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VOLUME 7

SECOND SESSION OF THE EIGHTH PARLIAMENT

OF THE

DOMINION OF CANADA

SESSION 1897



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OF THE

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CONTENTS OF VOLUME 1.

CONTENTS OF VOLUME 2.

- 2a. Estimates of sums required for the service of the Dominion, for the year ending on the 30th June, 1898. Presented 8th April, 1897, by Hon. W. S. Fielding.

Printed for both distribution and sessional papers.

- 2b. Supplementary Estimates for the year ending 30th June, 1897. (For the Militia attending the Queen's Jubilee.) Presented 20th May, 1897, by Hon. W. S. Fielding.
 - Printed for both distribution and sessional papers.
- *c.* Supplementary Estimate for the year ending 30th June, 1897. (Post Office Department.) Presented 14th June, 1897, by Hon. W. S. Fielding.. Printed for both distribution and sessional papers.
- &c. Further Supplementary Estimates for the year ending 30th June, 1898. (Intercolonial Railway extension to Montreal.) Presented 23rd June, 1897, by Hon. W. S. Fielding.
 - Printed for both distribution and sessional papers.
- List of Shareholders of the Chartered Banks of Canada, as on the 31st December, 1896. Presented 5th April, 1897, by Hon. W. S. Fielding....... Printed for both distribution and sessional papers.
- 3a. Report of dividends remaining unpaid and unclaimed balances in the Chartered Banks of Canada, for five years and upwards, prior to 31st December, 1896.

CONTENTS OF VOLUME 3.

- 4. Report of the Superintendent of Insurance, for the year ending 31st December, 1896.

 Printed for both distribution and sessional papers.
- 4a. Preliminary statements of the business of Life Insurance Companies in Canada, for the year ending 31st December, 1896. Presented 29th June, 1897, by Hon. W. S. Fielding.

Printed for both distribution and sessional papers.

4b. Abstract of Statements of Insurance Companies in Canada, for the year ended 31st December, 1896. Presented 5th April, 1897, by Hon. W. S. Fielding.

Printed for both distribution and sessional papers.

CONTENTS OF VOLUME 4.

5. Report of the Department of Trade and Commerce, for the fiscal year ended 30th June, 1896. Presented 25th March, 1897, by Sir Richard Cartwright.

Printed for both distribution and sessional papers.

Tables of the Trade and Navigation of Canada, for the fiscal year ended 30th June, 1896. Presented 30th March, 1897, by Hon. W. Paterson....... Printed for both distribution and sessional papers.

CONTENTS OF VOLUME 5.

- 7. Inland Revenues of Canada. Excise, &c., for the fiscal year ended 30th June, 1896. Presented 26th March, 1897, by Sir Henri Joly de Lotbinière....Printed for both distribution and sessional papers.
- 7a. Inspection of Weights, Measures, Gas and Electric Light, for the fiscal year ended 30th June, 1896. Presented 26th March, 1897, by Sir Henri Joly de Lotbinière.

Printed for both distribution and sessional papers.

- Sa. Report on Canadian Archives, 1896. Presented 23rd April, 1897, by Hon. W. Mulock.

 Printed for both distribution and sessional papers.

CONTENTS OF VOLUME 6.

- Sc. Report of the Director and Officers of the Experimental Farms, for the year 1896.

 Printed for both distribution and sessional papers.

CONTENTS OF VOLUME 7.

- 40. Annual Report of the Department of Railways and Canals, for the fiscal year ended 30th June, 1896. Presented 5th April, 1897, by Hon. A. G. Blair. . Printed for both distribution and sessional papers.

CONTENTS OF VOLUME 8.

Annual Report of the Department of Marine and Fisheries (Marine), for the fiscal year ended 30th June, 1896. Presented 26th May, 1897, by Hon. L. H. Davies.

Printed for both distribution and sessional papers.

11a. Annual Report of the Department of Marine and Fisheries (Fisheries), for the fiscal year ended 30th June, 1896. Presented 26th May, 1897, by Hon. L. H. Davies.

- 116. Special reports containing notes on the natural history of the lobster, with special reference to the
- 11d. Report of the joint commission relative to the preservation of the fisheries in waters contiguous to

CONTENTS OF VOLUME 9.

- 11c. Report of the Chairman of the Board of Steamboat Inspection, etc., for calendar year ended 31st
- 18. Report of the Postmaster General for the year ended 30th June, 1896. Presented 28th May, 1897,
- 18a, Supplement to the Report of the Postmaster General, for the year 1896, with reference to the letting of certain contracts for mail service. Presented 4th June, 1897, by Hon. W. Mulock.

Printed for both distribution and sessional papers.

CONTENTS OF VOLUME 10.

- 18. Annual Report of the Department of the Interior, for the year 1896. Presented 12th May, 1897, by
- 18a. Summary Report of the Geological Survey Department, for the year 1896. Presented 29th June,
- 18b. Report by Hon. T. Mayne Daly on his visit to Great Britain and Ireland in the interests of emigration to Canada, 1896. Presented 14th April, 1897, by Hon. C. Sifton Not printed.

CONTENTS OF VOLUME 11.

- Annual Report of the Department of Indian Affairs, for the year ended 30th June, 1896. Presented 5th April, 1897, by Hon, C. Sifton Printed for both distribution and sessional papers.
- 15. Report of the Commissioner of the North-west Mounted Police Force, 1896. Presented 22nd April, 1897, by Hon, W. Laurier Printed for both distribution and sessional papers.

CONTENTS OF VOLUME 12.

- 16. Report of the Secretary of State of Canada, for the year ended 31st December, 1896. Presented 30th March, 1897, by Hon. S. A. Fisher..... Printed for both distribution and sessional papers.
- 16a. Civil Service List of Canada, 1896. Presented 30th March, 1897, by Hon. S. A. Fisher. Printed for both distribution and sessional papers.
- 16b. Report of the Board of Civil Service Examiners, for the year ended 31st December, 1896. Presented 22nd April, 1897, by Hon. S. A. Fisher...... Printed for both distribution and sessional papers.
- 16c. Annual Report of the Department of Public Printing and Stationery, for the year ended 30th June, 1896, with a partial report for services during six months ending 31st December, 1896. Presented 29th June, 1897, by Hon. S. A. Fisher. Printed for both distribution and sessional papers.
- 17. Report of the Joint Librarians of Parliament, for the period since the close of the session in October, 1896. Presented 25th March, 1897, by the Hon. The Speaker.... Printed for sessional papers only.
- 18. Report of the Minister of Justice as to Penitentiaries of Canada, for the year ended 30th June, 1896. Presented 9th June, 1897, by Hon. C. Fitzpatrick.

CONTENTS OF VOLUME 13.

- Report of the Department of Militia and Defence of Canada, for the year ended 31st December, 1896.
 Presented 8th April, 1897, by Sir Richard Cartwright.
 - Printed for both distribution and sessional papers.

- 22. Statement of Governor General's Warrants issued since last session of parliament, on account of fiscal year 1896-97. Presented 30th March, 1897, by Hon. W. S. Fielding.................. Not printed.
- 28. Return of Treasury Board Over-Rulings on appeals from decisions of the Auditor General, between the sessions of 1896 and 1897. Presented 30th March, 1897, by Hon. W. S. Fielding.

 Printed for sessional papers.
- 24. General Order of the Exchequer Court. Presented 30th March, 1897, by Hon. S. A. Fisher.

 Not printed.
- 26. Return to an address of the House of Commons to his excellency the Governor General, dated 14th September, 1896, for a copy of all correspondence in connection with all grants of land in the town of Revelstoke to J. A. Mara, ex-member for Yale and Cariboo, and the order in council under which the said grants were made. Presented 5th April, 1897...Mr. Bostock...... Not printed.

- 29. Statement of all superannuations and retiring allowances in the civil service during year ended 31st December, 1896, giving name, rank, salary, service, allowance and cause of retirement of each person superannuated or retired, also whether vacancy filled by promotion or new appointment, and salary of any new appointee. Presented 5th April, 1897, by Hon. W. S. Fielding.. Not printed.
- 80. Statement of the moneys expended in payment of bounties on iron and steel manufactured from Canadian ore, the persons to whom paid, the places at which the iron and steel was manufactured, together with copies of the regulations governing such payments, as required by the Act 57-58 Victoria, chapter 9. Presented 7th April, 1897, by Hon. W. Paterson. Printed for sessional papers.

- 34. Statement of the affairs of the British Canadian Loan and Investment Company, as on the 31st December, 1896. Presented 20th April, 1897, by the Hon. The Speaker................Not printed.
- 35. Return to an address of the House of Commons to his excellency the Governor General, dated 12th April, 1897, for copies of all orders in council, reports to council, petitions, memorials or other documents relating to the Manitoba School Question, not already submitted to this House. Presented 20th April, 1897.—Mr. LaRivière....... Printed for both distribution and sessional papers.

- 89. Tariff of fees and expenses for holding elections in the North-west Territories and British Columbia, fixed by the governor in council, under section 121 of the Dominion Elections Act, and amendments to the said tariff. Presented 26th April, 1897, by Hon. W. S. Fielding. Not printed.

- 48. Return to an order of the House of Commons, dated 28th September, 1896, for copies of all corrrespondence which has passed between the government and party or parties in reference to the "Montreal, Ottawa, Georgian Bay Canal" scheme; also all papers in connection with any application for financial aid towards this project. Presented 5th May, 1897.—Mr. Poupore. Not printed.

- Return to an order of the House of Commons, dated 11th May, 1897, for a copy of the opinion of the minister of justice with respect to statutory increases. Presented 11th May, 1897.—Hon. L. H. Davies.
 Printed for sessional papers.

- 53. Return to an address of the Senate to his excellency the Governor General, dated 13th May, 1897, for copies of all telegrams sent between the 15th and 27th of April last, by the minister of marine and fisheries, to Bernard D. McLellan, or any other person in West Prince, Prince Edward Island, promising grants for harbours, piers or breakwaters in that constituency, different from or in addition to, amounts stated in the Estimates now before Parliament. Presented 1st June, 1897.—Hon. Mr. Ferguson.
 Not printed.
- 54. Return to an address of the Senate to his excellency the Governor General, dated 19th May, 1897, for a tabulated statement showing the effects which the commercial treaty between Canada and France has had upon the trade and revenue of the Dominion, as compared with the three years preceding the date upon which the treaty came into force, in so far as relates to the various articles covered by said treaty. Presented 1st June, 1897.—Hon. Sir Mackenzie Bowell.

Printed for sessional papers.

- 55. Return to an address of the Senate to his excellency the Governor General, dated 5th May, 1897, for a copy of the contract or charter by which the steamer "Petrel" has been employed for winter navigation between Prince Edward Island and the mainland during the present year, and all correspondence between the department of marine and fisheries, or any officer thereof, and the owners of the said steamer "Petrel" relative to the said contract or charter. Also a statement of all expenses incurred by the government of Canada, in the outfit, repair and maintenance of the said steamer, and in the payment of wages to her officers and men, giving the name of each employee, and the amount paid or to be paid each. Also a statement showing the number of round trips made by the said steamer, between Cape Tormentine and Cape Traverse, or any other port in Prince Edward Island, from the 1st of December, 1896, to the 1st of May of the present year, with the date of such trips. Also a statement of the number of passengers, and the quantity

of freight carried by the said steamer between the ports aforesaid, and the amount received for carrying such freight and passengers, for the above-mentioned period. And also a statement of number of mails carried by the said steamer, during the same period. Presented 1st June, 1897. -Hon. Mr. Ferguson. Not printed. Not printed.

- 56. Return to an address of the Senate to his excellency the Governor General, dated 5th May, 1897, for all correspondence which has taken place since the 13th July last between the government of the Dominion and the provincial government of Prince Edward Island regarding certain financial claims of that province upon the federal government.-Presented 1st June, 1897.-Hon. Mr.
- 57. Return to an order of the House of Commons, dated 3rd May, 1897, for copies of all letters, papers, correspondence, petitions, etc., relating to the dismissal of J. Albert Verge, fishery officer for the river Restigouche and its tributaries and the waters of the Baie des Chaleurs, and the appointment of Charles Brown in his place. Presented 3rd June, 1897. -Mr. McAlister..... Not printed.
- 57a. Return to an order of the House of Commons, dated 5th April, 1897, for copies of all correspondence, papers, petitions, &c., in connection with the dismissal of Angus McPhee as postmaster at Hope field, in the province of Prince Edward Island. Presented 3rd June, 1897. - Mr. Martin.

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- 576. Return to an order of the House of Commons, dated 3rd May, 1897, for copies of all papers, letters, documents, petitions, etc., relating to the dismissal of A. J. McNeill as postmaster at Stanley Bridge, in Prince Edward Island. Presented 3rd June, 1897.—Mr. Martin. Not printed.
- 57c. Return to an order of the House of Commons, dated 3rd May, 1897, for copies of all letters, telegrams and papers that have passed between the government and any person or persons in connection with the dismissal of Dr. George Duncan, late quarantine superintendent at Williams Head
- 57d. Return to an order of the House of Commons, dated 17th May, 1897, for copies of all documents, reports, affidavits, declarations, papers and correspondence in relation to dismissal of F. X. Smith, late lighthouse keeper at Cape Gaspé. Presented 8th June, 1897.—Mr. Casgrain....Not printed.
- 57e. Return to an address of the House of Commons, to his excellency the Governor General, dated 14th September, 1896, for copies of all orders in council, reports and correspondence respecting the appointment and dismissal of the sub-agents of the department of marine and fisheries at the port
- 57f. Return to an order of the House of Commons, dated 3rd May, 1897, for a return showing the names of all persons dismissed from the service of the inland revenue department since the first day of July, 1896; also the names of all persons appointed to the service of said department since the first day of July, 1896. Presented 14th June, 1897.—Mr. Wood (Brockville). Not printed.
- 57g. Return to an order of the House of Commons, dated 17th May, 1897, showing the names and offices or employment of all persons superannuated, dismissed or superceded in the service of the Canadian government under the present administration, giving the reason for superannuation, dismissal or supercession in each case, and the name and age of the officer or employee appointed to the vacancy in each case, and showing whether any inquiry or formal investigation took place in each case and the nature of it, and whether the party affected was given an opportunity of being heard before dismissal or supercession. Presented 15th June, 1897.—Sir Charles Tupper....... See No. 57t.
- 57h. Return to an order of the House of Commons, dated 21st April, 1897, showing the names of all persons appointed to the department of customs since the first day of July, 1896, also the names of the offices respectively to which they were appointed and the salaries thereto attached; also the names of all persons in the service of the department of customs whose services have been dispensed with since the first day of July, 1896, with the names of the offices and the salaries attached thereto respectively. Presented 15th June, 1897 .- Mr. Wood (Brockville) Not printed.
- 57i. Supplementary return to 57y. Presented 16th June, 1897.—Sir Charles Tupper...... See No. 57t.
- 57j. Return to an order of the House of Commons, dated 6th May, 1897, for copies of all letters and correspondence between the government or any members thereof referring in any way to the dismissal of Mr. W. D. Fairbrother as postmaster at Beamsville, with a copy of the charges and by whom

- 571. Return to an order of the House of Commons, dated 3rd May, 1897, for copies of all correspondence, petitions and reports relative to the dismissal of T. P. Shields, postmaster of Upper Maugerville, and the appointment of Emery Sewel in his place, and in reference to any changes proposed in the location of said post office since 1891. Presented 18th June, 1897.—Mr. Foster.......Not printed.
- 57m. Return to an order of the House of Commons, dated 12th April, 1897, for copies of all papers, correspondence, petitions, etc., connected with the dismissal of Alexis Doutre as postmaster at Beauharnois. Presented 18th June, 1897.—Mr. Bergeron.
 Not printed.

- 57q. Return to an order of the House of Commons, dated 17th May, 1897, for copies of all papers and documents connected with the dismissal of Mr. John L. Smith as fishery overseer for the district of New Carlisle, extending from Grand Cascapedia river to Paspebiac East; also any recommendations made to any member of the government by letter or otherwise for his dismissal and the recommendation in favour of his successor. Presented 25th June, 1897.—Sir A. P. Caron.

Not printed.

- 57s. Return to an order of the House of Commons, dated 21st April, 1897, for copies of all papers, petitions, evidence, reports and documents of every nature connected with the dismissal of Andrew Carmichael, postmaster, Spencerville, Ont. Presented 28th June, 1897.—Mr. Reid...Not printed.
- 57t. A partial return to an address of the Senate to his excellency the Governor General, dated 9th April, 1897, for a statement showing for each department of the civil service, the names, ages, offices and salaries of such persons employed either in the inside or outside divisions thereof; and of such persons not in the civil service employed by the government in any department, who, since the 13th July, 1896, and in cases where no commission of investigation was appointed, have been removed from office by dismissal, superannuation or otherwise, specifying in each case the manner of, and grounds for such removal, and the length of notice given to the persons removed, and the amount of superannuation or gratuity granted, if any; also showing the name, age, office and salary or remuneration of any and every person appointed to the civil service in the place of, or as a consequence of any such removal. Presented 26th June, 1897.—Hon. Mr. Kirchhoffer.

Printed for sessional papers.

- 59. Return to an order of the House of Commons, dated 17th May, 1897, for copies of the report made by Mr. Gourdeau, deputy minister of marine and fisheries, on the conference held last November between the steamship companies and shippers of cattle and horses. Presented 4th June, 1897. Mr. Maclean. Printed for sessional papers.
- 61. Return to an order of the House of Commons, dated 21st April, 1897, for copies of all letters, petitions, memorials and suggestions received by the government, or any member thereof, since the 23rd June, 1896, to amend the North-west Territories Act with a view of enlarging the powers of the executive of the North-west Territories, and to increase the subsidy of the North-west Territories. Presented 4th June, 1897.—Mr. Davin.
 Not printed.
- 63. Return to an order of the House of Commons, dated 10th May, 1897, for a return of all correspondence between officers of the militia and others with the minister of militia and the major-general commanding relating to brevet promotion and General Order 73, 1896. Presented 8th June, 1897.—
 Mr. Bain
 Not printed.
- 64. Return to an order of the House of Commons, dated 17th May, 1897, for copies of all correspondence, plans and reports of engineers having reference to making North Harbour, Aspy Bay, Victoria county, N.S., a harbour of refuge. Presented 9th June, 1897.—Mr. Bethune........Not printed.
- 65. Return to an address of the House of Commons to his excellency the Governor General, dated 3rd May, 1897, for copies of all papers relating to the release of Daniel Brien Sullivan, committed to jail at Toronto on the 18th November, 1896, including the reports of the police magistrate of the 21st and 27th November, 1896. Presented 9th June, 1897.—Str C. Hibbert Tupper. Not printed.
- 66. Return to an order of the House of Commons, dated 28th September, 1896, for a statement showing the amount of money expended by the Dominion government since the 1st day of July, 1873, for constructing, equipping and subsidizing railways in Canada, with the number of acres of land granted as subsidies, and their estimate value. Also a statement showing separately the part of such expenditure made on railways in each province of the Dominion and the North-west Territory, deducting any sums that may have been charged against any of the provinces of the Northwest Territory in their debt account with the Dominion. Presented 10th June, 1897.—Mr. Martin.

 Printed for sessional papers.
- 67. Return to an order of the House of Commons, dated 28th September, 1896, for copies of all letters, correspondence and tenders, the names of the parties tendering, the amounts of their tender, and the names of the parties awarded the contracts for the historical monuments at Lundy's Lane, Chrysler's Farm and Chateauguay. Presented 10th June, 1897.—Mr. Gibson......Not printed.
- 69. Return to an order of the House of Commons, dated 17th May, 1897, for a return showing (under the announced change of organization at the Royal Military College of Canada): 1. A detail of the intended superior and subordinate staffs, their respective emoluments and the conditions of their engagements, inclusive of periods of service and duties to be performed by them respectively. 2. The intended number of classes of cadets in attendance at one time. 3. The allotment and distri-

- 69a. Supplementary return to No. 69. Presented 23rd June, 1897.—Mr. Tyrwhitt.........Not printed.
- 70a. Return to an address of the House of Commons to his excellency the Governor General, dated 28th September, 1896, for copies of despatches, minutes of council and other documents relating to the meeting of the International Railway Congress, St. Petersburg, with a copy of papers submitted by the high commissioner for Canada to that congress. Presented 14th June, 1897.—Sir C. Hibbert Tupper.
 Not printed.
- 71. Return to an order of the House of Commons, dated 17th May, 1897, for copies of tenders opened the 16th day of March, 1897, for works on section 12 of the Soulanges canal, showing the prices of different tenderers for each item and the approximate quantities upon which the tenders were extended, also the lump sum of each tender. Presented 14th June, 1897.—M. Clancy.

Printed for sessional papers.

- 71b. Return to an order of the House of Commons, dated 17th May, 1897, for copies of tenders opened the 20th day of March for works on the Grenville canal enlargement, showing the prices of different tenderers for each item and the approximate quantities upon which the tenders were extended, also the lump sum of each tender. Presented 14th June, 1897.—Mr. Clancy.

Printed for sessional papers.

- 71d. Return to an order of the House of Commons, dated 7th June, 1897, for a statement of all tenders opened the 30th day of April, 1897, for works on the Iroquois section, Galops canal, showing the prices of different tenderers for each item and the approximate quantities upon which the tenders were extended, also the lump sum of each tender. Presented 25th June, 1897.—Mr. Clancy.

