway companies to make the following allowances for grain doors at and west of Fort William: Lower car door, \$1.50, upper car door, 75 cents.

No. 25960, March 23, 1917.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Corporation of the Township of Flos, operating in the county of Simcoe, province of Outario.

No. 25968, March 26, 1917.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Evergreen Telephone Company, Limited, operating in the county of Renfrew, province of Ontario.

No. 25973, March 27, 1917.—Approves Standard Maximum Passenger Fare of four cents per mile on the Canadian Northern Railway Company's branch lines in British Columbia.

General Order No. 185, March 30, 1917.—Reduces the Freight Classification ratings for carload shipments of veneers.

No. 25976, March 30, 1917.—Approves an agreement for the interchange of telephone services between the Bell Telephone Company and the Eastern Townships Telephone Company, Limited, operating in the counties of Richmond, Compton, Stanstead, Shefford, Drummond and Arthabaska, province of Quebec.

No. 25980, March 30, 1917.—Requires the construction of an interchange track between the Grand Trunk, Canadian Pacific and Canadian Northern Railways at

Belleville, Ont.

APPENDIX "C."

REPORT OF CHIEF OPERATING OFFICER, GEO. SPENCER.

Ottawa, June 16, 1917.

DEAR SIR,—I have the honour to submit herewith, for the Board's 12th Annual Report, a synopsis of the work performed by its Operating Department during the year ending March 31, 1917.

THE REPORTING AND INVESTIGATING OF ACCIDENTS ATTENDED BY PERSONAL INJURY OR LOSS OF LIFE.

During the year, accidents to the number of 1,718, covering 383 persons killed and 1,693 persons injured, were reported to the Board by the various railway companies under its jurisdiction. For particulars, the reader's attention is directed to statements Nos. 1, 3, and 4.

Out of the total of 1,718 accidents reported, as above referred to, accidents to the number of 694, covering 228 persons killed and 628 persons injured, were inquired into.

It will be observed that out of a total of 383 persons killed and 1,693 injured, there were "trespassers" to the number of 129 killed and 79 injured. In this connection, reference is made to statement No. 12.

A perusal of statements Nos. 2, 5, and 6, which are comparative statements of the killed and injured, as between passengers, employees, and others, class of accident and railways, reveals an increase of 46 persons killed and 568 persons injured over the preceding year.

The matter of highway crossing accidents during the past year is set out in detail in statements Nos. 3, 4, and 7.

As to the protection provided at highway crossings during the year, reference is made to statements Nos. 8 and 9.

Attention is directed to statements Nos. 10 and 11, setting out in detail the situation as regards highway-crossing accidents during the past five years. It will be observed therefrom that there has been a total of 556 accidents, covering 252 persons killed and 477 persons injured. There have been 151 accidents at protected crossings, covering 66 persons killed and 122 persons injured. At unprotected crossings there have been 415 accidents, covering 186 persons killed and 355 persons injured. It is pointed out that the number of accidents at highway crossings, wherein automobiles are concerned, is on the increase. A close perusal of statement No. 11 will show that, during the past five years, there have been 86 such accidents, 5 in 1913, 17 in 1914, 13 in 1915, 15 in 1916, and 36 in 1917.

INSPECTION OF SAFETY APPLIANCES ON FREIGHT CARS, AND LOCOMOTIVES.

The work coming under this heading is carried on under the provisions of section 264 of the Railway Act, and the Board's General Order No. 102. Details of the year's work are to be found in the subjoined statements Nos. 15, 16, and 17-A and B. It is obvious that the inspection of some 58,000 cars, with the discovering of defects

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totalling 3.495, entails considerable effort both as regards field work and the resultant filing, checking, and recording of the numerous reports, in addition to correspondence necessary in taking up the various defects with the several railway companies.

INSPECTION OF MOTIVE POWER.

This division of the work embraces the entire locomotive and tender and all parts and appurtenances thereof, and is carried on under sections 264-266 and 267 of the Railway Act, and the Board's General Orders Nos. 12, 31, 66, 78, 102, 107, 131, and 171.

Special mention might, perhaps, be made regarding General Order No. 78, commonly known as the Boiler Inspection order. Under the said order, report forms, comprising the result of monthly and annual inspections of locomotive boilers and their appurtenances, to the number of approximately 60,000 have been filed during the year. The checking and reporting of the said reports and transmitting to the railway companies defective or improper conditions reported by our Inspectors, and in addition the correspondence relative thereto, naturally creates an extensive line of work, both as regards field and office.

During the year, locomotives to the number of 6,890 were inspected, out of which 1,210 were found defective, representing 17.56 per cent. In the majority of cases the defects were promptly remedied on attention being called to them, which indicates that, with a few exceptions, the responsible officials are diligent in their efforts to comply with the requirements of the law.

The number of applications for extending of time for removal of flues, as provided for in rule 5 of General Order No. 78, have been very limited, amounting to, perhaps, a dozen or more. The applications were granted in nearly every case as the examinations on the part of our inspectors substantiated the material as filed by the companies with their applications.

Attention is now directed to the fifth, on page 2, and last headings of statement No. 4. These headings reveal the fact that 7 employees were killed and 120 employees injured during the year. The number of investigations made into accidents under the said headings numbered 39, covering 4 killed and 35 injured. It will be observed that quite a number of accidents of this character were not investigated for the reason that they were more or less trivial and due to lack of prudence on the part of the employees concerned.

The number of personal casualties resulting from the failure of locomotive boilers and their appurtenances were, it is gratifying to state, very limited, totalling 1 killed and 9 injured as indicated by the following summary:—

	Injured.	Killed.
Canadian Northern—		
July 19th, engine 2165, Wash out plug	1	
Oct. 14th, " 1386, Squirt hose	1	
Oct. 18th, " 2120, Water glass	1	
Nov. 15th, " 2082, Tube burst	1	
Dec. 23rd, " 2436, Water glass	ī	
Grand Trunk—	-	
Aug. 20th, engine 2023, Squirt hose	1	
Michigan Central—	-	
Sept. 6th, engine 7565, Tube burst	1	
Père Marquette—	1	
July 28th, engine 605, Tube burst		r
Canadian Pacific—		
Jan. 19th, engine 3837, Crown sheet	1	
Feb. 17th, " 871, Crown sheet	1	
Total	9	1

It is pointed out that the two crown sheet failures were the result of low water, no contributing causes being found.

A perusal of the last heading on page 3 of statement No. 4 and the first heading on page 4 of the same statement show that one employe was killed and thirteen injured account falling off of tender while taking coal and water. In this connection reference is made to general orders Nos. 171 and 172 which require locomotives to be equipped with hand railings and foot rests, and the tenders to be equipped with hand railing.

INSPECTION OF PASSENGER EQUIPMENT, STATION BUILDINGS AND PREMISES.

The work under this heading is carried on by the inspectors while en route taking up various other matters, and has to do with the features of safety, cleanliness, accommodation, etc. Numerous matters have been brought to the attention of the proper officers with good results.

APPLICATIONS AND COMPLAINTS re TRAIN AND STATION SERVICE.

A large part of the work of the department is the inquiring into applications and complaints in the matter of train and station service. These number several hundred, and will be found enumerated in an appendix prepared by the Secretary's Department.

It might not be amiss to point out that a great deal of work which would come under this heading was done in connection with the movement of the Western Grain Crop, and also in connection with the fuel situation in Eastern Canada. Difficulties in transportation were brought about very materially by extremely cold and stormy weather.

The time of the Operating Department's staff was taken up with both these subjects more or less continuously from November till March.

In conclusion, it might be stated that in order to accomplish the work briefly outlined above, it has necessitated the travelling of approximately 350,000 miles by the staff of the department.

8 GEORGE V, A. 1918 '

Statement No. 1.—Showing the number of Passengers, Employees and other Persons Killed and Injured on the various railways in Canada, under the Board's jurisdiction, for the year ending March 31, 1917.

	Passe	ngers.	Emple	oyees.	Oth	ers.	To	tal.
Name of Railway.	К.	I.	К.	I.	К.	I.	К.	Ι.
Grand Trunk	4	53	42	396	68	100	114	549
Canadian Pacific	11	162	73	91	77	72	161	325
Canadian Northern		26	15	262	20	30	35	318
Michigan Central		6	9	200	8	7	17	213
Grand Trunk Pacific		23	8	26	4	3	12	52
Niagara, St. Catharines and Tor-							_	
onto			2	1	5		7	1
Pere Marquette		2	3	29	2		5	31
Toronto, Hamilton and Buffalo				54	5	5	5	59
Quebec, Montreal and Southern				6		1		7
Dominion Atlantic			1	4	2		3	4
Winnipeg Joint Terminals				1	2		2	1
Esquimalt and Nanaimo				1		1		2 5
Montreal and Southern Counties		2	1	3	1		2	
Temiscouata				1				1
Algoma Central and Hudson Bay				1	1	1	1	4
Midland				1				1
Hamilton Radial Electric						1		1
Algoma Eastern					1		1	
Red Mountain		 				1		1
Lake Erie and Northern				6		2		8
Quebec Light and Power					1		1	
London and Port Stanley					1		1	
New York Central		1		5	2	3	2	9
Vancouver and Lulu Island					1		1	
Ottawa and New York				1	. .			1
London and Lake Erie							1	
Vancouver, Victoria and Eastern		9		40	2	1	2	43
Boston and Maine		. .	1	4	2 2	2	3	6
Halifax and Southwestern				12	_	ī		13
Hull Electric					1	3	1	3
Wabash				29	6	5	6	35
Wabasii								
	16	280	155	1.174	212	239	383	1,693

STATEMENT No. 2.—A comparative statement of Killed and Injured between years ending March 31, 1916 and 1917.

	Passe	ngers.	Empl	oyed.	Othe	ers.	Tot	al.
	К.	ı.	к.	I.	К.	1.	К.	I.
Year ending March 31, 1916 Year ending March 31, 1917	17 16	140 280	120 155	788 1,174	200 212	197 239	337 383	1,125 1,693
Increase over 1916	1	140	35	386	12	42	46	568

Statement No. 3.—Showing separately the number of Passengers, Employees, and others Killed and Injured, and the nature of the accidents, for the year ending March 31, 1917.

Character of Accidents.			i .					
	К.	I.	К.	Ι.	К.	I.	к.	I.
Derailment	. 1	175	8	58	1	1	10	234
Collision head-on		19	2	20	4	6	6	45
Collision rear-end		14	11 3	28 12		1	16	42 13
Collision in yard			2	5			2	5
Collision with cars account open switch		10		5				15
Collision at level crossing		9	1	5 1	$\frac{2}{9}$	8	2	22 15
Public highway crossing protected by gates Public highway crossing protected by bell			1	1	3	14 9	10	10
Public highway crossing protected by watchman			_	i	ĭ	12	ı	13
Public highway crossing unprotected			2	7	43	91	45	98
Private crossing			9	4	127	75	129	79
Trespassing			7	118			7	118
Unclassified	. 1	18	9	252	6	2	16	272
Adjusting couplers, coupling and uncoupling			5 3	53 92			5 3	53 92
Working on track or bridge				32	· · · · · · · · · · · · · · · · · · ·		4	32
Hand car, motor or velocipede struck by train				7	<i>.</i>		6	7
Crawling under cars				1				1
Crawling through cars over couplers Caught while passing through cars between couplers				7	1		1	7
Cars standing foul	·			4				6
Struck by switch stand, water spout, mail crane	,		1					
etc	.		1	19			1	19
Crushed between cars, buildings, lumber piles platforms, etc			1	17			1	17
Explosion of locomotive boiler								
Falling off passenger trains	. 2	11	2	2			4	13
Falling off tender while handling coal			····i	$\frac{6}{7}$			1	$\begin{bmatrix} 6\\7 \end{bmatrix}$
Falling off tender while taking water Working in shop				116			i	116
Riding on pilot of engine			1	3			1	3
Overhead bridge				2	· · · · ·			2
Repairing cars on repair track when moved by engine	7			. 3				3
Falling off top of cars while walking over train			4	21			4	21
Falling between cars going over top			2				2	4
Train parting and colliding		18	1	$\frac{7}{28}$	$\frac{1}{6}$	7	$\frac{2}{12}$	9 53
Jumping off train in motion		3	$\frac{1}{2}$	$\frac{26}{26}$	i	í	4	36
Washout			2				2	1
Bridge gave way or burnt								
Electrocuted		····i	59	46	3	9	63	56
Passing too close around end of string of cars					4	-	1	
Caught in frog, guard-rail or switch rod			2	3			2	3
Caught while throwing switch				2				2
Falling off cars while climbing up or coming dow side or end ladders	n		2	15	<i></i>		2	15
Falling off cars while working hand brake				7			1	7
Asphyxiated in tunnel								
Handling freight			1	$\frac{50}{38}$	3	1	4	50 39
Building and repairing				10		. .		10
Working in coal chute			3	16			3	16
Cars moved while loading or unloading				7				7
Drawbridge open								
engine			2	3			2	3
Locomotive dropping crown sheet of fire-box				2				2
	16	280	155	1,174	212	239	383	1,693

8 GEORGE V, A. 1918

Statement No. 4.—Showing the character of Accidents sustained by the Persons Killed and Injured on the various railways under the jurisdiction of the Board for the year ending March 31, 1917—Con

Grand Trunk		head-on.	Collision head-on.	Collision rear-end.	sion nd.	Collision in yard.	sion .rd.	Collision with cars standing foul of main line.	cars rars ling of line.	counston with cars account open switch.	ears int in.	Collision at level crossing.	. .	highway erossing protected by gates.	r unne ighway rossing oteefed v gates.	highway crossing protected by bell.	Public ighway rossing otected y bell.
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Wakush	9	٤	Ä	2	â	-	<u> </u>		LC.		2	61	1 81	: 2	: 2	-	

SESSIONAL PAPER No. 20c

STATEMENT NO. 4.—Showing the character of Accidents sustained by the Persons Killed and Injured on the various railways under the jurisdiction of the Board for the year ending March 31, 1917—Con.

Name of Railway.	Public highway erossing protected by watchman.		Public highway crossing unprotected		Private crossing.		Tres-	Working on or under engine.	cing nder ne.	Unclass- ified.	, ,	Adjusting couplers, coupling and uncoupling.	Working on track or bridge.	Working track or bridge.	Falling off hand car, motor or velocipede	g off car, or or pede.	Hand ear motor, velociped struck by train.	Hand car motor, velocipede struck by train.
Grand Trunk Canadian Pacific Canadian Northern Michigan Central Grand Trunk Pacific Niagara, St. C. and Toronto. Pere Marquette Toronto, Hamilton and Buffalo. Quebec, Montreal and Southern. Dominion Atlantic. Esquimat and Nanaimo. Winnipeg Joint Terminals. Esquimat and Nanaimo. Montreal and Southern Counties Faniscouata. Algoma Central and Hudson Bay. Midland. Hamilton Radial Electric. Algoma Estern Red Mountain Red Mountain New York Lake Erie and Port Stanley New York Central. Vancouver and Lulu Island Ottawa and New York. Ottawa and New York. Ottawa and New York. Halliax and Southwestern. Halliax and Southwestern.	¥	_ =-			<u>보</u>	7 884444 w 999	. 1. 2. 2	K 1815	1. 36 36 36 36 36 36 36 36 36 36 36 36 36	7. 10400 61 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8888 110 110 110 110 110 110 110	T. 1. 2. 1. 1. 1. 2. 1. 1. 2. 2. 1. 1. 2. 2. 1. 1. 2. 2. 2. 1. 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.		1. 1. 22.82.83.83.83.83.83.83.83.83.83.83.83.83.83.		. 888 248 2 1	저 의 윤	
Wabash	- -	13	4 5	- %		1 29	2 2	: -	0 2	16 279	. c	10 10 10 10 10 10 10 10 10 10 10 10 10 1		: 8	-	3		

8 GEORGE V, A. 1918

STATEMENT No. 4.—Showing the character of Accidents sustained by the Persons Killed and Injured on the various railways under the jurisdiction of the Board for the year ending March 31, 1917—Con.

Grand Trunk Canadian Pacific		cars coup	through cars over couplers.	passing through cars between couplers.	foul.	. Ħ	suruck by switchstand, water spout, mail crain, etc.		between cars, buildings, lumber piles, etc.		Explosion of locomotive boiler.	Falling off passenger train.	g off nger n.	Falling off tender while handling coal.	g our er ke ling l.
Grand Trunk.	К. І.	- X	i	К. 1.	Ж.	-	К. 1	. K.	ı.	Ж.	l i	К.	I.	К.] :
Canadian Northern			2			61 -	-	5-6	1: 25			22	4100		च्या : प्रमा : :
Michigan Central Grand Trunk Pacific			-					m :	ଟୀ : :						: :
Neggara, Sc. C. and Toronto.															
Joronco, Hamilton and Buffalo Quebee, Montreal and Southern															
Vinnipeg Joint Terminals.															: :
Esquimalt and Nanaimo Montreal and Southern Counties														: :	
Temisconata															
Midland													: :	: :	
Algoma Eastern. Red Mountain	:	:			:	:	:	:		:	:		:	:	
Lake Erie and Northern															
Cache Light and Tower London and Port Stanley															
New York Central	:	:	:	:	:	:	:	:	:	:		:	-	:	:
Ottawa and New York															
London and Lake Erie Vancouver Victoria and Eastern		:		:	:		:	:	:	:	:	:	:	:	:
Boston and Maine															
Halifax and Southwestern		:				_	:	:	:	:	:	:	:	:	:
Hult Electric						61								: :	- -
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SESSIONAL PAPER No. 20c

STATEMENT No. 4.—Showing the character of Accidents sustained by the Persons Killed and Injured on the various railways under the jurisdiction of the Board for the year ending March 31, 1917—Con.

<u> </u>	Falling offtender while		orking	Working Riding in on pilot		Overhead bridge,	Repa cars repair	Repairing cars on repair track	Falling off top of car while	g off car	Falling between cars going		Train parting and	i — _	Jumping off train	n off	Attempt to board	tempt to oard
	water.			engine.			by en	by engine.	wanking over train	로 달 전·급	top.		Folliding		in motion	a l	train in motion	train in motion.
_	К. 1.	. K.	-	K. 1.	K.	-i	Б.	.I	К.	I.	К.	1.	К.	.;	-Υ. 	_;	Α.	Ĭ.
Grand Trunk. Canadian Pacific Canadian Northern		:-	84 5		- C1				67 63	0 61 6	-			- :	01 च	E 62	ec	
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8 GEORGE V, A. 1918

STATEMENT No. 4.—Showing the character of Accidents sustained by the Persons Killed and Injured on the various railways under the jurisdiction of the Board for the year ending March 31, 1917—Con.

Name of Railway.	Washout.	B Banve b	Bridge gave way or burnt.	Electro	Electro-	Run down in yard by switch or other engine or moving cars.		Passing too close around end of string of cars		Caught in frog, guard rail or switch rod		Caught while throwing switch		Falling off cars while climbing up and roming down side or end ladders.		Falling off cars while working hand brakes.	c off hile ing id
	К. 1.	Ж.	i	Ж.	ij	K.	ï.	Ж	ı.	Ж				Ж. 			Ĭ.
Grand Truuk Canadian Pacific Canadian Northern Michigan Central	61					777 72	24 6 11 2	-			- : : : : - : : :		<u> </u>	::	∞	: : : -	₹ : :
Grand Trunk Pacific. Niagara, St. Catharines and Toronto		: :				e :-	-										
Toronto, Hamilton and Buffalo Quebee, Montreal and Southern											er :	::	: :	: '	- :		- : :
Dominon Attantic Winnipeg Joint Terminals Esquimalt and Nanaimo Montreal and Southern Counties							- : : :										
Temiscouata. Algona Central and Hudson Bay Midland Hamilton Radial Electric												: : : :					
Algona Eastern. Red Mountain. Lake Erie and Northern. Ouebee Light and Power.												: : : :		: : : :			
London and Port Stanley New York Central Vancouver and Lulu Island Ottawa and New York																	
London and Lake Erie Vancouver, Victoria and Eastern Boston and Maine.						- : :						: :	<u>: : : : : : : : : : : : : : : : : : : </u>	::	<u>: : -</u>		
Hanlax and Southwestern. Hull Electric. Wabash.							- 73										
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SESSIONAL PAPER No. 20c

STATEMENT No. 4.—Showing the character of Accidents sustained by the Persons Killed and Injured on the various railways under the jurisdiction of the Board for the year ending March 31, 1917—Con.

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Total.	K.	35 161 17 17 12 12 13 15 15 15 15 15 15 15 15 15 15 15 15 15	m e1 e1 e	- : :-		-118 -9	383
otive bing sheet	I.	61					67
Locomotive dropping erown sheet of firebox.	K.						:
Repairing Locomotive cars on dropping franch moved by engine.	ı.	63 1					3
	K.	64					ទា
Draw- bridge open.	К. 1.						:
		10 01		: : :			7
Cars moved while loading and unloading.							:
no log	 K						:
Working in coal chute.		61 1010 1 101					16
Wo	K.	1 3					8
Building and repairing.		9				: : : : : : : : : : : : : : : : : : : :	91
Buil au repa	Ķ.						
Loading and aloading O.C.S. material.	-i	020081 -1					39
Loading and unloading O.C.S. material.	K.						:
and- ng ght.	ï	25 14 14			: :- : :	-21-	20
Hand- ling freight				: : :			" :
Asphyx-iated in tunnel.	K. 1.			: : :			<u>:</u> <u>:</u>
A Name of Railway.	3	Grand Trunk Cunadian Pacific Canadian Northern Michigan Central. Grand Trunk Pacific Frand Trunk Pacific Pere Marquette Toronto, Hamilton and Buffalo.	Quebec, Montreal and Southern. Dominion Atlantic. Winnipeg Joint Terminals. Esquinalt and Nanaimo. Montreal and Southern Counties. Temiscounta. Algona Central and Hudson Bay. Midland.	Algoma Eastern Red Mountain Lake Eric and Northern	Quebee Light and Fower London and Port Stanley Lancouver and Lulu Island Ottawa and New York	London and Lake Eric Vancouver, Victoria and Eastern Boston and Maine Hallfax and Southwestern. Hull Electric	
		Grand Tru Canadian I Canadian I Michigan (Grand Tru Niagara, S Pere Marq	Quebee, Montres Dominion Atlan Winnipeg Joint J Esquimalt and Montreal and Sc Temiscourta Algoma Central Midland	Algoma E Red Moun Lake Erie	Quebec Li London an New York Vancouver Ottawa an	London an Vancouver Boston and Halifax an Hull Elect Wabash	

STATEMENT No. 5.—Comparative statement in totals of Killed and Injured between years ending March 31, 1916, and March 31, 1917, separately for each and every accident.

						19	17.	
Character of Accidents.	191	16.	191	17.	Incre	ease.	Decr	ease.
	K.	Ι.	К.	Ι.	К.	I.	К.	Ι.
Derailment	6	55	10	234	4	179		
Collision head-on	4	5	6	45	2	40		
follision rear-end	11	76	16	42	5			34
ollision in yard	26	31	$\frac{3}{2}$	13 5			23	18
Collision with cars standing foul of main track	1	3		15	1	5 12		
Collision at level crossing		i	2	22	2	21		
blic highway crossing protected by gates	3	4	10	15	7	11		
ublic highway crossing protected by bell	9	8	4	10		2	5	.
ublic highway crossing protected by watchman	2	5	1	13	1.4	8 41	1	
Public highway crossing unprotected	31	$\frac{57}{2}$	45	98	14	41	3	
rivate crossing'respassing	143	102	129	79			14	2
Vorking on or under engine	1	50	7	118	6	68		
Inclassified	14	212	16	272	2	60		
djusting couplers, coupling and uncoupling	5	39	5	53		14		
Torking on track or bridge	1	$\frac{58}{21}$	3	92 32	2	34 11		
'alling off hand car, motor or velocipede	5	3	6	77	1	4		
'rawling under cars		i		i				
'rawling through cars over couplers	1			7		7	1	
aught while passing through cars between couplers	3	4	1				2	
Cars standing foul	1 2	3 6		6		13	1	
truck by switch stand, water spout, mail crane, etc.	2 2	8	1 1	$\frac{19}{17}$		9	1	
'rushed between cars, lumber piles, platforms, etc. Explosion of locomotive boiler	-		1	1.				
alling off passenger trains		12	4	13	3	1		
'alling off tender while handling coal		1		6		5		
alling off tender while taking water		4	1	7	1	3		
Vorking in shop	3 2	99	1	116		17	2	
Riding on pilot of engine		1	1	2		ĺ	1	
Overhead bridge		1		_		_		
engine				3		3		
alling off top of cars while walking over train		22	4	21			1	1
alling between cars going over top		3	2 2	4 9	2 2	1 2		
rain parting and collidingumping off train in motion	11	7 38	12	53	1	15		
Attempt to board train in motion		22	4	30		8	4	
Vashout			2	1	2	1		
Bridge gave way or burnt							1	
Dectrocuted		49			20	14	1	
Run down by switch or other engine, or moving cars		42	63	56	36	14		
Passing too close around end of string of cars		3	2	3	2	2		
Caught while throwing switch				2				
Calling off cars while climbing up or coming down					ĺ	_		
side or end ladders	2	8	2	15		7		
Calling off cars while working hand brake		4	1	7	1	3		
sphyxiated in tunnel	2	40	4	50	2	10		
Loading and unloading O.C.S. material	_	40		. 39				
Building and repairing		6		10	, .	4		
Vorking in coal chute		10	3	16	3	6		
Cars moved while loading or unloading		5		7		2		
Orawbridge open Repairing cars on running track when moved by								
engine		2	2	3	2	1		
Locomotive dropping crown sheet of fire box		ļ . .		2		2		
			000	1 000	100	0.51	00	
	337	1,125	383 337	1,693 $1,125$	$\frac{108}{62}$	651	62	8
			166	11.120	1 02	1 00		

STATEMENT No. 6.—Comparative statement in totals of Killed and Injured between years ending March 31, 1916, and March 31, 1917, for each railway separately.

						19	17.	
Name of Railway.	19	16.	19	17.	Decr	ease.	Incre	ease.
	К.	I.	К.	I.	К.	I.	К.	Ι.
Grand Trunk Canadian Pacific Canadian Northern Michigan Central Grand Trunk Pacific Niagara, St. Catharines and Toronto. Pere Marquette Toronto, Hamilton and Buffalo Quebec, Montreal and Southern Dominion Atlantic Winnipeg Joint Terminals Esquimalt and Nanaimo. Montreal and Southern Counties. Temiscouata. Algoma Central and Hudson Bay Midland. Hamilton Radial Electric Algoma Eastern. Red Mountain. Lake Erie and Northern. Quebec Light and Power. London and Port Stanley. New York Central. Vancouver and Lulu Island Ottawa & New York London and Maine. Halifax and Southwestern Hull Electric Wabash. Maine Central. Windsor, Essex and Lake Shore Morrissey, Fernie and Michel. Central Vermont. Quebec Oriental. Great Northern.	2 1 2 9 1 1	296 180 216 211 288 3 15 51 6 1 33 31 2 1 16 31 2 7 13 1 1 1 1 1 1 1 1	114 161 35 17 12 75 5 5 2 1 1 1 1 1 6	549 325 318 213 52 1 31 59 7 4 1 1 1 1 8 9 43 66 13 33 35 43	1 1 1 2 2 2 2 3 1 1 1	1 26	31 46 88 53 3 1 11 2 2 2	253 145 102 24 16 8 1 1 2 1 8 1 8 1 1 8 1 1 8 1 1 1 8 1 1 1 1
	337	1,125	383 337	1,693 1,125	23	47	69 23	615
Increase			46	568			46	568

8 GEORGE V, A 1918

Statement No. 7.— Showing the number of Highway Crossing Accidents with the total number of Killed and Injured by provinces and railways, for the year ending March 31, 1917.

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Total	7	20 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	9
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Ontario.			9
	ŊĠ.	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	9
Name of Railway		Crand Trunk. Canadian Pacific. Canadian Northern. Michigan Central. Michigan Central. Toronto, Humilton and B. Wabash. Waniton Radial. New York Central. Vancouver, Victoria and E. Caned Manie. Wack Mounian. Caracter Manie. Caracter Manie.	

STATEMENT No. 8.—Showing Highway Crossings at which protection and nature of protection, during year ending March 31, 1917.

Location of Crossing.	Railway.	Nature of Protection.
Falbot Road, just east Courtland Station	G.T.R	Electric bell
First crossing east of Coteau	G.T.R	Day watchman.
Desormeaux St., Tetreaultville	C.N.R	Electric bell.
Crossing 2 miles east of Lyn, Twp. Elizabeth, County	C T D	7214-:-1 11
Leeds Rankin St., Campbelltown Village	CPR	Electric bell
Second public highway crossing two miles south of	O.1 .1t	Breene Ben.
Brampton	C.P.R	Electric bell.
Second public highway crossing two miles south of Brampton	C.P.R. G.T.R.	Electric bell.
Waterloo Street crossing, London	G.T.R	Gates.
Colborne St. crossing, London	C.P.R	Gates
Dorchester St., Quebec. Crawford's Crossing at Mil. 13·55 between Westfield and Hillandale, N.B.	C.1 .1t	Gates.
and Hillandale, N.B.	C.P.R	Electric bell.
Hillandale, N.B. Lampson St., Twp. of Esquimalt, B.C. Twelfth St., New Westminster, B.C.	C.P.R	Electric bell.
Lampson St., Twp. of Esquimalt, B.C	E. & N	Trains to stop before crossing
1 Weith St., New Westimmster, B.C	C.1 .1t	street and to be flagged over
Drouillard road crossing, Ford City, Ont	G.T.R	Day and night watchman.
St. Antoine St., Rigaud, Que	C.P.R	Electric bell.
Drouillard road crossing, Ford City, Ont	C.P.R	Wetshman between 0
Ottawa Ave., South River, Ont	G.1.R	9 p.m.
Sagwa and Lingley (highway crossing between, N.B.) Bronson Ave., Ottawa	G.P.R	Diversion.
Bronson Ave., Ottawa	G.T.R	Gates.
Main St., Farnham, Que	C.P.R	Gates.
Lake road crossing, east of Grimsby, Ont	G.T.R	Electric bell.
Leframboise St. St. Hygginthe Oue	G T R	Day watchman between 7 a m
Barramborse St., St. 11 y activitie, Que	0.1.10	
Crossing at Boulevard Gouin, Bordeaux, Mil. 9-91, Que.	C.P.R	Electric bell.
Crossing in Riverdale Park where foot bridge crosses Don river, Toronto	CDD CND	
Don river, 1 oronto	ond G R T	Flagman between 10 a.m. and
	and G.H.T	8 p.m.
Crossing west of G.TR. Co's station at Dorval, Que	G.T.R	Watchman between 6 a.m. and
a i i i i i i i i i i i i i i i i i i i	a n n	7 p.m.
Crossing west of C.P.R. Co's station at Dorval, Que	C.P.R	Watchman between 6 a.m. and 7 p.m.
Crossing a short distance north of Mile Post 109, Island		7 p.m.
Pond and Richmond, Subdivisions, Township of Ascot, Que		
Ascot, Que	G.T.R	Electric bell.
Crossing road allowance between Lot 22, Con. 1 and		
Prov Ont	CPR	Electric bell
Prov. Ont. Crossing of Sherman Ave., Hamilton, Ont. William St. crossing, Port Stanley, Ont.	G.T.R	Train movements to be flagged
William St. crossing, Port Stanley, Ont	London and Pt.	
	Stanley	Electric bell.
Church St., Weston, Ont	G,T, and C.P.	Catos
Duke St. crossing Guelph Ont	Rys C.P.R	Electric bell
Duke St. crossing, Guelph, Ont		
Station	C.P.R	Electric bell.
Crossing at 39.91, Galt Subdivision	C.P.R	
Station. Crossing at 39·91, Galt Subdivision. Crossing at Mil. 38·58, Galt Subdivision. Crossing at Mil. 38·58, Galt Subdivision. Crossing of Hamilton St. at Regina. Crossing just east of Amigari Station, Ont.	C.P.R	down
Crossing of Hamilton St. at Regina	Č.P.R	Train movements to be flagged
Crossing just east of Amigari Station, Ont	G.T.R	Watchman between 7 a.m. and
	l .	4 D.III.
Crossing at Bay Bridge Road, Belleville, Ont	C.P.R. and C.	Cotos
Comstock Bridge Crossing, 1½ miles east of Lennoxville	N.R	Dates.
	B & M	Tractric bell
Main St. crossing, Vegreville, Alta	B. & M C.N.R	Watchman between 8 a.m. and
Main St. crossing, Vegreville, Alta	C.N.R	Watchman between 8 a.m. and 7 p.m.

STATEMENT No. 9.—Showing the number of Highway Crossings at which protection has been ordered by the Board, and nature of protection set out by Provinces, for the year ending March 31, 1917.

Nature of Protection.	Nova Scotia.	New Bruns- wick.	Quebec	Ontario.		Saskat- chewan.		British Colum- bia.	Total.
Gates. Bell. Watchman. Diversion. Trains to be flagged.		1		5 10 4 1			1	1	, 8 , 19
Removal of bush		3	12	24	1	1	1	2	44

STATEMENT No. 10.—Showing number of Persons Killed and Injured at Public Highway Crossings, separately for each year for five years ending March 31, 1917.

Year.	Gat	es.	Be	11.	Watch	man.	Unprote	ected.	To	tal.
rear.	К.	I.	К,	Ι.	К.	Ι.	К.	I.	к.	Ι.
1913	6 10 6 3 10	6 13 10 4 15	4 1 2 9 4	5 6 7 8 10	6 2 2 1	3 12 5 5 13	29 44 37 31 45	48 84 68 57 98	39 61 47 45 60	62 115 90 74 136
-	35	48	20	36	11	38	186	355	252	1 € 477

566

136

101

114

131

8

415

66

12

88

8

61

6#

5

Ξ

1

6

35

9

9

+

5 11

20

7 16

15

 $\overline{21}$

Ξ

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86 305 178 1913 1914 1915 1916 1917 Total. STATEMENT No. 11.—Showing the number of Highway Crossing Accidents, the nature of same, for each and every year separately **£** 3658 Total. 15 38 83 13 9935 17 67 47 5 5653 $1913 \\ 1914 \\ 1915 \\ 1916 \\ 1917 \\ TT. \\ 1918 \\ 1917 \\ 1911 \\ 1915 \\ 1916 \\ 1917 \\ 1911 \\ 1915 \\ 1916 \\ 1917 \\ 1911 \\ 1915 \\ 1916 \\ 1917 \\ 1911 \\ 1917 \\ 1$ 250 64 101 $\frac{5}{2}$ **9** 25Unprotected. 49 Ξ 17 6 55 20 13 7 53 C.3 43 16 for the five years ending March 31, 1917. 6 27 23 4 ~ 4 Bell. C3 C.3 1 ಣ က 10 ಣ 9 23 23 Watchman. C.1 က C1 က ~ ಣ **!**~ 15 $\overline{5}$ 03 C.1 2 Gates. C.3 C.1 = Ç1 10 Ξ **C**3 œ Horse and rig. Automobile... Pedestrian....

The total of 566 accidents covers 252 persons killed and 477 persons injured, as referred to in the preceding Statement.

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Statement No. 12.—Showing the number of Trespassers Killed and Injured by provinces and railways for the year ending March 31, 1917.

-i-		
Total	.Y.	866 667 677 677 677 677 677 677 677 677
Scotia	ı.	- 1 - 2
Nova Scotia	Ķ.	- 0 M
	i	-
New Brunswick	Ķ.	-
toba.	ı.	in la
Manitoba.	Ķ.	cı
Saskatche- wan.	ï	6
Saskate wan.	⊼.	& G
rta.	ï.	
Alberta.	7.	
ish ibia.	I.	- С
British Columbia.	7.	
ec.	ï	4000 5
Quebec.	Ж.	72 07 03
rio.	-	200 0 0 -01 2
Ontario.	Ж.	120 448 11 1 2
Name of Bailway	· Course To Street	Grand Trunk. Canadian Pacific Canadian Northern. Grand Trunk Pacific Michigan Central. Niagara, St. Catharines and Toronto. Noninion Alfantic. Norminon Alfantic. Algoina Central Wahash. Lake Eric and Northern London and Port Stanley. Vancouver and Lulu Island Vancouver, Victoria and E. Boston and Maine. Hull Electric.

STATEMENT No. 13.—Showing the number of Persons Killed and Injured on the various railways under the jurisdiction of the Board from April 1, 1908, until March 31, 1917, classified under three headings and shown separately for each and every year.

Y	Passer	ngers.	Emplo	oyees.	Othe	ers.	Tot	al.
Year.	к.	I.	К.	I.	к.	I.	к.	I.
1908.	64	326	246	806	219	.177	529	1,309
1909	26	227	191	769	231	205	448	1,201
1910	51	211	194	745	211	167	456	1,123
1911	24	132	263	788	207	199	494	1,119
1912	28	292	230	1,381	231	238	489	1,911
1913	21	410	303	1,603	1,319	218	643	2,231
1914	31	339	249	1,250	314	310	594	1,899
1915	8	239	99	873	230	251	337	1,363
1916	17	140	120	788	200	197	337	1,125
1917	16	280	155	1,174	212	239	383	1,693
	286	2,596	2,050	10, 177	2,374	2,201	4,710	14,974

STATEMENT No. 14.—Showing the number of Persons Killed and Injured in the more prominent accidents on the various railways under the jurisdiction of the Board; shown separately for each year for the five years ending March 31, 1917.