Printed for sessional papers.

71c. Return to an order of the House of Commons, dated 7th June, 1897, for a statement of all tenders opened the 24th day of April, 1897, for works on the Cardinal section, Galops canal, showing the prices of different tenderers for each item and the approximate quantities upon which the tenders were extended, also the lump sum of each tender. Presented 25th June, 1897.—Mr. Clancy.

Printed for sessional papers.

72. Return to an order of the House of Commons, dated 9th September, 1896, for: 1. A copy of all reports of the engineers of the department of public works as to the conditions and requirements of the Port Albert harbour made within the last ten years. 2. A statement in detail, with dates, showing all amounts voted by parliament for the improvement of said harbour. 3. A statement showing how much of said sums were expended under contract, and how much otherwise and how; when expended and to whom paid.—Presented 15th June, 1897.—Mr. Cameron Not printed.

- 72a. Return to an order of the House of Commons, dated 28th September, 1896, for: 1. Copy of all reports made by the engineers of the public works department since the 1st day of January, 1890, as to the condition and requirements of the Goderich harbour and of the North breakwater.
 2. Statement in detail of all amounts voted for the construction and improvement of said harbour.
 3. Statement showing how much has been expended on said harbour since the government of Canada undertook the work as a harbour of refuge. Presented 15th June, 1897.—Mr. Cameron.

- 76. Return to an order of the House of Commons, dated 3rd May, 1897, for: 1. Copies of all correspondence and other documents relating to the creation of post office inspectorships at Stratford, Barrie and Kingston and the appointment of inspectors and other officials connected with such inspectorships. 2. The number of employees connected with each such office and the salaries paid, and all other expenses of each office. Presented 18th June, 1897.—Mr Cameron.

Printed for sessional papers.

- 77. Report of Major General Cameron on the proposed convention in reference to a portion of the Alaskan boundary, and memorandum thereon. Presented 19th June, 1897, by Hon. L. H. Davies.
 Printed for sessional papers.
- 78. Return to an address of the House of Commons to his excellency the Governor General, dated 7th June, 1897, showing the correspondence, if any, between this government and the government of the United States in reference to an equalization or readjustment of the coasting laws, rules and regulations in force in the two countries; and in reference to any arrangement or proposal for any arrangement under which Canadian vessels shall be granted by the American government and officials the same privileges as those accorded to American vessels by the Canadian authorities under the laws, rules and regulations now in force. Presented 25th June, 1897.—Mr. Britton.

Printed for sessional papers.

- 82. Return to an address of the Senate to his excellency the Governor General, dated 21st May, 1897, for a copy of the resignation of S. I. Jones, Esquire, late judge of the county court of the county of Brant, together with all correspondence with any department of the government, in reference to, or in connection therewith; also a copy of all petitions sent to the government praying for the appointment of A. D. Hardy to the position made vacant by the resignation and superannuation of the said Judge Jones. Presented 2nd June, 1897.—Hon. Sir Mackenzic Bowell....Not printed.
- **83. Return to an address of the Senate to his excellency the Governor General, dated 20th May, 1897, showing the names of all persons who filed claims for fishery bounty, before Stanislaus F. Perry, acting inspector of fisheries for Prince Edward Island, up to the 20th day of April last; also the names of all persons who filed similar claims before James F. White, bounty officer, up to the same date, And also showing the names of all persons who received fishery bounty in the west riding of Prince county, in the months of March and April last. Presented 25th June, 1897.—

 Hon. Mr. Ferguson

 Not printed.

CANADA

REPORT

OF THE

MINISTER OF PUBLIC WORKS

ON THE

WORKS UNDER HIS CONTROL

FOR THE FISCAL YEAR ENDED 30TH JUNE, 1896

SUBMITTED IN ACCORDANCE WITH THE PROVISIONS OF CHAPTER 36, SECTION 37,
OF THE REVISED STATUTES OF CANADA

PRINTED BY ORDER OF PARLIAMENT



OTTAWA

PRINTED BY S. E. DAWSON, PRINTER TO THE QUEEN'S MOST EXCELLENT MAJESTY

1897

[No. 9—1897.]

To the Right Honourable Sir John Campbell Hamilton-Gordon, Earl of Aberdeen; Viscount Formartine, Baron Haddo, Methlic, Tarves and Kellie, in the Peerage of Scotland; Viscount Gordon of Aberdeen, in the Peerage of the United Kingdom; Baronet of Nova Scotia, &c., &c., Governor General of Canada.

MY LORD:

I have the honour to lay before Your Excellency the Report of the Department of Public Works of Canada, for the fiscal year ended 30th June, 1896.

I have the honour to be,

My Lord,

Your Excellency's most obedient servant,

J. ISRAEL TARTE,

Minister of Public Works.

OTTAWA, March 26th, 1897.

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REPORT

OF THE

DEPUTY MINISTER OF PUBLIC WORKS

FOR THE FISCAL YEAR 1895-96.

DEPARTMENT OF PUBLIC WORKS,
OTTAWA, 22nd March, 1897.

The Honourable J. ISRAEL TARTE,
Minister of Public Works.

Sir,—I have the honour to submit the report of the Department of Public Works for the fiscal year ended on the 30th June, 1896.

The total amount expended during the period covered by this report has been as follows:—

Harbours, rivers, bridges, etc	8	656,009	70
Public buildings		735,757	83
Telegraphs		66,437	36
Miscellaneous, including salaries, etc		125,204	46
Total	\$ 1	,583,409	35

The expenditure for 1895-96, compared with the preceding year, shows an appreciable reduction as can be seen by comparison with that for the five previous years, which was as follows:—

For the	fiscal year	1890-91	\$2,762,020	98
do	do	1891-92	2,084,644	38
do	do	1892-93	2,274,448	47
dο	do	1893-94	2,315,021	67
do	do	1894-95	2,033,219	53

The revenue of the department from the various sources has amounted to \$102,439.12—a slight reduction on the preceding years, as the following table will show:—

	Revenue for	the year	1890-91	\$136,154	88
	do	do	1891-92	100,929	71
	do	do	1892-93	126,186	25
	do	do	1893-94	119,779	36
	do	do	1894-95	101,846	27
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REVENUE.

The falling off in the revenue has been noticeable specially in two branches thereof, viz., the graving docks and the telegraphs, the docks in 1892-93 having given the high income of \$43,007.30, while from the same source the department only received in 1895-96 the sum of \$23,011.85. The income from the telegraphs has gradually decreased from \$10,229.11 in 1892, to \$7,430.47 in 1896.

It may, however, be remarked that the smaller the revenue from dock charges, the better sign it is of a season free from accidents and casualties to the shipping industry of the country.

The competition from small docks has also contributed to materially reduce the income usually derived from that source, the charges for small vessels being in those works of less dimensions such as to compare most favourably with our schedule of rates, and those vessels finding it to their advantage to use the smaller docks in preference. The revenue at the Lévis dock was \$8,835.39; at Esquimalt, \$10,221.68, and at Kingston, \$3,954.78. At the latter place, as was referred to in my report of last year, the rates were reduced for the season of 1895 as an experiment in order to ascertain whether, as was claimed, the high rates were prohibitive and prevented the use of the dock by a larger number of vessels. The reduction in question had not, however, the expected result, but only brought about a serious decrease in the returns, the income for 1895 having only been \$2,450.33. The old rates were restored for the season of 1896, and, as can be seen, the revenue is greater than during the preceding year by \$1,504.45.

Concerning the revenue from the telegraph service, the gradual construction and extension of railways, and the concurrent establishment of telegraph lines, have had a tendency to reduce the volume of business on our lines, and consequently, the revenue derived therefrom. That was noticeably the case when railway facilities were extended in the North-west Territories from the main trunk line of the Canadian Pacific Railway towards Prince Albert in one direction and to south Edmonton in the other. The construction of the telegraph line, which went hand in hand with that of the railway, removed immediately a large volume of business which had heretofore been handled exclusively by our lines. Such was again the case when the Lake St. John Railway was completed to Chicoutimi, the wire then laid by the Great North-western Telegraph Company taking away from our Baie St. Paul and Chicoutimi line, mostly all its through business.

In the two cases above mentioned the reduction of revenue was at least 60 per cent.

The slides and booms revenue has, in the case of the Ottawa River works, retained about its ordinary normal level since the reduction of the rates in 1893—the income for the fiscal year under review being only \$2,700 less than the preceding year and having amounted to \$49,400.15, which sum was all collected at the end of the year, together with some arrears which bring the total collection for the year to \$50,123.33.

The dues received during the same period from the use of the St. Maurice River works have amounted to the sum of \$21,358.74, or \$7,052.21 more than in 1894-95.

Since the re-organization of this system in 1892, the revenue, which was very small, has followed a regular upward tendency, and after having shown for years an

annual deficit, the works on the St. Maurice River now bring forth a comfortable net income over all expenditure, the revenue during the last year being the largest received since the inception of the works.

As was foreshadowed in last year's report, an Order in Council was passed on the 5th February, 1896, for the abandonment of the works on the Saguenay River. the maintenance thereof being a somewhat important yearly charge, while for some years past the works had been unproductive.

A disagreement with the lumbermen operating in the Newcastle District as to the rates to be charged, has prevented the collection of revenue on those works for the past three years.

In 1892, Messrs. Mossom Boyd & Co., of Bobcaygeon, declined to pay dues upon a portion of the works, and the case having been carried to the Exchequer Court, it was decided that for the works on the Fenelon River the department was not entitled to collect any dues for any of the years from 1882 to 1892, and the amounts collected previous to the judgment of the court had to be refunded. The complaint of the lumbermen which has not yet been awarded upon, rests upon their plea that certain of the works for the use of which rates are being charged are either useless for the speedy passage of the lumber or render the operation more difficult and more expensive.

An examination has been made of the river and of the works in question, and a report will shortly be submitted which, it is hoped, will remove the difficulty complained of and will permit of the collection of revenue on these works without any danger of friction with the manufacturers of lumber.

Under ordinary normal conditions, it is confidently expected that the revenue of the next fiscal year on the works controlled by this department will exceed that of the past two years.

EXPENDITURE.

The expenditure of the department under the three heads of Harbours & Rivers Public Buildings and Telegraphs, has been controlled in the usual efficient manner by the officers in charge of these various branches, and has, as hereinbefore stated. amounted in the whole to the sum of \$1,583,409.25.

The important works on

HARBOURS AND RIVERS.

referred to in my last report as being in course of execution have been carried on as fast as the appropriations would permit, including the work at the eastern entrance to the harbour of Toronto, the contract with Messrs. Murray & Cleveland having been completed and closed. Provision has been made in the estimates laid before Parliament for works during the next fiscal year at Goderich, Owen Sound. Collingwood, Kincardine and other important points in Ontario, with a view of enhancing the accommodation required by the shipping and ever increasing commerce of the great western lakes. In the province of Quebec and in the Maritime Provinces, the various wharfs, landing places and breakwaters requiring attention have been repaired and extended.

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Noticeable among the works, the benefit of which will far exceed the expenditure incurred, have been those executed in order to provide safe landing places for the fishermen engaged in their calling on the Lower St. Lawrence. Loose and solid rock, obstructing the entrances at several points on the Gaspé coast, have been removed with very gratifying results. Provision has been made for the continuation of this useful work during the next fiscal year. A landing place has also been provided at Pointe-aux-Esquimaux, in the Gulf of St. Lawrence, and wharfs constructed at various points on Lake St. John and tributary rivers.

The problem of the direction of the current of the Fraser River in British Columbia and the protection of its banks, has, again engaged the attention of the department. This river, which is one of the largest and the most important of the province, and has its head waters at an elevation of about 3,000 feet above the sea, in the vicinity of the Yellow Head Pass, flows with a sinuous and, at points, very contracted course, for a distance of 900 miles to the Gulf of Georgia, wherein it empties about 8 miles north of the boundary. It has numerous tributaries, eight of the principal ones entering it from the right bank, viz.:-The North Fork, Salmon, Nechaco. Blackwater, Chilcotin, Harison, Pitt and Coquitlam Rivers, and three from the left bank, viz,:-the Willow, Quesnelle and Thompson Rivers. The water-shed of the Fraser and its tributaries embraces an area of not less than 70,000 square miles. Its main channel is spanned by four bridges, a road bridge at Lillooet, a cantilever railway bridge below Lytton, the Alexandria suspension bridge and the C.P.R. bridge at the Mission. It is affected by the inflowing tides to Chilliwhack, 48 miles above New Westminster, or 65 miles from the mouth. The extreme high level reached by the waters of the river in May, and again in June or July, the friable nature of the banks in some portions of its course, affect in a serious manner the direction of the stream and creates new channels which demand immediate and urgent measures. The erosion of the shores is constant but least during low water. As the river rises, the erosive energy of the current increases rapidly until the maximum is reached at the highest stage of water.

Various dyking and reclamation schemes have been proposed, but the special features connected with the floods, the current and the constant erosion of the shores, require more intimate knowledge of the conditions of the river, and a very careful study of its peculiarities before a scheme fertile in good results can be adopted. A careful survey has been decided upon, to be carried on during the next fiscal year.

The other rivers of British Columbia have also received attention; work has been done on the Columbia, Okanagan, Kootenay and Skeena rivers, and it is the intention of the department to send a dredge to Nanaimo to give a further depth of water for vessels frequenting that harbour.

The works of construction and repair, under the heading of Harbours and Rivers, have extended over one hundred points in the Dominion, operations having been carried on at twenty-four places in Nova Scotia, seven in New Brunswick, sixteen in Prince Edward Island, thirty-one in Quebec, fifteen in Ontario, one in Manitoba and six in British Columbia. One hundred and twenty surveys have been made throughout the year.

In the Maritime Provinces, the damage caused to the wharfs and piers by those terribly destructive worms, the teredo and limnoria, continues to claim the attention of the department.

As much as possible, crossoted timber is being used in the construction or repair of said works, but the cost of the material which has to be procured from the United States, and the fact that its use prevents that of our own lumber, call for the earnest consideration of the necessity of the establishment of crossoting works in this country, either as a public or a private enterprise.

DREDGING.

Foremost among the dredging operations performed under the direction of the department, stands the work done for the purpose of deepening and maintaining the ship channel from Montreal to Quebec to the standard depth of $27\frac{1}{2}$ feet. The work was done this year by four dredges, the "Laval" and Dredges No. 8, 11 and 12, the quantity of material removed having been 437,642 yards, and the cost of dredging depending on the nature of the material to be removed. Thus the average cost of the "Laval's" operation during the season was $46\frac{1}{2}$ cents per yard, while dredge "No 11" worked at an average cost of 17 cents per cubic yard.

In the Maritime Provinces, dredging was done at 17 points by 5 dredges, the "St. Lawrence," "Canada," "New Dominion," "George McKenzie" and "Prince Edward."

The average cost per cubic yard of material removed, ranged from 163 cents for the "St. Lawrence" to 57 cents for the "George McKenzie."

In Quebec, the dredges "St. Louis," "Nithsdale" and 'St. Pierre" worked at eight different points, the average cost of the "Nithsdale" being $33\frac{1}{2}$ cents per cubic yard and that of the "St. Louis," $19\frac{\pi}{5}$ cents per yard.

In Ontario dredging was performed at 19 points by five departmental dredges and two hired dredges. The five vessels owned by the department were the "Challenge," "Ontario," "Nipissing," "Queen" and "No. 9." The latter working on the Kaministiquia River at Fort William, performed its work at the cheapest rate known for some years in the department, the average cost per cubic yard having only amounted to $3\frac{1}{3}$ cents. The averages of the others were, "Challenge," $14\frac{1}{3}$ cents; "Ontario," $28\frac{1}{3}$ cents; "Nipissing," 17 cents, and "Queen," 14 cents.

The total number of yards removed by the whole fleet during the year was 1,079,754 yards.

PUBLIC BUILDINGS.

Of the public buildings mentioned in last year's report as being in course of construction, the Lazaretto at Tracadie, was finally completed during the last fiscal year. The erection of the drill hall at Halifax, the post office at Victoria and the post office at Pictou, was carried on vigorously and it is hoped will be finally completed during the next fiscal year. Owing to the difficulties experienced by the contractor for the Rimouski post office, the works were suspended during the latter part of the fiscal year, but steps were being taken at the same time to carry the building to a completion, and it is expected the same will be finished during the next year. Contracts were entered into during the year covered by this report for seven new buildings; one in Nova Scotia, the new immigration building at Halifax, to replace that destroyed by fire on the 27th January, 1895; two in Ontario, a post

office building, etc., at Amprior, and the Dominion Reformatory at Alexandria; one in Manitoba, a post office, etc., at Portage la Prairie, and one in British Columbia—the drill hall at New Westminster.

All the contracts for the above were awarded to the lowest tenderer after a public call for tenders had been made.

MAINTENANCE OF BUILDINGS, HEATING, ETC.

The work of maintenance of the several public buildings under the charge of this department, which number about 175, has been well carried on during the past fiscal year. Several important repairs have been executed to those structures, as mentioned in the appendices attached to this report and the various water, gas and heating services have been kept in good repair. The usual quantity of coal was purchased for the heating of the buildings outside of Ottawa, while 5,000 tons were purchased for the Ottawa buildings. The price of coal is being gradually reduced, the rates for 1895-96 being the same as for 1894-95 and somewhat below those of 1893-94. This will explain how the appropriation for heating public buildings has remained at the same amount for the years 1894-95 and 1895-96, although the number of buildings has gradually increased.

An increase in the cost of lighting the public buildings may, however, be noticed, this being due to the general demand for electric light and its consequent introduction in buildings where coal oil was hitherto used, as well as the substitution in a large number of places of electric light for gas, although in many instances this latter mode of illumination is cheaper but presents more difficulties as regards the proper ventilation of offices, where a large number of clerks are working together, such as the post offices in large cities.

The total expenditure on buildings for construction, repairs and maintenance, was \$735,757.83.

TELEGRAPHS.

There are two thousand six hundred and fifty-eight miles of telegraph lines under the control of the department, subdivided into two thousand four hundred and eighty-seven miles of land lines and two hundred and six miles of cables, as follows:—

· —	Land Lines.	Cables.
	Miles.	Miles.
n Newfoundland n Nova Scotia. n New Brunswick. n Quebec. n Ontario.	238 76 932 24	21 12 164 9
n British Columbia n North-west Territories	505	v
•	2,487	206

The British Columbia lines are the Ashcroft-Barkerville, the Victoria to Cape Beale, the Nanaimo to Comox and the Alberni-Nanaimo connections. The line in Ontario gives connection between Leamington, Pelee Point and points on Pelee Island. The Quebec system of telegraph is divided into five sections, that from Baie St. Paul to Chicoutimi, the River and Gulf line from Murray Bay to Pointe aux Esquimaux, the Quarantine line from Quebec to Grosse Ile, and the Anticosti and Magdalen Islands systems. In New Brunswick, the Government lines give communication between Chatham and Escuminac, and also between Eastport and Campobello, Grand Manan, Cheney's and Whitehead Islands.

The Nova Scotia lines extend from North Sydney to Meat Cove, whence connection is made with the Magdalen Islands and St. Paul's Islands by cables. There is also telegraphic communication under Government control between Mabou and Cheticamp, as well as between Barrington and Cape Sable. Lastly, may be mentioned the lines in the North-west Territories extending from Qu'Appelle to Edmonton and St. Albert, a distance of $607\frac{1}{2}$ miles, and that between Moosejaw and Wood Mountain, $90\frac{1}{2}$ miles.

The several lines of telegraph have been maintained to the required standard of efficiency throughout the year, the repair and maintenance work having been executed under the direct superintendence of the officers of this department.

Preparations have been made for the extension eastward of the line constructed on the north shore of the St. Lawrence, and it is the intention during the next fiscal year to carry it as far as Natashquan, an estimated distance of 84 miles.

GENERALLY.

The total volume of correspondence handled by the department during the fiscal year under review, amounts in round figures to about 25,000 letters received, 20,000 sent and nearly 11,000 cheques issued.

The appended reports submitted by the officers at the head of the several branches of the department, may be condensed as follows:—

The works specially under the control of the department and dealt with in this report are—

Building (public) their construction and maintenance.

Dredging and dredge vessels.

Graving docks.

Harbours and piers, their improvement and construction.

Roads and bridges.

Slides and booms.

Telegraphs.

Works on navigable rivers.

In addition to a general index, the principal appendices, and this report, are alphabetically arranged.

ACTS OF PARLIAMENT.

TITLES:—A list of such Acts as were passed by the Parliament of Canada, at the session which closed on the 23rd day of April, 1896, having reference to the department will be found in Appendix No. 5, page 191.

ART GALLERY-NATIONAL.

The additions to the National Art Gallery, during the last fiscal year consisted of two oil paintings, viz.:—"Death of Nelson," by George Philip Reinagle, R.A., and "The Photographer," by F. Brownell, R.C.A. The former was purchased by the Government. The latter was a diploma picture and the gift of the Royal Canadian Academy.

The Gallery received much attention from citizens, strangers and visitors to the city, last year, as is evidenced by the increased number of names entered on the register book.

The following table gives the number of persons who wrote their names in the visitor's list, each year, since the gallery was inaugurated:

1882-83	8,261
1883-84	
1884-85	
1885-86	8,792
1886-87	
1887-88	
1888-89	
1889-90	
1890-91	
1891-92	
1892-93	
1893-94	
1894-95	
1895-96	

This showing must be very gratifying and encouraging to all who take an interest in the development of a taste for art in Canada.

The report of the Curator will be found at page 257 of Appendix No. 13.

BRITISH COLUMBIA.

Buildings:—The building operations in this province during the fiscal year were, in brief as follows:—

Nanaimo, public building.—Additional gas fittings and steps were provided.

New Westminster, drill hall.—Contract for erection of building entered into, work in progress.

do post office.—Roof repaired, etc.

Vancouver public building .-- Minor repairs to roof, glazing, furniture, etc.

do gun shed.—Commenced and completed during the fiscal year.

Victoria, custom-house.—Repairs to fixtures and furniture.

- do new public building.—Fair progress in work of construction was made during the year.
- do post office, etc.—General repairs were done and some fittings and furniture supplied.
- do military storehouse .-- Building was completed and occupied.

Williams' Head, quarantine station.—Water supply improved, wagon road constructed, and some necessaries provided.

See Appendix No. 2, page 46.

DREDGING:—The dredge "Mud Lark" was engaged in deepening and improving the harbour of Victoria, 25,600 cubic yards of clay and gravel having been removed. More work would have been done and better results obtained, had not some unavoidable delays occurred, the most serious of which was caused by a fire which started on board of the tender "Princess" and was communicated to the dredge.

The snagboat "Samson" rendered very useful and effective service on the Fraser River, during the year, not only in the removal of snags, but in surveys, soundings, bank protection work, buoy service, etc.

The "Muskrat" was engaged on the Columbia River, during the year and performed much useful work towards facilitating navigation.

For a full and extended report of the operations of the dredge "Mud Lark" and snagboat "Sampson" see App. No. 3, page 153, and of the "Muskrat" at page 90.

HARBOURS AND RIVERS.—The operations, which the appropriations at the disposal of the department, enabled it to carry out in the Pacific province were as follows, viz.:—

Columbia River.—Improvement to navigation.

Fraser River	do	do
Kootenay River	do	do
Okanagan River	do	do

Skeena River:-Removal of snags.

Victoria Harbour: - Removal of dredger rock.

Many surveys and explorations were made whereby much information has been gathered as will better appear by perusal of the Chief Engineer's report at page 89 of App. No. 3.

COLLECTOR OF REVENUE.

The report of this officer will be found at page 175 of Appendix No. 4. All the dues that accrued during the year together with a small portion of old arrears, were collected. The total sum obtained this year as stated above, was \$95,008.65, exclusive of the telegraph revenue which was \$7,430.47:

CONTRACTS.

In Appendix No. 6, page 195, a list of all the contracts entered into by the department will be found. It specifies the service, the dates of the contracts, the amounts involved and the names of the contractors.

The same appendix also contains particulars of all the property purchased or sold during the fiscal year, with the names of the sellers and purchasers in each case, a description of the property and the price, together with a schedule of all leases entered into by the department.

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CORRESPONDENCE.

Reference to Appendix No. 14, at page 261, will give an idea of the volume of correspondence dealt with by the respective branches of the department. In the Chief Engineer's branch alone, about 10,000 letters were received, and no less than 840 official documents were referred by the secretary to that officer for action and advice.

The statement referred to displays the steady and rapid increase in the business of the department.

DREDGING PLANT.

The following is an inventory of the dredging plant, the property of the department, which was operated during the fiscal year, under the management and directions of the Engineer's branch:—

In the Maritime Provinces.

The propeller hopper dredge "St. Lawrence."

do do "Canada."

The dipper dredge "New Dominion" and 4 scows.

do do "Prince Edward," 3 scows and water boat.

do do "Geo. McKenzie" 4 do do

One stone lifter, boiler, engine and large grips.

In Quebec and Ontario.

The elevator	dredge	"No. 9,"	3	scows	and	tug	"Delisle."
The dipper	do	"Queen,"	2	"	"		"Ottawa."
do	do	"Nipissing,"	2	"	"		"St. Paul."
do	do	"Ontario,"	3	• "	"		"St. John."
do	do	"St. Louis,"	2	"	"		"Sensation."
do	do	"Challenge,"	2	"			"Trudeau."
Stone lifter N	To 1	0,					

In Manitoba.

The dipper dredge "Winnipeg," tug "Sir Hector," 2 scows and coal barge.

In British Columbia.

The snag boat "Samson."

The dipper dredge "Mud Lark," 3 scows, and tug "Princess."

Ship Channel, River St. Lawrence.

Four elevator dredges, tugs "John Pratt," "St. James," "St. Francis," "C. J. Brydges," "M. F. Parsons," "Cartier," 2 stone lifters, 2 coal barges, 12 dump scows of 80 yards capacity, 2 scows of 150 yards capacity, 1 sounding scow, 2 coal scows and 2 winch scows.

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New Dredging Plant.

One elevator dredge for the ship channel. Sister dredge to the "Laval."

One steel tug as tender to new dredge.

One steel dipper dredge for the maritime provinces.

Two steel hopper barges for salt water service.

The above vessels were in course of construction at the end of the fiscal year.

EXPENDITURE.

ACCOUNTANT'S STATEMENT:—The annual statement of expenditure by this officer appears in Appendix No. 1, commencing at page 3. It is full and comprehensive and gives, detailed in alphabetical order, the various sums expended under the authority of Parliament in each of the provinces, on the various services under the control of the department.

A summary of the amounts expended by each branch of the department, has already been referred to in the opening part of this report.

Appendix No. 15, at page 266, is another statement by the chief accountant showing in detail the various sums expended in necessary repairs, in order to preserve the public buildings "against the tooth of time."

GRAVING DOCKS.

The increase in the dimensions of ocean-going ships, has been so marked of recent years, that graving docks, which a decade ago were considered sufficient to accommodate the requirements of the country for all time, may soon be found quite insufficient to receive the class of vessels that the past few years have been placed on the ocean, or are in course of being built. One of these monster carriers, at present under construction at Belfast, Ireland, is said to be 704 feet long. As before referred to in this report, Canada owns three docks, the Lorne, on the St. Lawrence at Lévis, opposite the city of Quebec, the Esquimalt, at a place of the same name, near the city of Victoria, on the Pacific Ocean, and a smaller dock at the city of Kingston on Lake Ontario.

The Atlantic dock at Halifax is owned and controlled by the Halifax Graving Dock Co., Limited. Its construction was secured by subsidies from the Governments of the United Kingdom, Canada, and the city of Halifax.

The dimensions of the docks are as follows:-

THE LORNE—Commenced by the Harbour Commission of Quebec in 1878, was assumed and completed by this department in 1889:—

	-			Feet.
Length.				445
Width a	t coping level		•••••••••••••	100
do	bottom	• • • • • • • • • • • • • • • • • • • •		73
do	entrance			62
Depth of	f water on sill a	t high was	ter ordinary spring tides.	26 1
do	do	do	neap tides	$20\frac{7}{2}$

THE KINGSTON—was built by this department, having been completed in 1892:—

	reet.
Length on the floor	*280
Width do	
Width at coping level	79
Depth	$20\frac{1}{2}$
Depth of water on sill at low water	
Width of entrance	

(The level of Lake Ontario has a range of $3\frac{1}{2}$ feet.)

*This length can be increased 13 feet, by placing the caisson on the apron line.

THE ESQUIMALT—Completed by this department in 1887 :-

	Feet.
Length over keel blocks	430
Total length of dock	480.10 in.
Width at bottom	41
do coping level	90
do entrance	65
Depth of water on sill at high water, ordinary springs	$26\frac{1}{2}$

(Spring tides rise 7 to 10 feet, neaps 3 to 8 feet.)

THE HALIFAX—was built under agreement with and subject to the approval of this department; completed 1889:—

	Feet.
Length	585
Width at coping level	102
do bottom	72
do entrance	$89\frac{1}{4}$
Depth of water on sill at ordinary spring tides	30

(Spring tides rise 6 feet, neaps 3 feet.)

A more extended description of the graving docks operated by the department, will be found in Appendix No. 3, page 160, and the revenue or income from each, in Appendix No. 4, page 177.

Officials:—A complete list of all the officials employed in the operation and management of the graving docks, with age, date of appointment, salary, etc., is contained in Appendix No. 10, page 219.

MANITOBA.

Buildings.—The following is a summary of the work carried out during the fiscal year in connection with some of the public buildings in the province of Manitoba, viz.:—

Portage La Prairie new public building:—The contract for the construction of this building was entered into in July, 1895, the work is in progress.

Winnipeg, post office building:—A condemned boiler was replaced and some fittings, etc., supplied.

Winnipeg examining warehouse:—The skylights were closed up and the heating furnace repaired.

- do custom house:—Slight repairs were made to fixtures and some furniture supplied.
- do immigration hall:—Repairs were made to cistern and general minor repairs to the building.

See Appendix No. 2, page 44.

HNAUSA WHARF:—The wharf mentioned in my report of last year as being in course of construction at this place, has been completed by the department.

The contractor having failed to complete his contract within the time specified it was taken off his hands and the work finished by day labour.

See Appendix No. 3, page 89.

Dredging.—The dredging operation at the mouth of the Red River, Lake Winnipeg, commenced in 1884 has been continued since that date. The operations of this year consisted in the removal of 48,120 cubic yards of material at a cost of \$10,596.46.

Some dredging was also done at the western slough, an arm of the Red River near West Selkirk.

See Appendix No. 3, page 151.

MAJOR'S HILL PARK.

The reputation of this popular resort for neatness and attractiveness, was fully maintained during the past year. General improvements in the walks and grounds were made. Some levelling and grading around the artificial pond were attended to and necessary repairs to fences, etc., were executed.

NAVIGATION-OPENING AND CLOSING OF

Dates.—The various customs officials, who so promptly responded to my circular, asking for the dates of the opening and closing of the navigation at their respective ports, will please accept the thanks of the department.

As we shall continue to seek the same information in future, I would repleased if the customs officials will kindly give us in every instance, not the date of the last or first arrival of vessels, but the date of the forming of ice in the fall or winter and the date of its breaking up in the spring.

(See Appendix No. 11, page 224.)

NEW BRUNSWICK.

BREAKWATERS, WHARFS, &c.—The marine operations of the department in this province during the year covered by this report were as follows, viz.:

Anderson's Hollow, Albert Co.—Repairs to breakwater. Cape Tormentine, Westmoreland Co.—Repairs to wharf.

Dalhousie, Restigouche Co.-Repairs to wharf.

Gardner's Creek, St. John Co. - Construction of wharf.

Negro Point, St. John Co.—Repairs to breakwater.

River St. John.—Improvements to navigation.

Shediac (Pt. du Chene), Westmoreland Co.-Repairs to ballast wharf.

See Appendix No. 3, page 63.

Buildings:—Works necessary for the preservation and usefulness of the public buildings in this province, were executed as follows, viz.:—

Bathurst, post office.—Minor repairs to furnace, etc.

Chatham, post office.—Some plumbing was done and necessary furniture provided.

Dalhousie, post office.—The heating apparatus was repaired.

Fredericton, public building.—The asphalt walk was repaired and the post office accommodation improved.

Moncton, public building.—The furnace was renovated and ceilings repaired.

Newcastle, public building.—Extensive repairs, renewals and improvements were made to this building.

Partridge Island, quarantine station.—The large hospital was repaired and some other buildings whitewashed.

Portland (St. John), post office.—Some sanitary improvements were effected.

St. John, custom-house.—Considerable repairs and improvements were carried out.

St. John, post office.—Many and varied repairs, replacements and improvements were required and attended to.

St. John, savings bank.—Repairs were done to water service, fixtures, windows, locks, etc.

St. Stephen, public building.—Defective masonry was removed and replaced, ceilings and walls repaired and kalsomined, wood works, painted, oiled and varnished and surroundings improved.

Sussex, public building.—Hot air furnace was repaired and some ladders provided.

Tracadie, Lazaretto.—This structure was completed and occupied.

See Appendix No. 2, page 28.

Dredging.—Extensive dredging operations were carried on, chiefly on the St. John and Miramichi rivers, 98,905 cubic yards of material having been removed at a cost of \$21,352.63. The dredges worked during the season at the following places, viz.:—

Canada Eastern Railway wharf, Fredericton; Dominion Atlantic Railway Company's wharf, St. John; Fredericton, Miramichi River, Oromocto, Point du Chêne, Restigouche River, Richibucto.

See Appendix No. 3, page 104.

NORTH-WEST TERRITORIES

The principal works which engaged the attention of the Architect's branch of the department, in the Territories, during the year were as follows, viz.:—

Moosejaw, Assa., court-house.—A fire proof brick vault was constructed, the grounds surrounding the structure graded and other improvements effected.

Moosomin, court-house.—An addition to the structure commenced last year was completed and is now occupied.

do police barracks.—Minor repairs were effected.

Regina, Assa., court-house.—Some necessary requirements were placed in position.

Regina, Assa., Dominion lands office.—This office was fitted up with requisities necessary for occupation and the transaction of business.

Regina, Assa., Government House.—The water pipes were overhauled and repaired.

Regina, Assa., North-west Police Barracks.—Excavations were made and a stone basement constructed under Barrack block B., etc.

Wolseley, Assa., court house.—This building was completed and occupied. See Appendix No. 2, page 45.

NOVA SCOTIA.

BREAKWATERS, PIERS, WHARFS, ETC.—The following is an epitome of the harbour and river works which engaged the attention of the department and on which the sums available for improvement, construction or extension were expended, viz.:—

Arisaig, Antigonish Co.-Repairs to pier.

Bass River, Colchester Co.—Construction of wharf..

Bayfield, Antigonish Co.-Repairs to wharf.

do do Repairs to breakwater.

Belliveau's Cove, Digby Co.—Reconstruction of breakwater.

Big Pond, Cape Breton.-Repairs to wharf.

Boularderie, Ross Ferry, Victoria Co.-Construction of wharf.

Broad Cove, Inverness Co.—Reconstruction of wharf.

Cow Bay, Cape Breton Co.—Repairs to breakwater.

D'Escousse, Richmond Co.—Construction of slip, &c.

Digby, Digby Co.—Reconstruction of pier.

Eatonville, Cumberland Co.—Repairs to breakwater.

Economy, Colchester Co.—Repairs to wharf.

Georgeville, Antigonish Co.-Extension of wharf.

Grand Etang, Inverness Co.—Formation of boat harbour.

Hall's Harbour, King's Co.—Reconstruction of breakwater.

Harbourville, King's Co.—Repairs to breakwater.

Margaree, Inverness Co.—Beach protection.

Monk's Head, Antigonish Co.—Opening boat channel.

Parrsboro', Cumberland Co,-Improvements to pier.

Port Lorne, Annapolis Co.-Repairs to breakwater.

Port Maitland, Yarmouth Co.

Sea Side, Inverness Co.-Construction of wharf.

West Chezzetcook, Halifax Co.—Reconstruction of breakwater.

See Appendix No. 1, page 3 and Appendix No. 3, page 53.

Buildings.—The works carried on, during the fiscal year, in connection with the construction of new and the repairing of existing buildings in Nova Scotia, have been as follows:—

Amherst, public building .- Boilers repaired, plastering kalsomined, &c.

Annapolis, public building.—Burglar proof doors placed in brick vault.

Antigonish, public building.—General repairs to building, furnace and fence.

Dartmouth, public building.—The space surrounding the building was graded and a coal bin constructed.

Halifax, drill hall.—The work of construction under the contract has been vigorously carried on.

- do Dominion building.—Steam heating boiler was replaced, miscellaneous repairs effected, and some necessary furniture supplied.
- do examining warehouse.—Several minor repairs were done.
- do immigration building.—This structure to replace the one destroyed by fire is under construction.

Lawlor's Island, quarantine station.—Some painting and other work requisite for the preservation of the building were executed.

Pictou, post office.—The building has been completed, fitted and furnished.

Truro, post office.—The area in front of the building was asphalted and some minor defects restored.

Windsor, post office.—The money order office was enlarged and a sidewalk constructed.

See Appendix No. 2, page 26.

DREDGING.—The services of the plant available for dredging in Nova Scotia were utilized for necessary and urgent requirements, at the following places, viz.:—

Cheticamp,

Inverness Co.

Fourchu,

Richmond Co.

Ketch Harbour,

Halifax Co.

Pictou,

Pictou Co.

Wallace.

Cumberland Co.

See Appendix No. 3, page 102.

OFFICIALS.

A list, including the names and term of services, of the officials who filled the principal positions in the department, or are now filling them, from the time of its inauguration in 1841, to 1897, is given in Appendix No. 7, page 205.

ONTARIO.

Breakwaters, Piers, Wharfs, Etc.—The works upon which the department was engaged in connection with harbour improvements and the construction and repairs of breakwaters, piers, and wharfs in the province of Ontario during the year may be classified as follows, viz.:—

Big Bay, Grey Co.—Repairs to pier.

Burlington Channel, Wentworth Co.—Repairs and improvements.

Cobourg, Northumberland Co.—Repairs to pier.

Collingwood, Simcoe Co.—Repairs to breakwater.

Kincardine, Bruce Co.—Repairs to north pier.

Kingston, Frontenac Co.—Removal of shoal.

Lion's Head, Bruce Co.—Repairs to pier.

Morpeth, Kent Co.

ďο

Oakville, Halton Co.

do

Owen Sound, Grey Co.-Harbour improvements.

Port Dover, Norfolk Co.

do

Port Elgin, Bruce Co.—Repairs to breakwater, &c.

Port Hope, Durham Co.—Repairs to piers.

Toronto, York Co.—Harbour works.

Thessalon, Algoma Co.—Construction of wharf.

See Appendix No. 3 page 85.

Buildings.—The doings of the department in connection with building operations, and with works for the repair, preservation and improvement of existing structures may be stated shortly as follows:—

Alexandria reformatory.—The portions of this building, for the construction of which provision was made, was placed under contract.

Almonte, public building.—A winter porch was placed at rear entrance.

Amherstburg, post office, etc. - Closets were repaired and hose supplied.

Barrie, post office, etc.—Roof was repaired and other requirements supplied.

Belleville, post office.—Usual, ordinary and necessary repairs were effected.

Berlin, post office, etc.—Ordinary and usual repairs were attended to.

Brampton, post office, etc.—Minor works of repair of the ordinary nature were executed.

Brantford, post office, etc.—Repairs were made to the boiler, plastering etc.

Brockville, public building.—Some renewals were required to plumbing and repairs to plastering, etc.

Cayuga, post office.—Necessary shelving was supplied.

Chatham, public building.—The grounds were boulevarded and inclosed with a fence.

Cobourg, post office, etc.—A stone kerb and cement sidewalk was laid on street fronts and some general repairs done.

- Cornwall, post office, etc.—The old furnace which collapsed was replaced and the tower clock was repaired.
- Galt, post office, etc.—The drain was repaired, a heating coil put in and some minor requirements supplied.
- Guelph, post office, etc.—The furnace smoke stack was repaired.
- Hamilton, public building.—General repairs to building, surroundings and water connections were effected.
- Kingston, custom-house.—A granolithic sidewalk was laid along the street fronts.
 - do post office. A granolithic sidewalk was laid along the street fronts, the building was repaired and some furniture was supplied.
- Lindsay, post office.—Roof was repaired and furniture, etc., supplied.
- London, custom house.—The old steam boiler was replaced etc.
 - do post office.—General repairs and renewals were effected.
- Napanee, public building.—Storm sashes were supplied and minor repairs done.
- Orangeville, post office.—Repairs were made to gas fixtures, etc., and lobby floor was replaced.
- Orillia, public building.—The furnace was repaired and the electric light installed.
- Ottawa, central experimental farm.—A sheep house is in course of construction and necessary repairs, renewals, improvements, replacements, painting, etc., attended to by the departmental staff.
 - do dynamo house.—Setting of boiler renewed and grounds improved, etc.
 - do eastern block, departmental buildings.—The structure was generally cared for and such conveniences and requirements as were necessary supplied and provided. Usual and ordinary repairs for the preservation of the building were effected.
 - do geological museum.—The system of heating was improved and, some electric bells placed in position.
 - do government house.—Many additions, alterations, renovations, improvements, and repairs were made to the structure, outhouses, and general surroundings.
 - do government printing bureau.—Some changes were made in the heating apparatus, in the water supply and other minor improvements were done and requisites supplied.
 - do Langevin block.—Considering the extent of this structure the requirements during the year were not excessive.
 - do Major's Hill park.—Fences were repaired, benches painted, etc.
 - do observatory, Cliff street.—A sidewalk was laid and the grounds were levelled.
 - do parliament buildings.—A number of new fittings and fixtures that gave out were replaced and the usual general cleaning, burnishing, etc., attended to.

Ottawa parliament grounds.—Snow was removed, ice was stored and delivered, general repairs were made to Lover's walk, etc.

do public buildings and generally.—The work of removing snow and ashes, the keeping up of streets, roadways, sidewalks, boulevards, etc., in connection with government property in the city, was well performed by the departmental staff during the year.

do Supreme and Exchequer Court building.—Some additions were made to the gas fittings and minor requisites supplied.

do Western block, departmental building.—Considerable work in the way of renovations, repairs and general improvement, together with the usual and ordinary annual repairs required by such a structure were carried out.