Collision, rear-end			13.	19	14.	19:	15.	19	16.	19	17.	То	tal.
Collision.	Nature of Accidents.	к.	I.	К.	Ι.	К.	Ι.	К.	Ι.	к. —	Ι.	к.	
520 1,128 497 1,041 298 693 302 542 330 866 1,947 4,270	Collision. Collision, rear-end Collision in yard. Collision with cars, open switch. Collision with cars, foul main track Collision at level crossing. Highway crossing protected. Highway crossing unprotected. Adjusting couplers, uncoupling, etc. Trespassing. Hand car, motor, struck by train. Struck by switch stand, etc. Caught between cars and buildings. Falling off passenger train. Falling off car walking over train. Falling between cars walking over train. Getting off train in motion. Attempt to board train in motion. Run down by engine or cars.	26 16 8 10 29 29 251 16 17 10 10 2 12 16 55	108 90 51 15 1 14 48 92 116 21 9 13 43 7 53 40 64 10	7 14 18 5 1 17 7 44 11 238 10 4 4 4 6 6 4 4 2 2 7 8 8 5 5 6 2	29 23 55 1 1 8 39 31 1 64 6 6 6 164 13 55 547 44 1 6 4 4	2 7 3 2 10 37 7 170 5 1 3 4 2 3 3 2 3 3	466 499 544 222 222 688 38 1266 9 8 9 111 222 3 445 294 41 3	4 111 266 14 315 5 1433 5 2 2 2 1 1 5 11 87 27	5 766 311 33 31 177 577 399 1022 3 3 6 8 122 222 3 3 388 222 422	6 16 3 3 2 2 2 15 45 5 129 6 1 1 4 4 4 4 2 2 12 4 4 6 6 3	45 422 133 155 5222 388 988 533 799 177 133 211 4 533 306 52	45 644 588 55 55 666 1866 187 931 42 9 144 277 8 45 388 45 334 334	233 280 204 54 16 84 122 355 282 587 75 66 64 149 22 244 168 267

STATEMENT No. 15.—Showing number of Cars Inspected for year ending March 31, 1917, together with defects noted.

8 GEORGE V, A. 1918

Name of Railway.	Cars inspected.	Cars defective.	Per cent defective.	Grand total defects.	Couplers and parts.	Per eent defective.	Un- eoupling mechanism	Per cent defective.	Hand- holds.	Per cent defective.	Air brakes.	Per eent defective.
Camadian Pacific Grand Trunk Pacific Grand Trunk Pacific Fore Marquette Pere Marquette Dominion Atlantic Cumberland Ry, and Coal Great Northern Michigan Central London and Port Stanley Quebee Ry. Light and Power. Quebee Ry. Light and Atlantic, Quebee and Western Algoma Central Boston and Maine Algoma Western	26, 222 17, 562 6, 4, 562 1, 778 1, 178 1, 120 1, 120 1, 255 1, 2	1, 284 373 385 385 133 130 100 110 11 11 12 12 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	4 + 90 4 + 40 5 + 96 7 7 + 8 7 7 + 8 8 - 57 8 - 57 8 - 57 9 - 51 9 - 31 9 - 31 9 - 32 9 - 31 9 - 32 9 -	1,446 917 471 471 473 143 163 183 183 185 185 185 185 185 185 185 185 185 185	28.8.2.2.2.2.2.2.1.00I	2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	24.51 20.00	16.74 116.74 118.29 12.50 12.50 12.50 12.50 16.60 10.00 114.64	883 448 574 411 111 110 100 100 100 100 100 100 10	25.74 28.67 28.67 28.67 28.67 28.33 39.00 24.30 24.30 26.60 26.20 27.31 39.00 27.33 39.00 27.33 39.00 28.33 39.00 28.33 39.00 28.33 39.00 28.33 39.00 28.33 39.00 30.00 30 30.00 30.00 30.00 30.00 30.00 30.00 30 30.00 30.00 30.00 30 30 30 30 30 30 30 30 30 30 30 30 3	827 540 215 215 44 44 45 46 46 46 46 47 48 48 48 48 48 48 48 48 48 48 48 48 48	25.13 26.13 27.13
Name	of Railway				Ladders.	Per cent defective.	Sill stops.	Per cent defective.	Height of eouplers.	Per cent defective.	Miscel- lancous.	Per cent defective.
Canadian Pacific. Grand Trunk Grand Trunk Grand Trunk Pacific Grand Trunk Pacific Per Marquette Toronto, Hamilton and Buffalo. Dominion Allantic Cumberland Railway and Coal. Great Northern Michigan Central London and Port Stanley Quebec Railway, Light and Power Quebec Oriental and Atlantic, Quebec and Western Algoma Central. Boston and Maine. Algoma Eastern.	sbec and W	estern.			20 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 49 2 2 84 2 2 84 1 1 47 1 1 43 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	8888 8888 8888 8888 8888 8888 8888 8888 8888	6.02 2.84 6.69 6.29 1.47 7.14 7.14 7.14 7.14 7.14 7.14 7.14		6.66	134 101 101 102 103 103 103 103 103 103 103 103 103 103	9 - 28 11 - 10 1 12 - 13 16 - 78 16 - 70 11 - 43 8 - 20 5 - 60 5 - 60 17 - 60 17 - 60 17 - 60 17 - 60 17 - 60 17 - 60 17 - 60 17 - 60 17 - 60 17 - 60 17 - 60 17 - 60 18 - 50 18 - 50

STATEMENT No. 16.—Showing Detective Safety Appliances on freight cars as reported by the Inspectors for year ending March 31, 1917.

Couplers and Parts.	
Coupler body broken. Coupler body worn. Guard arm short. Knuckle broken. Knuckle missing. Knuckle pin broken. Knuckle pin wrong Knuckle pin missing. Lock block broken. Lock block worn. Lock block wrong. Lock block wrong. Lock block wrong. Lock block missing. Lock block missing. Lock block missing.	3 2 2 2 2 8 1 8 1 8 53 1
Lock block key missing	1
Total	100
Uncoupling Mechanism.	
Uncoupling lever broken. Uncoupling lever bent. Uncoupling lever incorrectly applied. Uncoupling lever missing. Uncoupling chain broken. Uncoupling chain too long. Uncoupling chain too short. Uncoupling chain kinked. Uncoupling chain missing. End casting broken. End casting broken. End casting broken. End casting wrong. End casting wong. End casting incorrectly applied. End casting incorrectly applied. End casting missing. Keeper broken. Keeper broken. Keeper bent. Keeper loose. Keeper incorrectly applied. Keeper missing. Angle clip loose.	21 20 61 329 7 110
HANDHOLDS.	
Handhold broken. Handhold bent. Handhold loose. Handhold incorrectly applied. Handhold missing. Total.	19 113 8 151
- Total	291
HEIGHT OF COUPLERS.	
Coupler too high. Coupler too low. Carrier iron loose.	3 1
Total	4

STATEMENT No. 16.—Showing Defective Safety Appliances on freight cars as reported by the Inspectors for year ending March 31, 1917—Con.

AIR BRAKES.	
Triple valve defective	
Triple valve missing.	
Reservoir defective	
Reservoir loose	
Cylinder defective	1 11
Cylinder loose	3
Cylinder and triple valve not cleaned within 12 months. Cylinder and triple valve not stenciled with date of cleaning	9
Cut out cock defective	4
Release cock defective	
Release cock missing	
Release rod broken.	9
Release rod missing	5
Angle cock defective	11 1
Angle cock missing	4
Frain pipe loose.	3
Train pipe bracket missing	
Cross-over pipe defective	1
Hose defective	$\frac{2}{7}$
Hose missing	6
Hose gasket missing	
Retaining valve missing	
Retain pipe defective	11
Retaining pipe missing	
Brake rigging defective	
Brake cut out	1,04
Brake cut out, eard old	4
Pump missing.	4
Total	1,88
Ladders.	
adder round broken	1
	6
adder round bent	
Ladder round bent. Ladder round loose. Ladder round missing. Ladder loose.	9
Ladder round bent Ladder round loose Ladder round inissing Ladder loose Ladder incorrectly applied Total	
adder round bent adder round loose adder round missing adder loose adder incorrectly applied Total. Sill Steps.	9
adder round bent adder round loose adder round inissing adder loose Total. Sill Steps.	9
adder round bent .adder round loose .adder round inissing .adder loose .adder incorrectly applied Total. Sill Steps.	9
Adder round bent Adder round loose Adder round inssing Adder loose Adder incorrectly applied Total. Sill Steps. Sill step broken Sill step bent Sill step loose	9 2 11 2
adder round bent .adder round loose .adder round inissing .adder loose .adder incorrectly applied Total. Sill Steps. Sill step broken Sill step bent Sill step loose Sill step loose Sill step incorrectly applied.	9 2 11 2
adder round bent .adder round loose .adder round inissing .adder loose .adder incorrectly applied Total. Sill Steps. Sill step broken Sill step bent Sill step loose Sill step loose Sill step incorrectly applied.	9 2 11 2
Ladder round bent Ladder round loose Ladder round inissing Ladder loose Ladder incorrectly applied Total. SILL Steps. Sill step broken Sill step bent Sill step loose Sill step loose Sill step incorrectly applied.	9 2 11 2 3
Ladder round bent Ladder round loose Ladder round insising Ladder loose Ladder incorrectly applied Total. Sill Steps. Sill step broken Sill step bent Sill step loose Sill step incorrectly applied Sill step incorrectly applied	9 2 11 2 3
Ladder round bent Ladder round loose Ladder round inissing Ladder loose Ladder incorrectly applied Total. Sill Steps. Sill step broken Sill step bent Sill step loose Sill step incorrectly applied Total. Miscellaneous.	
Ladder round bent Ladder round loose Ladder round missing Ladder loose Ladder incorrectly applied Total. Sill Steps. Sill step broken Sill step bent Sill step loose Sill step incorrectly applied Total. Miscellaneous.	9 2 11 2 3 19
Ladder round bent Ladder round loose Ladder round inissing Ladder loose Ladder incorrectly applied Total. Sill Steps. Sill step broken Sill step bent Sill step loose Sill step incorrectly applied Total. Miscellaneous.	9 11 2 3 19

STATEMENT No. 17 "A"—Statement of Defects on freight cars shown separately for each year for five years ending March 31, 1917.

	1913.	1914.	1915.	1916.	1917.	Total.
Couplers and parts. Uncoupling mechanism. Handholds. Air brakes. Ladders. Sill steps. Height of couplers. Miscellaneous.	493 2,632 560 7,946 801 613 31 1,110	336 1,606 241 5,935 647 485 21 1,511	166 886 182 4,181 417 301	100 551 340 3,127 151 213 4 565	100 548 291 1,887 99 195 4 371	1,195 6,223 1,614 23,076 2,115 1,807 60 4,433
Grand total	14,186	10,782	7,009	5,051	3,495	40,52

STATEMENT No. 17 "B"—Statement of Cars Inspected and defective shown separately for each year for five years ending March 31, 1917.

	1913.	1914.	1914.	1916.	1917.	Total.
Cars inspected	137,054 13,110	110,407 9,989	$105,486 \\ 6,578$	$77,491 \\ 4,541$	58,073 2,957	$488,511 \\ 37,175$
Percentage defective	9.56	9.05	6 · 24	5.86	5.09	7.61

APPENDIX "D."

REPORT OF THE CHIEF FIRE INSPECTOR, CLYDE LEAVITT.

Ottawa, March 31, 1917.

A. D. Cartwright, Esq.,

Secretary, Board of Railway Commissioners, Ottawa, Ontario.

SIR,—Herewith I beg to submit for the twelfth annual report of the Board, the report of the Fire Inspection Department for the year ending March 31, 1917.

Approximately 82 per cent of the railway mileage of Canada is under the jurisdiction of the Board, and hence is more or less affected by the work of this Department.

ORGANIZATION.

The co-operative arrangement between this department and the respective Dominion and provincial forest fire-protective organizations, for the enforcement of General Order No. 107 and the provisions of section 297 of the Railway Act, has continued in effect, with very satisfactory results. During the year, seventy-three officials of the following organizations have acted as local officers of the department:—

British Columbia Forest Branch	31	men.
Dominion Parks Branch	4	4.6
Dominion Forestry Branch	7	44
Ontario Forestry Branch	13	16
Quebec Forest Protection Branch		44
New Brunswick, Crown Lands Department		**
Office of Chief Fire and Game Guardian of Alberta	3	"
Office of Fire Commissioner of Saskatchewan	2	"
Total	73	"

RAILWAY FIRE PATROLS.

The requirements of regulation 10 of General Order No. 107, relative to fire patrols, have been administered along substantially the same lines as were described in detail in the annual report of this department for year ending March 31, 1916.

INSTRUCTIONS TO RAILWAY EMPLOYEES.

Working instructions to railway employees relative to the reporting and extinguishing of fires have been issued by the respective railways, in accordance with regulation 13 of General Order No. 107.

FIRE STATISTICS.

The weather conditions during the fire season of 1916 were, on the whole, generally favourable to fire protection. Periods of drought were of short duration and did not extend over any great part of the Dominion at one time. Generally, in all provinces, a wet spring was experienced, followed by favourable weather conditions, except in the province of New Brunswick, where extremely dry weather, accompanied by high winds, was experienced during the month of May, greatly increasing the fire hazard. During this period, six fires were reported beyond control, but none of these occurred along railway lines.

In the province of Quebec, weather conditions were favourable during April, May, and June. During July and August, extremely dry periods were experienced, and considerable areas were burned over in the Lake St. John and Saguenay districts. In the Temiskaming and Abitibi districts conditions were perhaps worse, and much timber and property were destroyed. None of these fires were caused by railways under the jurisdiction of the Board.

In the province of Ontario a wet spring was experienced, followed by favourable conditions during May and June. During July and the greater portion of August, the weather was extremely hot, with high winds. The disastrous fire of July 29 and following days, in the clay belt of Northern Ontario, did not extend south as far as the line of the Canadian Northern railway or any other line subject to the jurisdiction of the Board.

In the Prairie provinces and British Columbia, weather conditions were generally favourable, and never at any time during the fire season was the hazard very serious.

A total of 558 fires, from all causes, were reported as originating within 300 feet of railway lines in forest sections, subject to the Board's jurisdiction; this is 128 less fires than were reported in 1915. For purposes of classification, fires have been divided into two classes: Class A fires are those which burn over an area less than one-fourth of one acre; class B fires are those which burn over an area of one-fourth of an acre or more. Of the grand total of 558 fires reported, 156 were class A fires, which did no damage. Of class B fires, there were 402, which burned over 16,481 acres, valued at \$39,471; this is 20,782 acres less than the area burned in 1915, and represents a reduction of \$34,785 in the value of property destroyed. Further details are shown in the following table:—

SUMMARY of Reports on Fires in Forest Sections originating within 300 feet of track on Railway Lines subject to the jurisdiction of the Board of Railway Commissioners for Canada, Season of 1916.

BY RAILWAYS.

			8 GEOR	GE V, A. 1918
Totals.	93 250 8 8 37 101 287 388	1,761 4,004 2,158 3,362 11,285	\$ 2,841 17,725 260 14,733 \$ 35,559	21.2 24.2 24.2 24.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2
Miscel- lancous.				- : :
Dom- inion At- lantic,			\$ 5 *12,800 \$ 12,805	
Algoma (central and Hudson Bay.				
Grand Trunk System.	8 13 8 12 12 12	26 164 50 240	\$ 41 \$ 55 \$ 46	
Canadian Northern (Eastern Lines).	5 8 1 2 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1	861 546 882 55 53 2,344	\$ 719 722 18 18 857 \$ 2,316	
Canadran Pacific (Eastern Lines).	38 38 1 - 1 - 2 55 55 55 55	277 129 540 109 1,055	\$ 326 552 138 \$ 1,016	0101010101
Edmonton, Dunton, Dunton, Vegan and British ('olumbia.	32 4 4 2 66 66 66	544 3, 260 381 2, 595 6, 780	\$ 1,633 \$ 16,298 \$ 150 \$ \$ 18,081 \$	92-27
Kettle Valley.	ਜਜ : ਜਜ਼	502222 8032228	\$ 611 150 420 \$ 631	
Great Nor- thern.	12 T T T T T T T T T T T T T T T T T T T	6.5	156	- : : : - :
Grand Trunk Pacific.	p.e. 611174	61 - 50 c E	96	
('ana-dian Nor-thern (Wes-tern Lines).	8 I 8 4 I 48	1000 1000 1230	\$ 11 \$	01 4 ⊅ G1 —
('una-diam diam Paci- fic (Wes- tern Lines).	27. 27. 29. 44	24 44 46 46 141	\$ 38 108 \$ 149	5 77 72 72 72 72 72 72 72 72 72 72 72 72
	A. Ranway Fires. I. Number by Causes— (a) Locomotives, Class A fires. Locomotives, Class B fires. (b) Employees, Class A fires. Punployees, Class A fires. (c) Total of Class B fires. Total of Class B fires.	2. Areas Burned (Acres)— (a) Young forest growth (b) Timber land (c) Shishing or old burn (d) Other classes of land (e) Total	3. Value of Property Destroyed— (a) Young forest growth. (b) Standing timber. (c) Forest products. (d) Other property.	B. Known Causes other than Rahway Frres. 1. Number by Causes— (a) Campers and travellers, Class A fires. (b) Campers and travellers, Class B fires. (c) Settlers, Class B fires. Settlers, Class B fires. (c) Other known causes, Class A fires. Other known causes, Class B fires.

SESSIONAL	DAPER	No	200

32 67 99	$\begin{array}{c} \cdot \\ 338 \\ 341 \\ 2,514 \\ 893 \\ 4,086 \end{array}$	768 1,580 50 635 3,033	23 48 71	$\begin{array}{c} 109 \\ 11 \\ 688 \\ 302 \\ 1,110 \end{array}$	183 20 259 417 879	156 402 558
		69 69			49 49	
61 - 10	10	\$ 10 \$ 10 \$ 160 \$: : : : : : : : : : : : : : : : : : :			4 6 10
						; m m
	25 1 1 26					ಣಣ
:==			= := : : : :			948
	100 3 953 1,056	65 :: 65	6 11 17		\$ 23 94 407 \$ 524	13 96
5 11		200 88	5 17 22	22 11 365 77 475	25 8	24 67 91
9	200 3 495 1,288	\$ 600 \$			99 99	27 56 83
						4.44
2 . 23			6			18 33 33
- 4·c	5 5 7 7 7 7		10 12 12	45 61 101 207	\$ 135 150 \$ 285	10 21. 31.
25 38 38	300 300 810 278 1,388	1,500 155 \$ 1,655	. 3	181 109 290	15:	26 48 74
14	20 30 223 5 5 278	\$ 50	-11952	: : : : : : : : : : : : : : : : : : :		24 154 166
(d) Total of Class A fires	2. Areas Burned (Acres)— (a) Young forest growth (b) Timber land. (c) Slashing or old burn. (d) Other classes of land (e) Total.	3. Value of Property Destroyed— (a) Young forest growth, (b) Standing timber, (c) Forests products, (d) Other property. (e) Total.	C. Fires of Unknown Origin. 1. Number— (a) Total of Class A fires. (b) Total of Class B fires. (c) Total of all unknown fires.	2. Areas Burned (Acres)— (a) Young forest growth (b) Timber land. (c) Slashing or old burn. (d) Other classes of land. (e) Total.	3. Value of Property Destroyed— (a) Noung forest growth (b) Standing timber (c) Forest products (d) Other property (e) Total	D. Grand Totals for All Causes, 1. Number— (a) Total of all Class A fires. (b) Total of all Class B fires. (c) Total of all fires reported.

*\$12,800 other property; fire set by railway employees which escaped control and burned private property consisting of buildings and machinery.

SUMMARY of Reports on Fires in Forest Sections originating within 300 feet of track on Railway Lines subject to the jurisdiction of the Board of Railkray Commissioners for Canada, Season of 1916—Com.

BY RAILWAYS.

Totals.	2, 208 4, 356 5, 360 4, 557 16, 481	3, 792 19, 325 569 15, 785 3 39, 471
Miscellancous.	01 11 12 13	10 123 123 103 8
Dominion inion At- lantic.		\$ 5 12,800
Algoma Central and Hudson Bay.	30.	
Grand Trunk System.	26 164 50 240	& &
('ana-dian Nor-thern (Eas-tern tern (d)	1,003 549 1,891 70 3,513	\$ 842 787 112 1,264 \$ 3,005
Canadian Paci- fic (Bas- tern Lines).	307 140 908 191 1,546	\$ 359 \$ 572 \$ 50 \$ 1,129 \$
Edmon- ton, Dun- vegan and British ('olum- bia.	744 3,263 3,263 3,185 8,068	61 \$ 2,233 \$ 150 16,313 420 160 \$ 631 \$ 18,706 \$
Kettle Valley.	2.5.5.5.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	:
Great Nor- thern.	29 29	146 - 8 302 8
Grand Trunk Pacific.	47 72 120 244	\$ 142 246 \$ 388
Canadian Northern (Western Lines).	300 1,091 1,800	\$ 11 \$ 1,500 . 15 . 251 \$ 1,777 \$
('ana-dian Paci-fic (Wes-tern Lines).	294 244 244 244	8 88 3 3 428 5199
	D, Grand Totals for All Causes—Con. 2. Areas Burned (Acres)— (b) Timber land. (c) Slashing or old burn. (d) Other classes of land. (e) Total.	3. Value of Property Destroyed— (a) Young forest growth (b) Standing timber. (c) Forest products. (d) Other property (e) Total.

(a) Includes Esquimalt and Nanaimo Railway.
(b) Canadian Northern Pacific not included account not yet subject to Board's jurisdiction.
(c) Includes Victoria and Synthey.
(d) Includes Halitax and South Western.
(e) Includes following lines: Boston and Maine, Cumberland Railway and Coal Company, Elgin and Havelock, White Pass and Yukon.

Nore.—No fires were reported during 1916 as originating within 300 feet of track along the following lines: Algoma Eastern, Maine Central, Montron and Buctouche, Ottawa and New York, Quebec, Montroal and Southern, Quebec Oriental, Atlantic, Quebec and Western, St. Martins, Temiscouata, Western Canada Power, Class A fires are those which cover an area of less than one-fourth acre.

Class B fires are those which cover an area of one-fourth acre or more.

The following table shows, for the past five years, the number of fires reported as having originated within 300 feet of the track in forest sections, on lines subject to the Board, the areas burned over, and the estimate of damage done. It should be noted that these include fires due to all causes, of which railways form only a part. The statistics for 1912 cover only the West, the work of this department not then having been organized in the East. The figures for 1913 are only partially complete as to the East, the work not yet being fully organized, especially in Ontario. Previous to 1916, the information available as to incipient fires is very incomplete.

	Number of Fires	Areas Burned	Value of
Year.	All Causes.	over (Acres).	Property Destroyed.
1912	200	25,148	\$ 88,480
1913	732	21,528	40,778
1914	1,346	191,770	433,442
1915	686	37,263	74,256
1916	558	16,481	39,471
*			
Totals for 5 years	. 3,522	292.196	\$676.427

The following table shows percentage comparisons of the statistics contained in the foregoing tables for the past three years:—

			er of Fires, Causes.		Burned ver		ie of destroyed.
			Per cent		Per cent		Per cent
Year.		No.	decrease.	Acres.	decrease.	Amount	decrease.
1914	 	 1,346		191,770		\$433,442	
1915	 	 686	49.0	37,263	80.6	74,256	83.0
1916	 	 558	58.5	16,481	91.4	39,471	91.0

During the past year, 388 fires were reported as being directly attributable to railway causes; this represents 69.53 per cent of the total of all fires reported. Of these, 101 were class A or incipient fires, which did no damage; while 287 were class B fires, which burned over 11,285 acres, valued at \$35,559. Of the total of 388 fires, attributed to railway agencies, sparks from smokestacks and fire from ashpans of locomotives started 93 class A fires and 250 class B fires. Railway employees caused 8 class A fires and 37 class B fires.

Campers, travellers, settlers, and other known causes contributed 32 class A fires and 67 class B fires, a total of 99 fires, or 17.7 per cent of the total of all fires reported. The 67 class B fires burned over 4,086 acres, valued at \$3,033.

Fires of unknown origin are credited with 23 class A fires and 48 class B fires, a total of 71, or 12.7 per cent of the total of all fires reported. The 48 class B fires burned over 1.110 acres, valued at \$879.

The following statement shows percentage of areas burned, and value of property destroyed by the various causes responsible for the setting of fire, during 1916:—

	Area in	Per cent of Total area		Per cent of Total
Cause.	Acres.	Burned.	Value.	Destroyed.
Railways	11,285	68.45	\$35,559	90.1
Known causes other than rail-				
ways	4,086	24.80	3.033	7.7
Unknown causes	1,110	6.75	879	2.2
Totals	16,481	100.00	\$39,471	100.0

The following summary shows cause, class, number, and percentage of fires reported during 1916 as having originated in forest sections, within 300 feet of track on railway lines subject to the Board:—

			Total		
Cause.	Class of	No. of	Class A an	d	Total
A. Railway Fires—	Fires.	Fires.	B Fires.	Per cent.	Per cent.
Locomotives	A	93		16.66	
	В	250	343	44.80	61.46
Employees	A	8		1.44	
	В	37	45	6.63	8.07
Total Railway Fires	A	101		18.10	
	В	287	388	51.43	69.53

	Class of	No. of	Total Class A an	ıd	Total
Cause.	Fires.	Fires.	B Fires.	Per cent.	Per cent.
A. Railway Fires—					
B. Known causes other than Railway	ys				
Campers and travellers	A	12		2.15	
·	В	24	36	4.30	6.45
Settlers	A	12		2.15	
	\mathbf{B}	34	46	6.10	8,25
Other known causes	A	8		1.44	
	в	9	17	1.61	3.05
Totals	A	32		5.74	
	В	67	99	12.01	17.75
C. Unknown causes	A	23		4.12	
o. canoon caudeon	В	48	71	8.60	12.72

The following table shows relative percentages of decrease and increase, in number of fires according to causes, for 1915 and 1916:—

	19	15.	1	916.	Decrease,	Increase,
Cause.	No.	Per cent.	No.	Per cent.	Per cent.	Per cent.
Locomotives	232	33.9	343	61.5		27.6
Railway employees	65	9.5	45	8.1	1.4	
Campers and travellers	7.8	11.4	36	6.5	4.9	
Settlers	8.6	12.5	46	8.2	4.3	
Other known causes	27	3.9	17	3.0	.9	
Unknown	198	28.8	71	12.7	16.1	
Totals	686	100.0	558	100.0	18.7	27.6

It will be noted that while there has been a general decrease in the number of fires due to causes other than railways and to unknown causes, the number of fires set by railway causes in 1916 was 27.6 per cent greater than in 1915. Allowance should, however, be made for the inclusion in the 1916 statistics of 101 class A or incipient fires, this class being only partially reported in 1915.

The importance of clearing rights of way of inflammable débris, thus reducing the fire hazard, is well illustrated by the reduction in the number and size of fires reported along those portions of railway rights of way where such work had been carried out. If this work, which the railways are required to perform under section 297 of the Railway Act, is to be made fully effective, some provision should be made by the respective Dominion and Provincial agencies for the disposal of inflammable débris immediately adjacent to railway rights of way. As a rule, this is in the form of slash resulting from logging operations, settlers clearing land, or the construction of colonization wagon roads.

RIGHT OF WAY CLEARING.

Taking into consideration the disturbed condition of the financial and labour markets, most of the railway companies have made a fairly satisfactory showing, and great credit is due them.

During the past year further progress was made by the Grand Trunk Railway in co-operation with the Department of Lands, Forests, and Mines of Ontario, in cleaning up the inflammable débris on the right of way through Algonquin park, and an additional narrow strip immediately adjacent thereto, notwithstanding that some difficulty was experienced in obtaining necessary labour. Very satisfactory progress was also made in cleaning up accumulations of inflammable débris on the rights of way of the Moncton and Buctouche, Salisbury and Albert, Quebec Oriental, Atlantic, Quebec and Western, and Grand Trunk Pacific Railways.

Right-of-way clearing operations were started on the Kettle Valley, Elgin and Havelock, Saint Martins and Halifax and South Western railways, but relatively little progress was made, mostly on account of shortage of labour.

In Ontario, a start was also made along the line of the recently constructed Canadian Northern railway. Difficulty was experienced, however, in securing labour, and only a small percentage of the work to be done was carried out.

COMPLAINTS RE RIGHT OF WAY.

Aside from reports submitted by the Board's inspectors, only two specific complaints were received during the year, as to right of way conditions. These were as follows:—

Complaint against Grand Trunk and Canadian Pacific Railway Companies renoxious weeds growing on rights of way in Durham county, Ontario.

Complaint against Canadian Pacific Railway re noxious weeds growing on right of way of the Smiths Falls subdivision, Ontario.

FIRE PROTECTIVE APPLIANCES ON LOCOMOTIVES.

During the past fire season extending from April 1 to November 1, officers of the Fire Inspection Department inspected the fire protective appliances on 1,389 locomotives operating through forested territory; of this number, 14·3 per cent were found defective.

Eight inspectors of this department were instructed in this work during 1916, in addition to those instructed during previous years.

LOCOMOTIVE FUEL.

There has been no change in the oil fuel situation since last report.

Nine samples of coal were taken and submitted to the Fire Inspection Department, of which 4 samples were submitted to the Fuel-Testing Branch of the Department of Mines for analysis.

FIRE-GUARD REQUIREMENTS.

The fire-guard requirements for 1916 were identical with those prescribed for 1915, and were issued to the Canadian Pacific, Canadian Northern, Grand Trunk Pacific, Great Northern, and Edmonton, Dunvegan and British Columbia Railways.

FIRE-GUARD STATISTICS.

During the past year there were 13,929·39 miles of track subject to the Board's jurisdiction in the three Prairie Provinces. This represents an increase of 485·63 miles over 1915. Since fire-guards are required to be constructed on both sides of the track, the total to be accounted for is equivalent to double this figure, or 27,858.78 fire-guard miles.

Great difficulty was experienced by the railway companies in securing the necessary labour for the construction of fire-guards, due to the labour shortage occasioned by the war. However, the following statistical summary shows that 11,398.60 miles of fire-guards were constructed or maintained during the past year, while 16,460.18 miles were not constructed. Of this, 7,588.94 miles were exempted by this department, and 6,339.30 miles were not constructed for the several specific reasons indicated in the table and accepted as relieving the railway companies of responsibility for the construction of fire-guards. This leaves 2,531.94 miles not definitely accounted for, upon much of which fire-guards should presumably have been constructed under our requirements.

SUMMARY of Fire-Guard Construction and Maintenance by Railways in the Provinces of Alberta, Saskatchewan, and Manitoba, 1916.

. ——	Edmonton Dunvegan and British Columbia.		Grand Trunk Pacific.	Canadian Northern.	Canadian Pacific.	Totals.
Length in track miles Length in fire-guard miles ¹ Fire-guards constructed (shown in fire-guard miles)—	130·00 260·00					
a Grain stubble lands \Fireguarded b Cultivated hay lands \formup wner. c Fenced grazing landsd Wild lands Total miles of fire guards constructed	$ \begin{array}{r} 0.68 \\ 14.10 \\ 12.31 \end{array} $	171 · 00 19 · 00 0 · 50		$170.90 \\ 398.60 \\ 1,350.55$	106.43 $1,833.58$ $2,336.35$	$ \begin{array}{r} 449.61 \\ 2,627.18 \end{array} $
Fireguards not constructed (shown in fire guard miles)— Exemptions ² Owner refuses to allow construction ³ Unnecessary: land already plowed ⁴ a Grain stubble lands (Not fire- b Cultivated hay lands guarded by owner ⁵	210·34 6·88 3·62	$\begin{array}{c} 1\cdot75 \\ 2\cdot00 \end{array}$	1,303·30 3·80 415·50 741·10	$42 \cdot 10 \\ 770 \cdot 60 \\ 1,464 \cdot 40$	$ \begin{array}{c} 18.32 \\ 1,199.55 \\ 1,212.70 \end{array} $	65.97 2,394.53 3,421.82
Miscellaneous other reasons	3.84		123.30	1,413.80	983 · 24	2,531.94
Total miles of fire guards not constructed	$224 \cdot 68$	47.51	$2,601 \cdot 10$	7,539.87	6,047.02	16,460.18

¹ Fireguard mileage is double the track mileage, since the construction of fire guards is required on both sides of the track.

structing fire guards.

‡ Under construction.

COMPLAINTS RE FIRE-GUARDS.

Only three specific complaints re failure to construct fire-guards were received during 1916, as follows::--

Failure to plough or maintain guards (G.T.P. Ry.)	1
Fire-guards not established in accordance with fire-guard require-	
ments (C.P.R.)	1
Damage to hay crop by burning (C.P.R.)	1
Fences cut and destroyed when ploughing fire-guards (C.P.R.).	1
Report by railway company that owner refuses to permit plough-	
ing of guards (G.T.P. Ry.)	1

² Company exempted from fireguard construction, as to portions of line where showing made that such construction is unnecessary or impracticable.

3 Employees of railway company refused permission, by owner, to enter upon land for purpose of con-

⁴ Fireguarding unnecessary, because fields already ploughed.
⁵ Fireguarding in grain stubble and in cultivated hay lands required only where the land owner or occupant would undertake to plough guard at the reasonable price specified by the Board.

APPENDIX "E."

RECORD ROOM.

List of Cases appealed to the Supreme Court of Canada, February 1, 1904, to March 31, 1917.

File No.	Subject.	Decision.
1114	Montreal Terminal Railway vs. Montreal Street Railway. Pius IX Avenue Crossing, Montreal, Que. Question of jurisdiction	Allowed.
1492	James Bay Railway vs. Grand Trunk Railway Crossing, Belt	
383	Line Spur. Question of law Ottawa Electric Railway and City of Ottawa vs. Canada Atlantic Railway, re Bank Street Subway, Ottawa. Question of law	Dismissed. Dismissed.
598	Re Toronto Union Station. A. R. Williams expropriation. Question of jurisdiction	Dismissed.
1604 C. 1309	Robinson vs. Grand Trunk Railway, two cents rate. Question of law	Dismissed.
689	Canadian Pacific Railway vs. Grand Trunk Railway, re branch line, London, Ont. Question of jurisdiction	Dismissed.
C. 1680	Essex Terminal and Windsor, Essex and Lake Shore Railroad, crossing in Township of Sandwich, Ont. Question of law	Dismissed.
1497	T. D. Robinson vs. Canadian Northern Railway spur at Winnipeg. Question of jurisdiction	Dismissed.
9527	Montreal Street Railway re rates Mount Royal Ward. Question of jurisdiction.	Allowed.
C. 4719	Department of Agriculture, Province of Ontario, vs. Grand Trunk Railway, station at Vineland. Question of jurisdiction	Dismissed.
C. 3322	Re Toronto Viaduet. Appeal by the Canadian Pacific Railway Company. Question of law	Dismissed.
C. 4897	Re fencing and cattleguards. Order No. 7473. Appeal by the Canadian Northern Railway Co. Question of jurisdiction	Allowed in part.
C. 4492	City of Toronto vs. Grand Trunk and Canadian Pacific Railway Companies. Question of law	Referred back to Board
C. 2545	City of Ottawa and County of Carleton, re Richmond Road Viaduet. Question of jurisdiction	Dismissed.
13079	Grand Trunk Railway vs. Canadian Northern Ontario Railway. Spur in Township of Scarboro. Question of jurisdiction	Dismissed.
C. 3269	Grand Trunk Railway vs. British American Oil Companies. Oil rates. Question of law	Dismissed.
1519	Grand Trunk Pacific Railway vs. City of Fort William. Relocation. Question of jurisdiction	Dismissed.
11965	Niagara, St. Catharines and Toronto Railway vs. Davy. Question of jurisdiction	Allowed.
9527	Montreal Street Railway (Montreal, Park and Island Railway) rerates, Mount Royal Ward. Question of jurisdiction	

List of Cases appealed to the Supreme Court of Canada, February 1, 1904, to March 31, 1917—Concluded.

File No.	ile No. Subject.							
C. 15580	Clover Bar Coal Company, Limited, and Wm. Humberstone vs. Grand Trunk Pacific Railway Company and the Clover Bar Sand and Gravel Company	Allowed.						
12682	Regina Rates Case	Dismissed.						
17963	Grand Trunk Pacific Railway vs. A. E. Purcell of Saskatoon, Sask.	Dismissed.						
C. 3269	Canadian Pacific Railway Company vs. British American Oil Companies. Question of jurisdiction	Dismissed.						
$^{15330}_{15330\cdot 1}$	Grand Trunk and Canadian Pacific Railway Companies vs. Canadian Oil Company. Question of jurisdiction	Dismissed.						
20062	British Columbia Electric Railway Co., Vancouver, Victoria and Eastern Ry. Co. vs. City of Vancouver. Question of jurisdiction	Dismissed.						
1487	H. B. Chambers and W. B. G. Phair vs. Canadian Pacific Railway Company. Question of jurisdiction	Allowed.						
18578	Canadian Northern Railway Company vs. William A. Taylor. Question of jurisdiction	Dismissed.						
19435	Grand Trunk Pacific Railway vs. City of Edmonton. Question of law	Dismissed.						
1750 - 34	Canadian Pacific Railway Company vs. Grand Trunk Company. Appeal by C.P.R. Question of law	Dismissed.						
14329 • 9	Montreal Tramway and Montreal, Park and Island Railway vs. Lachine, Jacques Cartier and Maisonneuve Railway. Question of jurisdiction	Allowed.						
23009	City of Hamilton vs. Toronto, Hamilton and Buffalo Railway. Appeal by T.H. & B. Ry. Question of jurisdiction	Allowed.						
21428	Grand Trunk Railway vs. Hepworth Silica Pressed Brick Co. Question of law.	Dismissed.						
12021.70	Toronto Railway Company and the City of Toronto and the Canadian Pacific Railway. Questions of law and jurisdiction	Dismissed.						
С. 3935	City of Edmonton vs. Calgary and Edmonton Railway. Question of law	Dismissed.						
16171	Ingersoll Telephone Company (and other Independent Telephone Companies) vs. Bell Telephone Company. Question of law							

SUMMARY.

Appeals dismissed Appeals allowed															
Appeals heard	 		 	-						 			 	3	5

List of Appeals to the Governor in Council from February 1, 1904, to March 31, 1917.

File No.	Subject.	Decision.
399	Bay of Quinte Railway crossing C.P.R. at Tweed, Ont	Dismissed.
1455	James Bay Railway vs. Grand Trunk Railway crossing near Beaverton	Dismissed.
1781	Grand Trunk Railway Company vs. City of Chatham, Ont. Street Crossings.	Dismissed.
12992	Maniwaki Branch of the Canadian Pacific Railway, train service from Ottawa	Judgment not rendered. Matter referred back
2030	Re Tariffs of certain Yukon Railway	to Board. Dismissed.
17716	Canadian Pacific Railway Longue Pointe spur through Town of Maisonneuve, Que	Dismissed.
18787	South Hazelton Townsite vs. Grand Trunk Pacific Railway	Allowed.
$3452\cdot30$	J. Y. Rochester re Cameron Bay vs. Grand Trunk Pacific Railway	Dismissed.
12912	Park Avenue Subway, Town of St. Louis, Que., vs. Canadian Pacific Railway	
17040	Lambton to Weston Spur and Canadian Pacific Railway	No formal order made.
C. 3322	Toronto Viaduct Case	Dismissed.
12021 - 70	City of Toronto, re North Toronto Grade Separation	Dismissed.
16177	Canadian Pacific Railway vs. Mountain Lumber Manufacturers Association, re lumber rates	
19024	Charles Miller of Toronto vs. Grand Trunk Pacific Railway, restation at Prince George, B.C	Dismissed.
17716 · 10	Canadian Pacific Railway vs. Town of Maisonneuve, Que., re Highway Crossings	Dismissed.
$22681 \cdot 25$	City of Montreal vs. Canadian Northern Railway, siding across Stadacona and Marlboro Streets, Montreal, Que	Pending.
21418	City of Prince George, B.C., re location of Grand Trunk Pacific Railway station between Oak and Ash Streets, Prince George, B.C.	
21660	Canadian Northern Ontario Railway vs. the Township of Loughboro, Ont	
26169	Canadian Pacific Railway and Canadian Northern Railway Com- panies, re interswitching at Eastern Public Cattle Market, Montreal, Que.	Pending.
17040	Appeal of the Canadian Pacific Railway Company re Lambton to Weston Spur (2nd appeal)	Dismissed.

SUMMARY.

Number of appeals dismissed	. 14
Number of appeals allowed	. 1
Number of appeals withdrawn	3
Number of appeals pending	. 2
Total number of appeals	20

APPENDIX "F."

GENERAL ORDERS AND CIRCULARS.

Ottawa, January 29, 1917.

CIRCULAR No. 150.

File No. 20847—Protection to workmen while engaged under or about cars on regular repair tracks.

It is the opinion of the Board that in addition to the blue flag by day and the blue light by night, displayed as required by rule 26 of the general train and interlocking rules, further protection should be adopted by having all switches leading to regular repair tracks locked with special locks and the keys carried by the foreman in charge of the car-repair work, or other responsible party, whose duty it should be to see that employees are warned and are clear from cars before any switching movement is made on such track, and to see that switches are re-locked after switching movement is completed.

Railway companies will please acknowledge receipt.

By order of the Board,

A. D. CARTWRIGHT,

Secretary.

GENERAL ORDER No. 170.

In the matter of the General Order of the Board No. 148, dated September 1, 1915, authorizing all railway companies within the legislative control of the Parliament of Canada and operating in the provinces of Alberta and Saskatchewan, to endorse upon the bills of lading, approved under Order No. 7562, dated July 15, 1909, the amount of advances for seed grain, fodder for animals and other goods furnished to persons in the said provinces, and the interest agreed to be paid, authorized by chapter 20 of the Acts, 1915, and as provided under Order in Council of July 23, 1915.

Upon the report of the Governor in Council by Order in Council dated July 31, 1916, terminating on the 1st September, 1916, the arrangement whereby the railway companies endorse indebtedness on bills of lading.—

It is ordered: That the said General Order No 148, dated September 1, 1915, be, and it is hereby, reseinded on and after the 1st day of September, 1916.

D'ARCY SCOTT, - Assistant Chief Commissioner.

Ottawa, August 5, 1916

GENERAL ORDER No. 171.

In the matter of the question of hand rails and small foot rests on the outside of cabs of locomotives; and a railing on the tender to prevent men from slipping off when they are passing over the tender or when the locomotive is taking coal or water.

File No. 22223.

Upon hearing the matter at the sittings of the Board held in Ottawa, May 4, 1915, in the presence of representatives of the Brotherhood of Locomotive Engineers,

the Brotherhood of Firemen and Enginemen, the Grand Trunk, Canadian Pacific, and Canadian Northern Railway Companies, and the New York Central & Rutland and the Michigan Central Railroad Companies, and what was alleged, and reading the replies of the railway companies interested to supplement No. 1 to Circular of the Board No. 142, dated July 6, 1915, and the report and recommendation of the Chief Operating Officer of the Board,—

It is Ordered:

1. That the railway companies subject to the jurisdiction of the Board be, and they are hereby, directed to equip all locomotives of 100,000 pounds or over with handrails on the sides of cabs above the windows, near the top of the cab, and running the entire length of the same; the rails to have a clearance of two inches between the inner side of the rail and the outside wall of the cab, and to be securely fastened at cach end, with a support in the centre; and that, where the running boards do not project beyond the side of the cab, an additional piece be added, to project not less than one inch from the side of the cab and running the full length of same.

2. That the tender of all locomotives be equipped with a railing on both sides, on the top of the coping; such railing, if made of round bar iron, or of iron pipe, to be not less than one inch in diameter, supported by three columns, one at each end and one in the centre, standing eight inches from the top of the coping; the said rails to run the full length of the fuel storage well, or clear of the back coal wall, on the tender; that on the spaces back of the coal wall, where the water man-hole is located, the coping or railing project eight inches above the top of the tank and run around both sides and back of the tank not less than eight inches high, supported by columns to make it secure.

3. That plans showing the proposed foot rests and the railing on tenders be filed

for the approval of the Board.

- 4. That the said railway companies be, and they are hereby, permitted to operate locomotives used in international traffic, and merely passing through Canadian territory, equipped in accordance with the regulations of the Interstate Commerce Commission.
- 5. That this permission shall not extend to locomotives operated from or entirely within Canadian territory.

D'ARCY SCOTT, Assistant Chief Commissioner.

OTTAWA, August 1, 1916.

GENERAL ORDER No. 173.

(Corrected).

In the matter of the tariffs of the railway companies showing charges for the use of heated refrigerator cars; and the orders of the Boards Nos. 24680 and 24994, dated January 27, and May 23, 1916, respectively, suspending the said tariffs: also the order of the Board No. 25251, dated August 5, 1916, rescinding the said order No. 24994 in so far as it effected the tariffs for local movements between points west of lake Superior, subject to the provisions therein contained:

File No. 18855.11.

Upon hearing the matter at the sittings of the Board held in Ottawa, Toronto, Winnipeg, Saskatoon, Edmonton, Calgary, Regina, and Winnipeg on the 8th February, 22nd February, 12th June, 14th June, 15th June, 10th July, 13th July, and 14th July, 1916, respectively, in the presence of representatives of the Boards of Trade of Montreal, Toronto, Hamilton, Winnipeg, and Saskatoon, the Calgary Brewing

Company, the Canadian Manufacturers' Association, the Ontario Fruit Growers' Association, the Canadian Pacific, Canadian Northern, and Grand Trunk Pacific Railway Companies and the Michigan Central and New York Central Railroad Companies, and what was alleged at the hearings: and upon the reading of what has been filed, and the report of the Chief Traffic Officer of the Board.

It is Ordered:

- (1) That the order of the Board No. 24680, dated January 27, 1916, in so far as it affects local movements between points east of and including Westfort, Ont., be, and it is hereby, rescinded provided: (a) that the clause in the tariffs thereby suspended restricting the number of destinations of less-than-earload shipments be omitted; and (b) that the clause requiring loading in cars in destination order by shippers be revised so as to apply to shipments handled through the carriers' freight warehouse also
- (2) That the orders of the Board Nos. 24680 and 24994, dated January 27 and May 22, 1916, respectively, in so far as they affect through shipments from and to points east of Port Arthur to and from points west of Westfort, be, and they are hereby, rescinded: Provided that the following subdivision of the territory west of Westfort, and the following maximum tolls for heat in addition to the freight rates from or to the territory west of and including Montreal and Lachute, be substituted for those shown in the tariffs thereby suspended, and that the differences over these maximum tolls do not exceed from or to the territory south and east of Montreal and Lachute the differences expressed in the said suspended tariffs.

			Toll per	car.
Group	1.	West of Westfort to and including Kenora and Rainy River.	\$10	
66	2.	West of Group 1 to and including Winnipeg and Emerson	11	
4.6	3.	Remainder of Manitoba	13	
4.6	4.	West of Group 3 to and including Viceroy, Moosejaw, Saska-		
		toon, and Prince Albert	15	
		Province of Saskatchewan west of Group 4		
6.6	6.	West of Group 5 to and including the Canadian Pacific		
		Railway Company's Macleod-Calgary-Edmonton Line		
4.4	7.	North of Edmonton and west of Group 6 to Penticton, Kam-		
		loops, and Prince George		
6.6	8.	West of Group 7 to Vancouver and Prince Rupert	25	

(3) That the general order of the Board No. 152, dated November 2, 1915, authorizing certain tolls for the use of refrigerator cars for the carriage of vegetables in carloads, be, and it is hereby, rescinded.

H. L. DRAYTON, Chief Commissioner.

Ottawa, October 26, 1916.

GENERAL ORDER No. 174.

In the matter of the application of the Canadian Pacific, Grand Trunk, and Toronto, Hamilton and Buffalo Raitway Companies and the Michigan Central Raitroad Company, on behalf of themselves and other railway companies in Canada subject to the jurisdiction of the Board, for an order amending General Order No. 1, known as "The Canadian Car Service Rules," so as to provide that the demurrage charge for each twenty-four hours, as provided in Rule No. 1, be increased from \$1 to \$4; and also that the additional free time beyond forty; eight hours, authorized by exception (a) to rule 2, be cancelled.

File No. 1700.140.

Upon hearing the application at the sittings of the Board held in Toronto, December 12, 1916, the Canadian Pacific, Grand Trunk, Hamilton and Buffale, and the Canadian Northern Railway Companies, the Michigan Central Railroad Com-

pany, the Canadian Manufacturers' Association, the Canadian Freight Association, the Boards of Trade of Toronto, Montreal, Brantford, and Hamilton, the city of Toronto, the Canadian Lumbermen's Association, the Canadian Pulp and Paper Association, the New Brunswick Potato Exchange, the Department of Public Works for the province of Ontario, the Retail Coal Dealers' Association, the Retail Association (Coal Section), the Stone Supply Section, the International Harvester Company, the Massey-Harris Company, Limited, the Ontario Hay Shippers' Association, the Imperial Oil Company, the Steel Company of Canada, the Anglo-Canadian Leather Company, the Ontario Lime Company, J. B. Smith & Sons, Limited, and the Dominion Millers' Association being represented at the hearing, and what was alleged; and upon reading the further written submissions filed, and the report of the Chief Traffic Officer of the Board,—

It is ordered: That the said General Order No. 1, known as "The Canadian Car Service Rules," be, and it is hereby amended as follows, namely:—

Rules 1, 2, 6 and 15 of the Canadian Car Service Rules are suspended in their entirety from January 1, 1917, to April 30, 1917, both inclusive, and the following Rules, bearing the same numbers, are hereby substituted. Rule 11 is also suspended for the same period:—

Rule 1.—When cars are held under load, or awaiting loads, beyond the free time allowed by Rule 2, for any reason for which the consignee or shipper is responsible, the following tolls for each day of twenty-four hours, or any part thereof, shall be charged to and paid by the shipper, consignee, or other party responsible therefor, in addition to all other tolls paid or payable in respect of the goods carried, or to be carried, in or on each such car, namely:—

For the first day. One dollar.

For the second day. One dollar.

For the third day. Three dollars.

For the fourth and each succeeding day. Five dollars.

Rule 2.—(a) After notice of arrival of a car at its destination, or in the outside break-up or sorting yard if such be used for the purpose, all consignees shall be allowed twenty-four hours within which to pay the tolls or charges (if any), to give order for special placing or delivery if such orders be necessary, and for customs entry of freight in bond. If more than twenty-four hours be used for these purposes the excess time shall be deducted from the succeeding unloading period, except as provided in rule 15.

(b) Forty-eight hours free time shall be allowed for loading or unloading all commodities, computed from seven a.m. of the day following the day on which actual cr constructive (see rule 13) placement has been effected: Provided that any portion of such placement day may be utilized by the shipper or consignee, in addition to the said forty-eight hours, without charge.

Exceptions.—(a) Five days free time shall be allowed at Montreal and at tidewater ports for unloading lumber and hay for export.

- (b) In the portion of Canada in which the Canada Grain Act prescribes a specified time for loading grain, the said Act shall apply.
- (c) If the destination is not a port of entry, forty-eight hours shall be allowed for clearance of customs at the outside port of entry.

Rule 6.—If wet or inclement weather, according to local conditions, renders loading or unloading impracticable during business hours, or exposes the goods to damage, the time allowance shall be extended so as to give the full free time of suitable weather. But if the parties neglect or fail to avail themselves of the herein authorized free time of suitable weather, they shall not be allowed additional free time by reason of such neglect.

GENERAL ORDER No. 178.

In the matter of the Rules and Instructions for the Inspection and Testing of Locomotive Boilers and their Appurtenances, as set out in General Order No. 78, dated the 14th day of July, 1911, and Circular No. 140, dated the 22nd day of January, 1915; and

In the matter of the application of the Canadian Pacific Railway Company for an extension of time for the external inspection of locomotive boilers.

File No. 16513.

Upon reading what is filed in support of the application, and the report of the Chief Operating Officer of the Board; and its appearing desirable to consolidate the supplemental regulations in the above-mentioned matter issued since the issue of the said General Order No. 78.—

It is ordered: That, in the case of locomotives which are out of service in good condition for one or more full months, the time for making the following inspections and tests, namely.—(a) removal of flues and interior inspection of boiler, (b) removal of lagging and exterior inspection of boiler, (c) hydrostatic test, and (d) removal of caps and inspection of flexible staybolts, as provided by paragraphs 5, 11, 12, and 18 of General Order No. 78, may be extended by the railway companies, without making application therefor, for a number of months equivalent to the number of continuous months during which any such locomotive shall be out of service; provided that such inspections and tests shall in no case be performed less frequently than as hereinafter set forth:—

(a) Removal of flues and inspection of interior of boiler once at least in every forty-eight consecutive months.

(b) Removal of jacket and lagging and inspection of exterior of boiler once at least in every sixty-nine consecutive months.

(c) Hydrostatic tests once at least in every twenty-four consecutive months.

(d) Removal of caps and inspection of flexible stay-bolts once at least in every thirty consecutive months.

And it is further ordered: That the time during which any such locomotive is out of service be properly covered by "out of service" reports and a notation made on the back of inspection reports and cab cards showing the months out of service on account of which time has been extended.

And it is further ordered: That no extension of time be permitted for any period less than a full month.

And it is further ordered: That if a locomotive be out of service when any of the above inspections and tests become due, such inspection and test need not be performed until just prior to the time when such locomotive shall be returned to service.

H. L. DRAYTON,

Chief Commissioner.

Ottawa, January 23, 1917.

GENERAL ORDER No. 180.

In the matter of the application of the Express Traffic Association of Canada, on behalf of the express companies subject to the jurisdiction of the Board, for approval of revised Supplement No. 10 to the Express Classification for Canada, C.R.C. No. 3 (first submitted as No. 8); also including therein Supplement No. 11 (first submitted as No. 10), omitting the proposed conditions of carriage relating to Carload Wagon Service and pick-up and Delivery Service, and Supplement No. 12 (first submitted as No. 11), omitting the items relating to cigars, cigarettes, and tobacco.

Files Nos. 4397.25, 4397.29 and 4397.30.

Upon its appearing that objections to certain of the proposed changes in rules and ratings were, by consent of the parties represented at the hearings in Winnipeg, June 12, 1916, Saskatoon, June 14, 1916, and Edmonton, June 15, 1916, left to be settled between the interested parties in Eastern Canada, and those affected by the proposed changes, as they now appear in the said revised Supplement No. 10, having notified the Board of their consent thereto,—

It is ordered: That the said revised Supplement No. 10 to the Express Classification for Canada C.R.C. No. 3, submitted to the Board by C. N. Ham, secretary of the Express Traffic Association of Canada, with his letter of January 16, 1917, attached hereto and marked "A", be, and the same is hereby, approved.

H. L. DRAYTON,

Chief Commissioner.

Ottawa, January 30, 1917.

GENERAL ORDER No. 182.

In the matter of the movement of bituminous coal from the United States into Canada.

File No. 19323.9.

Upon it being represented to the Board that the movement of bituminous coal from points in the United States to points in Canada is delayed at the frontier for custom clearance, and that such delay can be obviated by said coal being entered for duty at interior ports of entry or outports, and upon reading what has been filed by the Commissioner of Customs stating that no objection exists to such obviation, although the coal may be billed for customs clearance at the frontier,—

It is ordered: That railway companies within the legislative authority of the Parliament of Canada be, and they are hereby, permitted to forward bituminous coal from the United States, billed for clearance of customs at the frontier, to its destination in Canada if the destination be a customs port or outport, and if not, then to the customs port or outport nearest to but short of its destination, for customs clearance thereat, instead of at the frontier, the carriage from the frontier to the interior point of clearance to be in bond under customs manifest prepared by the railway company and signed by a customs officer.

H. L. DRAYTON,

Chief Commissioner.

Ottawa, February 16, 1917.

GENERAL ORDER No. 183.

In the matter of the General Order of the Board No. 14 (Order No. 5117), dated July 30, 1908, and the application of the Express Traffic Association of Canada for an Order providing that the same arrangement be accorded to the express companies.

File No. 8071

Upon reading what is filed by the Express Traffic Association of Canada, on behalf of express companies subject to the jurisdiction of the Board, and the report and recommendation of the Chief Traffic Officer of the Board,—

It is ordered: That the arrangement whereby certain tariffs of freight or passenger tolls may be filed with the Board by agents, other than officials of the companies, acting jointly for two or more railway companies subject to the legislative authority of the Parliament of Canada, provided that the said joint agents be duly authorized to act for the several companies by power of attorney, as set forth in the said General Order No. 14 (Order No. 5117), dated July 30, 1908, be, and it is hereby, extended to express companies subject to the jurisdiction of the Board.

H. L. DRAYTON,

Chief Commissioner.

Ottawa, February 24, 1917.

GENERAL ORDER No. 184.

In the matter of the application of D. D. Campbell, of Winnipeg, Manitoba, for an Order increasing the allowance for grain doors supplied by shippers to \$1.50 for the lower door and 75 cents for the upper part; also, that the bill therefor, when certified to by the railway company's agent, be accepted by him and credited on account of freight charges.

File No. 4106.

Upon hearing the application at the sittings of the Board held in Winnipeg, March 16, 1917, the Northwest Grain Growers' Association and the Canadian Pacific, Canadian Northern, and Grand Trunk Pacific Railway companies being represented at the hearing, the applicant appearing in person, and what was alleged,—

It is ordered: That the Order of the Board No. 8860, dated December 10, 1909, requiring that where shippers upon all or any railways subject to the jurisdiction of the Parliament of Canada are compelled to furnish ear doors to enable cars to be used for traffic, allowance therefor to such shippers be made upon the following basis:—

(a) At and west of Fort William, lower car door, \$1; upper car door, 50 cents.

(b) East of Fort William, upper or lower car door, each, 50 cents, be, and it is hereby, amended to provide that the said allowance for grain doors be increased from \$1 to \$1.50 for the lower door, and from 50 cents to 75 cents for the upper door, in all \$4.50 a car, the said allowance to be made at and west of Port Arthur, Ont.

D'ARCY SCOTT,

Assistant Chief Commissioner.

Ottawa, March 22, 1917.

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TELEPHONE STATISTICS

OF THE

DOMINION OF CANADA

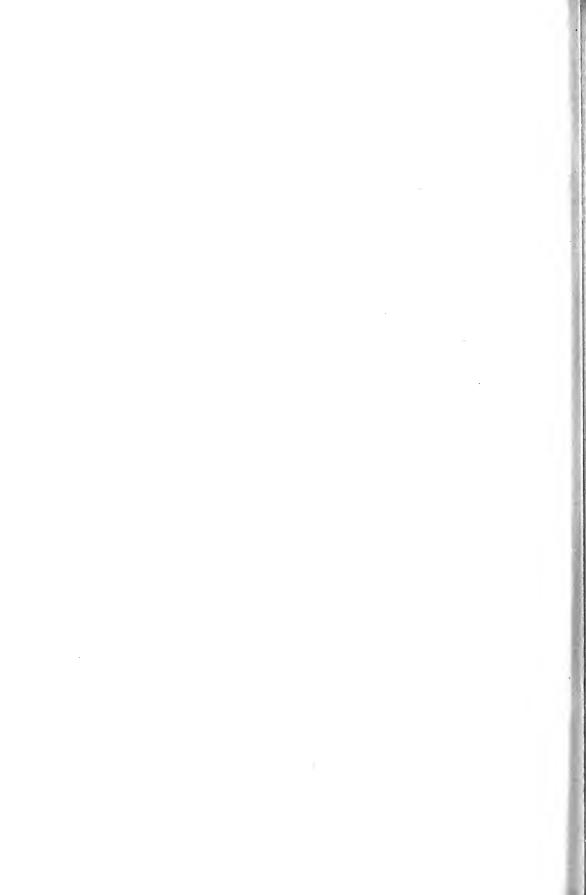
YEAR ENDED JUNE 30

PRINTED BY ORDER OF PARLIAMENT



OTTAWA

J. DE LABROQUERIE TACHÉ,
PRINTER TO THE KING'S MOST EXCELLENT MAJESTY,
1918

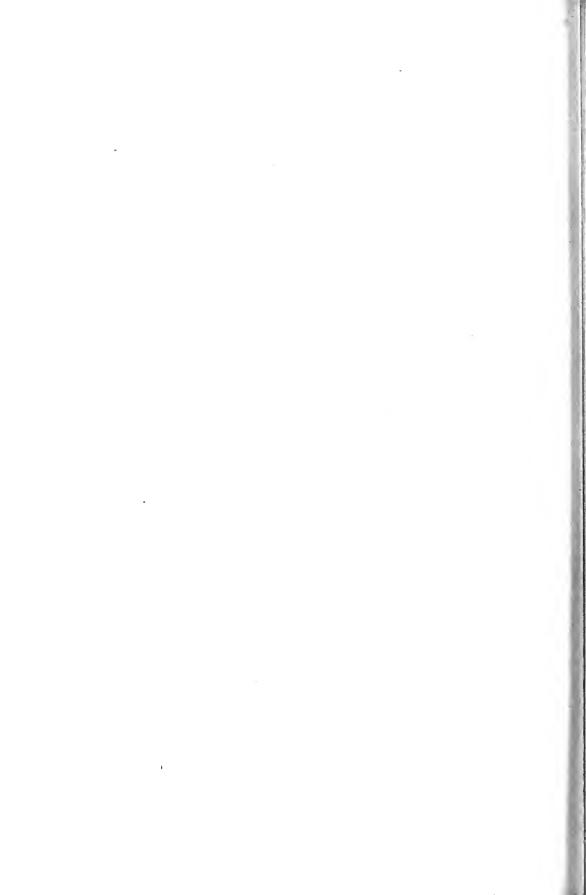


To His Excellency the Duke of Devonshire, K.G., P.C., G.C.M.G., G.C.V.O., etc., etc., Governor General and Commander in Chief of the Dominion of Canada.

MAY IT PLEASE YOUR EXCELLENCY:

The undersigned has the honour to present to Your Excellency the Annual Report of the Comptroller of Statistics in relation to the telephone interests of the Dominion of Canada for the year ended June 30, 1917.

J. D. REID,
Minister of Railways and Canals.



To the Hon. J. D. Reid.

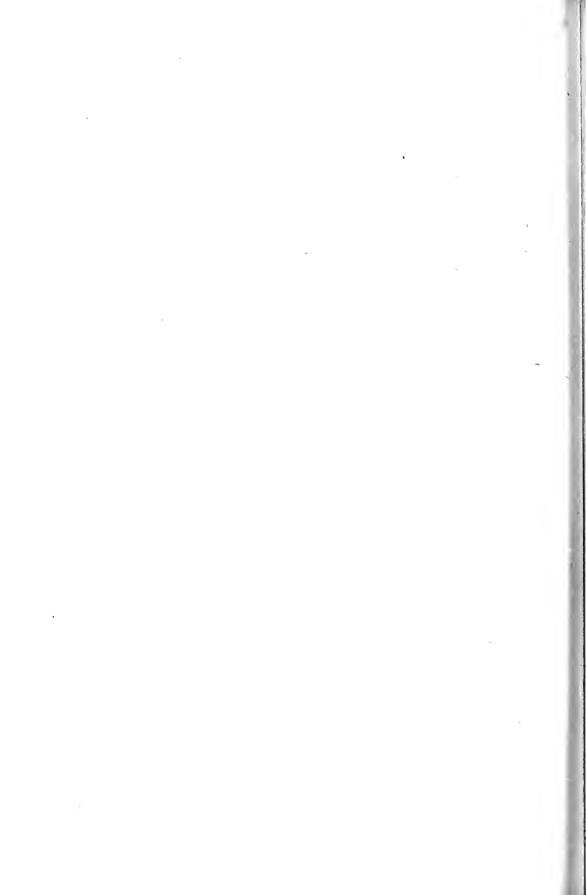
Minister of Railways and Canals.

SIR.—I have the honour to submit the report of the Comptroller of Statistics in relation to the telephone interests of the Dominion of Canada for the year ended June 30, 1917.

I have the honour to be, sir,
Your obedient servant,

A. W. CAMPBELL,

Deputy Minister of Railways and Canals.



Office of the Comptroller of Statistics, Ottawa, January 24, 1918.

A. W. CAMPBELL, Esq., C.E.,

Deputy Minister of Railways and Canals.

SIR,—I have the honour to submit to you herewith Telephone Statistics for the year ended June 30, 1917.

The various statistical tables reveal considerable further development of

the telephone interests of the Dominion.

The information obtained is not absolutely complete, in the sense that reports were received from every unit in actual operation, but it may be taken as representing all that was practically available under existing conditions. The omissions relate wholly to minor organizations to the number of possibly one hundred.

The number of reports received increased from 1,592, in 1916, to 1,695

for 1917.

ORGANIZATION.

Number and classification of reporting units:—

Province.	Govern- ment.	Muni- cipal.	Stock.	Co- oper- ative.	Partner- ship.	Private.	Total.
Nova Scotia			28	109	1	5	143
New Brunswick			19	8		4	31
Prince Edward Island			4	27		1	32
Quebec			82	55	2	34	173
Ontario	2	59	183	205	14	65	528
Manitoba	1	7	4	22		4	38
Saskatchewan		5	309	412			727
Alberta	1	1	4	2			8
British Columbia		1	11	1		1	14
Yukon			1				1
Total	5	73	645	841	17	114	1,695

Comparative statement of organizations:—

	1913.	1914.	1915.	1916.	1917.
Government	4	4	4	4	5
Municipal	52	58	62	67	73
Stock	543	611	584	622	645
Co-operative	262	297	601	765	841
Partnership	63	48	28	23	17
Private	151	118	117	111	114
Total	1,075	1,136	1,396	1,592	1,695

Reporting units by provinces:—

Province.	1911.	1912.	1913.	1914.	1915.	1916.	1917.
Nova Scotia	14	12	83	83	123	139	143
New Brunswick	16	17	25	24	26	29	31
Prince Edward Island	1	1	1	1	27	30	32
Quebec	32	62	101	127	145	162	173
Ontario	319	369	451	468	492	502	528
Manitoba	3	3	35	38	38	37	38
Saskatchewan	143	206	361	369	520	668	727
Alberta	-4	3	3	9	10	10	8
British Columbia	5	10	15	16	14	14	14
Yukon	0	0	0	1	1	1	1
Total	537	683	1,075	1,136	1,396	1,592	1,695

In the three western provinces of Manitoba, Alberta, and Saskatchewan, telephone interests are largely operated by the local governments. This is more specifically true of the two former. While the Government of Saskatchewan carries on operations in several of the principal centres of population, and at large capital cost, there are upwards of 700 independent organizations scattered over the province. These independent units are typical of the general class of organizations which is so effectively providing telephone service in the rural districts of the Dominion.

CAPITALIZATION AND COST.

Capitalization :--

	1912.	1913.	1914.	1915.	1916.	1917.
	\$ cts.	\$ cts.	\$ ets.	\$ ets.	\$ cts.	\$ ets.
Stocks Funded debt	21,533,605 09 24,743,246 65	26,590,501 39 33,256,503 44	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	28,947,122 02 45,337,86: 49	29,416,956 28 $47,503,358$ 09	29,476,367-54 49,645,334-80
Total	46,276,851 74	59,847.004-83	70,291,884 15	74, 284, 991 51	76,920,314 37	79, 121, 702-34

Capitalization by provinces:—

Province.	Stocks 1917.		Funded 191		Total 1	917.	Total	1916.	Total	1915.
	ş	ets.	\$	cts	8	cts.	\$	ets.	8	ets.
Nova Scotia	1,926.01			390 00			3,431,			218 37
New Brunswick Prince Edward Island	1,512,25 155,80						1,519, 163,			.877/81 $.496/31$
Ouebec.	19, 425, 98				31,317,		31.319.		31.080	
Ontario	0 150 50				4,458,		4,102.	622 99	3.698	693 32
Manitoba			11,106,	941 87	11, 133, 0	072 16	11,126.		10,750	
Saskatchewan	831,339	00	8.994,	681 68	9.826,0	020 - 68	8,047,	805 60		, 670-62
Alberta	130.05	1 00	11.256,	910 50	11,386.9	964 50	11,383,		10,927	
British Columbia	3, 224, 05	4 34	2,504,	333 33	5,728.	387 67	5,760,	770 18		.354 42
Yukon	65,00	0.00			65,0	00 00	65,	000 00	65.	,000 00
Total	29, 476, 36	7 54	49,645,	334 80	79, 121,	702 34	76,920,	314 37	74.284	. 991 - 51

It should be understood that, while the Bell Telephone Company has it⁸ larger interests in Ontario, its headquarters are in Montreal. This fact causes the entire capitalization to be assigned to the province of Quebec.

Cost of telephone interests:—

	1913.		1914.		1915.		1916.		1917.	
	8	cts.	8	cts	8	cts.	\$	ets.	\$ ets.	
Nova Scotia	3,323,	901 72					3,727,			
New Brunswick	1.653.			697 05			1,928,			
Prince Edward Island		000 00					254,9 40,190,		265,505 52 $43,051,983$ 19	
Quebec	33,002, 4,250.			$\frac{492}{077}$ $\frac{02}{76}$	$\begin{bmatrix} 38,590,7 \\ 5,197,0 \end{bmatrix}$		5,503.			
Ontario Manitoba							11, 137, 8			
Saskatchewan	5, 143,				6,886,7		7.984.			
Alberta	6.472.			700 52			10,820,			
British Columbia	5,611,	084 93	6,347,	410 20	6,431,1	91 - 52				
Yukon			170,	179 78	170,1	79 78	170,	179 78	170, 179 78	
Total	69,214,	971 45	80,258,	356 00	83,792.5	83 06	88,520,	020 22	94, 469, 533 80	

The foregoing cost would be equal to \$156.37 per telephone in service in 1917

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EARNINGS AND OPERATING EXPENSES.

Comparison of 1916 and 1917 :—

Province.	191	6.	1917.			
I TOVINCE.	Earnings.	Operating Expenses.	Earnings.	Operating Expenses.		
	\$ cts.	\$ ets.	\$ ets.	\$ ets.		
Nova Scotia	756,165 88	509,601 25	802,757 93	587,486-74		
New Brunswick	517,831 34	294,831 90		359,801 63		
Prince Edward Island	81,501 39	50,332 34		53,017 95		
QuebecOntario	10,344,231 76	5,811,941 46		6,388,636 11		
Ontario	$1,042,729 \ 36$	681,725 92		723,386 61		
Manitoba	1,903,446 54	1,353,984,46		1.459,558-52		
Saskatchewan	1,108,867 60	648,952 90		711,829 37		
Alberta	1.292,034 79	683,437 01	1,358,843 91	669,005 07		
British Columbia	1,511,388 84	-1,092,935,70	1,544,922 45	1,126,264 15		
Yukon	36,070 35	19,457 92	32,363 29	16,439 67		
Total.	18, 594, 267 85	11,147,200 86	20, 122, 281 62	12.095.425.83		

The difference between gross earnings and operating expenses was \$8,026,-855.80, as compared with \$7,447,066.99 in 1916. This difference does not, however, represent true net earnings.

INCOME ACCOUNT.

From units capitalized at \$25,000 and over :—

Gross revenue		
Net operating revenue		\$6,105,744 31
Additions: Outside operations	\$ 27,877 30 18,198 80 309,469 50 106,870 49	462,416 09
Gross corporate income.	· · · · · · · · · · · · · · · · · · ·	\$ 6,568,160 40
Deductions: Taxes Interest on bonds Other deductions	\$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1,392,227 91
Net corporate income	L	\$ 5,175,932 49
Disposal of net income: Dividends—common " preferred Sinking funds Reserves	\$ 1,774,430 65 122,119 38 2,397,664 78 276,719 06	4,570,933-87
Balance		\$ 604,998 62

EQUIPMENT.

Classification of telephones by provinces:—

Province.	Central energy.	Magneto.	Total 1917.	Total 1916.	Total 1915.	Total 1914.
Nova Seotia New Brunswick Prince Edward Island Quebec Ontario Manitoba Saskatchewan	16, 102 11, 353 1, 360 72, 622 149, 854 31, 110 11, 383	9,304 1,127 30,695 123,643	25, 264 20, 657 2, 487 103, 317 273, 497 49, 847 43, 657	23,249 18,775 2,351 96,640 248,980 47,903 30,220	21, 225 17, 517 2, 244 92, 492 239, 607 47, 279 29, 892	20,239 $16,473$ $1,574$ $91,047$ $232,456$ $49,146$ $26,023$
Alberta British Columbia Yukon.	20,267 $38,719$	17,395 8,729 300	37, 662 47, 448 300 604, 136	35,026 44,922 355 548,421	36,749 45,730 355 533,090	$ \begin{array}{r} 20,026 \\ 37,118 \\ 46,713 \\ 355 \\ \hline 521,144 \end{array} $

Wire mileage by classes :—

Classes of Wire.		1916.			1917.	
Classes of wire.	Urban.	Rural.	Total.	Urban.	Rural.	Total.
	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.
Galvanized	29,419 12	406,620 67	436,039 79	32,940 95	434,174 72	467,115 6
opper	17,836 71	63,379 14	81,215 85	19,409 69	80,663 90	100.073 5
'able—overhead	395,042 27	4,013 50	399,055 77	413,670 52	5,663 92	419,334 4
underground	682,117-51	145 75	682,263 26	719,553 30	147 75	719,701 0
submarine	949 05	1,040 14	1,989 19	953 80	1.024 25	1,988 0
Total	1,125,364-66	475, 199 20	1,600,563 86	1,186,528 26	521,677 54	1,708,202 8

Wire mileage by provinces:—

Province.		1916.			1917.	
Frovince.	Urban.	Rural.	Total.	Urban.	Rural.	Total.
Nova Scotia New Brunswick Prince Edward Island Quebec Ontario Manitoba Saskatchewan Alberta British Columbia	Miles. 26,869 00 19,330 22 1,304 14 245,921 90 423,054 95 109,688 00 61,330 00 102,905 85 134,728 50 232 10	Miles. 16,064 75 9,922 44 2,357 20 59,693 30 180,516 55 64,652 75 85,312 75 45,070 46 11,197 00 367 00	147,976 31	Miles. 29,639 00 20,090 93 1,338 24 252,118 50 453,039 42 110,835 00 75,000 00 104,270 00 139,965 17 232 00	59,791 95 193,545 27 65,673 50 111,115 00	Miles. 46,636 7. 31,148 66 3,753 2. 311,910 4. 646,584 61 176,508 56 186,115 06 152,877 56 152,069 06
Total	1,125,364 66	475, 199 20	1,600,563 86	1,186,528 26	521.674 54	1,708,202 8

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EMPLOYEES.

Comparison of numbers and remuneration:—

	19	16.	191	17.
Province.	Number.	Remunera- tion.	Number.	Remunera- tion.
		ş ets.		\$ cts.
Nova Scotia	808	277,886 35	914	325,396 02
New Brunswick	531	176,738 00	508	219,585 70
Prince Edward Island	89		90	22,341.56
Quebee		1,780,005,19		2,103,876 21
Ontario		3, 237, 714 23		3,739,602,74
Manitoba	1,239		1.487	
Saskatchewan	774		644	
Alberta	597		530	
British Columbia, .	913		939	
Yukon		13,009 51		9,934 00
Total	15,247	7,852,719 41	16,490	8,882,593 26

SUMMARY.

The following table will afford a concise view of facts relating to the telephone interests of Canada since statistical information was available :—

	1911.	1912.	1913.	1914.	1915.	1916.	1917.
	8	8	8	s	8	ş	s
Capitalization	40,043,982	46,276,851	59,847,005	70, 291, 884	74, 284, 991	76,920,314	79, 121, 702
Cost	34, 737, 530	56,887,799	69,214,971	80,258,356	83,792,583	88,520,020	94,469,534
Revenue	10,068,220	12,273,627	14,879,278	17,297,269	17,601,673	18,594,268	20, 122, 282
Operating Expenses	6,979,045	9,094,689	11,175,689	12,882,402	12,836,715	11, 147, 201	12,095,426
Remuneration.	915, 636	2,659,642	6,839,309	8,250,253	8,357,029	7,852,719	8,882,593
Telephone Companies	537	683	1,075	1.136	1.396	1,592	1,659
Wire Mileage	687.728	889, 572	1,092,586	1.343.090	1,452,360	1,600,564	1,708,202
Telephones	302,759	370,884	463,671	521, 144	533,090	548, 421	604,136
Employees	10,425	12,783	12,867	16,799	15,072	15,247	16,490
Persons per telephone	23.8	19.3	16.2	15.5	15.1	14.6	13.4
Persons per mile of wire	10.4	8.1	6.8	6.0	5.6	5.0	4.7

The tables on succeeding pages will afford full information relating to the various reporting units.

I have the honour to be, sir,

Your obedient servant,

J. L. PAYNE,

Comptroller of Statistics.

Table 1.—Statement of Capital, Cost. Revenue, Operating Expenses, Number of Telephones, Employees, etc.