Pembroke, post office, etc.—Necessary repairs were done.

Peterborough, custom-house.—Office doors were repaired and drains cleaned.

do post office.—The sewer was flushed out, some repairing was done and electric light was installed in clock tower.

Petrolea, public building.—Minor repairs of the usual and ordinary nature were attended to.

Port Arthur, public building.—The heating furnace, plastering, etc., were repaired.

Port Hope, public building.—The old furnace was replaced by a new one-Prescott, public building.—Plumbing arrangements were so fixed as to obtain a water supply from an adjoining hotel.

Sarnia, Point Edward cattle quarantine station.—Repairs to office flooring were made.

St. Catharines, public building.—Plumbing, etc., were repaired.

St. Thomas, public building.—The outside stone work was repointed, and other outside improvements provided.

Stratford, public building.—The works of enlarging commenced last year were completed and the heating appliances renewed and extended.

Strathroy, public building.—Minor repairs to wood work, locks, etc., were made.

Toronto, custom-house.—Considerable repairing of a general nature was required and executed.

do Drill hall.—Some necessary requirements were supplied and minor repairs done.

do Examining warehouse.—Considerable repairs were required by some of the various appliances in use throughout the building and were attended to.

do Inland revenue building.—Many repairs were required by the appliances and fixtures all of which were placed in good order.

do Post office.—Minor repairs were made to fixtures, fittings, etc.

Trenton, post office.—Portions of the plumbing and soil pipes were renewed.

Walkerton, post office.—Roof was repaired and a new drain excavated.

See Appendix No. 2, page 34.

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A. 1897

DREDGING.—The plant available for dredging in the province of Ontario was engaged during the season as follows:—

Bell River, Amherstburg, Bowmanville, Belleville, Frenchman's Bay, Fort Erie, Meaford, Kincardine, Newcastle, Midland, Penetanguishene, Port Elgin, Port Hope, Prescott, River Kaministiquia, River Saugeen, River Thames, Thornbury.

Trenton.

See Appendix No. 3, page 135.

PARLIAMENT HILL GROUNDS.

The contractor who had charge of the keeping and dressing of the walks and grounds surrounding the Parliament buildings, performed the services according to the specification and in a manner entirely satisfactory to the department.

PRINCE EDWARD ISLAND.

BREAKWATERS, PIERS, WHARFS, Etc.:—The following is a synopsis of the works carried out during the fiscal year with the object of improving and facilitating navigation in the harbours and rivers of Prince Edward Island. viz.:—

Belfast, Queen's County.—Repairs to pier.

Brae, Prince Co.—Repairs to pier.

Clifton, Queen's Co.-Repairs to pier.

Kier's Shore, Prince Co.—Repairs to pier.

Lambert's, King's Co.—Repairs to pier.

McGee's, Prince Co.-Repairs to pier.

Murray Harbour, King's Co.-Repairs to pier.

New London, Queen's Co.—Reconstruction of breakwater.

North Cardigan, King's Co.—Repairs to pier.

Pinette, Queen's Co.-Repairs to pier.

Port Selkirk, Queen's Co.—Repairs to pier.

Rustico North, Queen's Co.-Repairs to old work and construction of new.

Souris, King's Co.—Repairs to breakwater.

Stephen's, King's Co.—Repairs to pier.

Victoria (Crapaud), Queen's Co.—Repairs to pier.

Wood Islands, Queen's Co.—Construction of pile work.

See Appendix No. 3, page 70.

Public Buildings.—Charlottetown, public building. A portion of tile drain, leading to the harbour was renewed, and other general repairs inside and outside the building effected.

See Appendix No. 2, page 25.

DREDGING .- The dredge "Prince Edward" operated at the following places, viz.: Cardigan Bridge, Charlottetown, Newport, Souris.

The quantity of material removed was 36,360 cubic yards at a cost of \$10,299.93 or 28.328 cts. per cubic yard. See Appendix No. 3, page 107.

QUEBEC.

BREAKWATERS, PIERS, WHARFS, ETC.—The works executed in the province of Quebec in connection with harbour and river improvements and the construction and repair of wharfs, piers and breakwaters, during the fiscal year under consideration may be summarized as follows, viz.:-

> Baie St. Paul, Charlevoix Co.-Construction of wharf. Berthier (en bas) Montmagny Co.—Repairs to wharf. Chateauguay, Chateauguay Co.-Extension of wharf. Chicoutimi, Chicoutimi Co.—Repairs to wharf. Etang du Nord, Gaspé Co.—Repairs to breakwater. Grande Rivière, Gaspé Co.—Extension to wharf. Ile aux Coudres. Charlevoix Co.—Repairs to wharf.

Lacolle, St. John's Co.—Repairs to wharf.

Landing Places (Lower St. Lawrence)-Improvement of boat landing.

Lapraire, Laprairie Co.—Protection work.

Les Eboulements, Charlevoix Co.—Repairs to wharf.

Longueuil, Chambly Co.—Repairs to pier.

Matane, Rimouski Co.—Repairs to breakwater.

Murray Bay, Charlevoix Co.-Repairs to wharf.

Petite Rivière St. François, Charlevoix Co.—Removal of rocks.

Philipsburg, Missisquoi'Co.—Construction of wharf.

Pointe aux Esquimaux, Saguenay Co.—Extension of wharf, etc.

Rivière du Lièvre, Ottawa Co.—Repairs to lock, dam. etc.

Rivière du Loup (en bas) Témiscouata Co.—Repairs to wharf.

Rivière Noire, Charlevoix Co.—Construction of breakwater.

River St. Maurice.—Improvements to navigation.

River Touladie, Témiscouata Co.-Improvements to navigation.

River Yamaska, Yamaska Co.—Repairs to lock and dam.

Ste. Anne de la Pérade, Champlain Co.—Protection work.

Ste. Anne du Saguenay, Chicoutimi Co.-Repairs to block.

Ste. Cécile du Bic, Rimouski Co.—Repairs to wharf.

Ste. Felicien, Chicoutimi Co.—Construction of wharf. St. Irénée, Charlevoix Co.-Extension of wharf.

St. Jean, Ile d'Orleans, Montmorency Co.—Repairs to pier.

St. Laurent, Ile d'Orleans, Montmorency Co.—Repairs to pier.

Trois Pistoles, Témiscouata Co.—Removal of rocks.

See Appendix No. 3, page 77.

Buildings:—The following is a synopsis of the operations of the department during the fiscal year in connection with the erection, repair, preservation, improvement and maintenance of public buildings in the province of Quebec:-

> Aylmer, post office.—This building was connected with the town water service and the electric light was installed.

Fraserville, post office.—Repairs to roof.

Grosse Isle, quarantine station.—The SS. "Challenger" was painted and several buildings repaired.

Joliette, public building.—Repairs were made to roof and chimney.

Lachine, post office.—A tile drain was laid to the River St. Lawrence and some repairs done to building.

Montreal, custom-house.—A considerable amount of repairs were required and executed.

- do examining warehouse.—Many alterations and improvements were , required and carried out.
- do inland revenue office.—Repairs were made to roof, etc.
- do post office.—Extensive repairs, renewals, improvements and alterations were required and effected.
- Quebec, citadel, Governor General's quarters.—The usual annual fitting up for His Excellency's visit was attended to and necessary repairs done.
 - do custom-house.—General repairs were effected.
 - do examining warehouse.—A sidewalk was laid around the building and considerable repairing done.
 - do immigration building, Louise embankment.—Several repairs for the preservation of the building were required and effected.
 - do marine and immigration agency, Queen's wharf.—Improved sanitary arrangements were provided and the interior of the building cleaned and painted, etc.
 - do observatory.—Furnace was repaired, coils placed and grounds fenced in.
 - do post office.—Electric light was installed in new wing and many other improvements effected.

Richmond, public building.—A contract for the erection of this building was entered into in 1895, and the work is in progress.

Rimouski, post office.—The contractor having abandoned this work, steps are being taken to complete it.

St. Henri, post office.—Necessary repairs were done and urgent requirements supplied.

St. Hyacinthe, post office.—Ordinary repairs were executed and ladders supplied.

St. Jérome, public building.—Floor, chimneys and roof were repaired.

St. Lin, post office. —A building was leased, fitted up and occupied.

St. Vincent de Paul, penitentiary.—Extensive lines of stone walls were built and many other improvements and repairs effected.

Sherbrooke, post office.—A furnace smoke-pipe was supplied and lock boxes repaired.

Sorel, post office.—Usual and ordinary repairs were done.

Three Rivers, custom-house.—General repairs were made to inside work and a sidewalk laid along the street.

do post office.—A sidewalk was laid and some general repairs executed.

Valleyfield, post office.—Extensive repairs were required and effected.

xxii

West Farnham, post office.—The interior was painted and blinds, etc., supplied.

(See Appendix No. 2, page 30.)

DREDGING.—In addition to the operations carried on at nine separate points in the River St. Lawrence Ship Channel, between Montreal and Quebec, as described in Appendix No. 3, page 128, dredging was also done at Chateauguay, Dorval, Ile de Gros Bois, Laprairie, Longueuil, Louiseville, Nicolet, St. Placide.

(Appendix No. 3, page 134.)

REVENUE.

As stated in a previous part of this report, a diminished revenue was derived from some of the works under the control of the department when compared with the preceding years.

The income during the past fiscal year was as follows, viz.:-

SLIDES AND BOOMS.

Ottawa districtSt. Maurice district		33 74		
Total			\$ 71.482.05	
TOTAL .		• • • • •	W11,102 01	
GRAVING DOCKS.				
Lévis	\$ 8,835	3 9		
Kingston	3,954			
Esquimalt	10,221			
Total	••••••	••••	23,011 85	
RIVER WORKS—LOCKS.				
River du Lièvre lock				
Total			514 73	
Telegraph Lines.				
Lower St. Lawrence and Maritime Pro-				
vinces	\$ 4,409	15		
Ontario and Pelee Island line	121	80		
North-west telegraph lines	1,381	24		
British Columbia (Comox line, &c.)	1,518	28		
Total	••••••		7,403 47	
		*	102,439 12	

^{*} Of this sum, \$427.90 was refunded in compliance with Order in Council, 15th June, 1895.

ROADS AND BRIDGES.

Works in connection with certain bridges under the control of the department were carried out during the fiscal year as follows, viz.:—

Battle River bridge, Battleford.—Repaired and painted.

Burlington bridge, Burlington Channel.—Under construction, nearly completed.

Cartier bridge, Beauharnois Co.-Completed.

Langevin bridge, Calgary.—Repaired.

Ottawa bridges, Ottawa.—Repaired.

Portage du Fort bridge, Pontiac Co.—Repaired.

Further particulars may be obtained by referring to the report of the Chief Engineer of the department, at page 168 of Appendix No. 3.

SLIDES AND BOOMS.

The reports of the officers in charge of the slides and booms, will be found in Appendix No. 3, commencing at page 161. In addition to the reference made to these works in a preceding page, an extended report touching their financial standing may be seen by reference to Appendix No. 4, page 181.

Appendix No. 8, page 209, contains a list of the names of persons employed on the slides and booms, with dates of birth, appointment and amount of salary.

SURVEYS AND EXAMINATIONS.

During the fical year as before referred to, competent officers acting under instructions from the department, made many surveys, examinations and reports, either on the present condition of existing works, the practicability of complying with demands for extending or enlarging some of them, or on the necessity and utility of further improvements for the safety and convenience of shipping, by the construction of breakwaters, dredging or other means; such surveys and examinations were made at the following places in the counties mentioned:—

NOVA SCOTIA.

Arisaig	
Aspey Bay	
Bayfield	Antigonish.
Bear Cove	Digby.
Carey's Passage	Richmond.
Cerberus Rock	do
Cow Bay	Cape Breton.
Cribbin's Point	
East Chezzeteook	Halifax.
Fourehu	Richmond.
Grand Etang	Inverness.
Grand Grève	Richmond.
Great Tancook Island	Lunenburg.
Hampton	
Kennington Cove	

NOVA SCOTIA—Concluded.

Lismore	·····. Pictou.
Mabou	Inverness.
Main à Dieu	Cape Breton.
Margaree	Inverness.
Merigomish	Pictou
Morden	
Moydart	Antigonish.
McNair's Cove	
North Sydney	
Oyster Pond	
Petit de Grat	
Pictou Island	
Pleasant Bay	lnverness.
Port Maitland	Yarmouth.
River Hebert	
Saulnierville	
St. François Harbour	Guysborough.
Somerville	
Stony Island	Shelburne.
Toney River	
Trenton	do
Trout Cove	Digby.

NEW BRUNSWICK.

Anderson's Hollow	Albert.
Black Brook	
Black River	
Burnt Church	Northumberland.
Campbellton	Restigouche.
Cape Tormentine	Westmoreland.
Dalhousie	Restigouche.
Edgett's Landing	Albert.
Fort Dufferin	St. John.
Gardner's Creek	do
Gray's Island	Albert.
Herring Cove	do
Hillsborough	d o
Lower Newcastle	Northumberland.
Miramichi	do
Moneton	Westmoreland.
Negro Point	St. John.
Negnac	\dots Northumberland
Patridge Island	St. John.
Petit Rocher	Gloucester.
Pokemouche	do
Quaco	St. John.

NEW BRUNSWICK-Concluded.

Richibueto	Kent.
Rocher Bay	Albert.
Salmon River	do
Shediac	Westmoreland.
Shippegan	Glou c ester.
Stonehaven	do
Tracadie	do
River St. John	

PRINCE EDWARD ISLAND.

Bay Fortune	.King's.
Bræ Harbour	
Canoe Cove	.Queen's.
Egmont Bay	. do
Hurd's Point	Prince.
Lambert's Pier	.King's.
Murray Harbour	. do
New London	Queen's.
Port Selkirk	do
Rustico	do
Souris	.King's.
Tignish	.Prince.
Vernon River	.Queen's.

QUEBEC.

Bie	Rimouski.
Coteau du Lac	. Soulanges.
Coteau Landing	do
Gentilly	Nicolet.
Ile aux Coudres	Charlevoix.
Ile Perrot	Vaudreuil.
Les Eboulements	Charlevoix.
Little River St. François	do
Longueul	Chambly.
Murray Bay	Charlevoix.
Oak Point	
Percé	Gaspé.
Pointe Citrouille	
Pointe St. Charles	
Rivière Blondelle	
Rivière du Loup	Temiscouata.
Rivière Noire	
St. Lambert	
St. Alphonse	
· · · · · · · · · · · · · · · · · · ·	

ONTABIO.

Amherstburgh	Fagor
Bronté	Walton
Burlington Beach.	Wontmonth
Coburg	Wentworth,
Goderich.	Turon
Kingston	Hurou.
Kingston	r rontenac.
Kingsville	Dussex.
L'Orignal Owen Sound	Prescott.
Owen Sound	Grey.
Port Burwell	Elgin.
Port Hope	Noriolk.
Port Hope	Durham.
Prescott	Grenville.
Rainy River	Algoma.
River Castor.	Stormont.
River Saugeen.	Bruce.
THE VOI. TURMER	
Toronto	York.
	•
MANITOBA.	
Gimli	Salkirk
Red River	do
	•••• uv
BRITISH COLUMBIA.	
Victoria	Harbour.

I have the honour to be, sir,

Your obedient servant,

A. GOBEIL,

Deputy Minister.

APPENDIX No. 1

STATEMENT OF EXPENDITURE

DURING

FISCAL YEAR ENDED 30TH JUNE, 1896

BY

O. DIONNE, Accountant

(Reference No. 179,199.)

APPENDIX No. 1.

STATEMENT showing the amount expended by the Department of Public Works, Dominion of Canada, during the fiscal year ended 30th June, 1896.

- The second of	provements.	Repairs.	and Main- tenance.	Total.	
PUBLIC BUILDINGS.	\$ cts.	\$ cts.	\$ ets.	\$ cts	
Nova Scotia.					
nherst post office, &cnapolis do		727 03		727 03	
nnapolis do	} • • • • • • • • •			254 31	
ntigonish do richat do				110 12	
addeck do				1 75	
do		121 49		121 4 9	
alifay Aprile		140 54		140 54	
1 Assistant Receiver Concrete Office went	1	15 85	1,200 00	1,215 85	
do Dominion building		990 89		990 89	
do engineer! on	19,993 63			19,993 63	
do engineer's office -rent			320 00	320 00	
do drill hall engineer's office -rent examining warehouse -rent immigrant building (new) do (temporary) Lawlor's Island custantine station		85 30	1,207 00	1,292 30	
do minigrant building (new)	23,449 68	100.00	····	23,449 68 102 00	
do Lawlor's Island (temporary)	· · · · · · · · · · · · · · · · · · ·	94 35		94 35	
			0 24	0 24	
do penitentiary—rent	4 594 70	25 45	0 24	4,550 18	
appan experimental farm	4,024 10	384 78		384 78	
ew Glasgow post office, &c		1 89		1 89	
				8 9	
			1	16 0	
ictou custom-house. do post office		14 00	1	14 0	
do post office. do quarantine station. oint Edward outprotein	8,437 98			8,437 9	
oint Edmentine station.	.}	32 20		32 2	
vdnor - duarantine station		. 200 00		236 0	
quarantine station. oint Edward quarantine station. ydney post office pringhill custom-house ruro post office, &c		62 92		62 9: 91 2:	
ruro post office be	{	91 22 132 61		132 6	
vindsor post office fro		343 80		343 8	
runo post office, &c. Vindsor post office, &c. Samouth do		29 83		298	
do	• • • • • • • • • • • • • • • • • • • •	25 65		20 0	
Prince Edward Island.					
Charlottetown Dominion building		790 73		790 7	
Lontague post office		10 93		10 9	
ummerside do		23 71		23 7	
,	1	1			
New Brunswick.					
Sathurst post office, &c	1	10 50	1	10 7	
Arleton, St. John nost office to		2 50		2 5	
				264	
				51	
redericton do		442 90		442	
Marysville do	53 85			53	
Milltown custom-house.		2 50		2 8	
Person post omce, &c		.) 80 20		80 :	
				1,965	
artridge Island quarantine station		150 50		150	
St. Andrews		. 273 63		404	
ortland quarantine station. Ortland post office—rent St. Andrews post office.		10 17		10	
Carried forward			2,858 14	67,421	

Name of Works.	Con- struction and Im- provements.	Repairs.	Staff and Main- tenance.	Total.	
PUBLIC BUILDINGS—Continued.	\$ cts.	\$ cts.	\$ cts.	\$ cts	
Brought forward	56,459 84	8,103 87	2,858 14	67,421 85	
New Brunswick—Concluded.			Í	,	
St. John custom-house	381 36	2,255 29	22 00	2,658 65	
do inland revenue office	l	85 00		85 00	
do post office				1,000 11	
do savings bankdo steamboat inspector's office	• • • • • • • • • • • • • • • • • • • •	9 65 0 75	• • • • • • • • • • • • • • • • • • • •	9 65	
St. Stephen's post office, &c		812 97		0 75 812 97	
Sussex do		44 33		44 33	
Tracadie lazaretto	19,999 50			19,999 50	
Woodstock post office, &c		18 20		18 20	
Maritime Provinces.					
Generally			1,301 72	1,301 72	
Quebec.					
Aylmer post office		117 04		117 04	
Coaticook do		58 28		58 28	
Grosse Ile quarantine station. Hull post office, &c	900 49	437 06	· · · · · · · · ·	1,337 55	
Hull post office, &c		8 80		8 80	
Joliette do Lachine do	• • • • • •	22 87 213 25	· · · · • · · · · · · · · · · · · · · ·	22 87 313 25	
Laprairie do		164 50		164 50	
Montreal civil service examination office (rent)			25 00	25 00	
do custom-house		, -,		3,450 76	
do drill halldo examining warehouse	• • • • • • • • • • • • • • • • • • • •	7 50		7 50	
do examining warehousedo immigration office (rent)	• • • • • • • • • • • • • • • • • • • •	2,322 68 65 00	466 60	2,322 68	
do inland revenue office		500 34	400 00	531 60 500 34	
do post office	8,122 91	3,189 43		11,312 34	
do public buildings generally		270 00		270 00	
Quebec citadel buildings				1,315 39	
do custom-house		230 62	• • • • • • • • • •	231 41	
do engineer's office (rent)do examining warehouse		202 00	144 00	232 63 144 00	
do examining warehouse		390 74		390 74	
do gas inspection office		426 63		426 63	
do immigrant buildings, Louise embankment		981 70	<i>.</i>	001 50	
do observatory				981 70 203 84	
do post office, new wing, &cdo Queen's wharf building	2,498 77			2,827 68	
do Queen's wharf building		179 75		179 75	
Richmond post office, &c	1,629 50			1,629 50	
Rimouski do Fraserville) nost office &c	5,297 40	95 37 14 10	•• ••••	5,392 77	
Sherbrooke post office, &c	l	198 90		14 10 198 90	
Sorel do		2 00		2 90	
St. Henri do	•	926 64		926 64	
St. Hyacinthe do		236 72		236 72	
St. Jérôme do St. John's do	· · · · · · · · · · · · · · · · · · ·	61 90 37 70		61 90	
St. Lin (Laurentides) post office, &c.—rent		647 36	350 00	37 70 997 96	
St. Vincent de Paul penitentiary	12,992 35	32, 50	390 00	997 36 12,992 35	
Three Rivers custom-house		306 43		306 43	
do exhibition building				3 60	
do post office		272 28		272 28	
West Farnham do			329 70	608 58	
Dominion buildings generally		1,389 71		265 40 1,389 71	
	i			1,000 (1	