Name of Company.	Address.	Capital	Funded	Cost	Revenue.	Long Distance	Operating	Telephones.	oer of	Rem	Remuneration.
		Y.c.k.	Debt.	and Equipment.		Receipts.	Expenses.	('entral.	entral, Magneto	No.	Amount.
Ontario.		₹ 2 8	ets.	± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ±	i.	±. €.	æ. æ				es ets
				i	-				:	?	717
"A" Line Tel. Co	Harmony	20 3		00 997			06.202		î i	1 -	00 707
Aberdeen-Plummer Tel. Co	Plummer	1,452.90	200 00	06 557.1	2. 2.7	2 : :			2 6	- :	66
Admission Tel. Asso.	Admaston Station	1,353 90		7,500 00	500	3	3		Si	113	00 07
Addison Tol Co	Addison	14,700 00	33,000 00			51		:	071	.1.	10 121
Alexander Doub That Line	Toronfo		9, 985 24	2,985 24	:2 :3	3			<u>~</u>	_	00 00!
Althornood, Ted Asso	Rodney	00 026 6		1.200 00	0.898 60	130			127	21	2 910
Althorough religions	Density	i		6 500 00			210 00		::	1	
Alba Fel. Asso	the first of the f	000 000	00 000 00	10,000	90%	163			08	::	00 22:
Allenford Tel. Co.	.Vilentord.	0000.00	00 000 07	100,000	9 611 16	21			05	÷	9,094,90
Algonia Central & H. B. Ry, Co	Sault Me Marie	10,000,00	10, 400 (0)		100.00	1100				-	200
Algoma Eastern Ry. Co	Sault Ste. Marre			50,07	900	86			11		70 001
Ahmie Tel. Co.	Chmie Harbour	25.518 08	2,400 00	15, 200	Sil	Ĉ.			2 3	1	
Alico Tol ('o	Pembroke			00 096	Z.				2		
Absorbight Co. 14d	Rosenenth	5,000,00		1,050 00					9	•	00 071
All Mich Edit Control of the Control	LI constraint la			6.13 76	90 98		80 00		<u>2</u>	_	
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Amaran(h Tel. Asso.	Creame valley	2, 100 00	000 000	00 000	11:		00 00		9	9	000
Ansonia & Thessalon Tel. Co	Bruce Ames	00 000		00 000 0			000 000		3	17	
Apsley Tel. Co	Apsley	2,290 00		00 000.			1000		12	1-	
Ardfrea Tel. Asso.	Orillia	1,800 00			765	14 74	000				
Armstrong Tel. Co.	Parlton	0000	-,500 00	745 50	346		21	:	<u>.</u> ;	-	00 00
Vern No 1 Tel Co	Tara			3, 150 00	0X.0		00 087	1	Q (_	
Advanced Tel Arcton	Correctown			125 00	90 SG		98 OO	:	=		
Ashgrove 1ct. Distriction	Acre	00 000 9		8, 275, 57	2.341	:	2,048 00	:	155	21	3:14 50
AVE LCI. CO.	Andrea	650 00		0.00		200	3.17 61		33	31	
AVIOR TEL ASSO	Montron							*1:13,842	(7, 416)	6, 113	,350,000 00
"Bell left to fied	Monuca			00 006			95 00	_	or:		
	Menards Tandang	00 020		00 020	19		1.18 57		66	-	5.5
Back Line Tel. Co	Melanethon			00 000	070		00 020		15	-	30 00
Balaclava Tel. Club	- Safaciava	2, 192 08		2,492 00	000		00 000		1 2	-	00 08.2.
Balderson Tel. Asso	Balderson			4,500 00	010				3 6	-	20 25
Balsam Hill Tel. Co.	Renfrew	00 pts		1,400 00	3	2	7 017		9 5	- 3	00 20
Barrio-Angus Tel Line	Angus	3,100 00		3,700 00	200				95.	11	00 021
Rappio Le Trol Co	Barrie Island	520 00		850 00	7.5		20 00	1	95	=	55 05 05
Demost W.J. Area	Port Rowin	00 003		100 001	18 00		18 00		9	:	
Description of District Collection	Humilton	00 000 0		19, 626, 30	2.945 80	2 186	2,067 40	:	28		S 555
Darron & Dimprook 191, Co., Ind.	W L I.	9		9	٠		00 G		~		:
Seaver Lane,	WOOdving		01 000 00	930 50	2020				397	0.1	1.100 00
Beaver Valley Tel. System	Farmount		20 050,15	11,000	1,000		, c		10	5	1.350 00
Beatty Tel. Co	Carden Hill				6 1				1	: :	117 33
Beckwith & Montague Tel. Co	Franktown	3,000 00		7,007	1,4/1	:	127		1000	-	300.0
Beeton Tel. Co	Beeton	11,270 00		41,270.00	0,000 40			1	COO	7	2,000 11
		1 410 00		1 400 000	1000			_			

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15,700 00 650 00 650 00 13,600 00 13,500 00 13,913 95 13,913 83	
200 000 000 000 000 000 000 000 000 000	
888 888 888 888 888 888 888 888 888 88	Beaverton.

*Figures relate to Ontario only.

‡. Automatic.

Table 1.—Statement of Capital, Cost, Revenue, Operating Expenses, Number of Telephones, Employees, etc.—Continued.

\$ cts. \$	\$ C(S. 88) \$ C(S. 88)	Central_Magneto No. 177 8 8 109 109 147 147 147 147 100 135 526 526 526 526 526 526 526 526 526 52	No. Amount. \$ cts. \$ cts. \$ 75 00 00 00 00 00 00 00 00 00 00 00 00 00
Wheatley \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. Wheatley 5,640 00 5,640 00 1,519 90 36,50 36,50 Chaltsworth 1,880 00 35,640 00 1,519 90 36,50 36,50 Chaltsmyord 1,880 00 35,600 00 1,375 00 36,50 36,50 Chaltmyton 1,622 27 3,500 00 1,375 00 36,50 36,50 Cobali 1,622 27 1,699 14 2,90 55 36,50 36,50 Cobali 1,622 27 1,699 14 3,90 36,50 36,50 36,50 Cobali 1,622 27 1,699 43 1,144 00 18,00 36,00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1777 8 8 10 10 2 2 4 4 3 3 5 5 5 3 3 5 5 5 5 5 5 5 5 5 5 5	\$ 2,191 2,191 3,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000
Wheatley Challia Challia Challia Challia Challia Challia Challeadhan Challia Challeadhan Challia Challeadhan Chall	1, 478 56 8.41 8.42 1, 20 1, 20 1, 20 1, 20 1, 20 1, 20 1, 20 8.60 8.60 8.60 8.60 8.60 8.60 8.60 8.6	177 8 8 10 100 100 100 100 100 100 100	8 375 360 1,000 1,000 2,191 2,191 3,000 460 460 170 70 70 70 70 70 70 70 70 70 70 70 70 7
Carlina	2, 191 1, 201 1, 201 1, 001 1,	8 8 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	37.8 36.0 1,000 1,000 2,191 2,191 2,191 3,000 1,000 600 600
Chalsavorth. 5,640 00 5,640 00 1,375 00 360 50 Chalsavorth. 1,880 00 35,600 00 8,645 20 657 38 Southampton 1,622 27 1,622 27 279 46 657 38 Coolfall 1,622 27 1,622 27 279 46 657 38 Coolfall 1,622 27 1,622 27 279 46 657 38 Coolfall 1,622 27 1,622 27 279 46 657 38 Coolfall 1,622 27 1,620 00 1,907 14 2965 55 295 65 50 Coolfall 1,620 00 1,907 55 65 00 Colfavater. 2,760 00 1,880 00 2,150 00 1,007 55 65 00 Colfavater. 3,760 00 7,700 00 7,700 00 1,000 00 239 00 Colfavater. 3,760 00 7,700 00 1,000 00 239 00 Colfavater. 3,760 00 560 00 1,000 00 239 00 Colfavater. 3,760 00 560 00 1,000 00 239 00 Colfavater. 3,760 00 560 00 1,000 00 239 00 Colfavater. 3,760 00 2,150 00 1,000 00 Colfavater. 3,760 00 1,000 00 1,000 00 239 00 Colfavater. 3,760 00 1,000 00 1,000 00 239 00 Colfavater. 3,760 00 1,000 00 1,000 00 2,170 00 Colfavater. 3,760 00 1,00	2, 191 2, 191 2, 191 1, 225 1, 205 1, 601 2, 205 2,	109 5555 24. 5557 100 1147 1100 1100 1100 1100 1100 1100	3.55 3.65 3.65 3.65 600 600
C'hellmsford 1, 880 00 32,240 00 8, 634 50 360 50 Southlampton 1, 622 27 1, 622 27 274 46 657 38 Southlampton 1, 622 27 274 46 657 38 Coball 1, 622 27 274 46 657 38 Coball 1, 622 27 274 46 657 38 Coball 1, 622 27 274 46 657 38 Goldwaren 1, 600 00 1, 007 55 65 00 Coldwaren 3, 760 00 7, 700 00 1, 144 00 108 00 Coldwaren 3, 760 00 7, 700 00 1, 000 00 300 00 Calculater 3, 760 00 7, 700 00 650 00 300 00 Calculater 3, 760 00 7, 700 00 650 00 3, 34 00 Calculater 3, 760 00 560 00 3, 400 00 2, 700 00 Cardova 3, 600 00 3, 600 00 2, 700 00 3, 600 00 Castleton 1, 650 00 1, 65 00 2, 50 00 Castleton 1, 65 00 1, 100 00 2, 50	6,687 6,687 1,230 1,100 1,100 1,235 6,687 1,230 1,243	25.55 25.66 25.67 25.67 25.67 25.67 25.67 25.67 25.67 25.67 26.67	1, 360 1, 900 1, 900 2, 191 3, 191 3, 073 3,
Cybellemham. 1,622 27 1,622 27 274 25 26 25 35 <td>5,067 2,191 1,190 1,001</td> <td>2555 254 1066 254 107 108 108 108 109 109 109 109 109 109 109</td> <td>1,000 2,190 2,191 1,191 1,000 3,073 3,073 1,073</td>	5,067 2,191 1,190 1,001	2555 254 1066 254 107 108 108 108 109 109 109 109 109 109 109	1,000 2,190 2,191 1,191 1,000 3,073 3,073 1,073
Southampton 1, 622, 27 1, 622, 27 1, 622, 27 279, 46 295, 65 66 66	2, 129 1, 191 1, 190 1, 190 1, 200 860 860 6, 670 6, 687 1, 243	24. 100. 135. 100. 100. 100. 100. 100. 100. 100. 10	2, 151 2, 191 2, 191 330 469 469 469 469 460 70 70 70 70 70 70 70 70 70 70 70 70 70
Cobalt 15,000 00 16,997 14 2,905 55 295 05 Goderich 8,000 00 8,000 01 1,007 55 65 00 Goderich 8,000 00 15,199 43 1,144 00 108 00 Coldwater 3,760 00 7,700 00 7,700 00 7,700 00 250 00 Coldwater 3,760 00 7,700 00 7,700 00 7,000 00 250 00 Coldwater 3,760 00 7,700 00 7,000 00 7,000 00 250 00 Calchwater 3,760 00 7,700 00 7,000 00 7,000 00 250 00 Calchwater 2,700 00 560 00 7,00 00 50 00 250 00 Calchwater 2,700 00 560 00 7,00 00 250 00 650 00 Carleton 3,800 00 2,700 00 560 00 2,700 00 560 00 2,700 00 250 00 Carleton 1,650 00 1,650 00 2,700 00 2,700 00 2,600 00 2,700 00 2,700 00 2,700 00 2,700 00 2,700 00 2,700 00 2,600 00	6, 687 1, 235 1, 001 1,	106 292 147 292 292 135 526 10 10 19 19 19 19 19	2, 191 390 469 460 707 3, 073 3, 073 50 600
Cool Hill 8,000 00 8,000 00 1,386 00 65 00 Essex 11,892 00 15,199 43 1,144 00 120 00 Cold stream 7,700 00 15,199 43 1,144 00 120 00 Cold water 3,760 00 7,700 00 760 00 250 00 Cold water 3,760 00 7,700 00 760 00 250 00 Cordova Mines 500 00 560 00 60 00 60 00 Larratt 2,700 00 30,000 00 2,700 00 2,700 00 Cardition 3,800 00 30,000 00 2,700 00 2,500 00 Cardition 3,800 00 3,600 00 5,700 00 2,500 00 Cablen 1,054 00 1,650 00 5,700 00 2,500 00 Cablen 1,054 00 1,4465 00 1,83 36 4,44 Desboro 6,000 00 1,4465 00 1,83 30 6,84 44 Desboro 1,200 00 1,4465 00 1,43 30 1,740 Woodstock 770 00 2,72 00 1,447 00	1, 225 1, 601 1, 601 860 860 860 670 6, 687 1, 243	7.5 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.	390 460 460 707 3,073 3,073 70 600
Goderich 8,000 00 8,000 00 1,007 55 65 00 Essex Coldwater 1,892 00 15,800 00 21,80 00 100 00 Coldwater 3,760 00 7,700 00 7,700 00 7,00 00 230 00 Coldwater 3,760 00 7,700 00 7,00 00 1,000 00 230 00 Cordova Mines 500 00 560 00 50 00 20 00 230 00 Cardelon 3,700 00 560 00 3,000 00 50 00 20 00 Cardelon 3,000 00 30,000 00 50 00 20 00 25 00 Cardelon 3,000 00 560 00 2,170 00 25 00 27 00 Cardelon 3,000 00 30,000 00 30,000 00 2,170 00 25 00 Carleton 3,000 00 30,000 00 3,500 00 2,100 00 25 00 Presiden 1,054 00 1,44,65 00 1,65 00 3,500 00 25 00 Camperdow 6,000 00 1,44,65 00 1,487 06 30 00 Campedow	1,001 720 860 860 800 670 6,687 50 530 1,243	147 147 190 100 100 135 100 100 190 190 190	390 469 469 460 707 3,073 70 70 70
Coldwater 3, 760 00 7, 700 00 2, 150 00 00 120 00 Coldwater 3, 760 00 7, 700 00 120 00 Coldwater 3, 760 00 7, 700 00 120 00 Coldwater 3, 760 00 7, 700 00 120 00 Coldwater 3, 760 00 560 00 4, 908 83 8, 374 91 106 07 Cordova Mines 5, 700 00 560 00 560 00 5, 100 00 Coldwater 5, 700 00 560 00 5, 100 00 Coldwater 5, 800 00 5, 100 00 Coldwater 6, 800 00 5, 100 00 Coldwater 6, 800 00 5, 100 00 Coldwater 7, 800 00 Coldwater 8, 800	720 860 860 6,687 50 50 300 1,243	292 292 100 133 20 20 20 20 20 20 20 20 20 20 20 20 20	469 460 460 707 3,073 70 70 600
Coldwater 3,760 00 7,700 00 7,700 00 120 00 Coldwater 3,760 00 7,700 00 760 00 230 00 Condova Mines 500 00 45,986 83 8,374 91 106 07 Cordova Mines 500 00 560 00 600 00 600 00 Larratt 2,700 00 30,000 00 2,700 00 2,500 00 Credition 3,800 00 3,600 00 5,700 00 2,700 00 Credition 3,800 00 3,600 00 5,700 00 2,500 00 Parrie 3,800 00 1,650 00 650 00 2,000 00 Colden 1,654 00 1,654 00 1,034 00 2,100 00 2,30 00 Camperdova 6,000 00 14,465 00 1,83 30 1,70 00 2,10 00 Camperdova 6,000 00 14,465 00 1,83 30 1,74 00 2,00 00 Camperdova 13,200 00 1,4465 00 1,487 06 2,00 00 2,17 40 Woodstock 770 00 1,487 06 1,487 06 2,10 10 2,10 10 <td>860 800 800 670 6,687 50 300 1,243</td> <td>254 1300 1300 1300 1500 190 190 190 190 190</td> <td>460 707 3, 073 3, 073 70 600</td>	860 800 800 670 6,687 50 300 1,243	254 1300 1300 1300 1500 190 190 190 190 190	460 707 3, 073 3, 073 70 600
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Conn 3,760 6,390 6,400 100 259 90 Cordova Mines 34,166 25 3,900 00 45,986 83 8,374 90 00 500 00 50 00 60 00 00 106 07 00 </td <td>6,687 50 50 300 300 1,243</td> <td>135 526 526 10 190 8 8 8 8</td> <td>3, 073 3, 073 70 600</td>	6,687 50 50 300 300 1,243	135 526 526 10 190 8 8 8 8	3, 073 3, 073 70 600
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Table 1.—Statement of Capital, Cost, Revenue, Operating Expenses, Number of Telephones, Employees, etc.—Continued.

Name of Company.	Address.	Capital	Funded	Property	Revenue.	Long Distance	Operating	Number of Telephones.	r of nes.	Emple Rema	Employees and Remaneration.
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Bartley Tel. Co.	Hartley								51	=	2 00
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Herie Tel. Line	St. Clements	2,130 00		2,130 00	220	20 00			17	-	
Herrington Tel. System	Napance	1,300 00		1,300 00				-	?}	_	25 00
Highland Tel. Co	Creemore	2,500 00		3,500 00	780	15 00			558	_	
Hinton & Joeelyn Tel. Co	Carterfon			1,000 00	19 111		00 09		15	:	
Hoath Head and Grey Tel. Co	Owen Sound	1,485 00			:	00 091	99	:	??	:	
Hope Lumber Co.'s Line	Dean Lake	2,000 00							: : :	:	
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Hoover Tel. Co.	Nanticoke		:			:		:	ಣ	:	
lorton & McNab Tel, Asso	Braeside	2,500 00	2,500 00	2,500 00	2,256 91	535 95	2,756 91	:	117	io:	1,400 00
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Port Cunnington Ripley Huntsville Pembroke	Ingersoll.	Innerkip	Lefroy	Woodville	Owen Sound	Cannington	Jannetsville	Desburats	North Drook	Kenora	McCool	Forrestors Falls	Chatsworth	Ning.	Crafton	New Islies	Sault Ste. Marie	Sparrow Lake.	Massey Mathon	Baysville	Rountonton	Bar River	Nombra	London	Almonte	Carleton Place	Lansdowne	Poland	I on Vollow	Seeley's Bay	North Apprists	Leith	Lepasse	Napance	Gratton	Linwood	Little Britain	Long Lake	Holyrood	rankdale	Lyndmurst
Huntsville & Lake of Bays Tel. Co Huron & Kinloss Mun. Tel. Co. Huntsville & Portage Tel. Co. Indian River Tel. Co.	5 Ingersoll Tel. Co., Ltd.	polynomia Tel. Co	Innisfil Tel. Asso.	Ivy-Thornton Tel ('o. 44d)	Jackson Tel, Co., Ltd.	Johnson & Brandon Tel. Co.	Johnston Private Line.	Johnson Mun. Tel. System.	Kanadar & Northern 1ef. Co.	Kenora Tel. System	Kerns Mun. Tel. System	Kerr Tel. Asso	Kerward Tel. Co	King Tel. Co., Ltd.	Kingston Road Tel. Asso	Kitley Tel. Co., Ltd.	Korah Central Tel. Asso.	Koshee-Spartow Lake Tel. Line.	The Clockle Let. Club	Lake of bays & Haliburton 1 et. (o).	Lake Simone Tel Co	Laird Mun. Tel. System		Lambeth Tel. Co	Lanark & Carleton Tel. Co	Lanark & Ramsay Tel. Co	Lansdowne Tel. Co., Ltd.	Layant-Dalhousie 1 et. Asso	La Valler Pol Co	Leeds & Frontenae Tel. Co. Ltd	Leeds & Grenville Tel. Co.	Leith & Annan Tel. Club.	Lepasse Tel. Co.	Lennox Tel. Co.	Lighting Tel. Asso	Linwood Tel. Co	Little Britain Tel. Union	Long Lake Tel. Co.	Lucknow & Minioss 1 el. Co.	Lyons Frivate Line	Lyndhillst 1el. Co

Table 1.—Statement of Capital, Cost. Revenue, Operating Expenses, Number of Telephones, Employees, etc.—Continued.

Name of Company.	Address.	Capital	Funded	Cost Property	Revenue.	Long Distance Pensipta	Long Distance Operating		Number of Telephones,	Empl	Employees and Remuneration.
				Equipment.		Ive ceptes.	radariscs.	Central.	Central, Magneto	Z.	Amount.
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Lyndock, Curholme & Walsingham		i									
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Maderley Tel, Co	Maberley	00 000 00 000 00 000			1.		90 05		S 5	- :	25.00
Maidstone Mun. Tel. System	Woodslee	1, 500 00	15, 071, 89	25, 446, 43	200	90	17 107 1		398	2 57	
Malahide & Bayham Tel. Asso.	Straffordville	7,560,00		8,930 00	0.37		2, 117, 95		3	: 147	
Mallorytown Tel. ('o.	Mallorytown	11,800 00	2,000 00	18,481 22			3,289 57		5	: ::	
Manitoulin & North Shore Tel. Co	Little Current	13,000 00		17,000 00	2,200		00 000		ŝi	ı:	
Manitoulin Tel. Co	Mindemoya	6, 195 00		7,148 00	2,406				200	÷	1,021.82
Manilla Northern Tel. Co	Oakwood		:	3,000 00					02		
Manse Grove Tel. Co.	Lorneville		:						- :	_	55.55
Maple Gove Let. Co.	Shallow Lake	200		96 915	<u> </u>				2 6		E 8
Maple Letter 191, CO.	Comes				<u> </u>		00 01		200	_	0.00
Maple Shade Tel. Co	Woodstock			00 00%	: 8 : 13 : 13		2 23		- 2		
Mariposa Tel. Union.	Oakwood				906		850 00		170	21	200 00
Marmion Tel. Co	Marmion	82 299		663	:		:		50		
Martintown Tel. Co	Martintown	2,250 00	1,500 00	8,500		121 00	627 75		9-1	÷ι	400 75
Mersen Tel. Co.	Learnington	15,030 00		-1	3,770,			:	S.	21	1, 150 00
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Massey Scarlon 1 ct. (o., Ltd	Columbia Mills.	100 000		00 000 0	÷ = =			:		- 1	88
Medonte Mun. Tel. System	Moonstone		15,000 00		- :		852 80		Î,	-	550 83
Melanethon Tel, Asso.	Corbetton	2,700 00			:3				122	_	25 00
Metealfe Tel. Co.	Metcalfe	18,900 00	20,000 00		.500	125 00	2,159 00		122	~	1, 125 00
Millard Tel. Line	Coldwater				198				_	-	
Mills Tel. Co	Thunesford				_	52 73			10.5	::	00 009
Minesing Tel. Asso.	Minesing	3,850 00		3,850 00	90+			-	=	-	
Mink Lake Tel. Co	Eganville	00 00		3	Ĉ.		200	1	Ξį	_	00 01
Minto Tel. Co	Harristown	3,350 00		6,740 00		3 3 3 3			121	=-	100 00
Mississippi Tel. Co., Ltd.	Lanark	2,600 00			99,				Ě	÷	00 000
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C'rediton Bridgen Brooklin	Arkona 14,000 00 Millbank 3,980 00 12,000	Module Minere, a, 640 00 4, 600	Mount Forest. 6,870 Sault Ste. Marie	Moscow Lake		Martin Siding	Uffington	Alport	Orillia	Echo Bav	Trenton. 1,740 00	Merlin Staffa	Seaforth 28,975	Arnprior 4,065 00	Kingsville	New Dundee 4,300	Rodney. 2,600 Lordan Station 16 995	Thamesford 3,695	Sutton West.	Cilencantn 25,998 65	Tilsonburg 6, 115 00	Norland 230	1. Kentrew	Lovering	Northeot 1,200 00	Ida 450	Stratford	Dobbington	_		Marmora Korsh	Renfrew 1,950	Wingham 20,000 00 2	Beachburg 1,680
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C'rediton Bridgen Brooklin	Arkona 14,000 00	Module Minere, a, 640 00 4, 600	Mount Forest. 6,870 Sault Ste. Marie				Uffington	Alport	Orillia	Echo Bav	Trenton. 1,740 00	Merlin Staffa	Seaforth 28,975	Arnprior 4,065 00	Kingsville	New Dundee 4,300	Rodney. 2,600 Lordan Station 16 995	Thamesford 3,695	Sutton West.	Cilencantn 25,998 65	Tilsonburg 6, 115 00	Norland 230		Lovering	Northeot 1,200 00	Ida 450	Stratford	Dobbington	_		Marmora Korsh	Renfrew 1,950	Wingham 20,000 00 2	Beachburg 1,680
C'rediton Bridgen Brooklin	Arkona 14,000 00	Module Minere, a, 640 00 4, 600	Mount Forest. 6,870 Sault Ste. Marie				Uffington	Alport	Orillia	Echo Bav	Trenton. 1,740 00	Merlin Staffa	Seaforth 28,975	Arnprior 4,065 00	Kingsville	New Dundee 4,300	Rodney. 2,600 Lordan Station 16 995	Thamesford 3,695	Sutton West.	Cilencantn 25,998 65 Waterford 43,300 00	Tilsonburg 6, 115 00	Norland 230		Lovering	Northeot 1,200 00	Ida 450	Stratford	Dobbington	_		Marmora Korsh	Renfrew 1,950	Wingham 20,000 00 2	Beachburg 1,680
C'rediton Bridgen Brooklin	Arkona 14,000 00	Module Minere, a, 640 00 4, 600	Mount Forest. 6,870 Sault Ste. Marie				Uffington	Alport	Orillia	Echo Bav	Trenton. 1,740 00	Merlin Staffa	Seaforth 28,975	Arnprior 4,065 00	Kingsville	New Dundee 4,300	Rodney. 2,600 Lordan Station 16 995	Thamesford 3,695	Sutton West.	Cilencantn 25,998 65 Waterford 43,300 00	Tilsonburg 6, 115 00	Norland 230		Lovering	Northeot 1,200 00	Ida 450	Stratford	Dobbington	_		Marmora Korsh	Renfrew 1,950	Wingham 20,000 00 2	Beachburg 1,680
C'rediton Bridgen Brooklin	Arkona 14,000 00	Module Minere, a, 640 00 4, 600	Mount Forest. 6,870 Sault Ste. Marie				Uffington	Alport	Orillia	Echo Bav	Trenton. 1,740 00	Merlin Staffa	Seaforth 28,975	Arnprior 4,065 00	Kingsville	New Dundee 4,300	Rodney. 2,600 Lordan Station 16 995	Thamesford 3,695	Sutton West.	Cilencantn 25,998 65 Waterford 43,300 00	Tilsonburg 6, 115 00	Norland 230		Lovering	Northeot 1,200 00	Ida 450	Stratford	Dobbington	_		Marmora Korsh	Renfrew 1,950	Wingham 20,000 00 2	Beachburg 1,680
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Table 1.—Statement of Capital, Cost, Revenue, Operating Expenses, Number of Telephones, Employees, etc.—Continued.

Name of Company.	Address.	Capital Stock.	Funded Debt.	Property and	Revenue.	Long Distance Becciots	Operating Expenses		Number of Felephones.	Empl	Employees and Remuneration.
			The chart was to	Equipment.				Central	Central. Magneto	S.	Amount.
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Oldfields Tel. Line	Dundalk	325 00			38		9		2 2	-	
Oliver Mun. Tel. Co	Murillo	6,821.90							186	: = :	
Omemee Tel. Co	Omemee	1,355 00					379 71		Š	: -	88
Oro Tel. Co., Ltd	Oro Station	6,575 00				109 00			5. 5. 5.		
Orono Tel, Co	Orono	7,230 00		12,000 00			917 63		ic Sci	• •	
Orr-Stienhoff Tel. Asso.	Chesley			108 81	_				20	1	
Osceola Tel. Asso	Cobden	1,000,00		1,000 00	58 00			:	15	-	9
sprey Mun. Tel. System	Feversham.		12,500 00	12,500 00		3H0 00			182	31	0 000
Olonabee Man. Tel. Asso.	Keene.		25,000 00	25,000 00	-				285	r::	1,012 4
He Ferry Koad Tel. Co	Perth	5,500 00							155	_	S. 1.2
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Bruce Mines Pontypool Clarke Sonya Cobalt Cobalt Port Stanley Por	West Hill. 8, 200 00 Schomberg. 22, 225 00 5, 000 Schright. 3, 850 00 Perth. 1, 100 00 Newburgh. 2, 850 00 Newburgh. 2, 850 00 Kingsville. 2, 850 00
Bruce Mines Pontypool Clarke Sonya Cobalt Cobalt Port Stanley Por	West Hill. 8, 200 00 Schomberg. 22, 225 00 5, 000 Schright. 3, 850 00 Perth. 1, 100 00 Newburgh. 2, 850 00 Newburgh. 2, 850 00 Kingsville. 2, 850 00
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Bruee Mines 974 90 Pontypool 970 00 Clarke 9070 00 Sonya 30,000 00 Port Arthur 30,000 00 Port Rowan 610 00 Port Rowan 610 00 Princeton 337,500 Princeton 20,000 00 Sault Ste. Marie 20,000 00 Queens Line 6,000 00 Cobden 10 Kingston 23,875 00 Rainy River 23,875 00 Rainy River 23,875 00 Ravenscliffe 2,350 00 Noabanee 590 00 Napanee 590 00 Silverwarder 4,000 00 Silverwarder 4,000 00 Shelburne 1,585 55 Shelburne 1,585 56 Shelburne 1,500 00 Shelburne 1,500 00 Shelburne 1,500 00 Shantringham 1,500 00 Shantroek 1,500 00 Shantroek 1,500 00 Sha	West Hill. 8, 200 00 Schomberg. 22, 225 00 5, 000 Schright. 3, 850 00 Perth. 1, 100 00 Newburgh. 2, 850 00 Newburgh. 2, 850 00 Kingsville. 2, 850 00

Table 1.—Statement of Capital, Cost, Revenue, Operating Expenses, Number of Telephones, Employees, etc.—Continued.

Name of Company.	Address.	Capital	Funded	Cost Property	Revenue.	Long Distance	Operating	Number of Telephones.	r of nes.	Empl Remu	Employees and Remuneration.
		Nock.	Debt.	and Equipment.		Meccupits.	rypenses.	Central, Magneto	agneto	No.	Amount.
Ontario—Con.		ci s	s ets.	s cts	ets.	s cts	\$ cts.				& € 8.
Shaniah Tol Com	Port Arthur		14,000 00	15,349 26	2.656 05		1,385 22		-06	÷ι	8+1
Silcote Tel. (Jub.	Annan	2,084 :::				15.85	185 66		== 2	-	01 +1
Shanrock Central Line Sidney Bell Tel. Asso.	Belleville	1,510 00			697	00 99			29.	-	96 71
Sitzer Tel. Co	Milton West				<u>6</u>		_		e i		
Slate River, Mun., Tel. System	Slate River Valley	1 785 00		4,700 00	1, 150 72 358 25	.02 +	350 75		92	2122	88
Sonva Tel. Co	('resswell.			00 049	-		_		7.	का	
South Brant Tel. Co.	Walkerton	1,000 00		1,100	227 18		ì		215	÷1:	
South Bruce Tel. Co., Ltd.	Teeswater	24,335,00	11,000 00	19,067,00		0.00			767	:	1,542
South Croshy Tel. Co	Blein	10, 106, 00			3,850	158	1,619		385	-	
South Diagonal Tel. ('o	Owen Sound.				899		532		27	÷0 -	160 35
Southwald & Dunwich Tel. Co	Shedden.	3, 926 00				641	, 670 00 1, 670 00 1, 670 00 1, 670 00 1, 670 00 1, 670 00 1, 670 1, 670		200	- -	88
South Elderslie Tel. Asso.	Chestey			5,711,00	2 154 00		00 202		991	-	
South Leeds & Pittsburg Tel. Co	Cananoque	14,480 00	2,750 00	6,000		48 00			228		1,120
South Malahide Tel. Co	Aylmer West	13,443 00		13,443	133				7.5	:O I	2,800 00
South Plantagenet Tel. Co., Ltd	Riceville	3,200	3,000 00		2,184 00		00 000.1		70.	-	1,000,1
South McNaughton Fel. Asso.	Kentrew	200		_			3, 236, 86		. 02	7	772 00
Spev Biver Tel. Asso.	Owen Sound				T.		ú		G.		***
Springbank Tel. Co., Ltd	Fordwich	2,070 00	*		296	32 95			115	ទា	88 30
Spring Creek Tel. Co	Sauble Falls	:		390 00	90 66 66 ;		90 E		02	_	×
spring Creek Tel. Asso	Woodstock				1000	1	2 2				
Sprague Tel. ('0	Mountain View	00 001		22,000 00	7,000	B ::	96.1	:	F 67	0 0	000.7
Stormont Tel. Co.	vultsville	1,400 00			0.00 0	9	38	•	97.6	ie	
St. Johns 1cl. System	London	95			11,500			1	0.0	12	
Stratton Tel. Co.	Stratton Station	11, 17,0		_		130	657		21	-	657 00
strond Tel. Co., 1,td	Strond	7,500 00		11,175	3,235		÷i		203	9	
St. Vincent Twp. Mun. Tel. System	Menford		19,779 87	26.964	14,455	50.4	3, 135		160	ອາ	
Swale Private Line.	Wiarton	00000		88	_		200			:	
Sullivan & Bentick Tel. Co	Chesley	2,:300 00	895 00	000	3 3				= =	:	
Sunderland Tel. Co.	Sunderland	4,250,00	30	20.010	1.481	53.	171		5	5	250 00
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Sutton & N. Gwillimbury Tel. Co Tara-Keady Tel. Co. Tarbutt Mun. Tel. System. Tarentovus Tel. Co., Ltd Tay Mun. Tel. System. Temiskaming & N. Ont. Ry. Con Temiskaming Tel. Co Thamesville Tel. Co Ltd. Thanesville Tel. Co Ltd.	Thompson Private Line. Tillbury W. Mun. Tel. System. Towkline & Soventh Line. Tye & Barr Tel. System. St. Udney Tel. Co., Ltd. Union Tel. Club. Union Tel. Club. Union Tel. Club. United Tel. Co. Uptergrove Tel. Co. Uptergrove Tel. Co. Uptergrove Tel. Co. Uptergrove Tel. Co. Uptergrove Tel. Co. Uptergrove Tel. Co. Uptergrove Tel. Co. Uptergrove Tel. Co. Uptergrove Tel. Co. Uptergrove Tel. Line. Vallage Tel. Line. De. Wheathort Tel. Co. Wheath	Wiarton & Lake Charles Tel. Co. Wightman Tel. System. Windham Tel. Co. Wishon Private Line Woodbridge & Vaughan Tel. Co. Woodbridge A. Vanghan Tel. Co.

Table 1.—Statement of Capital, Cost, Revenue, Operating Expenses, Number of Telephones, Employees, etc.—Concluded.

Employees and Remuneration,	No. Amount.	\$ cts. 3 300 00 1 30 00 2 1,172 40	1 120 4 359 2 1,061 7,383 3,739,602
Number of Telephones.	Central Magneto No.	20 80 810 810	85 85 21 142 142 19,854 123,643
Long Distance Operating		\$ cts. 370 00 185 00 1,679 38	120 00 1,066 70 278 22 1,692 64 723,386 61
Long Distance	weceipts.	# cls. 40 00 13 30 12 93	97,912 95
Revenue.		\$ ets. 340 00 260 50 2,962 59	120 00 1, 228 06 306 56 2, 481 52 1,006,113 92
Cost Property Re	and Equipment.	\$ cfs. 4,550 00 563 00 14,600 00	2, 400 00 3, 028 76 530 00 6, 900 00 5, 790, 178 21
Funded	Debt.	s ets. 600 00	91 73X,872.19
Capital	Stock.	\$ cts.	2,670 00 73,620 00 3,620 00 3,620 00
Address.		Easton's Corners	Moseow New Sarum Cobden Embro
Name of Company.		Ontario—Con. Volford Tel. Co Volftown Tel. Asso	Mroxeer fel. Co., Ltd. Yarker Tel. Co., Ltd. Zion Line Tel. Asso Zorra Tel. Asso

TABLE 2.—Statement of Wire Equipment—Urban and Rural.

SESSIONAL PAPER No. 20d

Address. van Naddress. van Naddress. van Naddress. van Naddres van Station van	Gal- Single Single Wire. Wire. Miles. Miles.	Copper Wire. Overliead. ground Miles. Miles		Miles.	Cal- Single Wire. Miles. Miles. 13 50 12 50 19 00 61 00 18 00 18 00	Single Wire.	Copper-Over-lieud. Miles.		Sub- Miles.
Pre Tel. Co Plannony Inamony Inamony Inamony Inamony Addison Addison Addison Addison Addison Addison Addison Addison Addison Addison Redney Penbroke Penbroke Antinic Harbour Antinic Harbour Penbroke Antinic Harbour Antinic		- 		iles.		Single Wire.	Over- head. Miles.		Sab-
Illarmony Pre Tel. Co Plummer Addison Addison Addison Pondroy						Miles.	Miles.	Miles.	Mile _s
Illarmony Pre Tel. Co Admission Station Addisson Addisson Addisson Coronto Rodney Pembroke Allenford Sault Ste Marie, Sault Ste Marie, Almie Harbour Pembroke Almie Harbour Pembroke Almie Harbour Rosenerth Hepworth Grand Valley O'fillia Earlton Tara, Coo Byere Apsley O'fillia Ayton Ayton	00 00 1								्रा ।
re Tel. Co Admaston Station Addisson Addisson Addisson Portorto Rodroyto Rodroyto Pembroke Nault Ste Marie Nault Ste Marie Pembroke Admire Harbour Pembroke Roseneath Hopworth Grand Valley Grand Valley Orillia Fartton Tara. Crony	00 00 n								e.
Addison Toronto Rodney Ronbroke Pembroke Nault Ste Marie Sault Ste Marie Sault Ste Marie Pembroke Pembroke Resenenth Resenenth Resenenth Resenenth Repworth Grand Valley Bruce Mines Apsley Co. Bruce Mines Apsley Apsley Grand Grand Apsley Apsley Ayren Ayren Ayren	00 00 n -								
Poronto Rodney Penbroke Penbroke Nault Ste Marie Sault Ste Marie Almic Harbour Pembroke Roseneath Hopworth Grand Valley Grand Valley Orillia Fartton Coragetown Caractor Ayre	00								ા
Rodnov Prombroke Allemford Sault Ste Marie. Sault Ste Marie. Almie Harbour Pembroke Reseneath. Hepworth Grand Valley. Grand Valley. Orillia Earlton. Tara.	00 00								्रा
Allenford Sautt Ste Marie. Sautt Ste Marie. Annie Harbour. Pembroke. Roseneath. Hopworth. Grand Valley. Apsley. Apsley. Co. Bruce Mines Apsley. Grand Callia. Fartlon. Tara. Ayr. Ayr. Ayr.	00						:		31
Ry. Co. Sault Ste Marie. Sault Ste Marie. Almire Harbour. Pembroke. Rosenerth. Hepworth. Grand Valley. Palley. Palley. Palley. Pare. Grand Valley. Palley. Ayrien. Ayr.	000								જા
Aprile Marbour Pembroke Resenenth Resenenth Repworth Grand Valley Bruce Mines Apsley Corillia Earlton Tara Georgetown Ayr.	000					186 00		•	:
Pembroke Roseneath Roseneath Hepworth Grand Valley Grand Valley Bruce Mines Orillia Earlton Tara Georgetown Ayr.	00		:	:	99 98	02 F09	:		
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*These figures relate to Ontario only.