Name of Works.	Con- struction and Im- provements.	Repairs.	Staff and Main- tenance.	Total.
PUBLIC BUILDINGS—Continued.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Brought forward	108,285 72	32,182 07	5,497 16	145,964 95
Ontario.				
Alexandria reformatory	6,125 42			£ 195 49
Almonte post office &c		2.00		$6,125 42 \\ 2 00$
Amherstburg post office, &c		37 62		37 62
Arnprior do	4,707 35		•••••	4,707 35
Barrie do		117 80 99 32	· · · · · · · · · · · · · · · · · · ·	117 80
Belleville do		18 60		99 32 18 60
Brampton do		12 10		12 10
Brantford do		19 25		19 25
Brockville do	1,457 82	239 10		1,696 92
Carleton Place do		18 85		18 85
OF THE PERSON NAMED IN COLUMN TO PERSON NAME		24 32		24 32
Chatham do		134 75 1 50		134 75
Cohourg do		694 90		1 50 694 90
Cornwall do		323 15		323 15
Oundas post office—rent			375 00	375 00
Galt do &c		47 18		47 18
oderich do		5 70 220 65		5 70
uelph do		17 00	• • • • • • • • • • • • •	220 65
Hamilton custom-housedo drill hall		11 75	• • • • • • • • • • • • • • • • • • • •	17 00 11 75
do post office.		120 57		120 57
Kingston augtom hause	l	546 31		546 31
do evenining warehouse		17 03		17 03
do' post office		974 10		974 10
Lindsay do	• • • • • · · · · · · · ·	131 00 992 80	• • • • • • • • • • • • • • • • • • • •	131 00
London custom-housedo infantry barracks	• • • • • • • • • •	41 45	••••••	992 80
do post office		660 26		41 45 660 26
Nananaa da Ara		9 30		5 30
Norwick inland revenue office (furniture)		20 00		20 00
Prangeville nost office &c		139 04		139 04
Drillia do		00 76		66 76
Ottawa, Bank of Ottawa building—rent do lighting			2,080 00	2,080 00
de Demoderación office do			35 64 19 15	35 64 19 15
do somel begin sool shed wort			600 00	600 00
do Control Chambons do	i		200 00	200 00
do Ciril Coming amount on office rent	1		171 90	171 90
do examining warehouse—rent			850 00	850 00
do do lighting	2 755 69	499 68	5 40	5 40
do experimental farm—sheep building do geological nuseum—rent	3,100 02	329 50	150 00	4,255 30 479 50
			268 80	268 80
do national ant callery	1		999 90	999 90
do nost office		01/1/09		810 83
do do lighting	l		1,944 80	1,944 80
do rumpting humans		2.002 00	1 097 0	2,954 33
do do lighting			1,037 85 4,289 03	1,037 85 4,289 03
do engineer and firemen		90.964 42	7,400 00	90,964 42
do public buildingsdo do electric light and gas		33,302.20	21,227 23	21,227 23
Uttawa public buildings grounds	l	1	0,004 00	5,994 88
do do do lighting			651 95	651 95
do do heating			00,710 74	55,715 74
do do Langevin block		4,838 50	· · · · · · · · · · · · · · · · · · ·	4,838 50
do do do engineer and	1	l .	0 000 00	0.000.00
do do do lighting			8,899 02 1,299 45	8,899 02 1,299 45
do do lighting				

Name of Works.		Con- struction and Im- rovements.	Repairs.	Staff and Main- tenance.	Total.
PUBLIC BUILDINGS—	Continued.	\$ cts. \$		\$ cts.	\$ cts.
Brought forward	1	124,331 93	138,339 49	112,312 90	374,984 32
Ontario-Conclude	d.				
Ottawa public buildings, removal of	snow			2,165 59	2,165 59
do do Major's H	ill park			3,999 25	3,999 25
do do telephonic	service			3,915 86	3,915 86
	s rooms, Sussex			240 00	240 00
do do translators	' rooms. Sussex		ļ	210 00	210 00
street—li	ghting			109 35	109 35
do do water do do work shop	s—rent		• • • • • • • • • • • • • • • • • • • •	14,996 54 1,442 84	14,996 54 1,442 84
do do do	lighting			427 50	427 50
do do street and	lightingbridges—lighting			2,869 75	2,869 75
do Supreme Court—lighting			175 00	82 50	257 50
do do firemen, & Owen Sound post office	c		5 00	495 00	495 00 5 00
					13 34
Peterborough custom-house			44 50		44 50
do post office			87 15		87 15
Petrolea do &c Picton do &c Point Edward cattle quarantine sta		4 198 78	7 78		7 78 4,135 75
Point Edward cattle quarantine sta	tion	4,130 10	20.00		20 00
Port Arthur immigrant building	uon		17 10		17 10
do post office	<i></i>		82 50		82 50
	 				4 48
Property do		• • • • • • • • • • •	319 50	,	319 50 22 25
Prescott do Public buildings generally			22 20	595 10	595 10
Kidean Hall— heating apparatus.	electric lighting.				
new dairy, &c do fuel and light (allowa		1,277 55	13,861 82		15,139 37
do fuel and light (allowa do removal of snow	nce)	•••••••	• • • • • • • • • • • • • • • • • • • •	320 34	8,000 00 320 34
do caretakers				594 00	594 00
Smith's Falls post office, &c Stratford do damage		1,742 65	154 75		1,897 40
Stratford do damage	by fire ry—rent	4,751 89	30 10	100.00	4,781 99
do do tempora Strathroy do	ry—rent		34 44	100 00	100 00 34 44
a. a					9 88
St. Thomas do			200 59		200 59
Trenton do		· · • · · · · · · · •	47 75		47 75
Toronto-civil service examination do custom-house	omce-rent	• • • • •	1,473 56	77 20	77 20 1,473 56
do drill hall		421 28	751 29	1	1,172 57
do engineer's office—rent	• • • • • • • • • • • • • • • • • • • •		41 75	289 60	331 35
do examining warehouse	• • • • • • • • • • • • • • • • • • • •		3,249 58		3,249 58
do inland revenue office			15 41 393 62		15 41 393 62
Walkerton do &c	• • • • • • • • • • • • • • • • • • • •		31 62		31 62
Windsor do &c	• • • • • • • • • • • • • • • • • • • •		192 25		192 25
${\it Manitoba}.$					
Brandon experimental farm			777 87		777 OT
do immigration building		• • • • • • • • • • • • • • • • • • • •	14 50	[777 87 14 50
do industrial school		524 00			524 00
do post office			114 26		114 26
Portage la Prairie post office, &c	• • • • • • • • • • • • • • • • • • • •	9,979 40	1 070 40	•••••	9,979 40
Public buildings generally Winnipeg architect's office			1,978 40 205 72		1,978 40 205 72
murbes aremoser a ource					
do crown timber office			203 12		203 12

Name of Works.	Construction and Improvements.	Repairs.	Staff and Main- tenance.	Total.	
PUBLIC BUILDINGS—Continued.	\$ ets.	\$ cts.	\$ cts.	\$ cts.	
Brought forward	147,164 45	162,920 37	153,033 32	463,118 14	
Manitoba—Concluded.					
Winnipeg custom-house do Dominion lands office do engineer's office (rent). do examining warehouse do Fort Osborn barracks do immigration building do inland revenue office	3,200 00	8 00 62 36 49 65 184 35	451 50	133 78 86 74 459 50 62 36 3,200 00 49 65 184 35 489 94	
North-west Territories.		100 01		100 01	
Battleford Indian agent's house. Calgary court-house do immigration office do post office Edmonton Dominion lands office. do immigration building do land and registry offices Indian Head experimental farm Lethbridge court-house. do post office MacLeod court-house (rent) Maple Creek, Dominion lands office Moose Jaw court-house, addition, &c do mounted police barracks Prince Albert court-house do immigration building, do registry office Public buildings generally Qu'Appelle fishery inspection office do immigration building Regina clerk of works' office do court-house do do (old) do Dominion lands office do lieutenant-governor's residence do mounted police barracks—raising building, &c do post office Wolseley court-house Yorkton Dominion lands office	286 00 460 00 1,186 76 347 20 349 50	78 90 102 35 645 24 2 50 474 85 227 80 200 83 25 50 387 91 30 50 923 30 111 80 115 70 104 30 28 50 19 10 1,275 76 16 00 5 95 84 95 690 24 10 72 58 28 474 22	120 00	650 00 78 90 102 35 645 24 2 50 474 85 513 80 200 83 25 50 847 91 257 90 30 50 923 30 1,298 56 15 70 451. 50 28 50 368 60 1,275 76 16 00 5 95 204 95 690 24 10 72 58 28 474 22 4,567 25 380 08 33 34	
Vancouver our shed	4,992 65 2,392 71 59,998 93	306 00 73 00 86 00 70 21 25 00 324 15 197 55 57 29 40 47 19 56 332 70 1,639 03	804 00	306 00 73 00 4,992 65 86 00 70 21 25 00 324 15 197 55 2,392 71 861 29 40 47 19 56 59,998 93 332 70 1,639 03	

APPENDIX No. 1-STATEMENT OF EXPENDITURE-Continued.

Name o	Name of Works.				Repairs.	Staff and Main- tenance.	Total.
PUBLIC BUILD	INGS-Co	ntinued.		\$ ets.	\$ cts.	\$ cts.	\$ ets.
Brought	forward	· · · · · · · · · ·	•••••	225,593 07	173,762 85	154,658 82	554,014 74
Expenditure on Account Services Mentioned.	Salaries of Engineers &c.	Supplies for En- gineers, &c.	Heating.	Lighting.	Water.	Total.	
Nova Scotia.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	
Amherst post office	400 00 400 00 200 00 250 00	10 38 1 88	201 50 142 88 82 42 24 00 84 00 20 00 97 50 78 46	146 96 3 87	40 00 10 00	740 22 498 17 24 00 84 00 20 00 336 05	
Halifax Assist. Receiver General's Office. do Dominion building	2,008 24	31 67	62 18 750 10			132 78 5,188 57	
do examining ware- house do Lawlor's Island	500 00	6 35	186 59	67 80	83 99	844 73	
quarantine stat'n Lunenburg post office New Glasgow post office North Sydney do Parrsboro savings bank	355 00 400 00 400 00	69 48 2 90 1 65	244 84 153 05 137 50	265 63 318 82	100 00	853 07 921 58 857 97	
Parrsboro savings bank Pictou custom-house do post office do quarantine station. Point Edward quarantine	400 00	4 40	104 40 60 48			64 88	
station	I	34 57	219 20	338 56	10 00	1,002 33	
Truro post office	400 00 400 00	3 09 9 25	171 29 153 08	135 60	50 00	747 93	,
Pvince Edward Island.							
Charlottetown Dominion building	1,700 47	6 06	373 65 47 76 40 84	26 50	225 00	3,388 54 240 32 592 39	
New Brunswick.			,				
Bathurst post office Carleton, St. John, post				[19.00	764 55	
office. Chatham post office. Dalhousie do Fredericton do Moncton do Newcastle do Portland do St. John custom-house. do post office. do savings bank	100 00 335 87 400 00 400 00 400 00 400 00 1,891 50 1,340 00	16 30 8 23 12 26	36 17 313 76 202 69 230 97 207 21 365 13 37 17 1,142 43 498 40 180 09	166 05 21 22 518 70 429 88 369 00 59 84 412 08 3,102 70	12 00 510 88 590 37	831 98 632 14 1,199 67 1,183 35 1,148 99 109 01 4,001 15 5,568 92	·
Carried forward	15,291 08	515 88	7,093 84	10,878 50	2,552 48	26,331 78	554,014 74

	Name	e of Works	·		Cons- struction and Im- provement.	Repairs.	Staff and Main- tenance.	Total.
	PUBLIC BUIL	DINGS-	Çontinucc	i.	\$ ets.	\$ cts.	\$ ets.	\$ cts.
	Brough	t forward.		······································	225,593 07	173,762 85	154,658 82	554,014 74
Accou	OPENDITURE ON NT SERVICES MEN-	Salaries of Engineers &c.	Supplies for En- gineers, &c.	Heating.	Lighting.	Water.	Total.	
New .	Brunswick—Con.	\$ cts.	\$ cts.	\$ cts.	\$ ets.	\$ cts.	\$ cts.	
Bro	ought forward	15,291 08	515 88	7,093 84	10,878 50	2,552 48	36,331 78	
Sussex Tracadi	phen's post office do ie Lazaretto tock post office	400 00 400 00 448 00	2 27	118 50 148 50 279 60 173 08	9 66	64 00	958 05 560 43 279 60 835 08	
W Coust	ock post office	110 00	20 00	170 00	100 00	34 00	000 00	
	Quebcc.							
Aylmer Coatico	post office	65 00 400 00	18 25	136 00 201 81	200 00	20 83 20 00	275 59 840 06	
Hull Joliette	do	150 00 400 00			313 96 79 90	118 0 0 108 00	823 17 810 72	
Lachine	e do	100 00	39 83	117 33	45 90	29 52	332 58	
Laprair	rie do nmigrant building.	27 43	24 39	78 00 72 34		40 00	202 77 72 34	
Montre	al custom house	1,613 00	271 77	605 94		332 71	3,111 90	
do	Dominion public buildings	1,200 00		• • • • • • • • •			1,200 00	
do	drill hall	630 00	• • • • • • • • • • • • • • • • • • • •				6 3 0 00	
do	examining ware- house	1,140 00	523 87	1,602 20	431 16	584 59	4,281 82	
do	Inland Revenue office	600 00	2 25	202 13	156 66	103 79	1,064 83	
do	post office	4,999 16	132 46	729 86	6,311 49	2,263 29	14,436 26	
	citadel buildings clerk of works office	46 50 48 00		166 60	197 05	• • • • • • • • • • • • • • • • • • • •	410 90 48 00	
	culler's office	540 00	2 00		. 		696 49	
	custom-house examining ware-	540 00	12 48	607 48	38 00	1,100 00	2,297 96	
	house	1,445 00				750 00	3,447 72	
do do	gas inspection office inmigrant building		30 00	554 82	8 00 624 00		8 00 1,208 82	
do 4	observatory		0 42			0.000	0 42	
do	post office Princess Louise	535 60	56 70	413 71	646 60	2,268 00	3,920 66	
40 .	basin, quarantine			150 54			150 54	
do	building Queen's wharf				• • • • • • • • • • • • • • • • • • • •			
	building			235 80	• • • • • • • • • • • • • • • • • • • •	950 00	1,185 80	
	-du-Loup (Fraser- post office	250 00		348 00			640 68	
Sherbro	ooke post office	430 00 450 00		312 05 233 35	499 38 247 50	50 00 250 00	1,313 23 1,201 82	
Sorel St. Hen	do nri do		8 00	50 09	74 27	29 28	161 64	
St. Hys	scinthe do	391 63 400 00		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	258 87 192 00	175 00 57 00	1,110 67 989 64	
St. Jérô St. Joh	ome do n's	350 00		132 00	187 50	40 00	716 50	
St. Lin	(Laurentides) post		26 82				26 82	
St. Roc	ch de Québec post		20 02					
office.				9 40			9 40	
~	rried forward	33 290 40	1 977 64	17.028 57	22.361.59	11 940 49	86.598 69	554,014 74

APPENDIX No. 1-STATEMENT OF EXPENDITURE-Continued.

PUBLIC BUILDINGS-Continued. \$ cts. \$ cts.	
EXPENDITURE ON ACCOUNT SERVICES MENTIONED—Continued. Salaries of Engineers, &c. Sects.	S ets.
Columb C	554,014 74
Brought forward 33,290 40 1,977 64 17,028 57 22,361 59 11,940 49 86,598 69 Three Rivers custom-house do post office 400 00 24 75 185 45 109 67 30 00 748 87 Valleyfield do 46 25 20 70 13 50 80 45 West Farnham do 17 00 131 76 15 00 10 00 173 76 Quebec generally 264 00 264 00 264 00 264 00 264 00 264 00 264 00 264 00 264 00 264 00 27 20 20 20 20 20 20 20 20 20 20 20 20 20	
Three Rivers custom-house do post office 400 00 24 75 185 45 109 67 30 00 748 87 Valleyfield do 46 25 20 70 13 50 80 45 West Farnham do 17 00 131 76 15 00 10 00 173 76 Quebec generally 264 00 264 00 264 00 264 00 264 00 264 00 264 00 264 00 264 00 264 00 264 00 264 00 264 00 264 00 264 00 264 00 264 00 264 00 264 00 264 00 264 00 264 00 264 00 264 00 264 00 264 00 264 00 264 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00 265 00	
do post office 400 00 23 75 185 45 109 67 30 00 748 87 Valleyfield do	
Almonte post office	
Amherstburgh post office. 400 00 12 46 154 31 159 00 30 00 755 77 Barrie do 366 63 8 60 237 50 150 00 50 00 812 73 Belleville do 600 00 35 03 273 90 401 93 81 75 1,392 61 Berlin do 400 00 4 90 158 80 203 60 22 00 789 30 Brampton do 400 00 14 23 128 25 127 20 31 50 701 18 Brantford do 600 00 15 36 268 97 313 50 30 40 1,228 23	
Brockville	
house	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
Port Arthur do 275 00 27 85 134 00 22 72 3 60 463 17 Carried forward 49,793 67 2,789 87 25,895 69 32,003 73 14,536 44 125,019 40	

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Name of Works.			Con- struction and Im- provements.	Repairs.	Staff and Main- tenance.	Total.	
PUBLIC BUII	LDINGS-	Continued	 !•	\$ ets.	\$ ets.	\$ cts.	\$ cts.
Brou	ght forward	l		225,593 07	173,762 85	154,658 82	554,014 74
EXPENDITURE ON ACCOUNT SERVICES MENTIONED—Continued.	of	Supplies for En- gineers, &c.	Heating.	Lighting.	Water.	Total.	
Ontario—Concluded.	\$ cts.	\$ cts.	\$ cts,	\$ cts.	\$ cts.	\$ ets.	
Brought forward	49,793 67	2,789 87	25,895 69	32,003 73	14,536 44	125,019 40	
Port Colborne post office.	220 00 366 67	16 60 20 85		131 60		368 20	
do Hope do Prescott custom-house			66 00			866 77 66 00	
do post office	458 34 94 72	24 45	208 95			840 98	
Smith's Falls post office Stratford do	550 00		147 50 258 74		85 00 63 00		
Strathroy do	366 67	11 19	161 58	13 75	3 00	556 19	
St. Catharines do St. Thomas do	366 67 366 67	21 55 40 90	185 52 261 00				
St. Thomas do Toronto custom-house	600 00		231 88			1,287 10 1,165 99	
do Dominion public					100	·	
buildings do drill hall	1,200 00 799 45		200 00	359 70		1,200 00	
do examining ware-					•••••	1,352 40	
house	3,789 00	5 75	572 53	101 85	136 42	4,605 55	
do inland revenue office		3 35	176 93	315 32	29 71	1,225 31	
do post office	942 74		654 80	2,393 36	391 98	4,382 88	
Trenton do			165 00 152 60	256 00	73 55	914 22	
Walkerton do Windsor do	916 67		391 25		20 00 72 00		
•						2,110 10	
$m{M} anitoba.$							
Brandon experimental					,		
farm	1		131 61		••••	131 61	
do immigrant build-			66.80	l		20.00	
ing do post office	440 00	48 45	610 75		76 00	66 80 1,761 6 5	
Minnedosa Dominion					1	1,101 00	
lands office			73 62			73 62	
Winnipeg crown timber office		3 75	297 05			300 80	
do custom-house		5 79	495 03	319 14	96 00	915 96	
do Dominion lands				54 00	30 00	84 00	
do examining ware-							
house		7 50	452 75 879 50	10 26 274 23	195.00	463 01	
do immigrant shed do post office				1,474 47	125 00 412 50		
Passonia	'					3,102.11	
North-west Territories.				ļ			
_							
Battleford Dominion lands office	1		39 00			39 00	
do registry office		1				39 00 32 00	
Calgary clerk of works			40.40	J			
office		63 45	40 46 363 41		235 95	40 46 662 81	
	ļ						
Carried forward	64,938 58	3,437 20	36,031 95	41,064 98	16,523 15	161,995 86	554.014 74