TABLE 2.—Statement of Wire Equipment—Urban and Rural—Continued.

				Urban				_	Rural.		
Name of Company.	Address.	Gal- vanized		ido,)	Copper Wire.		Cal- vanized.		Coppe	Copper Wire.	
,		Single Wire.	Single Wire.	Over- head.	Under- ground.	Sub- marine.	Single Wire.	Single Wire.	Over- head.	Under- ground.	Sub- marine.
Ontario—Con.		Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.
Beaver Line	Woodville				:		5 00				
Beaver Valley Tel. System	Fairmoun(00 00+	75 00			
Beckwith & Montague Tel. Co.	Franktown		:				65 00				- :
Beton Tel. Co.	Beeton	:			:	•	00 008				-
Belmont Tel. Co	Havelock										:
Bellrock & Verona Tel. Co.	Verona										:
Bethany Tel. Co	Bethany						15 00		:	:	
Sether Tel. Asso Rethords Tol. Co	Dundalk						200				:
Bethesda & Stouffville Tel. Co	Stouffville	100 00		100 001			285 00		20 00		
Blanchard Private Line	Cannington	:							-		:
Blenheim & S. Kent Tel. Co., Ltd.		00 0+	90 #				00 809		-	:	
Bloch Mun. Tel. Co	Moodlofd	00 2		117 00			90 709	90 5			:
Bobeaygeon Tel. Co.	Bobeaygeon							-			
Bolton Tel. Co., Ltd.	Bolton			90 00							:
Sond Corners Fel. System	Woodstock						06 G				
Bonsfield Private Line	Milton										
Bowesville Tel. Asso	Bowesville					8	28 00				
						1	86 00		:		:
Bracebridge and Muskoka Lakes Tel. ('o.						-	250 00				:
Brigham Tol Line	Habita						00 001				:
Brighton Mun. Tel. System	Brighton										
Bromley Line Tel. Asso.	Bromley Line										
Bromley Tel. Asso	Cobden								:		:
Brookdale Tel. Co.	Napanee						00 91		:		
Brooke Mun. Tel. System.	Inwood	90		8				:	:		:
Bruce Mun. Tel. System	Tiverton		00 016	310 00			280 00	30 00			
Brussels Morris and Grey Mun. Tel. Co.	Brussels	57 00		00 27				_ :			
Burgessville Tel. Co	Woodstook	_			_		00 903				

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Burnt River Tel. Co. Byron Tel. Co. 14d	Cavan Tel. Co., Ltd	7. TE	Unic	2: 3:5		hine	annon Tel. Line		rin Te	Clavering Tel. Co	ine.	ું. આ	n - e.	in Tak		helmsford Tel. Co.	Mun	l Tel.		; ; ; ; ; ;		ار ادارا ادارا	i. Sy	onn Tel. Co., Ltd	7 To To	tt Tel	ramahe Tel. System	rediton Tel. System	rews Tel. Co.	0 2 2 3) ·/.	Delphi Tel. Asso	Derby Tel. Asso.	Dereham Tel. Co	Desboro Tel. System.	Dasmond Tol. Asso	Dogne Tel Co	Û	c.	
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TABLE 2.--Statement of Wire Equipment—Urban and Rural—Continued.

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		Sub- marine	Miles.	-												:							
	Copper Wire.	l nder- ground.	Miles.										:		:		:						8
Rural.	Coppe	Over- head.	Miles.										:		:								
		Single Wire,	Miles.								: :	2	:				:						
	Gal- vanized.	Single Wire,	Miles,	126 00 572 00	888 98"		8 s 8 s	8 S S	96 96 96 96 96 96 96 96 96 96 96 96 96 9	888 181		x 4 8 8	00 pgs	38	8.8 8.8	00 086 00 087	2 C	00 x	88	120 00	2 2 3 8		2 S
		Sub- marine.	Miles.								:									: :			:
	Copper Wire,	Under- ground.	Miles.																		1		
Urban	dido,	Over- head.	Miles.	269 00			8							į	87								
		Ningle Wire.	Miles.									:											
	Cal- vanized	Single Wire.	Miles.		90 93	90 90	2 2 3							8 -	200	:							: -
	Address.			Perth Durville	Ducton Bownanville	Markdale Grand Valley.	Thorndale. Woodville	Woodville	Laurel. Dobbington	Lorneville	Chaffey's Lock	Elizabeth Bay Cannington	Ento	Enterprise	Odessa	New Hamburg	Markdate	Douglas	Woodstock	Denfield	Antin Mills Woodstork	Richards Landing	Cameron Fenella
	Name of Company.		Ondario Con.	Dunville Consolidated Tel. Asso	Dunwich and Dutton Tel. Asso. 2. Darlington Tel. (*)	8. Crey Tel. Co. 15. Lather Tel. Co	E. Middlesex Tel. Co., Ltd E. Woodville Tel. Asso.	Eden Tel. Co	Edgar Tel. LineEdgar Tel. Asso	Eldon Union Tel. Asso.	Edmistey S. 1et. Co. Edgin-Chaffeys Lock Tel. Co	Elizabeth Bay Tel. Co Ellis Tel. Co	Smo Mun. Tel. Go	Enterprise Tel. Co.	Erie 1 et. Co., Ltd. Ernestown Tel. Co., Ltd.	Ernst Private Line	Edpingsta Main. 1 et. System Everett (fel. Co	Evergreen Tel. Co	Excelsion Tel. Asso	Palkirk Tel. Asso.	Fairview Tel. Co.	Farmers Union Tel. Co	Fencion Tel. Asso. Fencila Tel. Co., 14d

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TABLE 2.—Statement of Wire Equipment—Urban and Rural—Continued.

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	Name of Company.		Ontario-Con.	Hinton & Joselyn Tel. Co. Boath Head & Grey Tel. Co. Hope Jamber Co's Line. Hope Jamber Co's Line.	Hoover Tel. Co. Horton & McNab Tel. Asso. Houghton & Bayham Tel. Co.	Houghfoll, Baynath & Tisonburg 191 Asso	Indian River Tel. Co Ingersoll Tel. Co., Lid Ingleside Tel. Co.	Innerkip Jet. Co. Innisfil Tel. Asso. Isly Theoriton Tel. Co., Ltd. Jackson Tel. Co., Ltd.	Johnson & Brandon Tel. Co Johnston Private Line Johnston Mun. Tel. System. Kaludar & Northern Tel. C.o. Kemble-Sarawak Tel. (°o., Ltd Kenora Tel. System. Kerns Municipal Tel. System.	Nerf 16, Asso. Kerrard Tel. Co. King Tel. Co. Ltd. Kingston Road Tel. Asso. Kidey Tel. Co. Ltd. Korth Contral Tel. Asso. Koshee-Sparrow Lake Tel. Line La Cloche Tel. Club.

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Statement of Wire Equipment -Urban and Rural-Continued. TABLE 2.

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Table 2.—Statement of Wire Equipment—Urban and Rural—Continued.

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Sault Ste, Marie	Princeton & Drumbo Tel. Co	Princeton						332 00	:			
Cohemistrate Cohe	Progressive Agricultural Tel. System	Sault Ste, Marie						90 11	:	:	:	
Forrester Falls	Queens Line Tel. Asso., No. 1	Queens Line							:			:
New York New York	Cheens Line Tel. Asso. No. 3	Content Calls						88				
Kingston Kingston 1 00	Quinlan Tol. Asso	Stratford						20 00				
Rainy River 172 00 1 00 41 50 Ravenschiff. 172 00 1	Railton Tel. Line	Kingston						90 S				:
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Table 2.—Statement of Wire Equipment—Urban and Rural—Concluded.

Name of Company. Ontario—Con. Springhank Tel. Co., Ltd. Spring Creek Tel. Asso. Spring Creek Tel. Co., Ltd. Mountail Storague Tel. Co. Storague Tel. Co. Multsvill St. Johns Tel. System. St. Marys, Medina & Kirkton Tel. Co. Structon. St. Marys, Medina & Kirkton Tel. Co. Kirkton	Address.	Gal- vanized Single Wire.	Single	Coppe	Copper Wire.	_	Gal-	_			
Co	wich	<u> </u>	Single Wire				vanized.		Соррел	Copper Wire.	
Co	wich. dstock. dstock. sville. fon. fon. dan. did. dan. dan. dan. dan.			Over- head.	Under- ground.	Sub- marine.	Single Wire.	Single Wire.	Over- head.	Under- ground.	Sub- marine.
C ₀	wich. dstock. ntain View. sville. lon. tton. tton Station.	_	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.
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	tonton Station								00.1		
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Sullivan & Bentiek Tel, Co	Chesley						06 06 9				
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	hatsworth.	3 00					12 20				
	l'ara						_		:		:
Tarbutt Mun. Tel. System	MacLennan	:					15 00				
	Victoria Harbour			5 50			155 00	12 00			
	[oronto	10 00	:		:		388 00	:	1,438 00	:	:
Thamesville Tel. Co. Ltd. Tham	New Liskeard	25 25 20 25 20 25 20 25 20 20 20 20 20 20 20 20 20 20 20 20 20	2 00	530 00			245 00	10 00			
el. Co. J	lford	20 00							:	:	:
Thompson Private Line Elm Tilbury W. Min. Tel. System	Kim Tree	:	:	:			700 00		16.00		
0	Beachburg								:		*
:	Seaforth	:	:	:	:		1,120 00	:	:		:
	St. Williams										
:	Udney	:	:	:	:				:	:	:
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Urban & Bural Tel. Co. Upper Admaston Tel. Co. Valentia Central Line. Violet Hill Tel. Asso. Village Tel. Line. Verner Tel. Co. Vegra Mun. Tel. Co.	Walter Owner Programment Manager Market November Malacetown & Lake Shore Tel. Asso. Walsingham Cen. & Pt. Rowan Tel. Co. Waterloo Mun. Tel. System. Welland County Tel. Co., Ltd. West Garafraxa Tel. Co. West Garafraxa Tel. Co. Westmeath Tel. Asso.		Zorra Tel. Asso

Table 3.—Statement of Capital, Cost, Revenue, Operating Expenses, Number of Telephones, Employees, etc.

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Employees and Remuneration.	Amount.	\$ cts.	200 00	995 00	5.063 00	1,965,512 56		10 00	0 t 0 0 t	0,250 79	144 00	20 00			500 00	7,479 22			6,077 25	254 75	375 00	25 00	3,55000		00 10	00 +0	1.50			205 00				34 00	275 00	11	. 1	955 75
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Number of Telephones.	Central Magneto		160	200	1924		6	<u>.</u>	21.5	010	161	56	İ	15	06	930	-1		019	33	200	200	320	9	000	S	6		- 65	\$	-	<u>x</u>	15	rΩ	£	Ç1		.76
Num Telep	entral.					72, 629																												:				
Operating	Expenses.	s cts.	850 00	995 00	11,819 60	3, 135, 179 00	74 80	40 35	99	00 562,6	954 00	70 00		91 4-1	1,088 78		00 01			52 161	478 80	75 00		71 58		e+ 011	19.50		25 00	002 00	80 00	80 25		82 00	375 00	15		975
Long	Distance Receipts.	\$ cts.	415 00	PS Oct	6.119 00	2,887,342 00	S 50	255	100	0,079 92	00 19	20 00				3,670 35			6,268 79	30 00	22 GF	00 00	240 00							579 00							00 s	1,231 45
	Kevenue.	\$ cts.	0 845 00	583 00	12,037,00	3, 193, 482 00	01-16	40.35	99	1.5, 102 40	450 00	200 00		H 16	2,335 55	19,533 24	65 50		65 165 01	62 110 10	1,111 05	100 00	4,300 00	75 67		C) AH	19.50		75 00	800 00	80 00	80 25			375 00	15 00	38 00	2, 427, 50
Cost Property	and Equipment.	\$ cts.	11 915 78	3 027 97	58,432 00	10,664,504 00			0+1	98,225,21	5 840 00	1,500 00			7,016 48	36, 172 81	+00 00		112,883 52	7,385 71	6,904-97		_	220 00	0 1	1,450 00	400 00		1.000 00	1,500 00		298 92	750 00	800		200 00		15, 110, 50
Funded	Debt.	\$ cts.	00 008 8	100		000,000 00 11,149,000 00			00 000 00	15,000 00					10,000 00															1.500.00					1,540 00			348 28
Capital	Stock.	s c(s.	00 008 8	1 005 00	50,000 00	18,000,000 00			00 000 000	0.5, 400 00		1.000 00			4,124 00	10,000 00			65,560 00	4,085 00	4,750 00			200 00		:				00 008	750 00	398 92	750 00		1,850 00		800 00	14,766 22
Address.			Armdel	Achostos	Beanceville	Montreal	Sherbrooke	Sherbrooke,	St. Marc	l'aspeblac	East Anglis			Matane	Campbell's Bay	Sawyerville	Lachute		Murray Bay	Tingwick	Chapcau	Chafean Richer	Dunham	Clarenceville		Clarenceville	(Saroncovillo		Clarenceville	Confreeoenr	Brownsburg	Magog.	Compton	Z; 1	Courcelles	St. Pamphile	Manseau Station	Barrette
Name of Company.		Quebec.		Ashostos Tol Co	Bennee Tel. Co.		Bellevue Tel. Syndicate	Belvidere Tel. CoSherbrooke.	Blanchard Tel. Co	Branneton Paper & Pala Co	Line	ine	Canada & Gulf Terminal Ry.	Tel. Line	Campbells Bay Tel. Co	Canadian Tel. Co Sawyerville	Centreville Tel. Co Lachate.	Charlevoix & Sagnenay Tel.	Co	Chenier Tel. Co Tingwick	Chapeau Tel. Co	Chateau Richer Tel. Co Chatean Richer	Citizen's Tel. Co	Clarenceville North Tel. Co. Clarenceville	Clarenceville & Nuts Corners	Cleronomille & Welf Diles	Tel Co	Clarenceville & St. Thomas	Tel. Co.	Contrecoeur Tel. Co	Chatham Tel. Co.		Compton Mutual Tel. Co	Chounnard Tel. System	Courcelles Tel. Co	Currier Tel. System	Daigle Tel. Co	Danis Private Line Barrette

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L'Avenir Tel. Co.	I,'A	600 00 9 580 00	00 19, 996 39	. 200 50 2 250 00		005 00	-	: 0 <u>12</u>	: 9	1 005 00
La Conception Tel. Co		00	2,600	1413	199 60	265 20		02	:	
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Larocque Tel. Co	Douville	1,000 00	1,000	350 00	31 00	350 00	:	.:	:	00 00
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Lievre River Tel. Co Buckingham	Buckingham	00 004 0	30,000 00	5,078 56	2,860 56		:	155	 (
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Lotbinière & Nicolet Tel. Co. Des		5,747 00	5,747 00	1,275 00	343 80	788 30		7.7	100	253 80
Legault Private Line Ile 1 Larochelle-Dorchester Tel	He Perrot Nord	3,000 00	000	400 00			:	85		
	Ste. Germaine	6,000 00	6,000 00	$2,053\ 51$	296 05	885 34	-	96	-4	640 00

Table 3.—Statement of Capital, Cost, Revenue, Operating Expenses, Number of Teplehones, Employees, etc.—Continued.

Employees and Remuneration.	\$ cts. \$ cts. \$ 1 60 1, 550 00 1, 550 00 4, 500 00 2, 200 00 2, 200 00 3, 488 00 11, 579 00 2, 200 00 3, 488 00 11, 579 00 2, 200 00 3, 488 00 3, 488 00 3, 488 00 3, 100 00 3, 100 00 3, 100 00 3, 100 00 3, 100 00 5, 200 00 5, 200 00 5, 200 00 5, 200 00
Empl Rem No.	1 :31:21-20 : : : : : : : : : : : : : : : : : : :
Number of Telephones. Central. Magneto	2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 +
Number of Telephones. Central. Magne	
Operating Expenses.	\$ cts. 123 24 45 00 123 24 45 00 125 55 51 13 15 15 50 15 15 15 15 15 50 15 15 15 15 15 15 15 15 15 1
Long Distance Receipts.	\$ cts. 246 75 40 00 50 15 22 15 22 15 24 00 17, 240 00 17, 240 00 17, 240 00 17, 240 00 17, 240 00 17, 240 00 17, 240 00 17, 274 22 23 90 18 109 84 21, 109 84 21, 109 84 53 96 53 96 53 96 53 96 53 96 53 96 53 96 53 96 53 96 54 00 55 97 56 97 57
Revenue.	\$ cts. \$71 26 \$71 26 \$71 26 \$71 26 \$72 26 \$73 125 \$74 27 \$78 00 \$78 00 \$78 00 \$78 00 \$78 00 \$78 00 \$78 00 \$78 00 \$78 00 \$78 00 \$78 00 \$78 00 \$78 00 \$78 00 \$78 00 \$78 00 \$78 00 \$79 00 \$79 00 \$70 0
Cost Property and Equipment.	\$ cts. 5,511 40 15,467 40 00 15,467 40 00 15,467 40 00 15,600 00 15,600 00 15,600 00 23,000 00 585,630 16 1,171 90 6,600 19 5,040 75 8,807 40 1,800 00 1,730 00 1,730 00 1,730 00 1,730 00 4,50 00 4,50 00 8,75 00 8,75 00 9,807 30 10,000 00 9,807 30 10,000 00 1,000 00
Funded Debt.	\$ cts. 49,000 00 12,537 27 150,800 00 3,600 00 8,271 00
Capital Stock.	\$ cts. 5,000 00 31,250 00 31,325 00 1,325 00 1,325 00 1,000 00 20,000 00 426,000 00 426,000 00 1,800 00 1,800 00 1,800 00 1,400 00 3,000 00 3,000 00
Address.	el. Co. Matane. Maniwaki Maniwaki Co. Maniwaki Co. Buckingham. sl. Co. Inverness Pel. Co. Kingsbury Lennoxville Sv. Monique de Nicolet Sweetsburg North Hatley. Ville St. Laurent Levis. North Ham. North Ham. North Ham. Co. Ham. North Ham. Co. Ham. North Ham. North Ham. Co. Richmond Asso. Ric
Name of Company.	Matane and Gaspe Tel. Co. Matane. Magog Tel. Asso. Maniwaki Tel. Co. Maniwaki. Manwaki Electric Tel. Co. Maniwaki. Mayo & Blauche Tel. Co. Maniwaki. Mayo & Blauche Tel. Co. Inverness. Ltd. Milby Tel. Co. Kingsbury. Ltd. Milby Tel. Co. Kingsbury. Milby Tel. Co. Kingsbury. Milby Tel. Co. Kingsbury. Milby Tel. Co. North Halbenout Royal Tel. Co. North Halbenout Royal Tel. Co. North Halbenout Royal Tel. Co. North Halbenout Note Dame de Ham Tel. Co. North Halbenout Norte Dame de Ham Tel. Co. North Ham Olivers Corners Tel. Co. Morth Ham Olivers Corners Tel. Co. Brebrooke. Passampsie Tel. Co. Brebrooke. Passampsie Tel. Co. Brebrooke. Passampsie Tel. Co. Brebrooke. Passampsie Tel. Co. Brebrooke. Passampsie Tel. Co. Brebrooke. Passampsie Tel. Co. Brebrooke. Piche Tel. Line. Piche Tel. Line. Piche Tel. Line. Piche Tel. Co. Ltd. Brebocul. Breboc

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2,369 32	235 68	30 15	120 00			25 00 20 00	42 50	240 00	25 00	106 90	425 00	125 00	6,644 92
391 19 19, 143 39 40 00 103 30	833 00 60 00 60 00 100 00		800 00 165 00	$\frac{317}{1,060}$	2,800 00 669 93	60 00 400 00 350 00	820 07 933 20	600 00 100 00 525 00		275 00	225 00 1,325 00	1, 500 00 84 00 390 00 39 70	2,735 79
$1,700 00 \\ 174,499 74 \\ 200 00 \\ 950 00$	700 00 7,300 00 800 00 4,554 47	4,000 00	4,000 00 2,400 00	3,425 00 7,000 00	3,200 00 5,937 07	2,300 00 1,200 00 1,500 00	3, 478 75 3, 500 00	$\begin{array}{c} 1,200\ 00\\ 2,500\ 00\\ 10,000\ 00 \end{array}$	6,450 00	4,000 00	1,800 00	450 00 25,000 00 210 00 900 00 1,250 00	48,871 00
144,000 00	8,400 00	4,000 00	40 00	525 00 4,000 00	$\frac{2,600}{2,479}$ 68	1,500 00	2,480 00	7,000 00	10,000 00	200 00		9,000	
1,700 00	7,700 00 7,700 00 800 00 1,614 47	3,500 00	2,400 00	2,547 00 3,000 00	2,800 00 3,590 00	500 00 1,200 00 1,500 00	00 009	1,200 00	6,800 00	3,600 00	7,000 00	8,100 00 8,100 00 1,258 28	48,916 80
St. Mathieu. Chicoutimi Norway Bay Morin Heights	South Durham Pont Chateau Stoke Centre Stratford Centre	Bedford St. Camille	St. Catherine Ste-Cecile Station	mondSt. Ephrem de Tring	Warwiek St. Evariste	St. François Xavier. Panet St. Adrien de Ham.	StornowaySte. Anne des Monts	don St. Gerard St. George East	sor. St. Henri de Mas-	ste. Helene de Chester	$\simeq \sim \infty$	caster. St. Marys. Ste. Madeline. St. Magloire. St. Marc.	Batiscan
Shawinigan Valley Tel. Line St. Mathieu. Saguenay & Quebber Tel. Co., Chroutini. Scobia Private Line. Norway Bay. Scale Tel. Line. Morin Height	S. Durham, Bethel & David- son Hill Tel. Co. South Durham. South Durham. Stoke Tel. Co. Stoke Tel. Asso. Strated Tel. Asso. Strated Tel. Co. Stratford Tel. Co. Stratford Tel. Co.		Tel. Co	St. Ephrem Tel. Co. St. Ephrem de Trin Sta-Flizaboth de Warwick St. Elizabeth de	Tei. Co. St. Evariste Tel. Co.	Brompton Tel. Co. R. François Xavier St. Fabien Tel. Co. Panet. St. Adrien de Ham Tel. Co. St. Adrien de Ham St. Albonse de Winslow Tel.	Sto. Anne des Monts Tel. Co. Ste. Anne des Monts St. Gabriel de Bean.	St. Gerard Tel. Co. St. George East Tel. Co. St. George Mindson Tel	Co. St. Henri de Mascouche Tel. St. Henri de Mas-	Ste. Helene de Chester Tel.Co. Ste. Helene de Chester Ter.	St. Julien de Wolfstown Tel. Co. St. Lue Tel. Co. Ste. Lueie Tel. Co.	St. Marys Tel. System. Ste. Madeleine Tel. Co. St. Magloire Tel. Co. St. Mare Tel. Co.	St. maurice & Champiain 1 et. CoBatisean

TABLE 3.—Statement of Capital, Cost, Revenue, Operating Expenses, Number of Telephones, Employees, etc.—Concluded.

\$\begin{array}{c} \begin{array}{c} \begi	Name of Company.	Address.	Capitat Stock	Punded Debt	Cost Property	Roxcomno	Long	Operating	Numl Telepi	Number of Telephones.	Empl	Employees and Romuneration.
1, 150 00 1, 188 00 1, 1					Equipment.	- Contract	Receipts.	rapenses.	Central.	Magneto	No.	Amount.
1,558,00												1
1,580 00 2,400 00 1,500 00	_		2,200 00		3,816 40			516 40		133	_	
1, 550 00 1, 550 00 1, 550 00 1, 560 00 1, 5	St. Ours Tel. Co., Ltd.	St. Ours.	1,558 00	:	7,000 00	2,400 00	160 00	2,000 00		150	21	1,200 00
as. Tibor on the property of t	St. Paul de Chester Tel. Co.	St. Paul de Chester.	4,500 00 1,500 00		10,000 00	1,966 1,966 1,966	00 969	00 008,1		961	ee -	00 089.
Ting 2,500 to 1,500 t	St. Philemon Tel. Co	Berthier en bas	1,050 00	:	7,000	1,909 51	993 85	915		2.5	7 0	8 8 9 8 9 8
Tring 2,000 00 (1,565 00 2,100 00 130 00 10 10 00 10 10 00 10 10 10 00 10 10	St. Romain Tel. Co	St. Romain de Wins-		·								
Checkles 2,000 00 1,510 00 1,510 00 1,510 00 1,510 00 1,510 00 1,510 00 1,510 00 1,510 00 1,500 00	St Bonni do Tinominio Tod Co	low	1,150 00	1,960 00	2, 100 00		90 01	40 00		61	ο1	40 00
Particle 12, 215 0th Particle 12, 215 0th Particle 12, 215 0th Particle 12, 215 0th Particle 12, 215 0th Particle 12, 215 0th Particle 12, 215 0th Particle 12, 215 0th Particle 12, 200 0th Particle 12, 200 0th Particle 12, 200 0th Particle 12, 200 0th Particle 12, 200 0th Particle 12, 200 0th Particle 12, 200 0th Particle 12, 200 0th Particle 12, 200 0th Particle 12, 200 0th Particle 12, 200 0th Particle 12, 200 0th Particle 12, 200 0th Particle 12, 200 0th Particle 12, 200 0th Particle 12, 200 0th Particle 2, 225 0th Particle 2, 200 0th Part	or reduited the wick terro	wick	2,000 00		3,000 00	130 00		130 00		20	¢1	130 00
Part Part	St. Sebastien d'Iberville Tel.											
Color Colo	Co	St. Sebastien.	2,520 00	:			75 00			134	00 1	
Substitution 6,000 00 5,500 00 12,000 00 1,350 00	St. Samuel and St. Clothide	St. Sabine d Ther He	12,215 00				105 45			045	21	
Yring 1,400 00 1,000 00 1,000 00 2,881 00 120 00 120 00 1,200 00 45 3 120 1 ring 1,400 00 1,200 00 2,600 00 1,500 00 1,500 00 1,6	de Horton Tel. Co.	Horton	6,000 00	5,500 00				00 009		115	_	250 00
1, 400 00 1, 200 00 2, 600 00 150 00 1	St. Samuel Tel. Co	St. Samuel Gayhurst	710 00	1,060 00		120		120 00		17	572	120 00
2, 010 00 1, 560 00 5, 619 73 175 00 167 00 167 00 116 00 11 00<	St. Victor de Tring Tel. Co	St. Victor de Tring	1,400 00	1,200 00		150				3	-	150 00
10,500 00 10,500 00 1,500 0	Co.	S. Sombie	00 010 6	1 560 00	5 619 73	00 921				112	c	
6,000 00 6,000 00 1,500 00 1,608 31,000 00 1,608 31,000 00 1,608 31,088 31,1,891,340 23 43,051,098 31,088 31,1,891,340 23 43,051,098 31,088 31,1,891,340 23 43,051,098 31,088 31,088 31,088 31,088 31,088 31,088 31,088 31,088 31,088 31,088 31,081,081,081,081,081,081,081,081,081,08	St. Wenceslas Tel. System	St. Wonceslas.	00 001	200	100 00+	135 00				5.5	1-	
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Supplies Supplies	Folls Tel. (3)	Papifin	10 500 00		10 500 00	08 30				099		
Sub (bb)	Tourist & River du Loup		2011									
Lavalute 800 00t 17 50 3 50 60 00 12 12 Vale Perkins 3.250 00 47 50 3 50 30 00 4 10	Falls Tel. Asso. No. 2	St. Paulin	800 00		800 00	120 00	30 00	150 00		2	C1	00 011
Vale Perkins 300 00 47 50 3 50 3 0 00 4 1 80 Lavaltrie 300 00 3.250 00 11,202 65 3 0 0 1,315 66 325 10<	Upper Lachute Tel. Co	Lachute	00 00s			00 0g	00 03	00 09		27	:	
Lavaltrie 300 00 300 00 65 00 25 00 70 00 10 1 80 Masham Mills 3,250 00 11,781 00 11,202 65 10,202 65 11,315 66 12,300 13,325 00 10,325 00 11,315 66 12,300 10,325 00 10,332 00 10,332 00 10,332 00 10,332 00 10,332 00 10,332 00	Line.						25.50	30 00				
Station Station 6, 800 00 6, 800 00 11, 781 00 10 1, 315 66 15 11, 315 66 15 11, 315 66 15 1200 2 325 325 324 336 11, 891, 340 23 43, 615 98, 619 26 3, 382 34 390 11, 891, 340 23 43, 615 10 12, 072 13 11, 891, 340 23 43, 615 10 10 11, 316 66 11, 315 66 11, 315 66 11, 315 66 12, 312, 312 312 312 312 312 312 312 312 31, 315 66 11, 315 66 12, 312 312 312 312 312 312 312 312 312 312			300 00				25 00	70 00		Ξ	7	00 0s
Station 5, 230 00 6, 800 00 11, 202 65 1, 914 00 2 325 Station 5, 00 00 15, 80 00 1, 381 66 6, 800 00 1, 381 65 Station 5, 00 00 12, 00 00 2, 3, 744 00 1, 185 00 1, 190 00 Station 5, 00 00 2, 00 00 1, 381 65 1, 185 00 1, 185 00 1, 185 00 1, 185 00 1, 185 00 1, 185 00 1, 185 00 1, 185 00 1, 185 00 1, 185 00 1, 185 01 1, 18	Wakefield & Masham Tel.		9		1							
Station 4, 550 00 5,000 00 15,010 00 5,000 10 6,000 00 5,	N. Co.	Masham Mulls	3,250 00	:	993	1,202 65		90 116		ž.	*	390 00
570 00 802 34 45 00 10 00 45 00 10 00 45 00 10 00 45 00 10 00 45 00 10 00 45 00 10 00 45 00 10 00 45 00 <	Warwick Tel. Co.	Warwick Station	4,536 00		2 5	1,315 66		1,355 66		00°	21	325 00
3, 744 00 12,000 00 3, 744 00 165 00 650 00 650 00 650 00 650 00 650 00 650 00 650 00 650 00 72 1 100 2, 500 00 3, 000 00 7, 777 75 2, 278 20 1, 156 00 1, 619 26 84 3 4 1, 065 2, 278 20 10, 425,983 53 11,891,340 23 43, 051,983 601,663 6712,978,743 19 6,388,636 11 72, 622 30,695 3, 988 2, 103,876	Wilson Station Tel. Co.	Lachite	570 00		2000		98 91	8 2 2	:		:	
Hill	Windsor Tel.Co.	Windsor	3,744 00	: -	74.1	165 00				7.5	-	00 001
7,550 00 3,000 0 7,777 75 2,278 20 1,156 00 1,619 26 1,619 26 1,619 30 84 3 728 19,425,983 53 11,891,340 23,43,651,983 19,8,500,663 6712,978,743 19,6,388,636 11,086 31,088,21,103,876	Wotton Tel. Co	Wooton Hill	5,000 00	:	5,000 00	550 00				150	7	200 00
Cullilaume	Wright & Pontiac Tel. Co	Luskville	7,550 00	:	17.	1,381 65	658 50			2	4	1,065 40
19,425,933 5311,891,340 23,43,051,983 19,8,509,603 6712,078,743 19,6,388,636 11 72,622 30,695 3,988 2,103,876	ramaska ter Co	St. Cantlaume	4,500 00		;	2,278 20	1, 156 00			× ×	20	725 00
	Total		19,425,983 53	11,891,340 23	43,051,983 19	8, 509, 663 6712	978,743 19	3,388,636 11		30,695	3, 988 2	

Table 4.—Statement of Wire Equipment—Urban and Rural.

				Urban				_	Rural.		
Name of Company.	Address.	Gal- vanized		Copp	Copper Wire.		Gal- vanized.		Coppe	Copper Wire.	
		Single Wire.	Single Wire.	Over- head.	Under- ground.	Sub- marine.	Single Wire.	Single Wire,	Over- head.	Under- Sub- ground, marine.	Sub- marine.
Quebec-Con.		Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.
Arundel Tel. Co., Ltd Asbestos Tel. Co Bennee Tel. Co	Arundel Asbestos Beanceville	: : : : : : : : : : : : : : : : : : : :	00 28				300 00 11 00 140 00		0.50	0.50	
Bell Tel. Co., Ltd Bellevue Tel. Syndicate	Montreal Sherbrooke			48,986 00	48,986 00 196,248 00	284 00	39,037 00 7 00				
Belvidere Tel. Co Blanchard Tel. Co.	Sherbrooke						31 4 4	: :			
Bromaton Paper & Puly Co.	Paspebiae	20 00	00 7	00 603		00	390 00 45 00	00 062			
Brunette Private Line.							00 92	2 00			
Campbell's Bay Tel. ('o					-1		00 071				
Canadian Tel. Co	Sawyerville		00 51		00 92		100	00 970 1			
Charlevoix & Saguenay Tel. Co.	Murray Bay							270	100 00		5 00
Chenier Tel. Co	Tingwick	00 6					8 8 31 <u>8</u>	00 1		93	50.00
Chateau Richer Tel. Co	Chateau Richer										
Citizens Tel. Co. Clarenceville North Tel. Co.	Clarenceville.			00 00			90 954				
Clarenceville & Nuts Corners Tel. Co	Clarenceville					-	26 00	:	:	:	:
Chrenceville & Wolf Radge Tel. Co	Clarenceville						3 S 2 G				
Contrecoeur Tel. Co.	Contrecoeur						8 00		:		
Chatham Tel. Co	Brownsburg	:	:				98		:	:	
Compton Mutual Tel. Co	Compton						90 1				
Chouinard Tel. System	St. Pamphile	:					30 00	:	:	:	
Courcelles Tel. Co	Courcelles						24 00	:		:	
Daigle Tel. Co.	Mansean Station						_				
Danis Private Line	Barrette	75 00					35 00				
Daveluyville Tel. Co	Daveluyville	20 00					. 65 . 00 . 00 . 00	:	:	:	
Denomination Tel. Co. Ltd	Demondaille	00 001		150 60		:	26.00	:		:	

Table 4.—Statement of Wire Equipment—Urban and Rural—Continued.

				Urban.				7	Rural.		
Name of Company.	Address.	Gal- vanized		(copp	Copper Wire.		Cal- vanized.		Copper Wire.	r Wire.	
		Single Wire.	Single Wire.	Over- head.	Under- ground.	Sub- marine.	Single Wire.	Single Wire.	Over- head.	Under- ground.	Sub- marine.
Quebec—Con.		Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.
Dorset Tel. Co.	St. Hilaire						00 x			:	
:	Sherbrooke. Wakefield	98 868 868		955 00	-1 -1 -2		1, 115 96 53 96	227 00	:	:	:
Fort Coulonge Tel. Co.											90
Farmers Tel. Co., Ltd.	Howick Station	:		247 00							
Farrellton 1et. Co. Fortierville Tel. Co.	Parrellton		:				158 00	8 %	:		
Fourth Range Tel, Asso	Sherbrooke						88				
Foster & Bondville Private Line	Foster						200 2				
Fitch Bay Tel. Line	Fitch Bay	:						_ :			
Gandet Tel. System	St. Fulalie.		1								
Caron Private Line.	St. Ciregone	:								:	
Goneya, Tel. Asso.	St. Andrews Fast						90 95		:	:	•
Girouard Private Line	St. Barnabe Sud.										:
Henryville Tel. Co	. Henryville	:					57 00	:			
Hill Head Tel. Co.	Lachute	:					00 9	:	:		
Hill Tel. Lines.	St. Armand West.						150 00	:			
Hollow Cien Lel. Asso	Isreekenridge		:				00 x	:		:	:
Howard & Ca's Private Line	Charlesock o	000					00 00			:	
Joliette Tel. Co.	Joliette	:					20000				
Kamouraska Tel. Co	. Fraserville	1,250 00	130 00				1,820 00		1,600 00		
Katevale Tel. Co.	Katevale.				:		90 + 5			:	:
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Lachute E. Mutual Tel. Asso.	Lachute	:	: '		:		ος Εξ		:	:	
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L'Avenir Tel. Co.							00 986 00 988				
La Conception Tel. Co	La Conception.						21 00				
Lake Valley Tel. Asso	Asbestos	:	:				00 9				
Laroeque Tel. Co.	Douville	:	:				10 00	:	:	:	
Laurentide Tel Co	Pointe Catingan	:		00 01			45 00	:			
La Tuque Falls Tel. Co.	La Tuque				-		00 006				
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Table 4.—Statement of Wire Equipment—Urban and Rural—Concluded.