				Com			
Name of Works.				Con- struction and Im- provements.	Repairs.	Staff and Main- tenance.	Total.
PUBLIC BUILDINGS—Continued.				\$ cts.	\$ cts.	\$ cts.	\$ ets.
Brough	t forward	• • • • • • • • • • • • • • • • • • • •		225,593 07	173,762 85	154,658 82	554,014 74
EXPENDITURE ON ACCOUNT SERVICES MENTIONED—Continued.	Salaries of Engineers, &c.	Supplies for En- gineers, &c.	Heating.	Lighting.	Water.	Total.	
North-west Territories-Concluded.	\$ cts.	\$ ets.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	
Brought forward	64,938 58	3,437 20	36,031 95	41,064 98	16,523 15	161,995 86	
Calgary immigrant building	1		101 58	• • • • • • • • • •		101 58	
do land and registry office do post office Edmonton Dominion lands	480 00	13 80 22 75	56 00 449 25	376 55	340 00	69 80 1,668 55	
Edmonton Dominion lands officedo immigrant bldg			168 43 173 75			168 43 173 75	
try office	399 98	17 05					
office			14 6 5			14 65	
Lake Dauphin Dominion			200 93		(200 93	
lands office		 	80.75				
do post ornce	1 420 00	10 00	63 26	115 36 5 50	60 00	689 86 243 76	•
Macleod court-house Moose Jaw do Moosomin do	400 62 540 00	2 20 63 68	354 62	68 84		551 32 1,027 14	
Prince Albert court-house. do immigrant	400 00			}		300 31	
shed do registry of			6 50	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	6 50	
Red Deer immigration	400 00	j	1	ì	İ	475 70	
Regina clerk of works office	·		20 73		!	20 73	
do court-house do Dominion lands	al la	1	1	85 08		1	
office do immigrant building	5		15 30	13 50		15 30	
do lieutgovernor			157 66			Į.	
residence do post office	· · · · · · · · · · · · · · · · · · ·	6 05 6 95					
Wetaskiwin Dominion lands office			31 05			31 05	
do immigran building			33 00				
Wolseley court-house Yorkton Dominion land office	. 292 50 8	16 78		9 48	5	514 63	1
British Columbia.					-		
Agassiz experimental farn Banff (Rocky Mountain			45 6)		45 60	
museum			33 36 89 8		1	33 30 89 87	
Carried forward	. 68,796 68	3,693 49	39,937 9	41,907 7	1 16,928 1	171,264 00	554,014 74

Name of Works.				Construction and Improvements.		Staff and Main- tenance,	Total.	
PUBLIC BUII	DINGS-	Concluded	<i>l</i> .	\$ cts	\$ cts.	\$ cts.	\$ cts.	
Brough	t forward.			225,593 07	173,762 85	154,658 82	554,014 74	
Expenditure on Account Services Men- tioned—Concluded.	Salaries of Engineers,	Supplies for En- gineers, &c.	Heating.	Lighting.	Water.	Total.		
British Columbia—Con.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.		
Brought forward	68,796 68	3,693 49	39,937 97	41,907 71	16,928 15	171,264 00		
Kamloops Dominion lands office Metlakatla Indian office do industrial school Nanaimo post office New Westminster post office Quamichonan Indian office River's Inlet industrial school Vancouver post office Victoria Adjutant General's office do appraiser's office do do drill shed do engineer's office do Indian do do military store house do post office do Weights & Measures office, William's Head Quarantine station	600 00 600 00	13 10 61 66 75	198 00 33 77 129 77 22 56 33 7 679 66 64 40 130 0 55 66 63 0 184 2 28 3	1,113 0 1,113 0	5 375 83 5 24 00 5 19 75 6 27 23 12 00	198 05 33 75 870 10 982 23 22 50 33 75 2,630 23 41 61 40 50 231 64 692 75 9 80 55 67 63 09 1,797 85		
Miscellaneous. Dominion Buildings generally				5 44,998 4	-	2,117 67 181,743 09	İ	
	forward.	.	·	-	-	336,401 91		

Name of Works.	Con- struction and Im- provenien	ւ- ¦	Repairs.		Staff and Main- tenance.	Total.
HARBOURS AND BREAKWATERS.	\$	cts.	\$ c	ts.	\$ cts.	\$ cts
Brought forward	225,593	07	173,762 8	5	336,401 91	735,757 83
Nova Scotia,	ĺ					
Arisaig wharf -repairs	 		999 1	0	` · · · · · · · · · · · · · · · · · · ·	999 10
Bass River wharf Bayfield breakwater—repairs.	490	00	1 001 1		• • • • • • • • • • • •	490 00
Bayfield breakwater—repairs.		[1,021 1		• • • • • • • • • • • • •	1,021 18
do (new wharf)—repairs Belliveau Cove—repairs		• • • •	500 0			348 37 500 02
Big Pond do			150 0	ō		150 00
Boularderie, Ross Ferry	412	67		!	• • • • • • • • • • • •	412 67
Broad Cove Marsh wharf		÷-	500 0	ю	• • • • • • • • • • • •	500 00
D'Escousse pier construction of slip &c	236	54		• •	••••	3,999 87 236 54
Cow Bay breakwater. D'Escousse pier, construction of slip, &c Digby pier.			3,988	7		3,988 07
Eatonvine pier			400 0	1		250 61
Economy breakwater	1.055	::·!	159 4	5	• • • • • • • • • • • • • • • • • • • •	159 45
Grand Ftang breakwater	1,909 5,002	88		• •		1,955 87
Halifax Graving dock—subsidy.	10,000	00		•••		5,002 88 10,000 00
Georgeville wharf—extension. Grand Etang breakwater. Halifax Graving dock—subsidy. Hall's flarbour Harbours generally.			450 8	3		450 83
Harbours generally	• • • • • • • •	• • •		٠:	1,152 49	1,152 49
Harbourville wharf		•••	49 9	7		49 92
L'Ardoise wharf			10 0	ó		47 07 10 00
Harbourville wharf Ingonish South, breakwater L'Ardoise wharf Margaree, beach protection	2,196	57				2,196 57
Monk's Head, channel from Dunn's Lake to Anti- gonish Harbour	004			- 1	İ	
gonish Harbour	204	72	90.0			- 204 72
Parrsboro' wharf.		• • •	1.447 9			39 00 1,447 28
Port Lorne breakwater. Port Maitland breakwater.			20 0			20 00
Port Maitland breakwater			271 7	1		271 71
Seaside wharf	1,997	61	500 7			1,997 61
West Offerencor Diearwater			000 1	١		500.75
Prince Edward Island.					l	
Belfast pier			50 0			50 03
Brae breakwater			843 8			843 80
Cascumpec breakwater. Harbours generally	• • • • • • • • • • • • • • • • • • • •	••	24 8	ا ه	289 23	24 88 289 23
Kier's Shore pier—repairs			723 8	9		723 89
Lambert's pier. McGee's pier.			829 6			829 61
Murray harbour		$\cdots $				1,395 19
Murray harbour. New London breakwater.		• • •	886 2	ŝ		1,011 34 886 26
Nine Mile Creek pier			83 5			83 50
37 AL (1		- 1	50 4			50 42
North Cardigan pier		വരി	441 3			3,441 35
North Cardigan pier North Rustico breakwater—repairs	3,000 ("	10.0			13 25
North Rustico breakwater—repairs Pinette pier	3,000 (13 2 100 0			
North Rustico breakwater—repairs. Pinette pier. Port Selkirk. Souris breakwater—reconstruction	3,000 (:::	13 2 100 0 4,790 2	0		100 00
North Rustico breakwater—repairs. Pinette pier. Port Selkirk Souris breakwater—reconstruction. Stephen's pier.	3,000 (: 	100 0 4,790 2 56 5	0 8 0		
North Rustico breakwater—repairs. Pinette pier. Port Selkirk. Souris breakwater—reconstruction. Stephen's pier. Victoria pier.	3,000 (::: :::	100 0 4,790 2 56 5 40 0	0 8 0		100 00 4,790 28 56 50 40 00
North Rustico breakwater—repairs. Pinette pier. Port Selkirk. Souris breakwater—reconstruction. Stephen's pier.	3,000 (::: :::	100 0 4,790 2 56 5	0 8 0		100 00 4,790 28 56 50
North Rustico breakwater—repairs. Pinette pier. Port Selkirk. Souris breakwater—reconstruction. Stephen's pier. Victoria pier.	3,000 (::: :::	100 0 4,790 2 56 5 40 0	0 8 0		100 00 4,790 28 56 50 40 00
North Rustico breakwater—repairs. Pinette pier. Port Selkirk. Souris breakwater—reconstruction. Stephen's pier. Victoria pier. Woods Islands breakwaters—repairs. New Brunswick.	3,000 (100 0 4,790 2 56 5 40 0	0 8 0 0 3		100 00 4,790 28 56 50 40 00 686 63
North Rustico breakwater—repairs. Pinette pier. Port Selkirk. Souris breakwater—reconstruction. Stephen's pier. Victoria pier. Woods Islands breakwaters—repairs. New Brunswick. Anderson's Hollow pier. Buctouche.	3,000 (100 0 4,790 2 56 5 40 0 686 6	0 8 0 0 3		100 00 4,790 28 56 50 40 00
North Rustico breakwater—repairs. Pinette pier. Port Selkirk. Souris breakwater—reconstruction. Stephen's pier. Victoria pier. Woods Islands breakwaters—repairs. New Brunswick. Anderson's Hollow pier. Buctouche Burnt Church wharf.	3,000 (76	100 0 4,790 2 56 5 40 0 686 6	0 8 0 0 3		100 00 4,790 28 56 50 40 00 686 63 33 67 90 13 5 76
North Rustico breakwater—repairs. Pinette pier. Port Selkirk. Souris breakwater—reconstruction. Stephen's pier. Victoria pier. Woods Islands breakwaters—repairs. New Brunswick. Anderson's Hollow pier. Buctouche.	3,000 (76	100 0 4,790 2 56 5 40 0 686 6	0 8 0 0 3		100 00 4,790 28 56 50 40 00 686 63 33 67 90 13

Name of Works.	Con. struction and Im- provements.	Repairs.	Staff and Main- tenance.	Total.
HARBOURS AND BREAKWATERS—Continued	\$ cts.	\$ cts.	\$ cts.	\$ cts
Brought forward	255,095 56	197,166 23	337,843 63	790,105 42
New Brunswick-Concluded.	1	,	,	,
Dalhousie ballast wharf		262 07		262 07
Dalhousie ballast wharfGardner's breakwater—new wharf	2,484 35		1 150 40	2,484 35
guaco narbour		30 31	1,152 49	1,152 49 30 31
River St. John:— Upper river				
Green river 200 00				
Oromocto shear dam—repairs 96 79 Bear Island to Eel river—tow path		j		
improvement				
Milkish wharf—legal services 37 84				
Milledgeville Ferry pier—Government grant, &c 406 88			!	
Shamper's Landing—Govt. grant, &c 300 00			ı	
Williams do	2,216 56	96 79		2,313 35
Shediac harbour—new breakwater at Pointe du Chêne St. John do —Negro Point breakwater		2,462 03		2,462 03
St. John do Negro i ouit bleak wasoi		7,261 87		7,261 87
Quebec.				
A sek suspense suspense river—placing huovs			100 11	
Asshouapmouchouan river—placing buoys		25 65	136 44	136 44 25 65
Baie St. Paul wharf—Cap aux Corbeaux	4,835 42			4,835 42
do guide piers	60 00		120 00	120 00 60 00
Berthier (en bas) pier		255 27		255 27
Belœil boomrdo guide piers		83 00		587 22 83 00
Chateaugusy wharf Chicoutimi do	1,296 47			1,296 47
Kteng du Nord breekwater	. 	1,998 61 838 61		1,998 61 838 61
Casina and Daine amb and		10 00		18 00
Gatheau Point whari	0,033 42	14 80	1 050 70	6,648 22
lle aux Coudres pier		359 02	1,250 78	1,250 78 359 02
Lacolle wharf	1 999 68	726 36	• • • • • • • • • • • • • • • • • • • •	726 36
Lake St. John—pier at St. Fenciell Laprairie ice piers. Les Eboulements pier.	2,015 51			1,999 68 2,015 51
Les Eboulements pier		388 90	0.005.00	388 90
Levis graving dock Longueuil pier Lower St. Lawrence:—Landing places for fishing		284 11	9,200 80	9,205 80 284 11
Lower St. Lawrence: Landing places for fishing	5			20111
boats: — Anse à Louise \$519 45	ļ			
Echourie	•			
Petit Cap				
Pointe Jaune 204 97				
Rivière au Renard 322 91 Trois Ruisseaux 279 92				
	1,987 91			1,987 91
Malbaie pier		307 68 572 81	• • • • • • • • • • • • • • • • • • • •	307 68
Mistaggini river—placing buoys	. 		284 00	572 81 284 00
Montreal harbour	.		2 40	, 2 40
Perce pier. Peribonka river—placing buoys		26 60	56 85	26 60 56 85
TOTOOHER TILE - bracing onolo	398 98		1	398 98
Petite Rivière St. François	. 550 50	1		990 90

Name of Works.	Con- struction and In provemen	on n-	Repairs		Staf and M tenan	ain-	Tota	1.
HARBOURS AND BREAKWATERS-Con.	\$	cts.	\$ c	ts.	*	cts.	8	cts
Brought forward	279,023	86	213,765 9)4	350,053	39	842,842	19
Quebec-Concluded.								
Philipsburg pier Piers below Quebec Pointe aux Esquimaux wharf—extension, &c. Rimouski harbour—tidal basin. Rivière du Lièvre lock—damages do do do do do do do Loup (en bas) pier do do U. Assomption—protection wall, Chute Monte- à-peine. do Noire do Saguenay—Grande Décharge—placing buoys. do Ste. Anne de la Pérade do St. Lawrence—deepening channel between Quebec and Montreal. do St. Louis—head gates. do St. Maurice—channel between Grandes Piles and La Tuque. do Touladie. do Yamaska lock Roberval harbour—Lake St. John—placing buoys Ste. Anne du Saguenay pier St. Irénée pier—addition. St. Jean do Ile d'Orléans—repairs St. Laurent pier do do Trois Pistoles harbour—removal of rock. Yamachiche pier.	4,028 156 738 106 300 4,373 106,994	42 08 05 46 35 90 73	51 2	00 6	2,74(851 11	60 62 60 60 60 60 60 60 60 60 60 60 60 60 60	51 300 11 4,373 106,994 121	62 42 42 42 46 46 46 46 46 46 46 46 46 46 46 46 46
Ontario. Big Bay, North Keppel Burlington Bay channel Cobourg harbour. Collingwood harbour- repairs to breakwater Goderich harbour- repairs to breakwater Goderich harbour- Harbours generally Kaministiquia river Kincardine harbour- Kingston graving dock do harbour Lakes Simcoe and Couchiching—regulation of waters. Lion's Head Morpeth harbour Oakville harbour Oakville harbour Ookville harbour Port Dover do —dredging Port Elgin do Port Hope do Rainy river Rondeau harbour	7,830 (3,829 2,416 (11,866 15,000 (31 48 777 000	51 3 3,816 2 1,078 9 2,700 3 36 5 	955540000000000000000000000000000000000	1,921 6,282	96 37 16	51 4,637 1,078 2,700 36 1,921 7,830 30 6,282 2,416 83 337 499 11,866 15,000 177 339 8,730	39 21 95 34 50 37 85 00 64 93 77 00 00 61 82 80 05 18
Thessalon—new wharf Thornbury harbour Toronto harbour—eastern entrance, &c Trenton harbour—dredging	39,448 777	71				ł		
Thessalon—new wharf Thornbury harbour Toronto harbour—eastern entrance, &c					870	09	870 5,240	

Name of Works.	Construction and Improvements.	Repairs.	Staff and Main- tenance.	Total.
HARBOURS AND BREAKWATERS-Con.	\$ ets.	\$ ets.	\$ cts.	\$ cts.
Brought forward	505,398 26	227,285 77	364,523 20	1,097,207 23
North-west Territories.				
Harbours generally		· · · · · · · · · · · · · · · · · · ·	776 7 5	776 75
British Columbia.				
Columbia river—improvements a bove Golden	5,634 11		12,355 09	5,634 11 12,355 09
do protection work at Garry Bush 997 97 Harbours generally	10,423 52	1	2,670 40	10,423 52 2,670 40
Kootenay river (east), between canal flat and Fort Steele Okanagan river—improvements. Skeena river Victoria harbour—dredging inner harbour.	1,270 65 324 85 1,996 81			1,270 65 324 85 1,996 81 5,047 23
HARBOURS GENERALLY			2,654 51	2, 654 51
Dredges repairs New dredging plant, Maritime Provinces\$19,726 89 do generally16,315 88) <i>.</i>	22,995 87		
DREDGING.				
Nova Scotia.				
Cheticamp (Inverness)\$ 3,490 08 East river (Pictou)				
Prince Edward Island.				
Cardigan bridge (King's) \$ 3,145 71 Charlottetown harbour (Queen's) 3,911 88 Newport (King's) 826 62 Souris 975 87 8,860 08				
Carried forward \$21,580 72		250,281 64	382,979 95	1,199,399 79

Name of Works.	Con- struction and Im- provenients.	Repairs.	Staff and Main- tenance.	Total.
DREDGING—Continued.	\$ cts.	\$ cts.	\$ ets.	\$ cts
Brought forward\$21,580 72	566,138 20	250,281 64	382,979 95	1,199,399 79
New Brunswick.				
Fredericton harbour (York)				
Total, Maritimes Provinces\$37,123 00		, and a second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s		
Quebec.				1
Berthier (cn haut) harbour \$ 1 50 Chateauguay river				
Ontario.		İ		
Amherstburg harbour \$1,786 99 Belle River 1,058 76 Belleville harbour 1,994 01 Bowmanville harbour 508 70 Burlington channel 1,500 00 Collingwood harbour 361 84 Fort Erie do 254 10 Frenchman's Bay harbour 353 11 Meaford harbour 827 24 Midland do 591 33 Newcastle harbour 685 04 Owen Sound harbour 800 00 Penetanguishene harbour 131 67 Port Elgin harbour 2,654 48 Port Hope do 475 60 Prescott do 1,005 89 River Saugeen 255 50				

Name of Works.	Construction and Improvements.	Repairs.	Staff and Main- tenance.	Total.
DREDGING—Concluded.	\$ cts.	\$ ets.	\$ cts.	\$ ets.
Brought forward \$61,079 65	566,138 20	250,281 64	382,979 95	1,199,399 79
Ontario-Concluded.	<u> </u>			<u>!</u>
Brought forward\$15,244 26				
River South Nation. 1,546 13 do Thames. 999 45 Thornbury harbour 1,289 05				
GENERALLY	8			
$m{M}$ ani $m{t}$ oba .		j		i
Red river 7,676 85	5			
British Columbia.				
Fraser river \$5,235 90 Victoria harbour. 5,541 01 ———————————————————————————————————				
GENERAL SERVICE				
Total dredging	97,526 24		7,946 75	105,472 99
SLIDES AND BOOMS.				
Saguenay District St. Maurice District Ottawa do do river slides \$3,015 27 Gatineau river slides 420 42 Madawaska river slides 1,464 87 Coulonge do 2,167 37 Black do 75 52 Duncoine do 14 00 Petewawa do 98 03	1,601 81		575 08 8,255 60 25,930 89	575 08 14,746 42 25,930 89
Newcastle District.	2,304 62	7,255 48 1,001 90	1,970 00	9,560 10 2,971 90
ROADS AND BRIDGES.				
Quebec.				
Cart'er bridge. Pond Creek bridge, Hull. Portage du Fort bridge.	775 40		· • • • • • • • • • • • • • • • • • • •	821 90 775 40 49 67
Ontario.	10 027 12			
Burlington swing bridge. Ottawa City bridges and approaches: Chaudière bridges. \$1,868 49 Hull slide bridge. 50 88 Maria street do 278 88 Sappers' do 278 88 Union do 729 23 St. Patrick Street 4 40 Sussex do 4 400 O'Connor do 2 40 Wellington do 2,053 56	19,937 13	5,000 00		19,937 13
Comical formand	689,105 30		497 659 97	
Carried forward		200,311 10	141,000 2/	1,385,241 27

Name of Works.	con- struction and Im- provements.		Staff and Main- tenance.	Total.	
ROADS AND BRIDGES-Concluded.	\$ cts.	\$ cts.	\$ cts.	\$ cts	
Brought forward	689,105 30	268,477 70	427,658 27	1,385,241 27	
North-west Territories.				1	
Battle river bridge Belley do Calgary do (Langevin) Calgary do (Langevin) Did Man's river bridge across the Saskatchewan South Fork bridge, Old Man's River—locating site and plan of	30 30	1,278 96 100 35 1,336 96 28 00		30 30 28 00	
TELEGRAPH LINES.					
Nova Scotia. Cape Sable. \$ 812 60 Cheticamp. 841 10 Low Point 50 00					
Meat Cove					
Prince Edward Island and Mainland—(subsidy)		• • • • • • • • • • • • • • • • • • • •	1,946 66	1,946 66	
New Brunswick.					
Bay of Fundy					
Quebec. Anticosti Island. \$2,305 45 Grosse Ile guarantine station. 1,430 07 Magdalen Islands. 4,095 56 North Shore: East Bersimis. \$5,496 95	734 78			734 78	
West do . 3,385 98				101 10	
${m N} ew foundland.$: 		
Cape Ray—(subsidy 1895-96)			į	Ì	
${\it Miscellaneous}.$					
Str. Newfield—working expenses. 530 57 Generally 3,449 38					
Total, Lower St. Lawrence, &c		1,169 63	29,499 64	29,499 64 1,169 63	
Ontario.		960.00	1.000		
Pelée Island—cable removed		260 92	1,360 90	1,621 82	
Generally			14,062 22	14,062 22	
Carried forward	689,945 38	272,652 22	474,527 69	1,437,125 5	

APPENDIX No. 1-STATEMENT OF EXPENDITURE-Concluded.