				Urban					Rural.		
Name of Company.	Address.	Gal- vanized		Copp	Copper Wire.		Gal- vanized.		Copper Wire.	r Wire.	
	·	Single Wire.	Single Wire.	Over- head.	Under- ground.	Sub- marine.	Single Wire.	Single Wire.	Over- head.	Under- ground.	Sub- marine.
Queher—Con.		Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.
St. Camille and Wolfe Tel. Co	St. Camille	:	:				20 00				
Sto. Cecile de Whitton Tel. Co.	Ste. Cecile Station						150 00 49 50				
St. Claude Mutual Tel. CoSt. Ephrem Tel. Co.	St. Claude de Richmond St. Ephrem de Tring.										
Ste. Elizabeth de Warwick Tel. Co.	St. Elizabeth de Warwie						25 25 26 27				: :
St. François Xavier de Brompton Tel. Co.	St. Francois Navier.	3 00					162 00 00 00 00 00		26 00		:
St. Pabien Tel. Co	Panet						9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9				
St. Alphonse de Winslow Tel. Co.	Stornoway						9 9 9 9 9 9		:	:	:
Ste. Anne des Monts Tel. Co.	St. Anne des Monts						00 09				
St. Gerard Tel. Co.	St. Gabriel de Brandon. St. Gerard						8 8 8 8				:
St. George East Tel. Co.	St. George East.						00 54 7				
St. George de Windsor Tel. Co St. Henri de Mascouche Tel. Co	St. George de Windsor St. Henri de Masconche						39 00		:	:	:
St. Helene de Chester Tel. Co	St. Helene de Chester						7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7				
St. Julien de Wollstown Tel. Co St. Lue Tel. Co.	Champlain	:					9 9 9 9 9 9	:	:	:	:
St. Lucie Tel. Co.	St. Lucie de Doncaster						90 91				
St. Marys Tel. System St. Mudeleine Tel. Co	St. Marys. St. Madeline						8 8 8 8	2 00		:	:
St. Magloire Tel. CoSt. Marg Tel. Co	St. Magloire.						00 s 8 s				
St. Manrice and Champhain Tel. Co. St. Norbert d'Athabaska Tel. Co.	Butiscan St. Norbert de Athabas-	200 00	34 00				18 00		100 00		
St. Ours Tel. Co., Ltd.	kaSt. Ours.	75 00					13 00	20 00	4		
St. Paul de Chester Tel. Co Ste. Perpetue Tel. Co.	St. Paul de Chester	:	:				247 00	3 00	:		
St. Philemon Tel. Co. St. Romain Tel Co.	Berthier en bas.						54 00				
St. Remide Tingwick Tel. Co. St. Schastion d'Thorwille Tel. Co.	St. Remi de Tingwick.						11 00				
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St. Sabine d'Iberville Tel. Co	St. Sannael and St. Counting we marrow	: : : :	ills Tel. Co Falls Tel.				Total

Table 5.—Statement of Capital, Cost, Revenue, Operating Expenses, Number of Telephones, Wire Equipment, etc.

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Revenue.		s cts.	1.384 00	1,600 00		136 00				832 00		1 709 00	1,132 00		00 066					85 00			88									00 866 867 878 878 878 878 878 878 878 878		790 00	_
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Funded Debt.		e cts.																	14,600 00	2,200 00	2,730 00	500 00	1,000 00	2,000 00	20,500 00	12, 500 00	4,000 00	23, 200, 00	0, 200 00						
Capital Stock.		& cts.	8,075 00	560	2,250 00		2,400 00	00 000 00	00 006 5	0,300 00	9 200 00	5,725,00	200 00	200 000	2,300 00	1,750 00													00 001 6	300 000	2, 250, 00	2,775 00	1,175 00	1,800 00	4.000 UU
Address.			Alameda	Allan	Sintaluta	Aberdeen	Konleau	Carlevale	Welledon	Wolseley	Crails	Ardath	Aberdeen	Craik	Asquith	Regina	Indian Head	Qu'Appelle	Adamae	Wawota	Assimbola	Grand Coulos	Sintaluta	Montmartre	Abbey	Webb	Avonlea	Lindondon	Nudersiey	Hanley	Souther	Lumsden	Abernethy	Belle Plaine	Moosejaw
Name of Company.		Saskatchewan	Alameda Tel. Co	Allan Tel. Co.	Allindale Tel. Co	Aberdeen Tel. Co.	Adelaide Lei Co	Arm River Tal Co	Abboteford Tol. Co.	Ambassador Tel Co	Areyle Tel Co	Ardath Tel. Co.	Aberdeen S.E. Tel. Co.	Arm Tel. Co.	Asquith Tel. Co.	Arat Tel. Co	Areadia Tel. Co	Ayonhurst Tel. Co.	Adanae Tel. Co	Ardine Tel. Co	Albatross Tel. Co	Adams Tel. Co.	Albina Tel. Co.	Alpha Tel. Co	Abbey Tel. Co	Antelope Lake 1 el. Co	Avonica Tel. Co.	Aron Hills Tol Co	Brownhill Tol Co	Beaver Creek Tel. Co	Buffalo Hill Tel. Co	Boggy Creek Tel. Co	Bee Line Tel. Co	Broadway Tel. Co.	Delocek 1el. Co

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O Bellevue Tel. Co	Rouleau	775						:	32.00
Puffalo Head Tel. Co	Arcola	025					200	:	90.77
Sonnie Blink Tel. Co	rense	200					-		00.47
Co.	Eskbank	500					- Fi		59.00
Browning Tel. Co.	Kisbey	350					81		97.00
Brownlee-Avonmore Tel. Co.	Brownlee	950					19		. 00.54
Buffalo Plains Tel. Co	Windthorst	325					21		20.00
Benson Tel. Co.	Estevan	225					47		160.00
Bredenbury Tel. Co	Bredenbury	120 00			38 00		-		10.00
Boharm W. Tel. Co.	Moosejaw	98					67.5	:	00.9
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Baring Tel. Co	Baring		200				24		38.00
Beatty Tel. Co.	Melford		200				56	120 00	157.00
Beaver Tel. Co	Yorkton		200				90	295 00	198.00
Bell Tel. Co	Regina		මූ				17		00.09
Belvedere Tel. Co	Swift Current		9				47		170.00
Bennet Tel. Co.	Craik		98				£3	:	152.00
Bethune S.W. Tel. Co	Bethune		900				22.5		00.28
Beverley S. Tel. Co	Beverley		38						00.57 70.00
Dia Dutte Tel Co	Peteron		200				20		1.00
Big Cully Tel Co	Lloydminster		8				75		98.00
Bigford Tel. Co	Swift Current		006				58	300 00	161.00
Black Lake Tel. Co.	Bladworth		909				16		49.00
Blackley Tel. Co	Sutherland		90					:	99.00
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Bonnie View Tel. Co	Loreburn		007						170.00
Bounty Tel. Co.	Bounty		38						91.00
Bredenbury Tel. Co	Bredenbury		3 8				3.1		107.00
Bright Tel. Co.	Loreburn		3 8				11		187.00
Brookside 1el. Co.	Wapena						38		95.00
Butterton Tel Co	Barl Grey		200				99		144.00
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Table 5.—Statement of Capital, Cost, Revenue, Operating Expenses, Number of Telephones, Wire Equipment, etc.—Con.

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Rouleau Hanley Kinley 'sır Knife,	Slavet	Rocanville	Colfax	Springside	Tair	Melville	Fraux	Rosthern	Cabri	Central Butte	Southey	Lamphian	350	275	000'9	4,650	db	17	3,500	1,200	ouree 829		Jupar	Redvers	Indian Head	Jensie	ajord	Orinkwater	Jubue	Jummor	Volselev	Duval	Duval	Swift Current	Vendal	Çealandia	Neville	3algonic.	Oilke
Rouleau Hanley Kinley Cart Kaife	Clavet	Rocanville	Colfux	Springside	Clair	Melville	Traux	Rosthern	Cabri	Central Butte	Southey	Lamphian	1 350	1,275	000'9	4,650	db	.yy	3,500	1,200			Cupar	Redvers	Delian Head	Macoun	Lajord	Drinkwater	Dubue	Dummor	Wolselev	Duval	Duval	Swift Current	. Kendal	Zealandia	Thompolin	Balgonic	Dilke
Rouleau Hanley Kinley Cart Kaife	Clavet	: :	:	:	:		:	:	:	:	:	:	Dalaskora	Drinkwater 1.275	Dalmenv 6,000	Dundurn 4, 650	Battleford 500	Abernethy 375	Deveron. 3,500	Davidson 1,200	Crand Coulee 2, 750	Dafoe	Cupar	Redvers	Indian Head	:		-	:	:			Duval	Swift Current	Kendal	Zealandia	Thankolm	Balgonic	Dilke
Rouleau Hanley Kinley Cut Knife	Clavet	: :	:	:	:		:	:	:	:	:	:	Dalaskora	Drinkwater 1.275	Dalmenv 6,000	Dundurn 4, 650	Battleford 500	Abernethy 375	Deveron. 3,500	Davidson 1,200	Crand Coulee 2, 750	Dafoe	Cupar	Redvers	Dalish	:		-	:	:			:	:	:	Zealandia	Tombolm	Balgonic	Dilke
Rouleau Hanley Kinley Cut Knife	Clavet	: :	:	:	:		:	:	:	:	:	:	Dalaskora	Drinkwater 1.275	Dalmenv 6,000	Dundurn 4, 650	Battleford 500	Abernethy 375	Deveron. 3,500	Davidson 1,200	Crand Coulee 2, 750	Dafoe	Cupar	Redvers	Indian Head	:		-	:	:			:	:	:	Zealandia	Tombolm	Balgonic	lDilke
Rouleau Hanley Kinley Cutt Knife	Clavet	: :	:	:	:		:	:	:	:	:	:	Dalaskora	Drinkwater 1.275	Dalmenv 6,000	Dundurn 4, 650	Battleford 500	Abernethy 375	Deveron. 3,500	Davidson 1,200	Crand Coulee 2, 750	Dafoe	Cupar	Redvers		:		-	:	:			:	:	:	Zealandia	Therbolm	Balgonic	Dilke
Rouleau Hanley Kinley Cutt Knife	Clavet.	: :	:	:	:		:	:	:	:	:	:	Dalaskora	Drinkwater 1.275	Dalmenv 6,000	Dundurn 4, 650	Battleford 500	Abernethy 375	Deveron. 3,500	Davidson 1,200	Crand Coulee 2, 750	Dafoe	Cupar	Redvers	Dolish	:		-	:	:			:	:	:	Zealandia	[Dombolm	Balgonie	Dilke
30 Rouleau Hanley Finley Cut Knife	Clavet	: :	:	:	:		:	:	:	:	:	:	Dalaskora	Drinkwater 1.275	Dalmenv 6,000	Dundurn 4, 650	Battleford 500	Abernethy 375	Deveron. 3,500	Davidson 1,200	Crand Coulee 2, 750	Dafoe	Cupar	Redvers	Dalisla	:		-	:	:			:	:	:	Zealandia	Thenbolm	Balgonic	Dilke
1, Co Rouleau Rouleau Hanley Finley Co Curt Knife	Clavet	: :	:	:	:		:	:	:	:	:	:	Dalaskora	Drinkwater 1.275	Dalmenv 6,000	Dundurn 4, 650	Battleford 500	Abernethy 375	Deveron. 3,500	Davidson 1,200	Crand Coulee 2, 750	Dafoe	o	Redvers	oDalish	:		-	:	:			:	:	:	Zealandia	Dombolm	Balgonic.	Dilke
Rouleau Rouleau Tel. Co Hanley Kinley Cl. Co Cl. Kinley	Clavet	: :	:	:	:		:	:	:	:	:	:	Dalaskora	Drinkwater 1.275	Dalmenv 6,000	Dundurn 4, 650	Battleford 500	Abernethy 375	Deveron. 3,500	Davidson 1,200	Crand Coulee 2, 750	Dafoe	. Co.	P. Redvers.	. Co	:		-	:	:			:	:	:	Zealandia	Co	Balgonic.	Dilke
Co Rouleau Rouleau Hanley Hanley Fine Co Cut Knife Co Cut Knife Co Cut Knife Co Cut Knife Co Cut Knife Co Cut Knife Co Cut Knife Co Cut Knife Co Cut Knife Co Cut Knife Co Cut Knife Co Cut Knife Cut Knife Co Cut Knife	Co Clavet	: :	:	:	:		:	:	:	:	:	:	Dalaskora	Drinkwater 1.275	Dalmenv 6,000	Dundurn 4, 650	Battleford 500	Abernethy 375	Deveron. 3,500	Davidson 1,200	Crand Coulee 2.750	Dafoe	Tel. Co.	Co. Redvers.	Fel. Co	:		-	:	:			:	:	:	Co	Ob. Co	Co	30
Tel. Co Rouleau Rouleau View Tel. Co Hanley Kinley And Co Cht Knife Kinley Cht Knife Cht Kni	el. Co. Clavet	: :	:	:	:		:	:	:	:	:	:	Dalaskora	Drinkwater 1.275	Dalmenv 6,000	Dundurn 4, 650	Battleford 500	Abernethy 375	Deveron. 3,500	Davidson	Crand Coulee 2.750	Dafoe	le Tel. Co.	el. Co.	te Tel. Co	:		-	:	:			:	:	:	el. Co.	K Tel. Co	d. Co. Balgonic.	I. Co
nt Tel. Co Rouleau Rouleau nt View Tel. Co Hanley Kinley Kinley Kinley Rink Tel. Co Clrt Knife Clrt Kn	TTel Co	: :	:	:	:		:	:	:	:	:	:	Dalaskora	Drinkwater 1.275	Dalmenv 6,000	Dundurn 4, 650	Battleford 500	Abernethy 375	Deveron. 3,500	Davidson	Crand Coulee 2.750	Dafoe	mple Tel. Co.	n Tel. Co.	Lake Tel. Co	:		-	:	:			:	:	:	1 Tel. Co.	rak Tel. Co	Tel. Co.	Tel. Co
secent Tel. Co Rouleau secent View Tel. Co Hanley oeus Belle Tel. Co Kinley Fixinfor Tel. Co Cutt Knife	wet Tel. Collavet	: :	:	:	:		:	:	:	:	:	:	Dalaskora	Drinkwater 1.275	Dalmenv 6,000	Dundurn 4, 650	Battleford 500	Abernethy 375	Deveron. 3,500	Davidson	Crand Coulee 2.750	Dafoe	lrymple Tel. Co.	rwin Tel. Co.	rp Lake Tel. Co	:		-	:	:			:	:	:	blin Tel. Co.	ybreak Tel. Co	vin Tel. Co.	ke Tel. Co
Crescent Tel. Co Rouleau Crescent View Tel. Co Hanley Crocus Belle Tel. Co Kinley Chu Knife Tel. Co Cht Knife	Clavet Tel. Co. Clavet.	: :	:	:	:		:	:	:	:	:	Cullen Tel. Co	Dalaskora	1,275	Dalmenv 6,000	Dundurn 4, 650	Battleford 500	Abernethy 375	Deveron. 3,500	Davidson	Crand Coulee 2.750	Dafoe	Dalrymple Tel. Co.	Darwin Tel. Co.	Deep Lake Tel. Co	:		-	:	:			:	:	:	Dublin Tel. Co.	Daybreak Tel. Co	Davin Tel. Co.	Dilke Tel. Co
Crescent Tel. Co Crescent View Tel. Co Crescent View Tel. Co Crocus Balle Tel. Co Crat Knife Tel. Co Crat Knife Tel. Co	5 Clavet Tel. Co.	: :	:	:	:		:	Carlton Tel. Co.	:	:	:	:	Dalaskora	Drinkwater 1.275	Dalmenv 6,000	Dundurn 4, 650	Battleford 500	Abernethy 375	Deveron. 3,500	Davidson	ouree 829	Dafoe	Dalrymple Tel. Co.	Darwin Tel. Co.	Deep Lake Tel. Co	:	Downing Tel, Co.	-	:	:			:	:	:	Dublin Tel. Co	Daybreak Tel. Co	Davin Tel. Co.	Dilke Tel. Col

Table 5.—Statement of Capital, Cost, Revenue, Operating Expenses, Number of Telephones, Wire Equipment, etc.—Con.

,		Capital	Funded	Cost		Operating	Number of Tele- phones.	Emp a Remu	Employees and Remuneration.	Miles
Name of Company.	Address.	Stock.	Dent.	Equipment.	Neverune.	EADCHSes.	Magneto.	No.	Amount.	Wire.
Saskatchewan—Con.		s ets.	\$ cts.	\$ ets.	se ets.	& cts.			s ets.	Miles.
Druid Tel. Co.	Druid		6,000 00							0.47
Dodsland Tel. Co.	Dodsland.		4,800 00	4,564 00	505 00	180 00	[8]			58.00
Edzeli Tel. Co	Saskatoon	4,800 00								0.80
Eastview Tel. Co	Pasqua								00 000	0.92
Elmore Tel. Co. Ellishono Tol. Co.	Elfisters.	6,800 000		200 001:	1, 512 00			-	00 000	100.0
Floin Tel Co	Moosomin									0.01
Empire Tel. ('o	Carievale									29.0
Edgeley Tel. Co	QuAppelle	4,500 00								207.0
Eastline Tel. Co	Abernethy	1,315 00		1,150 00						0.21
East Halbrite Tel. Co	Halbrite	3,200 00							:	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
East Fillmore Tel. Co.	W. Hillmore	00 000.1			000					2.79
East Weyburn 1el. Co	Control	00 776		00 006 1						0.26
East Carryle 19, CO. Filim Tel. Co.	Rocanville	1.550 00		1.737 00		77.50				7 7
Eagle Creek Tel. Co	Asquith					664				0.981
Earl Grey-Sylvan Tel. Co	Earl Grey		5,200 00	f, 029, 00		156				3
East Borden Tel. Co.	Borden		7,500 00			909			240 00	0.9
East Mount Tel. Co.	Strassburg			2,36, 00		225		<u> </u>	9.8) [[] [
East Milden Lei Co Edelane Tel-Co	Strassburg		5,700 000	4,855,00	246 00	007			262	2.00
Elbow Tel. Co.	Elbow					193		_	00 001	153.0
Ellsworth Tel. Co.	Macoun.		5,000 00			457				0.48
Elstow Tel. Co	Macoun					1,416				0.555
Ene Tel. Co	Craik					3		:		0.70
Ernschiffe Fel. Co.	Wolesley		6,000 00	5,900 00		00T				7.5
Exphron S W Tel Co	Ministino.		300 00			133				99
Eddy Tel. Co.	Bulven		4.000 00			250			75 00	52.0
Echo Tel. Co.	Langenburg.		11,000 00			536				307.0
Edge Hill Tel. Co.	Parkbeg					20				001
Evans Tel. Co	Briererest									9.7
Ernfold Tel. Co.	Ernfold					125		-	- 1	0.76
Englefeld Tel. Co	Englefeld		9,500 00	11,125,00	245 00	535 00		_	00 e?	0.021
Fastern Star Let. Co.	Webb				_					2.001

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25 00 25 00 25 00 25 00		000 : : :	20 00	00 006			12 00 12 00 24 25 26 26 26 26 26 26 26 26 26 26 26 26 26
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570 00 706 00 776 00 530 00 546 00 75 00 75 00						337 00 331 00 2,605 00 144 00 386 00 90 00 409 00 149 00	144 00 547 00 507 00 138 00 250 00 30 00 702 00
2, 878 00 00 00 00 00 00 00 00 00 00 00 00 00					10,250 00 14,832 00 10,250 00 14,832 00 5,800 00	2, 503 2, 503 3, 474 1, 506 1,	
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Fleming. Fleming. Wapella. Lumsden. Carnduff Tuxford Foam Lak	Francis Regina Indian Hea Herbert	Regina Hanley Francis Welwyn	Kennedy Southey Craik Heward Findlater	Lemberg Wadena Melford Midale Forward	Francis. Frobisher. Froude. Flavcombe Suskatoon. Fillmore. Bromhead.	Milestone Pitman Glen Ewen Boharm Grenfell Qu'Appelle Windthorst Glenside Moscaiaw	Delisle Eyebrow Outlook Calder Gerald Hanley
Fleming N. Tel. Co. Fleming S. Tel. Co. Fairmede Tel. Co. Forest Tel. Co. Florence Tel. Co. Florence Tel. Co. Florence Tel. Co. Forence Tel. Co. Forence Tel. Co. Forence Tel. Co. Forence Tel. Co. Foster Tel. Co.	Francis Tel. Co. Rairview Tel. Co. Farrplay Tel. Co. Farrners' Tel. Co.	Foxleigh Tel, Co Farmington Tel, Co Farmington Tel, Co Francis N Forndale Tel, Co Francis Tel, Co	rietwold Tel. Co. Sairy Hill Tel. Co. Stroy Tel. Co. Stelds Tel. Co. Stelds Tel. Co. Smitater Tel. Co.	Fishing Lake Tel. Co. Fishing Lake Tel. Co. Flodings Tel. Co. Flodings Tel. Co. Flodings Tel. Co. Forward Tel. Co. Foxbury Tel. Co.	Francis E. Tel. Co. Frobisher Tel. Co. Froude Tel. Co. Flaxcombe N. Tel. Co. Flirand Tel. Co. Fillmore Tel. Co. Fillmore Tel. Co. Fillmore Act. Co. Fillmore Act. Co. Fillmore Act. Co. Fillmore Act. Co. Fillmore Act. Co.		Grangers Tel. Co. Grand Prairie Tel. Co. Grand Prairie Tel. Co. Garden Valley Tel. Co. Gartimore-Zorra Tel. Co. Gerald Tel. Co. Gilead Tel. Co.
Fleming Fleming Fairmed Forest T Florence Farewell Foam L	Francis Fairviev Fairplay Farmers	Foxleigh Farming Francis Ferndale Fish Cre	Fairy H Fargo T Fargo T Fields T Findlate	Fishing Fletts Si Floding Forward Forward Foxbury	Francis J Frobishe Froude J Flaxcom Floral To Filmore Flaata T	Golden J Golden J Glen Ew Greenda Grenfell Grassme Grassme Grassme Grassme	Grangers Grand P Garden ' Gartmor Gerald T Gilead T Gledhow

Table 5.—Statement of Capital, Cost, Revenue, Operating Expenses, Number of Telephones, Wire Equipment, etc.—Con.

Names of Commune	Addrass	Capital Strock	Funded	Cost Property	9009.x3	Operating Exponence	Number of Tele- phones.	Emp Remu	Employees and Remuneration	Miles
· Cupyling And Allegar		4		Equipment.			Magneto.	No.	Amount.	Wire.
Saskatchewan—('on.		99 <u>7.</u>	\$. \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	88 <u>£</u>	& ets.	80 X			<u>₹</u>	Miles.
Glen Adelaide Tel. Co.	Wawofa		7,700 00	7,795 00		375				136.00
Glenavon N. Tel. Co.	Glenavon		1,500 00	1,520 00	140 00	87 00	= 5	:	00 020	30.00
Glenavon E. Tel. Co.	Glonavon		9,000,00			ECT.		7)	00 007	00.66
Glenford Tel. Co.	Glenside		00 000			350				110.00
Glenrose Tel. Co.	. Battleford		11,000 00	10,820 00	006	558				127.00
Good Hope Tel. ('o	Waldron		12,700 00	12,200 00	688	555				167.00
Goodwater Tet, Co	Goodwater		00 007.7	7,200 00	230	310	10			00.81 00.83
Coven Ted Co	Cgcma		16,500,00	17,719,00	896 6	9 7 6		:	1 200 00	987.00
Graham-Chatworth Tel, Co	Xall coats		10, 200 00	10, 208 00	127	38.			200000000000000000000000000000000000000	178.00
Grand Bend Tel. Co.	Weyburn		7,000 00	7,110 00	110	267				102.00
Great Deer Tel. Co.	Borden		11,000 00	10,620 00	17-9	536		÷1	355 00	178.00
Great West Tel. Co	Wapella	:	00 000	4,062 00	96	92		:		90-94
Cheen Failu 101, CO	Chernson		91,000,00	17,460,00	222	189			00 00	075.00
Clenda Tel, Co.	X(ough(on		13,000 00	13,304 00	1961	371		•		220.00
Great Bend Tel. Co.	Radisson	:	7,000 00	7,755 00	411	375				116.00
Grovenland Tel. Co	Lanigan		2,500 00	2,068 00	031	130	21			30.00
Garnoek Tel. ('0.	Kelliher		13,000 00	13,256 00	457	280 00	146	:	(50.00	165.00
Cidom Tol Ca	Sackatoon		7,400 00	7 (63 00	989	657	9 8	-	00 001	00.001
Glen Eagle Tel. ('0	Asquich		8.000 00	8, 131, 90	145		6			128.00
Glen Morris Tel. Co	Carlyle		10,500 00	10,605 00	565	415				146.00
Green Prairie Tel. Co	Central Bufte		29,500 00	32, 216 00	535	2:16		:		492.00
Hay Creek Fel. Co.	Maple Creek	00 020 0		00 000	žŝ					31.00
Huron & Clinton Tel. Co.	Tusford	3,530 00			97	252 00				85.00
Hill Farm Tel. Co.	Lemberg	4, 125,00		500	330	33.5		: c3	45 00	88.00 86.00
Hepburn Tel. ('o.	Hepburn	6,800 00			74.	522				156.00
Z	Huronville	3,850 00			3:1	350				88.00
Hope Tel. ('o	. Abernethy	875 00		99				:		00.01
Heward Tel. Co	. Heward	4,800 00		4,800 00	202	500				85.00
Highview Tel. ('o.	Dumas			002	650 00	252 00		० १	40 00	72.00
Haldonia Tel. Co.	I rancıs.	00 671,1		00 828	06;	202				90 62
Hell's Lake 1 el. (0	dr.perg	2,525 001			130	701				04.00

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Hursh Tel. Co. Hazeleliffe Tel. Co. Hayes Tel. Co. Hally lille Tel. Co. Hanson Tel. Co. Hiddahl Tel. Co. Hildahl Tel. Co. Hame Tel. Co. Hawarden Tel. Co. Hawarden Tel. Co. Hawarden Tel. Co. Hyde Tel. Co. Horse Lake Tel. Co. Horse Lake Tel. Co. Horse Lake Tel. Co. Horse Lake Tel. Co. Horse Lake Tel. Co. Horse Lake Tel. Co. Horse Lake Tel. Co. Horse Lake Tel. Co. Indenden Tel. Co. Indenden Tel. Co. Indenden Tel. Co. Industrial Tel. Co. Industrial Tel. Co. Industrial Tel. Co. Industrial Tel. Co. Industrial Tel. Co. Industrial Tel. Co. Industrial Tel. Co. Industrial Tel. Co. Industrial Tel. Co. Isanond Tel. Co. Kenlis Tel. Co. Kenlis Tel. Co. Kenlis Tel. Co. Kendalton Tel. Co. Kendalton Tel. Co. Kendalton Tel. Co. Kendalton Tel. Co. Kendalton Tel. Co. Kendalton Tel. Co. Kendalton Tel. Co. Kendalton Tel. Co. Kendalton Tel. Co. Kendalton Tel. Co. Kendalton Tel. Co. Kendalton Tel. Co. Kendalton Tel. Co. Kendalton Tel. Co. Kendalton Tel. Co. Kingeley Tel. Co. Kingeley Tel. Co. Kingeley Tel. Co. Kingeley Tel. Co. Kingeley Tel. Co. Kingeley Tel. Co. Kingeley Tel. Co. Kingeley Tel. Co. Kingeley Tel. Co. Kingeley Tel. Co.

Table 5.—Statement of Capital, Cost, Revenue, Operating Expenses, Number of Telephones, Wire Equipment, etc.—Com.

Feduloston Fed	Cook Dally	Troperty Day	Operating	phones.	and Remuneration	n. Miles
Keddleston \$ cts. \$ cts. \$ cts. Midestone 7,800 00 7,135 00 775 00 Milestone 630 00 630 00 775 00 Lang. 850 00 1,300 00 1,500 00 " 1,650 00 1,500 00 1,500 00 " 1,600 00 1,500 00 1,500 00 Rivassburg. 6,000 00 1,500 00 1,500 00 Midale. 5,700 00 7,000 00 1,750 00 Inmisden 2,400 00 1,755 00 6,810 00 Brownlee 1,550 00 1,755 00 6,810 00 Brownlee 1,555 00 1,531 00 1,531 00 Laure 1,555 00 1,550 00 1,531 00 Laure 1,550 00 1,531 00 1,531 00 Lampinan 1,550 00 2,400 00 2,460 00 Lampinan 1,550 00 1,532 00 2,500 00 Lampinan 2,500 00 1,532 00 2,540 00 Lampinan 3,700 00 2,500 00 1,922 00 </th <th></th> <th>- 1</th> <th>chine, popularise</th> <th>Magneto.</th> <th>No. Amount</th> <th></th>		- 1	chine, popularise	Magneto.	No. Amount	
Keddleston 7,800 00 7,619 00 Mortlach 780 00 8,500 00 9,135 00 Milestone 630 00 675 00 650 00 Lang 850 00 1,300 00 1,300 00 Karasburg 6,000 00 1,300 00 1,300 00 Laird 1,500 00 1,500 00 1,500 00 Laird 2,400 00 7,000 00 1,700 00 Laird 1,500 00 1,500 00 1,500 00 Lamerly 6,000 00 1,700 00 1,700 00 Lamerly 1,850 00 1,312 00 1,312 00 Lampman 1,550 00 1,312 00 1,312 00 Lampman 1,550 00 1,381 00 2,165 00 Lampman 3,700 00 3,800 00 4,54 00 Lampman 3,700 00 4,64 00 1,531 00 Lampman 3,700 00 4,64 00 2,45 00 Lampman 3,700 00 4,64 00 2,500 00 Lampman 3,700 00 4,64 00 Lampman	c(s.		cts. \$ cts.		€	ets. Miles.
Mortlach Milestone Lang. (30 00 (31 00) (32 00) (32 00) (33 00) (34 00) (35 00) (35 00) (36 00) (37 00) (38 00) (48 00) (49 00) (59 00) (50	7,800 00	7,619 00	250 00 125 00	. 20	:	†6 ————————————————————————————————————
Lang. Lang	- 8	9,135 00				124
1,050 00 1,500 00			00 08	0		00.55
1,650 00 1,500 00		8	00			33
Strassburg 1,500 00 1,500 00 1,500 00 1,500 00 1,500 00 1,500 00 1,500 00 1,500 00 1,500 00 1,500 00 1,500 00 1,500 00 1,500 00 1,500 00 1,725 0		88	150 00			7.5
Strassburg		38	90	22.8		88.3
Laird Laird 7,000 00 7,000 00 1,00		:	00 510	. 97	- 7	: 8
Middle 7,000 00 7,000 00 7,25 00 Abernethy 600 00 1,725 00 650 00 Brownlee 7,900 00 6,810 00 2,115 00 Laura 7,900 00 2,115 00 2,115 00 Balmeny 700 00 2,115 00 2,115 00 Lajord 1,650 00 3,800 00 3,800 00 Lanjord 3,700 00 4,500 00 4,64 00 Lampman 8,000 00 4,64 00 6,146 00 Lampman 5,700 00 5,146 00 6,240 00 Lampman 8,000 00 4,634 00 6,240 00 Lampman 7,700 00 1,792 00 00 Lampman 2,000 00 4,634 00 1,700 00 Lampman 2,000 00 4,634 00 1,700 00 Lampman 3,700 00 1,912 00 00 Lampman 3,700 00 1,912 00 00 Lampman 3,700 00 2,245 00 00 Lampman 1,700 00 2,345 00 00		00	0.0 1,143		1 5	550 00 130
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Moosoniin 1,525,00 2,165,00 Dalineny 700,00 2,165,00 Jorlic 1,650,00 3,809,00 Lajord 3,700,00 3,809,00 Lajord 8,800,00 7,942,00 Lampinan 4,500,00 4,654,00 Lampinan 7,700,00 4,64,00 Lampinan 7,700,00 7,742,00 Lampinan 2,000,00 1,942,00 Lampinan 1,700,00 1,942,00 Watrous 3,700,00 1,942,00 Lockwood 1,700,00 2,245,00 Lovat 2,500,00 4,027,00 Lampinan 2,300,00 4,027,00 Lampinan 2,345,00 2,345,00 Lovat 2,350,00 4,027,00 Qu'Appelle 7,300,00 7,238,00 Cu'Appelle 7,200,00 7,238,00		38	00		- 1	785 00 126
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Longbank		5,146 00	924 00			
Continue Continue		7,620 00	380		_	150 00 128
Raymore 10,200 00 3,1004 Raymore 10,500 00 12,245 Lockwood 1,700 00 12,245 Lockwood 2,546 Lockwood 2,546 Lockwood 2,546 Lockwood 3,500 00 1,027 Lockwood 3,500 00 1,027 Lockwood 3,550 L		00 206.1	8 5			
Watrons 3,700 00 2,245 Loekwood 1,700 00 1,200 Loevat 2,500 00 1,365 Dubue 4,000 00 4,027 Langhan 7,300 00 7,258 Qu'Appelle 3,500 00 3,350 Lewya 7,200 00 7,021		10, 660, 00	277			921
Lockwood		2,245 00	165			76
Lovat 2,500 00 2,365 Dubuc 4,000 00 4,027 Langham 7,300 00 7,258 2,500 00 1,258 2,500 00 1,258 2,500 00 1,258 2,500 00 1,258 2,500 00 1,258 2,500 00 1,258 2,500 00 1,258 2,500 00 1,258 2,500 00 1,258 2,500 00 1,258 2,500 00 1,258 2,500 00 1,258 2,500 00 1,258 2,500 00 1,258 2,580 00 1,2		17,200 00	00 352			500
Dubuc 1,000 00 4,027 Langham 7,300 00 7,258 Cu'Appelle 3,500 00 7,254 2,500 00 1,057 2,500 0		2,365 00	00			15
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Table 5.—Statement of Capital, Cost, Revenue, Operating Expenses, Number of Telephones, Wire Equipment, etc.—Con.

Monney of County	Address	Capital Stock	Funded	Cost Property	Revenue	Operating	Number of Tele- phones.	Empl Bernu	Employees and Remuneration.	Miles
· Canada and a same a same and a same and a same and a same and a same a same a same and a same and				Equipment.			Magneto.	No.	Amount.	Wire.
Saskatchewan—Con.		\$ cts.	& cf.x.	s cts.	e c(s.	cts.			\$ cts.	Miles.
North Antler Tel. Co	Antler	2,500 00		2,500 00	210 00		20			58.00
North Star Tel. Co	Wapella				30 00	25 00	Ξ	:		35 00
North Kisbey Tel. Co	Kisbey	5.075 00		7,119 00	00 256	218	÷ 6	_	365 00	90.55
North Craven Tel. Co	Craven	3,070 00		2,883 00	900		S 5			00.00
North Wideawake 1et. Co	For Cu Append	1,555,00			98		5 10			10.00
N. E. Weyburn Tel. Co.	Weyburn				22.00	121 00	11			21.00
Nutana Tel. Co	Saskatoon	00 006					-1			10.00
New Steinbach Tel. Co	Aberdeen	1,500 00					20			32.00
New Hastings Tel. Co	Moosomin	2,050 00		2,490 00			12			55 00
Nakomis Tel. Co	Nokomis			2,705 00	90 95 95		81		:	52.00
Newberry Tel. Co	Archive	3,375 00	i i	3,277 00	90 613		e e			00 %
Naisberry Tel, Co	Mellord		00 000 ::	7,730 00			5.00		90 93	00:01
Neidpath Tel. Co.	Herbert		25,000,00	26,040,00			07	1	2 6	560.00
New Imperial Tel. Co	Imperial		20,000,00	29,000 00	9, 190 00		P37			00.000
Morth Champhlaides Tel. Co.	Churchhridge		00 000 11	11 300 00	365 00		15	-	101 00	396.00
North Redvers Tel Co	Redvers		17,800 00	17,667 00	1,479 00		76			181.00
North Tyvan Tel. Co.	Tyvan		1,500 00	1,314 00	64 00		œ			20.00
North Benson Tel. Co	Benson		13,000 00	15, 108 00	578 00		55	_	300 00	178.00
New Deloraine Tel. Co	Davidson		10,000,00		169 00		55			178.00
Narrow Lake Tel. Co	Wilkie		14,000 00		907					218.00
North Forget Tel. Co	Forget		90 000 -	9,295 00	00 02		7 -			145.00
North Candiac 1 et. Co Noothy Tol. Co.	Kinling		3 300 00	3,300,00	100		25			51.00
North Laniesa Tel Co	Lanican		14,000 00	13,990 00	575 00		46			241.00
North Cevion Tel. Co.	Cevion		9,000 00	9,427 00	394 00		44			99.00
North Ernfold Tel. Co.	Erifold			3,700 00	165 09		14			51.00
North Tel. Co	Neudorf		4,000	4,020 00	20 00		14	:		51.00
Okobena Tel. Co	. Drinkwater	1,000 00					91			18.00
Oxbow Tel. Co	. Oxbow	10,000 00		10,546 00			103	_	00 009	341.00
Overbrook Tel. Co	. Eyebrow	2,100 00	:	2,130 00			6 유		:	28.00
Odessa Tel. Co	Odessa			11,159 00			69		:	149 00
Outram Tel. Co	Outrnm		4,800 00	4,838 00	145 00	2000	26			200
Q. K. Tel. Co.	Colgate			3,356 00			010		ON CS	20.00
Orange View Tel. Co	. Watrous			4,210 00			19		•	04 00

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Table 5.—Statement of Capital, Cost, Revenue, Operating Expenses, Number of Telephones, Wire Equipment, etc.—Con.

Sandress	Funded Property		Operating	phones.	Remuneration	ration.	Miles
Laird 5,800 00 Ponse	Debt, and Equipment	Kevenne.	Expenses.	Magneto.	No.	Amount.	of Wire.
Laird 5,800 00 Perse 700 00 Perse 700 00 Raymore 1,200 00 Review 1,000 00 Raymore 1,000 00 Ra	≪	% G G	\$ cts.			e cts.	Miles.
Ponse Ponse Notoniis Noto	5,100	200		100			116.00
No kounts No k		108					13.00
Raymore 1,200 00 Radentres 1,200 00 Raymore 1,200 00 Raymore 1,200 00 Raymore 1,200 00 Rection 1,200 00 Raddell 1,200 00 Raskatoon 1,200 00 Region 1,200 00 Raskatoon 2,500 00 Raskatoon 3,575 00 Saltcoats 1,500 00 Saltcoats 1,500 00 Saltcoats 1,500 1,500 1,500 Saltcoats 1,500 1,500 1,500 Saltcoats 1,500 1,500 1,500 Saltcoats 1,500 1,500 1,500 1,500 Saltcoats 1,500 1,500 1,500 1,500 1,500 Saltcoats 1,500	008.5		00 III	G :	:	:	74.00
Balcaures Balcaures Balcaures Balcaures Barit Courent Barit Couren	00.6	537 00	200 458			:	29:00 109:00
Swift Current. 8, 300 00 Rations 11,000 00 Rhein Riceton 12,000 00 Riceton 12,000 00 Semians 4,50 00 Curon 4,000 00 Similarook 12,000 00 Similarook 12,000 00 Rocklaven 12,000 00 Gainsboro 1,000 00 Cansolor 1,00	00 1,186	ž	35 00				00.61
Rhein Harmans Harman	8,300	1.5	111 00	255			121.00
Riceton 15,000 00 Benfait 6,200 00 Benfait 6,200 00 Caron 7,000 00 Caron 7,000 00 Carollyrook 7,000 00 Carollyrook 7,000 00 Carollyrook 7,000 00 Rocklaven 1,500 00 Rocklaven 1,500 00 Calollyrook 7,000	9 9	96 96 99	00 00		-		115.00
Bienfatt 6,200 00 Semans 4,450 00 Semans 4,450 00 Griffin 4,300 00 Carduff 5,500 00 Broadview 2,500 00 Rocklaven 11,500 00 Qu'Appelle 1,500 00 Cabri 1,000 1,000	00 000 11 000 00 21	1500	00 217			00 069	00.00
Nemans	=	330	138 00		-	00 070	00.7e5
Caron 4, 100 00 Outram 4, 300 00 Shellbrook 7, 000 00 Shellbrook 5, 500 00 Broad view 2, 500 00 Raddell 1, 500 00 Qu'Appele 1, 700 00 Cainsboro 1, 700 00 Cabri 1, 000 00 Cabri 12, 000 00 Cabri 8, 300 00 Regins 5, 600 00 Moosomin 8, 500 00 Salkatoon 8, 875 00 Saltcoats 6, 975 00	1,310	28.5 1.8.5	171 00				99
Cirilin Cirilin Cirilin Shellbrook Shellbrook Shellbrook Carnetuf Rocklaven Qu'Appelle Cainsbore Cainsbore Cirxelhour Chri Cravelhour Cabri Cravel Chri Cravel Crav	90 4,100	128	80 00				71.00
Outfram 5,000 Shellbrook 8,000 Broad view 5,500 Broad view 6,000 Rock laven 11,500 Qu'Appelle 1,500 Gainshore 1,500 Rose (own 1,500 Cabri 1,000 Cabri 12,000 Cabri 12,000 Caverliour 4,800 Chavelhour 4,800 Cabri 8,300 Cabri 1,200 Sakatoon 8,671,106 Sakatoon 8,560 Saltcoats 6,975	1,341	159	130 00				08.00
Surfuction Surfuction Surfuction Surfuction Surfuction Suppose	7,145		253 00		รา	120 00	186.00
Breadview 2,500 00 Ruddell 6,000 00 Ruddell 6,000 00 Qu Appele 1,500 00 Gansboro 1,700 00 Gabri 1,000 00 Gavan 1,000 00 Regins 1,000 00 Gavan 1,000	000.4 001.42	90 061	90 ss	T+		:	00.511
Ruddell 6,000 00 Rocklaven 1,500 00 Rocklaven 1,500 00 Cainsboro 1,700 00 Cabricon 1,000 00 Cabricon 1,500 00 Cabricon 1,500 00 Cabricon 1,500 00 Regins 1,500 00 Cabricon 1,500 00 Cabr	2,500	25	90 06			:	36.00
Rockhaven 11,500 00 Rockhaven 11,500 00 Gainshore 1,700 00 Cabari 1,000 00 Regina 1,200 00 Resistation 1,200 00 Govin 8,50 00 Moosonin 8,50 00 Saltcoats 6,975 00	00 5,989	305	227 00				80. † 8
Qu'Appelle 1,500 00 Qu'Appelle 1,700 00 Roselow 1,000 00 Cabri 12,000 00 Garavelhourg 12,000 00 Cabri 1,200 00 Cabri 8,300 00 Nosomin 4,500 00 Regina 4,500 00 Regina 4,500 00 Suskatoon 1,200 00 Govan 8,671 106 68 5,6 Saltcoats 6,975 00	00 12,385	347	321 00			100 00	200.00
Grainshorto Grainshorto Grainshorto Grainshorto Gabri Gabr	202.	9	85 00			:	16.00
Cabri Cabr	009.1	9	75 00				25.00
Gravelhourg 12,000 00 Aberdeen 4,800 00 Abril 8,300 00 Dubar 8,000 00 Moosomin 5,000 00 Govin 8,50 00 Govin 8,50 00 Govin 8,50 00 Govin 8,50 00 Govin 8,50 00 Sulkatoon 8,50 00 Govin 8,50 00 Sulkatoots 6,975 00	10,486	025	00 001		1	:	127.00
Aberdeen 4,800 00 Cabri, 8,300 00 Dubut 5,000 00 Moosomin 4,500 00 Regina, 1,200 00 Siskatoon 1,200 00 Govan 8,650 00 Solutooats 6,975 00	19,191	90 996	85. 85. 80. 80.		:	:	8
(*abri) 8,300 00 Dubac (*boto) 6,000 00 Regina (*boto) 6,671,106 68,5,6 00 Suskatoon (*boto) 8,650 00 Govan (*boto) 8,650 00 Saltcoats (*boto) 6,975 00	1,490	215	90 95	67			
Dubuc 5,000 00 Moosemin 4,500 00 Regina 1,200 00 Govin 8,650 00 Moosemin 8,650 00 Saktroats 6,975 00	0 6, 174	370	105 00				E 00.06
Moosonin. 4,500 00 Regina. 1,200 00 Govain. 8,630 00 Moosonin. 3,875 00 Saltcoats. 6,975 00	4,751	506	142 00				
Regina. 1,200 05, 671, 106 68 5, 6 1,00 00 1,200 00 1,00	4,500 00 4,000	248	182 00	61			
Suskatoon	5, 671, 106 68 5, 671, 106		472,831 37	*50,140	476 36	476 369, 365, 40 1	
Movsonim 3, 875 00 Saltcoats 6, 975 00	1,200	00 96 00	00 26	oo g			20.00
Saltcoats 6,975 00	10,117	2,104		3 9	-	:	
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*Including 11,383 operated by central energy.

Table 5.—Statement of Capital, Cost, Revenue, Operating Expenses, Number of Telephones, Wire Equipment, etc.—Con.

Miles	Wire.	Miles.	54.00	165.00 165.00	147.00	38.00	111.00	102.00	148.00	102.00	90.83 87.83	98:00 20:02	37.00	85.00	235.00	00.707	92.00	173.00	276.00	138.00	332:00 40:00								244·00 A		918 80:30 10:40
Employees and Remuneration.	Amount.	se cts.				:			2-10 00	200 00		575 00				:		216 00	:	:	:			:	161 00	00 TOT	36.00	25		220 00	
Emp a Remu	No.		• !						_	_					:	:		1		:						T	:-	1		21	
Number of Tele- phones.	Magneto.		31	56	40	14	3 3	1.00	61	33	11	3 E	11	31	4.5	20	280	09	. S4	S2 1	07	79	43	1 9	36	45	010	9	69	61	19
Operating	rapenses.	s cts.	94 00						1,068 00	1,021 00	26 00	26.00	234 00	204 00	00 969	00 150	339 00	348 00	167 00	28 00	115 00	457 00	165 00	74 00	150 00	91c 91c	98 86	75.00	405 00	1,480 00	215 00 298 00
Operating	Nevenue.	ets.	120 00		_	_	475 00 202	_				200 00				00 870															330 00 245 00
Cost	and Equipment.	s c(s.	4, 160 00	00 988 6			8,980 00					3, 497 00					6,720,00				15,670 00			12,868 00	7,598 00	4,620 00	1,204 00	769 00	7,335 00		7,495 00 4,298 00
Funded		& cts.	4,200 00	× 500 00	8,000 00	3,000 00	9,000 00	00 000 %	9, 500 00	8,000 00	2,700 00	3,600 000 000 000 000	2,700 00	6,000 00	17,000 00	16,000 00	200	14,000 00	20, 600 00	6,700 00	16,000 00	20,000,00		13,000 00		:		:	7,000 00	12,000 00	7,700 00 4,600 00
Capital	Ntock.	& c(s.																		- :								00 008			
	Address.		Kindersley	Indian Head	Ou'Appelle	Griffin	Strongfield	Melville	Lenev	Swanson	Swift Current	Wapella	Tyvan	Girvin	Storthoaks	Prince Albert	Girvin	Speers	Salvador	Marchwell	Shackleton	Shaunavon	Regina	Spy Hill	Stockholm	Tregarva	Carievale	Lugaske	Tantallon	Tessier	Davidson
;	Name of Company.	Saskatchewan—('on,	S. Valley Tel. Co	Squirel Hills Tel. Co	Starrs Point Tel. Co.	St. Elmo Tel. Co.	Strongfield Tel. Co	Success Tel. Co.	Suppreside Tel Co	Swanson Tel. Co.	Swift Current Tel. Co	Silverwood Tel. Co	C Trans. Tol Co	Sprattville Tel. Co.	Storthoaks Tel. Co	S. Prince Albert Tel. Co	S. Girvin Tel. Co	Spears Tel Co	Salvador Tel. Co.	Shallow Lake Tel. Co	Shackleton Tel. Co	Shaunavon-Pioneer Tel. Co	S. W. Rogins Tel. Co.	Spy Hill Tel. Co.	Stockholm Tel. Co	Tregarva Tel. Co	Thunder Creek Tel. Co	Tugaske Tel. Co	Tantallon Tel. Co	Tessier Tel. Co	Third Meridian Tel. CoThornfield Tel. Co

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Macoun. 2u'Appelle. Brinax. Frinax. Fyvan. Falmage. Ganigan. Neudorf. Fogo.	Unital Onital Regina Vanscoy Moosejaw	Estevan Venn Vandura Vibank Moosomin Saskatoon	Frobisher Frobisher Saskatoon Viscount Vanguard Kipling	Bladworth. Wolseley. Indian Head Indian Head Weyburn. Wilcox Weyburn Carnduff.	Lumsden Delisle Delisle Welwyn Welwyn Perdue Moosejaw Waldheim West View Graffell Moosomin Carlyle Waldheim
	Unity Tel. Co. Victoria Tel. Co. Vanscoy Tel. Co. Vernon Tel. Co.				

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Хипе оf Combany.	Address	Capital Stock	Funded	Cost Property	Rovenno	Operating Exnonsos	Number of Tele- phones.	Emp 1 Remun	Employees and Remuneration.	Miles
Confine				Equipment.		raylwing o	Magneto.	No.	Amount.	Wire.
Saskatchevvan—('on.		\$ cts.	æ €.	æ <u>c(x</u>	ets.	\$ cts.			& cts.	Miles.
Wheat Plains Tel. Co	Broderiek	3,850 00		3,850 00	504					86.00
Wilson Tel. Co.	Keeler	2,600 00	10 700 00	2,565 00	384 00	216 00	Sil		- 0	62.00
Watpole 161, Co	Warmon		7 900 00	12,509 00	0 10 10 10 10 10 10 10 10 10 10 10 10 10			_	00 0c	167 - 00
Wawola Tel. Co	Waynen		20, 200, 00	00 00 00 00	6 6	00 955 90 955 90 955				920.00
Wessells Tel. Co.	Govan		6,400 00	6,422 00	1,015	00 694				103.00
West Tel. Co	Lemberg		1,000 00	918 00	70	80				12.00
Westbrook-Gladwin Tel. Co	Theodore		5, 200 00	5, 145 00	903	107		:		74.00
W. Froude Fel. Co.	roude		3,700 00	2,423	9 9	122		:		44.00
W. Dangham 1et. Co	Changinam		7,000 00	0, 050 00	9000	405				999
Whitewood Tel. Co.	Whitewood		10,000,00	10, 125 00	90	1000	ी द		:	00.666
Whitewood-St. Hubert Tel. Co.	Whitewood		22,000 00	21, 225 00	693	268				267.00
Wilberforce-Lampman Tel. Co	Lampman		9,700 00	9,537 00	575	956				125.00
Wilcox Independent Tel. Co	Wilcox		00 00%	00 253	324 00	22.5	<u>s</u>			20.00
Willow IIII 161 Co.	Cinaman		0,200 00	0,200	190	04-1		:		104.00
Wood End Tel. Co.	Estevan		9,500		91.9	516				146.00
Wild Rose Tel. Co	Balcarres		2,200 00	2,225 00	110	7				31.00
W. Halbrite Tel. Co	Halbrite		4,000 00	3,677 00	=	3. 3. 1.		:		44.00
White Shore Tel. Co.	Landis		11,500 00	13, 105 00	988	145	22.5			183.00
W. Creystone 1el. Co	Wanchore		2,000 00	14, 342, 00 00 net, 4		0.75		:		30.00
W. Beverley Tel. Co.	Beverley		3,000 00	2,900 00	. S.	000				33.00
Weyburn Plains Tel. Co	Weyburn		15,700 00	15,827 00	729	501				238.00
Wheat Valley Tel. Co.	Success		4,500 00	4,225 00	2.10	187		:		45.00
Willow Heights Tel. Co	Battleford		21,500 00	19,18200	940	613		:		321.00
Yellow Grass Tel. Co	Yellow Grass	7,050 00		7,050 00	2,500	2, 100	165	_	1,800 00	396.00
Yorkton Tel. Co	York ton	9,900 00		10,000 00	. 605	Z ;				268.00
Young Tel. Co.	Young		13,500 00	13,500 00	678	258	<u>z</u>	_	479 00	450.00
Zolma Tol Co	MeNutt		6,000 00	5,685 00 7,888 00	88	30				00.80
Zangwell Tel Co	Vound		15,000,00	11 710 00	387					194.00
Zealandia Tel. Co.	Zealandia		13,000 00	12,596 00	565 00	360 008	26.			160.00
Total		831,339 008	3, 994, 681 68	831, 339 00'8, 994, 681 68 9, 792, 579 68 1,204,057 62 711, 829	1,204,05762	711,829 37	*13,657		644 405,664 40 186,155 00	186,155 00

†75,000 urban miles 111,155 rural miles (estimated). *Including 11,383 operated by Central energy.

SESSIONAL PAPER No. 20d Table 6.—Statement of Capital, Cost, Revenue, Operating Expenses, Number of Telephones, Employees, etc.

Employees and Remuneration.	Amount.	\$ ets.	3 39 90	2 8		6 00		1 10 00	91.00	00 17	33 00	100 00	00 001	3 00	10 00	0e zi = 1z	19 50		4 150 00			:	2 200 00		100 et	:	12 00 84		30 00	
Emj	No.																			:				1		:				:
Number of Telephones.	Central. Magneto		91,	o <u>22</u>	22	14 S	<u> </u>	7	<u> </u>	ē	35.		<u>+</u> 07	6	∞ ç	Ş <u>S</u>	9	21	<u> </u>	7 2	10	7	30	<u>6</u> .	212	3 5	255	×	<u>5.</u> 6	ì
Num Telep	Central.																							:				:	:	
Operating Expenses		s ets.	72 90			104 20					33 00										10 00		412 82		- 66 76I		115 00		00 0c	
Long	Receipts.	s ets.	06 79							91 15		00 65	20 00	:		17 77		:	:				:				10 00	- 0	00 0c	
Revenue.		s ets.	41 15			104 20 20 026		54 00	00 200		33 00			45 00					130 00				629 00		137 89		115 00		00 002	
Cost Property and	Equipment.	& cts.	1,144 10			1,934 17	_	870 00			1,100 00			430 00		885 00	1,062 63		2,000 00				3,284 00		150 00		350		234 00	
Funded Debt.		s ets.																					2,000 00							
Capital Stock.		s ets.	00 002	260 00	326 00	4,000 00		693 00		00 009	850 00	00 00%		360 00					00 000 1			200 00		00 029	00 002	3.795 00				
Address.			New Glasgow	Harbour Road	Athol	Laggan Bass River	Bayfield.	Pieton	Beaver Bank	Belleville North	Belmont	Big Lond Center	Broad Cove	Brookvale	Dalnousie West	Caledonia Mills.	Caledonia	Cape D'Or	Central New Annun	West River Station.	Chaswood	Owl's Head	Bayside	Port Shoreham	Cow Bay	Northport	Dean	Denmark	E. Chezzetcook.	
Name of Company.		Nova Scotia	Abercrombie Tel Co		Athol Tel. Co	Bass River Tel. Co., Ltd.	Bayfield Road Tel. Co	Bayview Tel. Co	Beaver Bank Tel. Co.	Belleville Tel. Co	Belmont Tel. Co Big Pend Centre Tel. Co	Blandford Tel. Co.	Broad Cove Tel. Co.	Bridgeteur & Peller	Brule Tel. Co. 14d	Caledonia Mills Tel. Co	Caledonia Tel. Co	Cape D'Or Tel. Co.	Central New Annan Tel Co	_	-		Coastal Tel. Co	awn Tol Co	-		-	Denmark & Middleton Tel. Co	0	_

Table 6.—Statement of Capital, Cost, Revenue, Operating Expenses, Number of Telephones, Employees, etc.—Continued.

<u>.</u> .	.	cts.		25	00	00			09	00	00					00	40 00		10 00	:	12 00		43 00	:	:	:	:	8			OF :≅	3	E	50 00 <	:	A. 8	1	91 :8
Employees and Remuneration.	Amount.	€	:	219 25			:	:	222							21	9	:	10		===		1 33	:	:	:	:	:	305 00	_					:	69	:	è
Emplo	No.			¢3	\$1	_			C.1	9	_					_	77	:	-		_		_			:		:		0	:-	•		÷3	:	23	:	: '
er of ones.	Magneto		Ξ	15	96	?°1	x	φ.	55	473	20	90	50	٣	200	7	06	18	=	5.	7	10	94	50°	.0 1	2 5	2 0	71 \$	200	1 -	<i>z</i> =	- er	66	212	œ	53	98 :	II
Number of Telephones.	Central. Magneto					-		:	:										:		:	:	:	:	:		:	:	:		:					:		:
Operating	Expenses.		45 17	985 46		78 03	65 00		524 60	3,855 90		2 30	00	57	53 00	92 75	86 40			15 00			00 54.			12 00			00 00		00 25		200			64 00	546 73	000
Long	Distance Receipts.	& cts.		26 00								07' 6	1	10.50			134 92			:		21			:			000	00 91	an ane	:		09 66		:		291 89	:
	Revenue.	\$ cts.	45 17	1, 188 23	975 27	78 03	65 00		555 97	72 700 10	00 27	08	6	00 66	00 26	12. 95	454 92	5 00	131 85	200 00	02 61		43 00		136 40	12 00		- 00 er	98 90	00 075	00 50	00 00	00 25	260 50	5 00	137 00		214 72
Cost Property	and Equipment.	& cts.	515 19	2,200 00	3, 810 58		00 002		00 006 6	077 76			200 000	135 00	200 00	355 00	9, 784 35	650 00		300 00	00 269		2,500 00	2, 422 71		_		200 X	00 001	5, ES 00	1,000 000 11,000 000				472 77	2,476 00	1,946 73	200 00
Funded	Debt.	s cts.																					:	:														
Capital	Stock.	\$ cts.		1.245 00	3,385 58	320 00	700 00	1.40 0.0	2				400 00	- 00 001		355 00			200 00										150 00	2,500 00l		100 001	120 00	200 00	472 77		1,712 50	
Address.)xford	Little Harbour	Springville	Cast Stewineke	Sast Victory	Cast Woodworth	The Rells	Crafton	Raddock Forks	Ctolloaton	For Harbour Point	Ton Dow	Honomeoli	Coffe	Grand Mira	River John	Bedford	Maccan	Uarmony	Pugwash	Scotsburn Station	Glassburn	Hillsbuffn		Hilden	Halifax	ndian Point	Arichat	Musquediboit Har	fordan Bay	Ordan Day	Cranville Ferry	Annapolis Royal	akevale	awrencetown	New Glasgow
Name of Company.		Nova Scotia—Con.	East Leicester Tel. Co		East River Tol Co		Sast Vietory Tel Co	Post Wontered Tal Ch	asse wellow of the reference of the Tollows	Rosessons Tol. Co.	Control Reddook Tol Co		FOX DECOME 101 CO	For Harbour 191, Co.		Coffee & Oldbow Tol Co			Hammonds Plains Tel. Co.				, o	Heathton Tel. Co	Hillsburn Tel. Co	illside Tel. Co	Hilden Tel. Co., Ltd	Hubbards East Tel. Co	ndian Point Tel. Co	sle Madam Tel. Co	Jeddore Tel. Co	Jordan Bay Let. CoJordan Bay	Jane Tel Co	Juangue rei, Co	Take La Rose Tel. Co	Lakevale Tel. Co	awrencetown Tel. Co Lawrencetown.	Linacy Tel. Co Ne

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orth Shore orth Shore orel	wer Stewiacke per Ohio rkville nherst nlesprings ndford rnal muth Alton pper South River W. Margance.
Tell Tell	Store Service Store
Lovatt Tel. Co. Saltsprings. Malagash Tel. Co. North Shore Maple Leaf Tel. Co. North Shore Mapleton Tel. Co. North Haliax Mapleton Tel. Co. I.camington. Leannington. Leannington	Riverside Tel. Co. Roseway River Tel. Co. Saleckville Tel. Co., Ltd. Salem Tel. Co. Santarings Tel. Co. Sandford & Short Beach Tel. Co. Springfield Tel. Co. South Alton Tel. Co. South River Tel. Co. South West Margaree Tel. Co.
Lovatt T Malagash Mailand Mailand Mailand Mailand Maritime Meddowr Meddole F Middle F Millsville Mi	Riversid Rosewa, Sackville Salem T Saltsprin Sandfore Springfie South R South R South R South R

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Table 6.—Statement of Capital, Cost, Revenue, Operating Expenses, Number of Telephones, Employees, etc.—Concluded.

· Creating of the contract	Address.	Capital Stock.	Funded Debt.	Property and	Revenue.	Long Distance	Operating Expenses.	Telephones,	ones,	Reman	Remaneration.
				Equipment.		Receipts.		Central, Magneto	Magneto	Zo.	Amount.
Nova Scotia—Con.		& ets.	& c1.6.	& .	ee 2 2	es.	s cts.				3 <u>.</u> 3 <u>.</u> 3.
St. Ann's Tel. Co	Quarry St. Ann's	: 0 : 0 : 0	00 00 0	600 00		27			<u> </u>		
	Buttes-Amirault	00 00+		61 062 i	88	- 2	00 75 25 E		: F	_	98 88 8
	Foney Mills	200 00		200 00			19 18		: 12		1
	Larrys River			00 016		32 00			50		
	Blue Mountain			30 00	29 29		747 777		3 =	71-	90 99
	Pugwash			00 OSS	3		99		:	-	¥ 21
Wallace River Tel. Co	Wallace Bay	550 00		550 00	90 ::	15 00	X 5.5		5	-	100
	Wallace Station.		:	90 00:	20 02		30 00		91		
:	Wentworth Station.	250 00	:	350 00	161 60		15 00		97	_	00 01
West Dover Tel. Co	West Dover		:	200 00	50 00	55 00	5 00		-		
:	River John	528 00		558 00	9	00 01	2 00		==		
	Western Head			550 60	23		117 +0		x		90 91
:	W. Middle River			90 907	00 57		45 00		5		
:	West New Annan	620 00		00 059	98 91	47.30	112 00		-1	_	21
:	Mink Cove	2,000 00		2.000 000	1,400 00	300 00	775 00		9	9	500 00
	Saltsprings	452 00		5.809 00	517.20		56 00	_	5.0	_	36 00
-	Greenville Station.	260 00	360 00	59 680.1	150 00		00 001		<u>x</u>		
:	White Rock	303 56		504 56	62.58		62 58		c		

Table 7.—Statement of Wire Equipment—Urban and Rural,

				Urban.					Rural.		
Name of Company.	Åddress.	Cal- vanized		ddo,)	Copper Wire.		Gal- vanized.		addo,)	Copper Wire.	
	The second secon	Single Wire.	Single Wire.	Over- head.	Under- ground.	Sub- marine.	Single Wire.	Single Wire.	1	Over- Under- Sub- head, ground, marine	warine.
Now Scotia.		Miles.	Miles.	Miles.	Miles.	Miles,	Miles.	Miles.	Miles.	Miles.	Miles.
Abergombie Tel. Co.	New Glasgow.	:					00·15				
Antigonish Harbour Tel. Co	Harbour Road						200 x				
Athol Tel. Co.	Athol		:				19.00				
Bass River Tel. Co., Ltd	Bass River						5.50				
Bayfield Road Tel. Co	Bayfield					•	90.0		:	:	
Bayview Tel. Co Rongon Hill & Milburn Tel. Co	Ficton						22.00				
Beaver Bank Tel. (10.	Beaver Bank						00 IS				
Belleville Tel. ('o	Belleville North Belmont					: :	90.00		:		
Big Pond Centre Tel. Co.	Big Pond Centre						80 · 151				:
Blandford Tel. Co	Hubbards.	:					00.12				3.50
Broad Cove Tel. Co.	Broad Cove						9 9				
Bridgetown & Dalhousie W. Tel. Co.	Dalhousie West						20.00				
:	Tatamagouche	:					13.50		0.50		
Caledonia Mills Tel. Co	Caledonia Mills	:					00·17:		:		
Cape D'Or Tel, Co	Cape D'Or						00.9				
Carleton Tel. Co., Ltd	Kemptville	:			:	:	20.00		:		:
Central New Annan Tel. Co	Central New Annah West River Station						26.00				:
Chaswood Tel. Co	Chaswood						25.50				
Clam Harbour & Owl's Hd. Tel. Co	Owl's Head		:				20.00			:	
Coastal Tel. Co.	Bayside						35.00				
Chedabucto Tel. ('o.	Port Shoreham		:				90.58				
-	Cow Bay		:				00.11				
Cumberland Tel. Co	Northport						1:10:00				
Dean Tel. Co., Ltd.	Dean						S 00	0.50		:	
Denmark & Middleton 1et. Co	Penmark				:		98.7			:	:
East Chezzetrook Tel. Co.	E. Chezzeteook						5.50				

Table 7.—Statement of Wire Equipment-- Urban and Rural -Continued.

Address. vanized Single Mure. Miles.
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00-211						
11,989.00						
12,880.00						
,566.00 2,287.00						
1,566.00						
Annapolis Royal. Lakevale. Lawreneetown. Lawreneetown. New Glasgow Hopewell. Saltsprings. North Shore. Noel. Merigomish Merigomish Haliaw.	St. Andrews	Hunter's Mountain Milford Scotsburn Mineville Weatherly	Murenyvine Musquobodoit Ilarbour. Elmsdale. Tatamagouche. New Albany.	New Jartfe Hartfe Arisai		
Lake La Rose Tel. Co. Lakevale Tel. Co. Lawrencetown Tel. Co. Lorne Tel. Co. Lornat Tel. Co. Lornat Tel. Co. Malagash Tel. Co. Mailand & Noel Tel. Co. Maple Leaf Tel. Co. Mapleton Tel. Co. Maritime Telegraph & Tel. Co.		Middle River & Hunter's Mt. Tel. Co- Millord Tel. Co	Aurentyvine 1et. Co. Nine Mile River & Rawdon Tel. Co. New Truro Road Tel. Co. New Albany Tel. Co. New Comwall Tel. Co.	New Ross Tel. Co. New Tusket Tel. Co. New Victoria Tel. Co. North Shore Tel. Co. North Wallace Tel. Co.	Ostrea Tel. Co- Paradise West Tel. Co. Pleasant Valley Tel. Co. Port La Tour Tel. Co. Port Lorne Tel. Co. Port Medway Tel. Co.	Princeport Tel. Co. Pugwash Junction Tel. Co. River Dennis Tel. Co. Riverside Tel. Co. Roseway River Tel. Co. Sadexille Fel. Co., Ltd. Salem Tel. Co. Saltsprings Tel. Co. Sandford & Short Beach Tel. Co. Springfield Tel. Co.

Table 7.--Statement of Wire Equipment - Urban and Rural- Concluded.

		_		11.1	Triber				Rural		
Name of Company.	Address.	Gal- vanized.) ddo.)	Copper Wire.		Cal- vanixed.		Copper Wire.	Wire.	
		Single Wire.	Single Wire.	Over head.	Under ground.	Sub- marine.	Singl: Wire.	Single. Wire.	Over- head.	Single, Over- Under Wire, head, ground,	Sub- marine.
Nova Scotia-Con.		Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.
South West Margaree Tel. Co	S. W. Margaree.		:				23:50			:	:
St. Andrews Tel. (50.	Stewnseke Onewer & Ann's	:					92.22		:		:
St. Mary's Tel. (5)	Clenelg						00.01				
Surrettes Island Tel. Co.	Buttes-Amirault.						15-50			:	:
Toney River Tel. Co	Toney Mills	:					71.00				:
Union Tel. Co.	Blue Mountain					-	90.15				
Upper Sackville Tel. Co	Sackville.						00.51				-
Wallace Bay Tel. Co.	Pugwash		:				90 · 9 ·				
Wallace River Tel. Co	Wallace Bay		:				00 S				:
Wentworth Valley Tel. Co	Wentworth Station	:					80.0				
West Dover Tel. Co.	West Dover						50.00				
Westerly Tel. Co	River John	3	-		:		13:00	:	:	:	-
Western Head Tel. Co.	Western Head.			:	:		9 9 9 9				:
West Many Annan Tol. Co	West Now Appen	:	:	:			00.70			:	:
Westport & Digby Tel. Co.	Mink Cove						20.08	90 98			5.00
West River Tel. Co.	Saltsprings					:	99.75				
West Wentworth Tel. Co.	Grenville Station							:			:
White Rock Tel. Co	White Rock	:			:		00 x	:	:		
Total		1.866.00	2.787.00	1,866.00 2,787.00 12,880.00 11,989.00	11,989.00	117.00	1	11,668-504,870-75	417.50		41.00

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Table 8.—Statement of Capital, Cost, Revenue, Operating Expenses, Number of Employees, etc.

Employees and Remuneration.	Amount.	s cts.	50 00 30 00	15 00	88 88 88	0000	1.070 00		151	00 501.0	950 00	34 85	325 00 8 8 8	Or or	461 211, 117 24				203 00		50 00	00 003	96.50	200 002	3	175 00	508 219, 585 70
Emple	No.		÷1 −	-	- 0.	1	r +r	:		n :	::	01	-:-	-	194			:	-	:	-		. 3	101	_	***	508
ber of nones.	Central Magneto		57.55	, 	9 6	= 1	250	7.7	22 6	7	155	0+	10.0		7,369	25	# G	1 40		21	£ 5	7 15	9	140	06	81	9,304
Number of Telephones.	Central.											:			11,353												11,353
Operating Expenses		s cts.	350 00 55 00	15 00	8 15 8 8 8 8	100 00	2,011 65	9	1 968 07		1,563 82		17. 27.			00 00	00 27		627 90		90 00			700 00			359,801 63
Long	Receipts.	\$ c(s.	25 00	5.5	00 07						207 00		287 55		19 809 68			55 36				00.002	00 66	100 00	06 +9	15 00	90,767 94
Revenue.		& C.S.	400 00 150 00			256 85	3,514 93	02.5	11 796 9		2,514 87	125 70	1,052 55	90 99	363,899 21 189,		38	150 36	1,613 68		200	00 005 1	72.71	1,400 00		330 00	85, 438 03 1
Cost Property	Equipment.	№ C‡S.	3,000 00	1,937 00	2, 500 00 2, 500 00	2,050 00	13, 387, 39	768 00	175 00 39 208 55	00 007		999 53	4,747 95		85	1,250 00	00 000		3,720 00	250 00	1, 900 00 874 00	4 000 4	1.503 80		200 00	2,000 00	57,800 00 2,189,325 07 385,438 03 190,767 94 359,801 63
Funded Debt.		& 2 3	5,000 00	2,700 00		00 009									45,500 002							4,000.00					57,800 00
Capital Stock.		& ∑ x	4,000 00	1,937 00	2,500 00	1,350 00	13,387 39		19 161 96		6,250 00	1,000 00	90000		1,423,460 00	1,250 00	00 000		3,490 00	00 000	240 00	3, 500, 00	1,050 00	7,000 00	200 00	1,000 00	1,512,252 69
Address.			RogersvilleAdamsville	Hatfields Point	Hoyt Station	Jemseg Fosterville	Bath	Corn Hill	Burtes Corners	Flume Ridge	Grand Manan	Polleyhurst	Long Keach	Fredericton	St. John.	Norton.	Ponobecquie	St. John	St. John.	Bonny River	Tracy Station	Lord's Cove	McDonald's Point	Debec	Harvey Station	Young's Cove Road	
Name of Company.		New Brunswick.	Acadia Tel. Co Adamsville Tel. Co., Ltd.	Belleisle Bay Tel. Co.	Blissville & Petersville Tel. Co	Cambridge Tel. Co., Ltd. Canterbury & North Lake Tel. Co.	Consolidated Tel. Co., Ltd.	Corn Hill Tel. Co	Dorn Kidge Let. Co. Farmers' Tel. Co.: Lid	Flume Ridge Tel. Co.	Grand Manan Tel. Co., Ltd.	Jerusalem Mercantile Tel. Co.	Mingston Fennsula 1et. Co., Ltd. Morehouse-Blackville Tel. Co., Ltd.	N. B. Coal & Railway Co.	N. B. Tel. Co., Ltd.	Norton & Springfield Tel. Co	South Branch Tel Co	St. Martin's Ry. Co. Tel. Line	St. Martin's Tel. Co., Ltd.	Suffivan Tel. Line.	Tracy Tel. (0. Wellsford & Hamstead Tel. Co.	West Isles Tel. Co.	Wickham & Springfield Tel. Co.	York & Carleton Tel. Co	York & Charlotte Tel. Co., Ltd	Young's Cove Road Tel, Co	Total

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Table 9.—Statement of Wire Equipment—Urban and Rural.