Name of Works.	Construction and Improvements	Repairs.	Staff and Main- tenance.	Total.	
TELEGRAPH LINES—Concluded.	\$ cts	s. \$ cts.	\$ cts.	\$ ets.	
Brought forward	689,945 38	272,652 52	474,527 69	1,437,125 59	
British Columbia.		t 1			
Ashcroft-Barkerville line Lillooet—connection with Ashcroft-Barkerville line Maintenance:— Ashcroft to Barkerville (Cariboo district) \$3,957 62 Cape Beale	2,327 93	. 966 77		966 77 2,327 93	
Barkerville to Alberni canal 10 66	•		19 411 50	19 411 50	
TELEGRAPH SERVICE GENERALLY			13,411 52 696 39	13,411 52 696 39	
MISCELLANEOUS.					
Agent and contingencies, B.C. Surveys and inspections Monument to the late Sir John A. Macdonald			11,864 20	2,278 74 11,864 20	
Extra clerks—Secretary's branch. \$22,864 90 Chief Engineer's branch. 50,989 48 Chief Architect's do 27,066 64 Telegraph service staff. 2,900 00				240 50	
Telegraphi service suan 2,000 00	1		110,821 02	110,821 02	
COLLECTION OF SLIDE AND BOOM DUES.					
Saguenay District \$ 26 15 St. Maurice do 759 63 Ottawa do 1,097 98 Newcastle 88 70 Rivière du Lièvre lock 9 03 do Yamaska do 25 92			:		
GENERALLY			2,146 16	2,146 16	
Ottawa District:—Upper Ottawa Improvement Co.—Allowance re logs thro' Chenaux boom, 1895-96			1	1,530 53	
Totals		-		1,583,409 35	

O. DIONNE,
Chief Accountant.

DEPARTMENT OF PUBLIC WORKS, OTTAWA, 9th February, 1897.

APPENDIX No. 2

REPORT ON PUBLIC BUILDINGS

THROUGHOUT THE DOMINION

FOR THE FISCAL YEAR ENDED 30TH JUNE, 1896

BY THE

CHIEF ARCHITECT

REPORT OF THE CHIEF ARCHITECT

DEPARTMENT OF PUBLIC WORKS,

CHIEF ARCHITECT'S OFFICE,

OTTAWA, 27th January, 1897.

SIR,—I have the honour herewith to transmit report of the various works performed under my charge during the fiscal year ended the 30th June, 1896.

I have the honour to be, sir,

Your obedient servant,

THOMAS FULLER, Chief Architect.

E. F. E. Roy, Esq., Secretary of Public Works Department.

PROVINCE OF PRINCE EDWARD ISLAND.

CHARLOTTETOWN.

PUBLIC BUILDING.

The distal 300 feet of the drain into harbour was renewed in tile: the heating boilers, plumbing and gasfitting were repaired, the water-closet was sheeted with wood inside and some general minor repairs effected.

Work done under the supervision of the caretaker.

PROVINCE OF NOVA SCOTIA.

AMHERST.

PUBLIC BUILDING.

Repairs were made to shell and tubes of heating boilers, plastering of walls and ceilings repaired and kalsomined, and inside and outside wood work painted, oiled and varnished.

Work superintended by S. Adams, clerk of works.

ANNAPOLIS.

PUBLIC BUILDING.

The brick vault on first floor was provided with burglar proof doors. Work inspected by C. E. W. Dodwell, resident engineer and inspector of public buildings, N.S., Halifax, N.S.

ANTIGONISH.

PUBLIC BUILDING.

Three new sections were put in hot water furnace, and general repairs were made to the building and inclosure fence.

Work done under the supervision of the caretaker.

DARTMOUTH.

PUBLIC BUILDING.

A coal bin was constructed in basement and some grading was done around building.

Work inspected by C. E. W. Dodwell, resident engineer and inspector of public buildings, N.S., Halifax, N.S.

HALIFAX.

DRILL HALL.

On 8th July, 1895, a contract was entered into for the construction of this building, of which a description was given in my report of last year, and the work has since been vigorously carried on. Plans, etc., prepared and work superintended by this department.

Resident engineer and inspector of public buildings, N. S., C. E. W. Dodwell,

C.E.

Contractor, J. E. Askwith, Ottawa. Clerk of works, Wm. Bishop.

DOMINION BUILDING.

One of the steam-heating boilers having given out was removed and replaced by a new one, miscellaneous repairs were made throughout the building, and some new furniture supplied.

Work inspected by C. E. W. Dodwell, resident engineer and inspector of public

buildings, N.S., Halifax, N.S.

EXAMINING WAREHOUSE.

Miscellaneous minor repairs were effected. Work inspected by C. E. W. Dodwell, resident engineer and inspector of public buildings, N.S., Halifax, N.S.

IMMIGRATION BUILDING.

During December, 1895, and January and February, 1896, the Department of Railways and Canals constructed the foundation of creosoted piles for this building to the south of the new wharf and freight shed at the Deep Water Terminus, and on

January 24th, 1896, a contract was entered into for the erection of the building thereon. It is to consist of a two story portion, 130 feet in length by 50 feet in breadth, with a one story portion forming a right angle with it, 160 feet in its greatest length by 75 feet in breadth. It is being constructed of wood, and will contain in the one story portion, baggage room, waiting room, disinfecting room, bath and water-closet, with a furnace chamber under the floor, and in the two story portion, waiting room, dining room, kitchen stores, and office on the ground floor, with dormitories over. Plans, etc., prepared and work superintended by this department.

Resident engineer and inspector of public buildings, N.S., C. E. W. Dodwell,

C.E., Halifax.
Contractors, Messrs. Rhodes, Curry & Co., Amherst, N.S. Clerk of works, W. J. Wiswell.

LAWLOR'S ISLAND.

QUARANTINE STATION.

The bichloride tower was painted, rain water eaves troughs to 3rd class passengers building and some signboards were supplied.

PICTOU.

POST OFFICE.

This building is completed, fitted up and furnished and heated by hot water heating apparatus.

Plans, etc., prepared by this department.

Works inspected by C. E. W. Dodwell, resident engineer, and inspector of public buildings, N.S., Halifax, N.S.; clerk of works, Jos. Hudson, Pictou, N.S. Contractors for building and fittings, Rhodes, Curry & Co., Amherst, N.S. Contractors for heating apparatus, F. Powers, Lunenburg, N.S.

TRURO.

POST OFFICE.

The entire area between the front of the building and the sidewalk was asphalted, a spring was put on front door and some minor repairs effected.

Work inspected by C. E. W. Dodwell, resident engineer and inspector of public buildings, N.S., Halifax, N. S.

WINDSOR.

POST OFFICE.

The money order office was enlarged and a new sidewalk constructed. Work supervised by the caretaker of the building.

PROVINCE OF NEW BRUNSWICK.

BATHURST.

POST OFFICE.

A grate for furnace was supplied and minor repairs done.

CHATHAM.

POST OFFICE.

A new closet and some additional plumbing were put in and furniture supplied Customs and Inland Revenue. Work done under the supervision of Samuel Adams, clerk of works.

DALHOUSIE.

POST OFFICE.

Repairs were made to the heating apparatus.

FREDERICTON.

PUBLIC BUILDING.

The asphalt walk was repaired and in part relaid. New lock box fronts were put in post office screen.

Work done under the supervision of the caretaker.

MONCTON.

PUBLIC BUILDING.

Repairs were made to ceiling and a new section and fire pot supplied to furnace.

Work done under the supervision of the caretaker.

NEWCASTLE.

PUBLIC BUILDING.

A number of defective arches, lintels and stones were removed and replaced, the masonry was repointed throughout, the plastering was repaired and kalsomined and the woodwork and ironwork repaired and painted, new gates for yard, new hardwood floor for vestibule, new tubes in boiler, and new wire screen between P.O. screen and ceiling were furnished, and some minor repairs executed. Work superintended by S. Adams, clerk of works.

PARTRIDGE ISLAND

QUARANTINE STATION.

Two of the buildings were whitewashed and some repairs were made to the large hospital.

Work carried on under the supervision of W. J. McCordock, of this department.

St. John, N. B.

PORTLAND (ST. JOHN).

POST OFFICE.

A new lock was furnished front door and repairs made to eavos troughs down pipes, closet and cesspool.

Work carried out under the supervision of W. J. McCordock, of this department.

St. John, N. B.

ST. JOHN.

CUSTOM-HOUSE.

Asphalt sidewalks were laid and curb reset, the main corridor floor tiles were taken up and reset, improvements were made in meteorological rooms and a new transit column furnished. 6 sets of outside doors were varnished, furnace grates were altered, door springs, hose, firing tools and furniture were supplied and repairs were made to plumbing, water service, lighting, bells, locks, &c.

Work carried out under the supervision of W. J. McCordock, of this department,

St. John, N.B.

POST OFFICE.

The masonry was repointed, the down pipes were renewed in corrugated copper. a new office for the accountant was fitted up, the elevator well was cased and covered over with iron, the stamping tables were covered with zine, a new storeroom for inspector was fitted up on the third floor, the mail bag-rack was extended, repairs were made to clocks, roof, vault, box and door locks, elevator, plumbing, gas-fitting, bells, lighting wires and water pipes, lock boxes were numbered, speaking tubes put in and furniture and carpets supplied.

Work carried out under the supervision of W. J. McCordock, of this department.

St. John, N. B.

SAVINGS BANK.

Minor repairs were made to locks, gas fitting, water service and glazing. Work carried out under the supervision of W. J. McCordock, of this department, St. John, N.B.

ST. STEPHEN.

PUBLIC BUILDING.

Brick gable was taken down and rebuilt, additional height was given to chimney, and the defective masonry and brickwork throughout restored and pointed. The plastered internal walls and ceilings were repaired and kalsomined, the interior and exterior woodwork were oiled, varnished or painted, repairs were made to roof, a granolithic footpath was laid on the street front, and the block-paved roadways at the sides renewed.

Work carried out under supervision of S. Adams, clerk of works.

SUSSEX.

PUBLIC BUILDING.

Repairs were made to the hot air apparatus and some ladders supplied.

TRACADIE.

NEW LAZARETTO.

Building completed and occupied, plans, etc., prepared by this department. Contractor for building, Wm. Stuart, Ottawa, Ont. Contractor for heating apparatus, David Ouimet, Montreal.

PROVINCE OF QUEBEC.

AYLMER.

POST OFFICE.

The building was connected with the water service of the town and the electric light installed; a coal-ash screen was furnished.

FRASERVILLE.

PUBLIC BUILDING.

Minor repairs were made to roof.

GROSSE ISLE.

QUARANTINE STATION.

The ss. "Challenger" was cleaned and repainted; the presbytery was repaired throughout, as well as the residence and outbuildings of the superintendent; wooden and iron ladders were supplied to the buildings.

Work inspected by A. P. Lepine, clerk of works, Quebec, P.Q.

JOLIETTE.

PUBLIC BUILDING.

The roof and chimney were repaired and a coal ash screen supplied.

LACHINE.

POST OFFICE.

A 6 inch tile drain was laid from building to St. Lawrence River and some minor repairs made to painting.

Work supervised by S. Adams, clerk of works.

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MONTREAL.

CUSTOM-HOUSE.

Repairs were made to roof, water closet, plumbing, copper and eaves troughs; hot water pipes were covered, furniture supplied, etc.

Work carried out under supervision of C. Desjardins, clerk of works, Montreal.

EXAMINING WAREHOUSE.

The soil pipes and connections and the water service pipes were renewed; a new floor covering was laid in second flat, a new counter, some seats and step ladders were supplied the superintendent's office, a new partition was put in the hardwere branch, and a new door in the boiler room. Repairs were made to hoists, furniture and hose.

Work done under the supervision of C. Desjardins, clerk of works, Montreal, P.Q.

INLAND REVENUE BUILDING.

Repairs were made to roof, water-closet and soil pipes. Work done under the supervision of C. Desjardins, clerk of works, Montreal, P.Q.

POST OFFICE.

A double partition was built in customs parcels office, the boiler house partitions were altered, some of the water service pipes and fittings and also some of the letter boxes were renewed, and repairs were made to elevators, furniture, latrines, windows, pumps, cement flooring and flagstones of entrance.

Work superintended by C. Desjardins, clerk of works, Montreal, P.Q.

QUEBEC.

CITADEL, GOVERNOR GENERAL'S QUARTERS.

Repairs were made to plumbing and woodwork. The usual annual cleaning, painting and preparations for His Excellency's annual visit were done. Work done under the supervision of an officer of this department.

CUSTOM-HOUSE.

Repairs were made to water service and minor usual and ordinary general repairs.

Work inspected by A. P. Lepine, clerk of works, Quebec, P.Q.

EXAMINING WAREHOUSE.

New wooden sidewalks were laid around the building, and repairs were effected to skylights, hoisting machinery, boilers, plumbing, washbasins, etc., work inspected by A. P. Lepine, clerk of works, Quebec, P.Q.

IMMIGRATION BUILDING, LOUISE EMBANKMENT.

Stone pillars were put in to support verandah, the foundation of chimney was renewed, a portion of the verandah was refloored, and repairs were made to plastering and window sashes.

Work inspected by A. P. Lepine, clerk of works, Quebec, P.Q.

MARINE AND IMMIGRATION AGENCY, QUEEN'S WHARK.

The old pan water closets and the soil and drain pipes which had given out, were taken out and replaced by new sanitary plumbing. The interior of this building was white-washed and painted.

Work inspected by A. P. Lepine, clerk of works, Quebec, P.Q.

OBSERVATORY.

A new fence inclosing the Government land was put up, some new heating coils were put in and the furnace repaired.

Work inspected by A. P. Lepine, clerk of works, Quebec, P.Q.

POST OFFICE.

Electric lighting was installed in the new wing, the lavatories and water-closets were papered and painted, the pavement of yard was reset and the earth levelled. Furniture for apartments of inspector and clerk of works was provided and some repairs made to letter boxes and newspaper drawers.

Work superintended by A. P. Lepine, clerk of works, Quebec, P.Q.

RICHMOND.

PUBLIC BUILDING.

A contract for the construction of this building which was described in my report of last year was entered into on 6th November, 1895, and the work is in progress.

Plans, etc., prepared by this department. Clerk of works, Wm. Ross, Richmond, P.Q. Contractors, Paquet & Godbout, St. Hyacinthe. P.Q.

RIMOUSKI.

POST OFFICE.

The walls of this building which was described in my report of last year, were carried up to the level of the eaves, when the work was abandoned by the contractor. Steps are being taken with a view to the completion of the works at an early date.

Plans, etc., prepared by this department. Clerk of works, Pierre Raymond, Rimouski, P.Q. Contractor, C. B. Beaulieu.

ST. HENRI.

POST OFFICE BUILDING.

New eaves troughs and down pipes were provided, and also a new entrance porch. Repairs were made to windows, letter boxes and locks, and a coal ash screen supplied.

Work inspected by C. Desjardins, clerk of works, Montreal, P.Q.

ST. HYACINTHE.

POST OFFICE.

Some minor usual and ordinary repairs were effected and some ladders and a coal-ash screen supplied.

The eite was inclosed by a stone retaining wall and a wooden fence and the

electric light was installed in the building.

Work supervised by S. Adams, clerk of works.

ST. JÉROME.

PUBLIC BUILDING.

Repairs were made to chimneys, roof, and basement floor and a coal-ash screen supplied.

ST. LIN.

POST OFFICE.

A building situated on lot 1,278 Main St. of the Parish of St. Lin, was leased in April, 1895, and has since been renovated and furnished with post office fittings, furniture and safe.

Work inspected by S. Adams, clerk of work.

ST. VINCENT DE PAUL.

PENITENTIARY.

At the prison 140 feet of cut stone boundary wall, 27 feet high, and 91 feet of wall 37 feet high, as well as a cut stone angle tower 52 feet high to eaves line by 16 feet in diameter were built; the work on the main entrance gate were carried on, 8,000 cubic feet of stone being used therein, and twenty new window frames and sashes were provided. Three acres of the garden were inclosed by a stone wall. At the wardens residence a cut stone fountain was provided, the roof of the building was reshingled, and a new bath and closet room with complete plumbing therefor was put in.

Work done under the supervision of this department, Elzear Dagneault St.

Vincent de Paul, clerk of works.

SHERBROOKE.

POST OFFICE.

A new smoke pipe for furnace was supplied and repairs to some lock boxes made.

SOREL.

POST OFFICE, ETC.

Some minor usual and ordinary repairs were effected and a coal-ash screen supplied.

THREE RIVERS.

CUSTOM-HOUSE.

A new wooden sidewalk was laid along the street line and repairs were made to plumbing and heating as well as general repairs in collector's room; and a coal-ash screen was supplied.

POST OPFICE.

A new wooden sidewalk was laid along the street line and repairs were made to plumbing, heating and door locks.

VALLEYFIELD.

POST OFFICE.

A new floor was put in post office, general repairs were made to woodwork and plastering and the inside and outside woodwork and plastering painted.

Works supervised by S. Adams, clerk of works.

WEST FARNHAM.

POST OFFICE.

The interior woodwork was painted and some window blinds, and a coal ash screen supplied.

PROVINCE OF ONTARIO.

ALEXANDRIA.

REFORMATORY.

The portions of this building now under contract will consist of a pentagonal hub or central portion, known as a rotunda (from which eventually the administration block and 4 cell wings will radiate) and one of the cell wings. The "rotunda" will be pentagonal on plan with a frontage of 100 feet, a depth of 115 feet and a height of 80 feet from the ground line to the top of the battlements. It is to be covered by a flat roof and surmounted by an octagonal lantern 50 feet in diameter and 30 feet in height surmounted by a ventilator 10 feet high with a finial 10 feet in length, making 50 feet from the top of roof. The "rotunda" is eventually to consist of a basement for heating and lighting plant and a ground floor, hall for dining and drilling convicts, but at present and until the administration wing is built the ground floor of the rotunda is to be partitioned off and a temporary ceiling put in 13 feet from the floor to provide office for the warden, deputy, storekeeper, surgeon, accountant, guards, etc., and the basement is to be temporarily divided to provide dining room, kitchen, bakery, laundry and stores, as well as the heating, fuel and dynamo rooms, which are to remain there permanently. To the west of the rotunda is to be a cell wing 141 feet long by 77 feet 6 inches, having a basement 14 feet from floor to ceiling, containing 40 cells 8 feet 6 inches, by 5 feet, and an upper portion 38 feet 9 inches from floor to ceiling containing three tiers of similar cells 40 on each tier. The outside walls of the building are to be stone, lined with brick,

the facings of the cells, stone, the walling and vaulting of the cells brick. The flooring of the ground floor of iron joints with brick arching and concrete covering, the basement flooring is to be concrete, and the ground floor and basement partition, brick, the framing of rotunda roof is to be of iron, the remainder of the roof to be of wood, all covered with galvanized iron.

Plans, etc., prepared by this department, clerk of works, Mr. James Adams.

Contractor, Jos. Bourque, Hull, P.Q.

ALMONTE.

PUBLIC BUILDING.

A winter porch for rear entrance was supplied.

AMHERSTBURG.

POST OFFICE, ETC.

The water-closet were repaired and some hose and a coal-ash screen supplied.

BARRIE.

POST OFFICE.

Repairs were made to the roof, gasfitting and lawnmower, and a coal ash screen supplied.

BELLEVILLE.

POST OFFICE.

The locks were repaired and some minor usual and ordinary repairs were effected.

BERLIN.

POST OFFICE, ETC.

Usual and ordinary minor repairs were made under the supervision of the caretaker.

BRAMPTON.

POST OFFICE, ETC.

Usual and ordinary minor repairs were made under the supervision of the caretaker.

BRANTFORD.

POST OFFICE, ETC.

Repairs were made to the heating boiler and to the plastering as well as minor general repairs under the supervision of the caretaker.

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BROCKVILLE.

PUBLIC BUILDING.

A quantity of plumbing was renewed and repairs were made to plastering, etc., under the supervision of the caretaker.

CAYUGA.

POST OFFICE.

Some shelving was furnished.

CHATHAM.

PUBLIC BUILDING.

The area about the building was boulevarded and inclosed with wooden posts and iron pipe railings.

Work done under the supervision of the caretaker.

COBOURG.

POST OFFICE, ETC.

A cement sidewalk with stone kerb was laid along the street fronts and some general minor repairs done under the supervision of the caretaker.

CORNWALL.

POST OFFICE, ETC.

The hot water heating furnace gave out and a new one was supplied, erected and connected with the heating service.

Repairs were made to tower clock.

GALT.

POST OFFICE, ET(.

The drain was repaired, a new heating coil put in, and a coal ash screen supplied. Work done under the supervision of the caretaker.

GUELPH.

POST OFFICE, ETC.

Repairs were made to the furnace smoke stack under the supervision of the caretaker.

HAMILTON.

PUBLIC BUILDING.

A new connection was made with sewer and repairs were made to block paving, eaves troughs, roof, hoist, gasfitting, plumbing and woodwork of post office.

KINGSTON.

CUSTOM-HOUSE.

A granolithic sidewalk was laid along the street fronts. Work done under the supervision of Jos. Power, architect, Kingston.

POST OFFICE.

A granolithic sidewalk was laid along the street fronts, some general minor repairs were done to the building and some carpets and furniture supplied the office. Work done under the supervision of Jos. Power, architect, Kingston.

LINDSAY.

PUBLIC BUILDING.

Repairs were made to roof and eaves troughs and some office furniture and a coal ash screen supplied.