Rogersville Single Single Sungel Single Single Sungel Single Sungel Single Sungel Sung						Kurai.		
Single Nire. Valansville. Rogersville. Adamsville. Haffield Point Berry's Mills. Hoyt Station. Low Vation. Corn Hill. Bartla Corners. Hartland. Franch Mann. Corn Hill. Grand Mann. Corn Hill. Grand Mann. Franch Station. Corn Hill. Bartland. Franch Station. Corn Hill. Bartland. Bartland. Franch Station. Corn Hill. Bartland. Bartland. Franch Station. St. John. St. John. St. John. St. John. St. John. St. John. Bomy River. Francy Station. Wellsord. Cord's Cover.	addo,)	Copper Wire.		Gal- vanized		3	Copper Wire	
Rogersville. Rogersville. Haffield Point Berry's Mills. Lloyt Station. Lemseg Fosterville. Bath Corners. Hardand. Barth Corners. Hardand. Crim Hill. Burnts Reige. Crim Manan. Polleyturst. Long Reach. Morchouse. Fredericton. St. John. Wellsbore. Penobsquis. St. John. gle Over- re. head.	Under- ground.	Sub- marine.	Single Vire.	Single Wire.	Over- head.	Under- ground.	Sub-	
Rogersville. Adamsville. Berrifield Point Berrifield Point Berrifield Point Berrifield Point Loyr Station. Long Station. Barliand.	es. Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.
Mamaxille. Magnesville. Haffield Point Hayer Station. Lensey Posterville. Bath Com Hill. Bartland. Hardand. Hardand. Flume Ridge. Clend Mann. Clend Mann. Polleyhurst. Long Reach. Morehouse. Fredericton. St. John. Bonny River. Tracy Station. Bonny River. Tracy Station. McDonald's Point.				1				
Adamsville. Haffield Point Berry's Mills. Hoyt Station. Lemsey Fosterville. Bath Corners. Hartland. Franch Hill. Franch Gride. Crimd Manan Polleyturst. Long Reach Morehouse. Fredericton. St. John. No. 1 Hillsboro. Penobsquis. St. John.	:	:	:	00.00	:	-	:	:
Berry Mills. Hoyt Station. Hoyt Station. Hoyt Station. Fosterville. Bath Corn Hill. Bartland. Frand Mann. Cleythurst. Long Reach Long Reach Nordons. Fredericton. St. John. St. John. St. John. St. John. St. John. Walsord. Francy Station. Francy Station. Corn St. John. Bomy River. Knew Station. Corn St. John. Bomy River. Corn St. John. Bomy River. Corn St. John. Bomy River. Corn St. John. Bomy River. Corn St. John. Bomy River. Corn St. John. Bomy River. Corn St. John. Bomy River. Corn St. John. Bomy River. Corn St. John. Bomy River. Corn St. John. Bomy River. Corn St. John. Corn St. John. Bomy River. Corn St. John.	:	:	:	3	:		:	:
Horry's Mills. Horry's Mills. Lensey Pasterville Bath Com Hill Burtls Corners Hardand Flume Ridge Grand Mann Pluge Reach Nordonse Fredericton St. John. St. John. St. John. St. John. St. John. St. John. St. John. Bonny River. Tracy Station Webonald's Point Lord's Gove	-	:	:	00			-	:
Hoyt Statton. Hemseg Fosterville Bath Can Hill. Burtts Corners. Hardand Funne Ridge Grand Manan Polleytuast Long Reach Morehouse Fredericton St. John. St. John. St. John. St. John. St. John. St. John. St. John. St. John. St. John. St. John. St. John. St. John. St. John. St. John. St. John. St. John. St. John. St. John. Lord's Cove.		:	:	9	:			:
Hemsey Posterville Bath Bath Barths Corners Barths Corners Hardand Hardand Finand Mann Colleyhurst Long Reach Northouse Fredericton St. John Norton Hillsboro Penobsquis St. John Bomy River Tracy Station Wellsford Lord's Cove	***			18.00	-	:		:
Posterville Badf Corn Hill Bartlas Corners Hartland Flame Rulge Crand Manan Polleytuast Long Reach Morelouse Fredericton St. John St. John Norten Hillsbore Pendbsquis. St. John St. John Bomy River Tracy Station Wellsford Lord's Cove	-		:	00.17		:	:	2.2
Bath Burtland Burtland Hartland Funne Ruige Grand Manan Polleytuast Long Reach Morehouse Frederiction St. John No. John No. John St. John No. John Rillsbore Penobsquis St. John St. John Willsbore Penobsquis St. John St. John Malbardis Lord's Gove Lord's Gove	:			20.00			:	:
Barits Corners Barits Corners Hardand Flume Ridge Crand Mann Colleyhurst Long Reach Norton R. John St. John Norton Hillsboro Penobsquis St. John St. John Walsord Long Rice Crang Reach Norton Willsboro Penobsquis St. John Bomy River Tracy Station Wellsord Lord's Cove		:	:	00.000	-	:	:	:
Burtlas Corners Hardand Flame Ridge Grand Manan Clend Manan Clend Rette Complexity Flame Flamest Long Rette Nordon. St. John. Bonny River. Tracy Station Wellsford. Lord's Gove	-		-	<u>S</u>			:	:
Hartland, Flume Ridge Grand Mann Calleylurst Lough Reach Moreleouse Fredericton St. John Norton Hillsboro Penobsquis St. John St. John St. John St. John With Styler Fredericton Bonny River Tracy Station Welsford Lord's Gove				3 ×		:	:	:
Flume Ridge Cleythurst. Long Reach Long Reach Morehouse. St. John N. John M. Langy Station Methonald's Point		:		00 600	99-11			:
Cfrund Mannan Cfrund Mannan Pulleyhurst Long Reuch Nordwase Fredericton St. John. St. John. St. John. St. John. St. John. Bonny River. Tracy Station Wellsford Lord St Gove	-	1		90.21			:	
Pollcyturst. Long Reach Morchouse. Fredericton St. John. Norton Hillsboro. Hillsboro. St. John. St. John. St. John. Welsey Stien. Welsey Station. Welsey Station. Welsey Station. Lord & Gove. MeDonald's Point.		:		00 ::				:
Loug Reach Morehouse Frederiction St. John Norden Hillsbore Pembsquis. St. John St. John St. John St. John St. John Mullsbore Lord's Gove Lord's Gove				90.01				
Morehouse. Prederiction St. John Bonny River Tracy Station Uracy Station Lord's Gove Lord's Gove McDonald's Point				90.++				:
Fredericton St. John Norton Hillsboro Hillsboro Renobsquis. St. John St. John Herry Renopsquis. St. John Lord River Lord & Cove	-		-	9 9 9 9			:	:
St. John. Norton Hillshore. Penobsquis. R. John. St. John. St. John. Wirsey Station. Versey Station. Welsford. Lord's Gove.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
Norton. Hillsboro. Penolosquis St. John. St. John. K. John. Wellsford. Wellsford. Lord's Cove. Malomald's Point.	776, 85 6, 222 - 59 6, 287 - 80	0.187.0	-02:	-	508 SO 1, 525 OC			90.95
Hillsboro Penebaquis St. John St. John St. John Tracy Station Wellsford. Lord's Cove.	-	1	-	90.00			:	:
Penobsquis. St. John. St. John. Bonny River. Trevey Station. Wellsford. Lord's Cove. McDonald's Point.				4:3.00		1	:	:
Sk. John St. John Bonny River. Tracy Station Wellsford. Lord's Cove.				00.		:	:	
Sf. John. Bonny River. Tracy Station. Wellsford. Lord's Cove. Deff. Reported to the control of t				00.0:				:
		-	-	47.00	90::	:	:	:
	-	:		9			:	:
		:	:	50.00	:		:	:
			Ī	3:				
	-	:		00.0	20.00	:	:	99-00
	:			00.01				:
York & Carleton 1et. Co.	1	:	-	99	:		:	:
York & Charlotte Let. Co., Little	:		:	14.00				

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25 00 50 00 10 00 1,825 00 2.460 00 10 00 01: 609, 619 34. 1,900 00 4,103 90 Employees and Remuneration. Amount. Table 10.—Statement of Capital, Cost, Revenue, Operating Expenses, Number of Telephones, Employees, etc. No. Central, Magneto 928 55.57 200 Number of Telephones. 31,110 3,088 47 408,520 81 323 07 12,579 57 20 00 875 00 00 09 00 05 140 00 140 00 100 00 Ξ 000 \$0 3 200 8 9 9 20 00 Operating Expenses. 24 2,386 Long Distance 4,702 70 1,103 53 476,855 39 365,295 00 47 00 96 25 255 00 Receipts. 18.089.51 18.081.21 s ets. 133 60 20 00 75 00 888 888 888 110 00 ,575 00 535 60 129 99 9 7.540 96 3 9 200 00 2 000 200 20 00 Revenue. 159 <u>×</u> 9,675 00 400 00 149 20 350 00 390 00 80 00 \$ cts. 2,087 50 100 00 550 00 10, 760, 941 87 1,200 00 66,000 00 1,800 00 260 00 400 00 3 1,500 00 325 00 7,822,00 1,350 00 00 002 00 000 48,054,03 Equipment. Property 68.167Cost and 45,000 00 10,760,941 87 66,000.002,000.0065,000,007 Funded Debt, 700 00 300 00 800 00 800 00 7,500 00 9000 7 Capital Stock. 99 Crystal City.... Dugald..... Meadow Vale. Snowflake.... Boissevain... Address Clearwater... Pilot Mound. Winnipeg..... Sanford Reston.... Deloraine... Dugald.... Deloraine... Deloraine... St. Anns. Miniota.... Ougald.... Mariapolis. Dugald.... Dugald.... Oak Bank. Plympton. Dugald. Maedonald Tel. Co. Municipality Manitoba Govt. Telephones. Jugald Tel. Co. Line 23. Percy Tel. Co. Pipestone Municipal Tel. Co. Municipal Tel. Co..... Oak Bank Tel. Co.... Mountainside Tel. Co... Name of Company. Bidford Farmers Line..... die-Morrison Tel. Co.... Cowaneroft Tel. Co..... Louise Tel. Co..... Independent Tel. Co.... Jonsboro Tel. Co.... Manitoba. Louise Tel. Asso.

10 65 00 099 SS 088.5 2,152 00 3,376 55 50 00 1,487 935,537 18, 737 31.110 18 00 11,142,604 341,543,257 64 372,004 091,459,558 52 00 07 9 220 64 7 092 21 1 5,487 20 12,971 150 00 946 96 Ξ 55 1,691 976 18 00 13 88 1 8 3 92 3 00 97 143 00 055 22.9 12,894 1,300 00 56,823 00 2,500 00 13,000 00 00 001 350 00 450 00 88 Ξ 4 3 8 56,82311, 106, 941 87 8 43,000.0070,000.0055,000 26, 130 29 3333 ş 000.1 1,050 1,823 22 St. Rose du Luc Steinbach.... Winnipeg.... Wood Bay... Woodlands Franscona. Dugald.... Prinpton. Virden.... Deloraine. Vinkler.. Belmont. Neepawa Robertson Tel. Co.....Rosewood & St. Anns Tel. Co... Woodworth Municipal Tel. Co.. South Transcona Tel. Co..... Steinbach Tel. Co.... Stratheona Municipal Tel. Co. St. Rose du Lac Tel. Co.... Suthwyn Tel. Co.... Thirlstane Tel. Co.... Prairie Grove Tel. Co..... Wallace Municipal Tel. Co. Woodlands Tel. Co., Ltd. Union Farmers Tel. Line. Total..... Wilson Tel. Co..... Wood Bay Tel. Co.. Plympton Tel. Co. Winkler Tel. Co. Union Tel. Co..

Table 11.—Statement of Wire Equipment—Urban and Rural.

Address.	Gal- vanized		Coppe	rbam. Copper Wire.		Gal- vanized.		Coppe	rat. Copper Wire.	
	Single Wire.	Single Wire.	Over- head.	Under- ground.	Sub- marine.	Single Wire.	Single Wire.	Single Over- Wire, head.	Under- ground.	Sub- marine.
	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.
Deforaine Dugald Clearwater Deforaine Ingestd			:			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
Pilof Mound Dugald Pilof Mound Crystal City Snowflake.	25.		00 21			0.5 5.0 0.0 5.0 0.0 5.0 0.0 0.0 0.0 0.0				
Sanford Minnipeg Mariapolis Miniota Deloraine Oak Bank		52× 00	52× 00 36,655 00 73,359 00 200 00	73, 359, 00		297 000 46,572 00 13,646 00 22 00 13 800 00 12 00 56 00 5 00	13,646 00	8		:
Dugald Dugald Reston Plympton Mendow Vale Boissevain	90 m		90 87		· · · · · ·	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5				:
St. Ann's. Transcont Steinbach Belmont. St. Rose du Lac. Winnipeg.			25 00			00 00 00 00 00 00 00 00 00 00 00 00 00				: : .
Neepawa. Plympton. Virden. Dugald.						1,200 000 1,200 000 5,000 000 14,000				

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;	SE	SS	ION
			:
		:	1.00
	:		3,658.00
12 50	1,042 00	55 00	52,014.50 13,658.00
			73,359.00
			28.00 528.00 36,920.00 73,359
			528.00
			28.00
Wood Bay.	Kenton	Wooduands	
Wood Bay Tel. Co	Woodworth Municipal Tel. Co	WOOGIGINGS I'CL' V O., LING	Total

Table 12.—Statement of Capital, Cost, Revenue, Operating Expenses, Number of Telephones, Employees, etc.

Employees and Remuneration.	No. Amount.	.e. ℃.ee.	30 00	163 403, 228 03	55 54,857 30	00 08	15 00	130 00	7 3,537 38	530 462, 267 80
	1		12	16,982	i-	: 9	33	S	268	17,395
Number of Telephones,	Central, Magneto			866. H	8, 269 8, 269		:		:	20, 267
Long Operating istance Expenses.		æ.	30 00	593,748 63	1,719 27 65,210 34		150 00		9,067 10	669,005 07
:	Receipts.	€.		162, 599 56		200 15			3, 11 68	167,726 96
Revenue.	1	<u>√.</u> U	1 00	650,320,62	231, 157 02	181 00	150 00	135 98	8, 120 31	\$91,116.95
Cost Property and	Equipment.	&	1,101.00	9,340, 199, 98, 9, 166, 151, 03, 650, 320, 62, 162, 599, 56, 563, 748, 63	1,916,710 52 1,763,633 31 231, 157 02	HI, 778 HS	1,410 00	6,000 00	25,340 60	130, 054 00 11,256,910 50 10,998,830 29 891,116 95 167,726 96 669,005 07
Punded Debt.		ee T		3, 310, 199 98	1,916,710 52					11,256,910 50
Capital Stock.		e⇒	1,692 00		5,000,00	24,700 00	1,462 00	6,000 00	91,300 00	130,054 00
Address.			Crossfield	Edmonton	Patraonton	Lake Saskatoon	Aeme.	Shandro	Red Deer	
Name of Company.		Alberta.	Crossfield & Samstown Tel. Co	Govt. of Alberta Tel. Lines.	Olds Independent Tef. Co.	North Western Tel. Co., Ltd	Rumworth Tel. Co.	Shandro Tel. Co., L.dd	Western General Electric Co., Ltd.	Total

*Automatic.

Table 13.—Statement of Miles of Wire Equipment—Urban and Rural.

	.60	Single Over- Under- Sub- Wire, head, ground, marine.	iles. Miles.	
ral.	Copper Wire.)ver- Un read. gre	Miles. Miles.	
Rural		Single Wire.	Miles.	2,056 00 230 00 3 00 57 00 12,406-00
	Gal- vanized.	Single Wire.	Miles.	35, 988-00 2,056 00 200-00 27-00 27-00 27-00 27-00 36, 201-50 27-00 36, 201-50 2,406-00 36, 201-50 36, 201
		Sub- marine.	Miles.	
	Wire.	Under- ground.	Miles.	3,404.00 (81.00 25,624.00 23,726.00 16,283.00 34,156.00 165.00 12.00 206.00 3,569.00 706.00 42,113.00 57,882.00
Մբիաս.	Copper Wire.	Single Over- Wire, head.	Miles.	25, 624-00 23, 726-00 16, 283-00 34, 156-00 206-00 42, 113-00 57, 882-00
		Single Wire.	Miles.	691.00
	Cial- vanized	Single Wire.	Miles.	3,404.00 165.00 3,569.00
	Address.			Crossfield Edmonton Edmonton Idake Saskatoon Arme Arme Almdro Red Deer
	Name of Company.		Alberta.	Crossfield & Samstown Tel. Co. Govt. of Alberta Tel. Lines. Edmonton, City of, Tel. Dept. Olds Independent Tel. Co. North Western Tel. Co. Shanworth Tel. Co. Western Greer Goerer Western General Electric Co., Ltd.

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Table 14.—Statement of Capital, Cost, Revenue, Operating Expenses, Number of Telephones, Employees, etc.

Colored Colo												
S cts Ct	À a c	Addross	Capital	Funded	Cost Property	Rosessing	Long	Operating		er of ones.	Emplo Remu	Employees and Remuneration.
Vancouver. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. Chiliwack. 45,743 00 2,500,000 00 2, 133,333 33 6,222,189 85 1,217 680 38 172,284 11 1037,476 96 1,033 22 1,034 20 1,035 20 1,033 22 1,033 22 1,034 20 1,035 20 1,035 20 1,035 20 1,034 20 1,035 20 1,035 20 1,035 20 1,035 20 1,035 20 1,035 20 1,035 20 1,040 20 1,035 20 1,035 20 1,035 20 1,035 20 1,040 20 1,040 20 1,040 20 1,040 20 1,040 20 1,040 20 1,040 20					Equipment	The second secon	Receipts	rapellaces.	Central.	dagneto	No.	Amount.
Vancouver 2,500,000 00 2, 133, 333 3, 292, 189 53 1, 217 680 38 172, 284 11 1037, 476 96 38, 035 29 Chilliwack 45, 743 00 21,700 00 9, 381 56 1, 905 61 1, 682 29 1, 671 48 6, 361 29 20 Ladner 11, 809 00 14, 692 86 3, 820 00 2, 226 00 114 20 114 20 Prince George 40, 900 00 31, 000 00 170, 127 28 19, 173 67 15, 888 32 26, 235 34 114 20 Prince George 40, 900 00 31, 000 00 170, 127 28 19, 117 30 3, 699 95 11 New Westminster 40, 500 00 10, 000 00 32, 234 46 23, 800 29 11, 634 21 11, 634 31 Prince Rupert 10, 505 00 10, 000 00 11, 661 46 23, 800 29 4, 940 29 818 56 Revelstoke 52, 616 31 10, 805 00 12, 504, 332, 33 1, 00 10, 111 12, 504, 33 1, 310, 00 1, 310, 00 1, 310, 00 1, 310, 00 1, 310, 00 1, 310, 00 1, 310, 00 1, 310, 00 1, 310, 00 1, 310, 00 1, 310, 00 </td <td>ubia.</td> <td></td> <td>æ. </td> <td></td> <td>y. €</td> <td>& cts.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>e⇒ 2.5.</td>	ubia.		æ. 		y. €	& cts.						e⇒ 2.5.
Creston. 21,700 00 9,381 56 1,905 61 1,088 22 1,14 20 2,225 00 2,225 00 14,622 86 3,820 00 114 20	l. Co., Ltd	Vancouver	2,500,000 00 45,743 00	2, 133, 333, 33	5, 222, 180, 85 59, 907, 25	1,217 680 38 11,773 36	172,284 11 1,071 48	1037,476 96 6,361 29		1,005	25 25 x	843 602,358 36 8 4,622 35
Prince George	1115	C'reston Ladner Edgewood	21,700 00 11,800 00 845 00		9,381-56, 14,692-86 2,220-00			1,088 22 2,225 00 114 20		88 71	च रोश	888 00 1,255 00 82 40
Narson Alexandria Alex	s, Ltd		126,580 00		52, 137 12 170, 127 28	6,010 19,773	15,888	5,728 26,235		162	+ 5	3,726 1: 14,127 70
Cheesnel	Ltd Tel. System	Mission City New Westminster Prince Rupert	11,780 00		397,781 62,781 62,524 6		10, 117	5,64 1,464 1,64 1,64 1,64 1,64 1,64 1,64		1,744	a 8 5	1,869 80 16,817 34 9,787 20
Notch Hill 1,085 00 1,350 1,351 55 147 00 60 81 181 2,501 33,351 35 7,059,666 89 1,345,073 65 199,848 80 1126,264 15 38,719 8, Dawson 65,000 00 176,179 78 32,363 29 16,439 67	ake & Big Bend	Quesnel Revelstoke	10,505 00			x x x x x x x x x x x x x x x x x x x		818		100	\$1 'G	607 50
Dawson. 3,224,054 31 2,504,333,7,059,666 89 1,345,073 65 199,848 80 1126,264 15 38,719		Notch Hill Ucludet.	1,085 00		900 000					28		
. Dawson			3,224,054 31	2, 504, 333, 33	7,059,666 89	1,345,073 65	199,848 80	1126,264 15		8,729	826	939 658, 387 55
. Dawson 65,000 00 170,179 78 32,363 29 16,439 67	crritory.			V								
	te	Dawson	65,000 00		170,179 78			16, 439 67	:	300	1-	9,934 00

Table 15.—Statement of Miles of Wire Equipment—Urban and Rural.

		Sub- marine.	Miles.	884 00 6 25 890 25	:
	. Wire.	Under- ground. marine.	Miles.	14 00 129 00 143 00	:
Rural.	Copper Wire.	Over- head.	Miles.	352 00 352 00 136 00 1,092 00	48 00
I		Single Wire.	Miles.	2, 520 00 4, 345 00 604 00 2, 520 00 193 00 2, 52 00 2, 50 00 2, 5	
	Gal- vanized.	Single Wire.	Miles.	2, 520 00 623 00 193 00 193 00 100 00 505 00 269 00 236 15 291 00 22 00 25 50 25 50 25 50 26 15 27 10 28 15 28 10 28 10	319 00
		Sub- marine.	Miles.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Copper Wire.	Under- ground.	Miles.	43, 839 00 11 00 25 00 25 00 3 00 43, 839 00	
Urban.	Coppe	Over- head.	Miles.	289 00 289 00 289 00 1,020 00 23,778 00	42 00
		Single Wire.	Miles.	7,240 00 2,795 00 20 00 20 00 20 00 20 00 20 00 20 00 20 00 20 00 20 00 20 00 0	
	Gal- vanized	Single Wire.	Miles.	7, 240 00 2, 795 00 7 135 00 20 00 2 00 00 00 00 00 00 00 00 00 0	190 00
	Address.			Vancouver. Chilliwack Creston Lather Edgewood. Edgewood. Figlewook Nission City New Westumster. Prince Rupert Quesnel. Revelstoke Notch Hill Ucluelet.	Dawson
	Name of Company.		British Columbia.	British Columbia Tel. Co., Ltd. Chilliwack Tel. Co. Creston Power, Light & Tel. Co., Ltd. Delta Tel. Co. Edgewood Tel. Co. Edgewood Tel. Co. Fort George & Alberta Tel. & El. Co. Mission City Tel. Co. Ltd. Mission City Tel. Co. Ltd. Prince Rupert Mun. Tel. Quesnel Tel. Co. Revelstoke, Trout Lake & Big Bend Tel. Co. Total. Total. Yukon Territory.	Yukon Tel. Syndicate

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Table 16.—Statement of Capital, Cost, Revenue, Operating Expenses, Number of Telephones, Employees, etc.

			_	,	. —					_	٠. ـ					. —	,					σ.			·~		,		
Employees and Remuneration.	Amount.	s ets.	30.00		15 00	3 00			31 SI	000	47.50					18 00									22,092				22.341 56
Emplo	No.		6	:	-	_			- 6	1		1		:	:	-			:	-			:		8.7			:	6
oer of iones.	Central Magneto		4.5	= 3	2 88 3 88	19	ì	61.6	19	31	9.5	# C1	.e.	∞ <u>*</u>	35 11	- 1	19	20		o o	0	33	Ξ	37	513	3 00	0	57 57	1 197
Number of Telephones.	Central.	·													:			:	:	:		:		- 0	1,360				1 360
Operating Expenses		se ets.	12 00 273 68	0.10		30 00		9 8	35 S5	00 01	16 25				37.7	98 95 95 95 95 95 95 95 95 95 95 95 95 95			00 61 61 61	90 GC	00 01	:	12 00		51,468 47	95.00	25.		53 017 05
Long	Receipts.	s cts.		100	00 6/1			19 00	00 71						12.	00 00			:						24,880 55				95 083 90
Bevenue.		e cts.	12 00 273 68	200	17.50	32 00		2 S 2 S 3 S	3 15 3 15 3 15	25 00	116.60	88	25 00	80 00	384 00	80 87			12 00	00 fc 10 00	00		12 00	17 50	38,875 41	95.00	5 25	:	40 351 79
Cost Property and	Equipment.	s ets.	1,200 00		1.500 00	S20 00		00 00 00 00 00 00 00 00 00 00 00 00 00			512 30		730 00	436 00	2,200 00	748 00		1,427 00	1,200 00		00 000,1	1,175 00	00 019	2,057 45			1,294 00	00 006	965 505 59
Funded Debt.		s cts.							1.100 00	`															50,000 00				51, 100, 00
Capital Stock.		& cts.	500 00	220 00	1,500 00	841 00			2,000 00	840 00	511 00	00 x+0		00 000	496 43	OF 07#		1,427 00		438 00		1,000 00	00 019	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	140,175 00	00 000 1	1,200 00		155 805 (31
Address.			Strathgartney	Bangor	Belmont	Cascumpee		Cherry Hill	Bideford	Grand River	Cable Head West	St. Anns.	North River	Summerside	Cap Woll	Malpeque	Morell	Mount Albion	Wellington	Muddy (reek	St. Creorges	Northam	St. Peter's Bay	Coleman	Charlottetown	Sturgeon	Canoe Cove	Cornwall	
Name of Company.		Prnce Edward Island.	Argyle Tel. Co. Augustine Cove & Tyron Tel. Co.	_	- C		fead Tel.	-						Linkletter Tel. Co				Mt. Albion Tel. Line			Northam Pt. Hill & Arlington Tel.				Frince Edward Island 1el. Co	_		rork Foint Tel. Co	Total

Table 17.—Statement of Miles of Wire Equipment—Urban and Rural.

)d-				Urban.					Rural.		
2. Name of Company.	Address.	Gal- vanized		Coppe	Copper Wire.		Gal- vanized		Coppe	Copper Wire.	
		Single Wire.	Single Wire.	Over- head.	Under- ground.	Sub- marine.	Single Wire.	Single Wire.	Over- head.	Under- ground.	Sub- marine
Prince Edward Island.		Miles.	Miles	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.
Argyle Tel. Co	Strathgartney						25 00				:
Augustine Cove & Tyron Tel. Co	Cape Traverse						25 00		:	:	:
Bear River & St. Margarets Tel. Co	St. Margarets										
Belmont Tel. Co	Belmont						35 00	:	:	:	:
Cascumpee 1 et. Co	Bay View						13 00				
Cherry Hill & Hillshow Head Tel Co	Cherry Hill.								:	:	:
Darnley Tel. Co.	Darnly.	:	:	:			2 2 8	:		:	:
Grand River Tel. Co	Grand River										
Greenwich & Cable Head Tel. Co	Cable Head West							:	:	:	:
Hamilton Tel. Co	Hamilton	:		:	:	:		:	:	:	
Kingston & Clyde River Tel. Co.	North River						22.9				
Linkletter Tel. Co	Summerside	-	-	:			8 8 9 8			:	:
Lot 7 Co-op. Tel. Co	Cape Wolf	:	:	:		:	2 S 2 S 2 S 2 S				
Malbeque Tel. Co	Malbeque										
Marie Midgell & Milburn Tel. Co.	Morell			:	:						
	Mount Albion			:			25 00				
Muddy Creek Tel. Co	Muddy Creek										
Newport-Launching Tel. Co	St. Georges			:	:		20 SE 20 SE 20 SE				
Northam 17. Hill & Arington 1et. Co	St. Peter's Bay										
O'Leary Brae & West Point Tel. Co	Coleman				:	:	33 00	- 1	:	:	:
Prince Edward Island Tel. Co	Charlottetown	83 56	110 42 1,144	1,144 26	: : : : : : : : : : : : : : : : : : : :	:	842 T0	987.64			
Savage Harbour 1el. Co	French Village										
West River Tel. Co.	Canoe Cove				:		10 00	:			
York Point Tel. Co	Cornwall						30 00				
			ŀ				10.				

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Table 18.—Income Account for the year ended June 30, 1917.

			57		Additions	ons.			500
Name of Telephone Company.	Gross Revenue,	Operating Expenses,	Operating Revenue,	Outside Operations.	Rents.	From Securities Held.	Other Income.	Total.	Corporate Income.
Nova Scotiu.	es C(s.	2. €	e cts.	ets.	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	cts.	es cts.	e cts.	es cts.
Maritime Telegraph & Tel. Co., Ltd	738, 693 77	564, 213 58	174, 480 19	14,038 70	8, 796 02	5,680 50	6 13	28,521 35	203,001 54
New Brunswick.									
New Brunswick Tel. Co., Ltd	536, 400 39	327,266 86	209, 133 53	13,838 60	8,371 59		8,735 84	30,946 03	240,079 56
Prince Edward Island.							and the same of		
Prince Edward Island Tel. Co., Ltd	63, 737, 96	51, 126 64	12,611 32				3,846 73	3,846 73	16,458 0
Quebec.						-			
Bell Telephone Co., Ltd. Charlevoix & Sagnemay Tel. Co., Ltd Chasten Townships Tel. Co., Ltd Gaste & Bonavoriture Tel. Co., Ltd Kamouraska Tel. Co., Ltd. Negantie People's Tel. Co., Ltd. Sagnema Tel. Co., Ltd. Sagnema Tel. Co., Ltd.	10, 689, 867, 00 16, 463, 08 45, 514, 17 13, 102, 46 2, 6, 817, 67 9, 129, 90 21, 512, 71	5,748, 425 0004,9 34,002 94 7,653 55 14,972 73 5,7303 44 27,503 47 11,469 69	4,941,442 00 6,751 23 11,511 23 5,448 91 11,844 94 3,605 56 11,310 84 10,043 02		100 001	303, 589, 00	87,368 00: 346 50	390, 957, 00 100, 00 346, 50 187, 96	0 87,368 00 390,957 00 5,332,399 00 10 6,851 22 11,511 23 5,448 91 11,844 94 11,845 50 346 50 3,932 06 11,310 84
Manitoba.									
Macdonald Tel. Co	5,806 23 6,680 96	3,088 47	2,717 76 3,508 72						2,717 76 3,508 72
British Columbia.									
British Columbia Tel. Co., Ltd. Chilliwack Tel. Co., Ltd. Kootenay Telebione Lines, Ltd. Okanagan Telebo. Prince Rupert Tel. Co.	1,389,964 49 14,263 55 35,661 99 52,994 40 23,800 52	997,476 96 4,307 70 26,235 34 23,464 94 14,634 24	392, 487 53 9,955 85 9,426 65 29,529 46 9,166 28		00 611	200 00	1,381 29	1,581 29	392, 487 53 11, 537 14 9, 426 65 30, 063 95 9, 166 28
Alberta.									
City of Edmonton Tel. Dept Western General Electric Co., Ltd	233,206 29 11,531 99	65,240 34 9,000 35	167,965 95 2,531 64						167,96595 $2,53164$

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5		539 73 6	2	15	6	37	21	68		90	4		50		99	.568,160 40
			1.329 21			3,354	116 93		180 00				55 00		422 23	27.877 30 18,198 80 309,469 50 106,870 49 462,416 09 6,568,160
			1,329 21			3,324 37	116 93				-	-				106.870 49
		-							0				0			0 309,469 50
				-	:	:	-		180 00	:	:	-	22 00		85 5 31	0 18, 198 8
																27,877 3
		539 73				6,736 00			8.578 27					13,959 60		6, 105, 744 31
	351	8,556 67	5,767	4,275	6, 163	13,517	10,400	3, 984	12,527	2, 150	5, 148	13, 982	2,091	28, 933		8,073.460 77
		9,096 40														14.179,205 08 8,073,460 77 6,105,744 31
Ontario.	Ahmie Tel. ('o., Ltd	Beeton Tel. Co., Ltd	Bethesda and Stouffville Tel. Co., Ltd	Blenheim and South Kent Tel. Co., Ltd	Brussels, Morris and Grey Tel., Co	Dunville Consolidated Tel. Co., Ltd	Erie Tel. Co., Ltd.	Goderich Rural Tel. Co., Ltd	Ingersoll Tel. Co., Ltd	Metcalfe Tel. Co., Ltd.	Monk Rural Tel. Co., Ltd	Norfolk County Tel. Co., Ltd	Schomberg Tel. Co., Ltd	Temiskaming Tel. Co., Ltd	Welland County Tel. Co., Ltd	Total

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TABLE 18.—Income Account for the year

					Dec	due	tions.				
Name of Telephone Company.	Ta	xes.	.	Inte on B	erest onds		Other Deduction		Tota Deduct		ıs.
Nova Scotia.	\$	c1	ts.	\$	C1	ts.	\$	cts.	\$	ct	s.
Maritime Telegraph & Tel. Co., Ltd				84,	000	00			84,00	00	00
New Brunswick.											
New Brunswick Tel. Co., Ltd	19.	791	06	2,	487	50			22,27	78	56
Prince Edward Island.											
Prince Edward Island Tel. Co., Ltd		341	83	3,	000	00			3,3	£ 1	S 3
Queber.											
Bell Telephone Co., Ltd. Charlevoix & Saguenay Tel. Co., Ltd. Eastern Townships Tel. Co., Ltd. Gaspe & Bonaventure Tel. Co., Ltd. Kamouraska Tel. Co., Ltd. Megantic Peoples Tel. Co., Ltd. National Tel. Co., Ltd. Saguenay-Quebec Tel. Co., Ltd.				9. 4.	$883 \\ 042$	$\begin{array}{c} 17 \\ 00 \\ 00 \\ 33 \\ 00 \\ 00 \end{array}$	26 1,23 4.18	3 90 8 26	4, 8, 1, 9, 7, 5	83 42 40 55 88 40	$\begin{array}{c} 17 \\ 00 \\ 00 \\ 23 \\ 26 \\ 00 \end{array}$
Manitoba.											
Macdonald Tel. Co Strathcona Tel. System					800 560			0 00	1,8 1,8		
British Columbia.											
British Columbia Tel. Co., Ltd Chilliwack Tel. Co., Ltd Kootenay Telephone Lines, Ltd. Okanagan Tel. Co. Prince Rupert Tel. Co.	1,	$\begin{array}{c} 337 \\ 210 \\ 362 \end{array}$	61	2	499 693 500 434	66 00	1,72	$\frac{1}{7}, \frac{10}{53}$	$\frac{2.7}{2.7}$ $\frac{9.3}{9.3}$	52 10 00	12 75 14
Alberta.											
City of Edmonton Tel. Dept		66	75	91					91,9	09 66	47 75
Ontario.											
Almie Tel. Co., Ltd Beeton Tel. Co., Ltd Bethesda and Stouffville Tel. Co., Ltd Benheim and South Kent Tel. Co., Ltd Brussels, Morris and Grey Tel. Co. Dunville, Consolidated Tel. Co., Ltd.		115 152 192 83 337	39 31 90 	I	178 942 509 , 858 , 404	97 23 46 00	100 477	0 00 6 16 ···	1,6 5 1,8 1,8 2,1	52 11 03 58 22	13 46 88
Eric Tel. Co., Ltd. Goderieh, Rural Tel. Co., Ltd Ingersoll Tel. Co., Ltd. Metcalfe Tel. Co., Ltd. Monk Rural Tel. Co., Ltd. Norfolk County Tel. Co., Ltd. Schomberg Tel. Co., Ltd. Temiskaming Tel. Co., Ltd. Welland County Tel. Co., Ltd.		280 50 192 184 20 874 233	$\begin{array}{c} 70 \\ 26 \\ 21 \\ 00 \\ 25 \end{array}$	$\frac{2}{2}$, 046 , 391 , 100 644 561 , 156 727	86 00 78 00 36	$ \begin{array}{c} 1,32\\ 18\\ 32\\ 3\\ 9,51 \end{array} $	1 00 1 95 5 15	2,4 5,6 3,6 5,8 5,8 11,5	42 14 84 21 64 81	56 02 00 95 14 00 45
Total	411	, 945	62	909	, 722	43	70.55	9 86	31,392,2	27	91

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Net Cor Incor		Divide		ition of Net I	ncome.		Balance and	
Income.	Loss.	Common Stock.	Preferred Stock.	Sinking Fund.	Reserve.	Total.	Cr.	Dr.
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ ets.	\$ cts.	\$ ets.	\$ cts.	\$ cts
119,001 54			•			111,000 00		
· 217,801 00		112,951-40			103,990-17	216,941 57	859 43	
13,116 22		7,205-25				$7,205\ 25$	5,910 97	
,388,195 00 3,968 05 2,469 23 4,608 91 6,989 71 1,963 80 3,770 81					3,000 00	3,000 00 3,600 00 6,989 71 1,930 63	968 05 4,608 91	1,130 7 642 8 4,536 4
917 76 1,668 72				1,112 10		1,112 10	917 76 556 62	
242,987 54 8,785 02 6,715 90 20,763 81 1,231 56		120,000 00 4,574 30 16,019 39		20,931 53	40,000 00 4,000 00 15,203 75		6,715.90	10,459 3
76,056 48 $2,464 89$				54, 545-74 485-70	11,939 90 1,979 19			
84 73 287 34 5,009 69 3,211 02 2,792 44 7,937 49 6,453 72 1,590 33 5,144 25 2,291 00 1,351 47 10,875 84 1,237 50 2,418 15 6,207 99		2,058 40 1,505 00 3,150 00 1 60 296 25 2,172 00 1,790 00 3,464 00 1,333 64 4,009 92 2,899 50	1,846-38 273-00		1,401 70 1,706 02 2,415 05 5,195 01 1,300 00 3,500 00	3,211 02 1,996 38 2,416 65 296 25 7,640 01 1,790 00 1,300 00 6,964 00 1,333 64 4,009 92	2,792 44 2,941 11 4,037 07 1,294 08 501 00 51 47 3,911 81 3 86	

Table 19.—Statement, by Provinces, of Capital, Cost, Revenue, Operating Expenses, Number of Telephones, Employees, etc.

Province Si							Number of	or of	Empl	Employees and
	Capital	Funded	Cost of Property and	Revenue.	Long	Operating	r elephones.	70.00	Kem	Kemimeration.
			Equipment.		Receipts,		Central Magneto	Aagneto	No.	Amount.
	2. 2.	\$\frac{1}{2}\$	& 25	<u>x</u> <u>2</u>	es es	± 5				& cts.
Nova Scotia 1,92	1,926,019 00	1,503,390 00	4,008,660 83	568,967 37	233, 790-56	587,486 74	16, 102	9,162	16	325, 396 02
New Branswick 1,51	1,512,252 69	57,800 00	2, 189, 325, 07	385, 438 03	190, 767, 94	359, 801 63	1,353	9,304	508	219,585 70
Prince Edward Island	155,805 31	51,100 00	265, 505, 52	40,351.79	25,083 20	53,017 95	1,360	1,127	95	22,341 56
Quebec 19,42	19, 425, 983 53	11,891,340,23	11,891,340 23 43,051,983 19	8, 509, 663 67	2,978,743 19	6,388,636 11	72,622	30,692	3, 988	2,103,876 21
Ontwijo	2, 179, 729-38	2,278,837 19	5,790,178-21	1,036,113 92	97,912 95	723,386 61 149,854	149,854	123,643	7,383	3,739,602 74
Manitoba	26, 130-29	11, 106, 941 87	11, 142, 604 34	1,543,257 64	372,004 09	1,459,558 52	31,110	18, 737	1,487	935,537,28
Saskatehewan.	831,339 00	8, 994, 681-68	9, 792, 579 68	1,204,057 62		711,829 37	11,383	32,274	644	405,664 40
Alberta 13	130,654 00	11,256,910 50	10, 998, 850-29	891,116 95	467,726 96	669,005 07	20,267	17,395	530	462,267 80
British Columbia 3,22	3, 224, 054 34	2, 504, 333 33	7,059,666 89	1,345,073 65	199,848 80	1, 126, 264-15	38,719	8, 729	626	658,387 55
Yukon	65,000 00		170,179 78	32,363 29		16, 439 67		908	1	9,934 00
Total 29,47	176,367 54	29, 476, 367 54 49, 645, 334 80	94, 469, 533 80 15, 556, 403 93	15, 556, 403, 93	4, 565, 877-69	4, 565, 877-69-12, 095, 425-82	352, 770	251,366	16, 490	8,882,593 26

Table 20.—Statement, by Provinces, of Miles of Equipment—Urban and Rural.

			Urban.					Rural.		
Province.	Galvanized.		Coppe	Copper Wire.		Galvanized.		Сорре	Copper Wire.	
	Single Wire.	Single Wire.	Overhead.	Single Wire, Single Wire, Overhead. Underground. Submarine. Single Wire, Single Wire. Overhead. Underground.	Submarine.	Single Wire.	Single Wire.	Overhead.	Underground.	Submarine.
	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.
Nova Scotia	1,866.00	2,787.00	12,880.00	11,989.00	117.00	11,668.50	4,870.75	417.50		41.00
New Brunswick	6,758.89	776-85	6,222.59	6,287.80	44.80	6,433.86	4,559.06			64-75
Prince Edward Island	83.56	110.42	1,144.26		:	1,427.66	987.34			
Quebec	4,137.00	481.00	50,820.00	196, 395-00	285.50	55,533.70	$2,367\cdot 50$	1,878.00	2.50	10.25
Ontario	3,283.00	11,140.25	138, 350-67	299,760.50	505.00	189,541.35	1,708.25	2,275 42	2.25	18.00
Manitoba	28.00	528.00	36,920.00	73,359.00		52,014.50	13,658.00	1.00		
Saskatchewan	3,559.00		41,400.00	30,041.00		76,115.00	35,000 00			
Alberta	3,569.00	206.00	42,113.00	57,882.00		36,201.50	12,406.00			
British Columbia	9,466.50	2,880.17	83,778.00	43,839.00	1.50	4,919-65	5,059.00	1,092.00	143.00	890-25
Yukon	190.00		42.00			319.00	48·00			
Total	32,940.95	19,409.69	413,670.52	719,553.30	953.80	434, 174 - 72	80,663.90	5,663-92	147.75	1,024.25

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