Work done under the supervision of the caretaker.

LONDON.

CUSTOM-HOUSE.

A new steam heating boiler replacing that which had been in use since the construction of the original building was put in and connected, and repairs were made to painting, glazing, plumbing and woodwork.

Work superintended by Jno. M. Moore, C. E., London, Ont.

POST OFFICE.

The cedar block paving of court yard was renewed, the steam heating apparatus was overhauled and in large part renovated, patent revolving doors were hung in the front entrance, repairs were made to plumbing, carpentering, painting and glazing and additional electric bells and furniture were supplied.

Work superintended by Jno. M. Moore, C.E., London, Ont.

NAPANEE.

PUBLIC BUILDING.

New storm sashes were supplied and usual and ordinary minor repairs done under the supervision of the caretaker.

ORANGEVILLE.

POST OFFICE.

The public lobby was refloored in maple, repairs were made to gaspipe, gastank and pump and a coal ash screen supplied.

Work done under the supervision of the caretaker.

ORILLIA.

PUBLIC BUILDING.

Electric lighting was installed and repairs were made to the heating furnace under the supervision of the caretaker.

OTTAWA.

CENTRAL EXPERIMENTAL FARM.

A two story wooden building on a stone basement for use as a sheep house is

in course of construction. It is 115 feet 4 inches long by 30 feet broad.

The woodwork of the superintendent's residence was repainted. The watercloset and bath room of the horticulturist's residence was sheeted inside and the plumbing remodelled, a new wash basin was put in each bath room at horticulturists and chemists residences and at the latter hot-water connections from kitchen range to bath room. The heating furnace at the chemist's residence was repaired; new grate bars, smoke pipe and fire box as well as a wash basin and a coil for grain sprouting were put in conservatory; new sink wastes, gasfittings, grate drawbars were supplied at museum, and minor repairs made to buildings generally.

Work done by departmental staff.

DYNAMO HOUSE.

The ground in rear of building was levelled and the brick setting of boilers renewed. A shed used for storage by the chief engineer's branch was removed from the canal basin and re-erected in proximity to the dynamo house.

EASTERN BLOCK-DEPARTMENTAL BUILDING.

Stationery fitments were supplied the Interior and Secretary of State Departments, gasfittings were done for rooms 81, 87, 53, 137, 149, 113, 120, the office of Inspector of Penitentiaries and Deputy Minister of Justice, and in the offices of the Secretary of State; electric bells were hung for Under Secretary of State, Privy Council, Minister of Justice's library and messengers room; telephone connections were made from the Secretary of State; wash basins were put up for Finance and Interior Deputies, and a new heating coil in room 66. Usual and ordinary repairs were made generally throughout, the blinds and storm sashes were taken off and put on, carpets were taken up, cleaned and put down, the steps were covered with boards for the winter, etc., etc.

Work done by the departmental staff. Mechanical engineer, Wm. King, Ottawa. Clerk of works, F. Breton, Ottawa.

GEOLOGICAL MUSEUM.

The four rooms in the annex formerly heated by stoves were furnished with hot water heating coils, connected with the heating system of the building, and the coil in room 2b was remodelled. Electric bells were hung in rooms 2b and 3b and the wiring generally overhauled.

GOVERNMENT HOUSE.

At the hall one of the four hot water furnaces was disconnected and removed to the farther end of the basement to heat adjacent basement rooms and a branch over the furnace, and further coils were put in basement and connected therewith. A

chamber was built under the chapel for the organ motor which was fitted up there and connected with city water pressure. Skylights were built in roof of verandahs. Stillroom hearths were taken up and relaid; the brickwork of tennis court, ballroom and stove house, as well as that at cottage lodge and carpenter shop was repaired, and the outside of ballroom and tennis court walls was recolored. A large part of the masonry foundation of the conservatory was rebuilt, a portion of the plant shelves was rebuilt, shelves were repaired, glass renewed and a new basement window put in for ventilation. A plate closet with gas plate heater and shelves were provided together with two cupboards and a bookcase, a large number of new wire netting, mosquito screens were provided and the existing screens painted. Repairs were made to ranges, plumbing, gasfitting, culinary apparatus, painting, glazing, and furniture, the coppers were retinned, extensive additions were made to the napery, packing cases were provided for the periodical removal and alterations and fitting for balls, suppers, etc., done from time to time.

The dairy was fitted up with tables shelves, stands, blinds, wire screens, hot

water boiler, coal stoves, etc., etc.

The shelter room at skating rink was sheeted inside with wood. A new water-closet with drain was constructed for stablemen.

The cownouse was partially reshingled; the toboggan slides were repaired and part of the framing renewed and some of the flooring of stables was renewed. A driving track was graded, levelled and inclosed.

A part of the culvert of back road was rebuilt.

A large quantity of new sidewalk and crossings was laid, fences were repaired and some new fence built, the back road was macadamized and a large number of cedars cut down.

The usual periodical cleaning was done, arrangements for and attendance on entertainments were furnished and the grounds, rinks, slides, etc., kept in order.

Work carried out and maintained under the supervision of this department by the departmental staff.

Clerk of works, Wm. Hutchison.

Contractors for maintenance of grounds and conservatories, Messrs. Sorley and Sims, Ottawa.

Contractor for removal of snow, A. Hunter, Ottawa.

GOVERNMENT PRINTING BUREAU.

Light iron umbrella stands with galvanized iron trays were supplied, and also a quantity of rubber hose for watering the lawns; a slate sink was put up in the bindery, new water supply pipes were put in both east and west wings; changes were made in the heating pipes of the Queen's Printer's office, some of the steam mains were covered, and two gas brackets put in.

Usual and ordinary repairs done throughout.

Work done by departmental staff.

Mechanical engineer, Wm King, Ottawa.

Clerk of works, F. Breton, Ottawa.

LANGEVIN BLOCK.

A copper rain conductor was laid along the cornice of 3rd floor of south-east pavilion.

Gasfitting was done in rooms 18, 13 and in the Agriculture Department, a wash basin was placed in room 9, extra electric bells were hung in post office and Indian

Department.

Iron ladders were put up, the full length of ventilation shafts to facilitute examination and repairs, the closet basin supply pipes being choked up with sediment were renewed; repairs were made to furnaces and boiler, grates new cables were supplied three of the elevators, a new gas governor and 30 new gas jets were put in

some minor alterations were made to hot water heating apparatus and the basement painted and whitewashed.

Work done by the departmental staff. Mechanical engineer, Wm. King, Ottawa. Clerk of works, F. Breton, Ottawa.

MAJOR'S HILL PARK.

The fences generally were repaired, the roof of shed was reshingled and the lawn benches repaired and repainted.

OBSERVATORY CLIFF STREET.

The grounds about the building was levelled and a new sidewalk laid.

PARLIAMENT BUILDING.

Alterations to the Senate restaurant and kitchen were effected; the speaker's rooms and those of the caretakers were cleaned tinted and painted, a new speaker's chair was supplied and the carpets taken up beaten and relaid.

Electric lights were fitted up in speakers office, Senate reporter's room, and rooms 18 and 19; an electric bell was hung between messenger's room and room 51; speaking tubes were carried from messenger's room to upper corridor; a wash basin was placed in the basement bath room and a portion of the steam pipes covered.

At the House of Commons a new block pavement to gangway was put in, a number of the offices were cleaned, tinted and painted, some furniture repaired, and the carpets taken up, cleaned and relaid. Electric lights were placed in the speaker's

dining room, barber's shop, deputy speakers office, and in room 3.

Gas lights were fitted up in the stationery vaults and gas logs in the speaker's parlor grates, and the speaker's plate warmer connected with the steam main. A new hood was provided for the chief messenger's gas stove, and a new slate sink for the kitchen. Repairs were effected to gas, water and steam pipes, the kitchen range, the gas stoves, etc., etc.

Work done by the departmental staff. Mechanical engineer, Wm. King, Ottawa. Clerk of works, F. Breton, Ottawa.

PARLIAMENT GROUNDS.

The glazing painting, and woodwork of the greenhouse were repaired. The bridges, platform railings and cribwork of lovers' walk were maintained and repaired. A shed to store coal oil was erected at the canal basin.

The snow was removed and the ice stored and delivered.

The grounds, etc., were maintained to the satisfaction of the department.

Contractor for maintenance of grounds, etc., N. Robinson, Ottawa.

Contractor for removal of snow, W. H. Cuddie, Ottawa.

PUBLIC BUILDINGS, REPAIRING STREETS, ETC.

Scraping, cleaning, repairs were made to the roadway of east and west Canal streets, and on both sides of locks, Nepean Point roadway, Wellington, Bank, Metcalf, Elgin and St. Patrick streets, Major's Hill roadway, Little Sussex Street, also the yards of the Printing Bureau, Museums, Post Office and old Pump House. The sidewalks and crossings of Wellington Street, Cartier Square, St. Patrick Street and at the Museum were repaired, the boulevard on Wellington Street was also repaired, the grass of the Geological Museum and Cartier Square was kept clipped, and the

ashes removed from the Langevin Block, Museums and Printing Bureau, the various roadways, sidewalks, foot paths, roofs and yards were kept clean of snow during the winter.

Work done by the departmental staff.

Contractor for the removal of snow, G. F. Guy, Ottawa.

SUPREME AND EXCHEQUER COURT BUILDING.

Gas fitting was done in the office of the registrar of the Exchequer Court and in library and a wash basin supplied registrars office.

WESTERN BLOCK .- DAPARTMENTAL BUILDING.

Gas fitting was done and fixtures supplied to office of Deputy Minister of Marine, marine records room and rooms 82, 92, 50, 148, 64, 60, 70, 74, 237, 100; chief architect's draughting office and the chief engineer's office; electric bells hanging was done from room 46 to 54 and 50 to 54, and in rooms 127, 134, 137, 6, 11 and 12; steam fitting was done in rooms 60 and 106 in the basement at east end in the Inland Revenue accountant's office. Sinks or wash basins were put in room No. 8, in laboratory room and in ladies closet room in basement; changes in water service of room 70 were made. A ventilating pipe to chimney was put in 74 and a lightning conductor was taken from the root of the west block tower through drain to river and connected to water main in yard as well.

Usual and ordinary repairs were done to woodwork, plastering, painting, roofing, heating, water, gas, and other services, furniture, footpaths, drainage, etc., etc., carpets were taken up, cleaned and replaced, blinds and sashes were taken down, cleaned and put up, the roofs were cleared of snow, the outside steps boarded, etc.

Work done by the departmental staff. Mechanical engineer, Wm. King, Ottawa. Clerk of works, F. Breton, Ottawa.

PEMBROKE.

POST OFFICE, ETC.

Usual and ordinary repairs were effected under the supervision of the caretaker.

PETERBOROUGH.

CUSTOM-HOUSE.

The drain was cleaned and office doors repaired under the supervision of the caretaker.

POST OFFICE.

The sewer was opened, cleaned and flushed; repairs were made to eaves and water-closets and the electric light was installed in the clock tower.

Work done under the supervision of the caretaker.

PETROLIA.

PUBLIC BUILDING.

Usual and ordinary minor repairs were made under the supervison of the car e taker.

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PORT ARTHUR.

PUBLIC BUILDING.

Repairs were made to heating furnace, plastering, oiling and varnishing and a new door spring was supplied.

Work done under the supervision of the caretaker.

PORT HOPE.

PUBLIC BUILDING.

The hot water heating furnace having given out was removed and a new one supplied and connected with heating apparatus and new smoke pipe put in. Work done under the supervision of the caretaker.

PRESCOTT.

PUBLIC BUILDINGS.

The plumbing of these buildings was connected with the private service of the adjoining hotel, the poprietors of which have contracted to furnish a water supply. Work supervised by S. Adams, clerk of works.

SARNIA.

PT. EDWARD CATTLE QUARANTINE STATION.

Repairs were made to office flooring.

ST. CATHARINES.

PUBLIC BUILDING.

Repairs were made to plumbing, some usual and ordinary minor repairs done and coal-ash screen supplied.

Work done under the supervision of the caretaker.

ST. THOMAS.

PUBLIC BUILDING.

The exterior of stonework was repointed, an inclosure iron railing and gate erected, a stamp vendor's office put up in the lobby, and a coal-ash screen supplied. Work carried out under the supervision of the caretaker.

STRATFORD.

PUBLIC BUILDING.

The additions refered to in my report of last year are completed, and the heating apparatus has been repaired and extended inclusive of a new heating furnace.

Clerk of works, D. Scrimger, contractors for heating etc., Purdy, Mansell & Mashinter, Toronto, Ont. Plans, etc., prepared and work supervised by this department.

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STRATHROY.

PUBLIC BUILDING.

Some minor repairs to woodwork, locks, etc., were done under the supervision of the caretaker.

TORONTO.

CUSTOM-HOUSE.

Usual and ordinary repairs were effected to heating apparatus, plumbing, inclosure railings, gas-fittings, door locks, clocks, etc. The plastering throughout was cleaned and re-tinted or painted, and the interior woodwork painted.

Cleaning and tinting done under supervision of Denison & King, architects, Toronto. Repairs mainly by mechanical staff in charge of Wm. Bell, engineer.

DRILL HALL.

A rotary ventilation was placed on the north chimney, a gas heater was supplied and fitted up in the caretaker's office, and some minor repairs done to hot water pipe.

EXAMINING WAREHOUSE.

Usual and ordinary repairs were effected to plumbing, steam heating, water service, hose, machinery, boiler, safe, hoists and engine room clock and a few articles of furniture were furnished.

Works done principally by the mechanical staff, Wm. Bell, engineer, in charge.

INLAND REVENUE BUILDING.

Usual and ordinary repairs were effected, principally by the mechanical staff to plumbing, heating, paper cutter, door locks, boilers, gas pipes and furniture. Wm. Bell, engineer, in charge.

POST OFFICE.

Some minor repairs were made to gas fitting, plumbing and general repairs to sockets of electric light. Work mainly done by the mechanical staff in charge of Wm. Bell, engineer.

TRENTON.

POST OFFICE

Portion of the plumbing and soil pipes were renewed under the supervision of the caretaker.

WALKERTON.

POST OFFICE.

A new drain was put in, repairs were made to roof and a coal-ash screen

Work done under the supervision of the caretaker.

PROVINCE OF MANITOBA.

PORTAGE LA PRAIRIE.

NEW PUBLIC BUILDING.

A contract for the construction of this building on town lots 25 and 26, corner of Anne Street and Saskatchewan Avenue, was entered into July 29th, 1895. The building is to have walls of stone, floors, partitions and roof of wood and the roof covering of galvanized iron, and is to consist of a main building of two stories, basement, and a one story annex. On the ground floor are to be the post office and examining warehouse, on the first floor the Customs and Inland Revenue, on the attic floor the caretakers, and in the basement the heating furnaces and fuel. Brick vaults are provided on ground and first floors.

Plans and specification prepared by this department.

Clerk of works, John Toye.

Contractors, Viau & Lachance, Hull, P.Q.

WINNIPEG.

POST OFFICE BUILDING.

A room was constructed and fitted up in basement for use as a customs parcel examining room. One of the steam boilers used for elevator power was condemned and replaced by a new one, some new fittings were supplied the Dominion Land Office.

Work superintended by D. Smith, clerk of works, Winnipeg, Man.

EXAMINING WAREHOUSE.

Repairs were made to the hot air furnace and the skylights were closed up. Work superintended by D. Smith, clerk of works, Winnipeg, Man.

CUSTOM-HOUSE.

Some furniture was supplied, the bell hanging repaired etc. Work superintended by D. Smith, clerk of works, Winnipeg, Man.

IMMIGRATION HALL.

Repairs were made to the cistern and the fall pipes as well as minor general repairs to the building.

NORTH-WEST TERRITORIES.

MOOSEJAW, ASSA.

COURT HOUSE.

A fireproof brick vault with burglar proof doors was constructed in the building and some minor alterations made to the partitions, galvanized iron eaves troughs and down pipes. Stove pipes were supplied as well as some furniture for the office of the sheriff and clerk of the court, the earth was graded about the building and wood gullies fixed to carry off water from the down pipes.

Work superintended by D. Smith, clerk of works, Winnipeg, Man.

MOOSOMIN.

COURT-HOUSE.

The addition to this building described in my report of last year has been completed and the building is occupied.

Plans, etc., prepared by this department. Clerk of works, D. Smith, Winnipeg, Man. Contractor, J. W. Smith.

POLICE BARRACKS.

Minor general repairs were effected under the supervision of D. Smith, clerk of works, Winnipeg.

REGINA, ASSA.

COURT-HOUSE.

An inclosure was built in attic about the water cisterns, provided with a hot water heating coil.

Work superintended by D. Smith, clerk of works, Winnipeg, Man.

DOMINION LANDS OFFICE.

The office was fitted up with counters, cases, shelving, screens, etc. Clerk of works, D. Smith, Winnipeg, Man.

GOVERNMENT HOUSE.

The kitchen waste and water service pipes were overhauled and repaired. Work superintended by D. Smith, cierk of works, Winnipeg, Man.

NORTH-WEST POLICE BARRACKS.

Barrack Block "B" together with mess rooms, kitchen, etc., in rear of same were lifted 3 feet, the defective sills and joints replaced, ground excavated and a stone basement built under the whole extent.

Plans, &c., prepared by this department. Clerk of works, D. Smith, Winnipeg, Man. Contractor, Wm. Henderson, Regina.

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WOLSELEY, ASSA.

COURT-HOUSE.

Building completed and occupied. Plans, etc., prepared by this department. Clerk of works, Charles Taylor, Wolseley, Assa. Contractors for construction, Banbury & Magee. Contractors for heating, McKinley & Northwood, Ottawa.

PROVINCE OF BRITISH COLUMBIA.

NANAIMO.

PUBLIC BUILDING.

New outside steps were provided and some additional gasfitting done under the superintendence of F. C. Gamble, resident engineer, Victoria, B.C.

NEW WESTMINSTER.

DRILL HALL.

The roof principal and slating injured by the earthquake were repaired, ventilators were put in to protect floor from dry rot, and minor repairs were made to locks, windows and grates.

Work superintended by F. C. Gamble, resident engineer, Victoria, B.C.

NEW DRILL HALL.

On August 13, 1895, a contract was entered into for the erection of this building on the north-eastern corner of Queen's Avenue and Sixth Street, a portion of the Government reserve donated by the Provincial Government. The building is of wood, 150 feet long by 80 feet broad, including armories and gun room.

Plans prepared and work superintended by F. C. Gamble, resident engineer,

Victoria, B.C.

Contractor, David Bain.

POST OFFICE.

Minor repairs were made to roof and a new door-lock and counter were supplied. Work superintended by F. C. Gamble, resident engineer, Victoria, B.C.

VANCOUVER.

PUBLIC BUILDINGS.

Minor repairs were made to roof, glazing, furniture, etc. Work superintended by F. C. Gamble, resident engineer, Victoria, B.C.

GUN SHED.

A wooden gun shed 24 feet by 40 feet was constructed on a plot of land opposite that occupied by the 5th Regt., C.A.
Work superintended by F. C. Gamble resident engineer, Victoria, B.C.

Contractor, J. M. Luckie.

VICTORIA.

CUSTOM-HOUSE.

Minor repairs were made to bell hanging, gasfittings, door hardware and furniture.

Work superintended by F. C. Gamble, resident engineer, Victoria, B.C.

NEW PUBLIC BUILDING.

Fair progress has been made during the year on this building, which was described in my report of last year. The resident engineer in charge reports on the advantage gained by having the stone inspected in the quarry, a few pieces that had been exposed to sait water were dressed and showed discoloration by exudation and deterioration by efflorescence, the tool marks grudually disappearing.

Plans and specifications were prepared and tenders asked for the construction

of a hot water heating apparatus.

Plans, &c., prepared and work supervised by this department.

F. C. Gamble, C.E., resident engineer.

Contractors, Messrs. Elford & Smith, Victoria. B.C.

POST OFFICE, ETC., BUILDING.

Some new fittings and furniture were supplied, new doors were provided for vestibules and public lobby, and repairs were made to gasfitting, plumbing, roofing, down pipes and sewer connections.

Work supervised by F. C. Gamble, resident engineer, Victoria, B.C.

MILITARY STOREHOUSE.

Building completed and occupied.

Plans, &c., prepared and work superintended by F. C. Gamble, C.E., resident engineer, Victoria, B.C.

Contractors Messrs. Bragg & Pike, Victoria.

WILLIAM'S HEAD, B.C.

QUARANTINE STATION.

Repairs were made to the water supply, and the machinery, a wagon road connecting the station and the main road was constructed and some hospital beds and a few other articles of equipment supplied.

Work superintended by F. G. Camble, resident engineer, Victoria, B.C.

DOMINION BUILDINGS.

FUEL.

Tenders were invited by public advertisement for the supply of coal at 137 of the public buildings, and coal and wood supplied to over 200 buildings in all.

LIGHTING.

The lighting of the various Dominion buildings is under the control of this branch of the department. Of these buildings 84 are lighted by gas, 59 by incandescent electric light, 2 by gasoline, 2 by natural gas, and the remainder by coal oil. At several of the last mentioned, the entrance is illuminated by an arc light outside.

WATER.

The water supply for the various public buildings, excepting the penitentiary and military buildings, is controlled by this branch of the department; 122 buildings at 68 localities have water service connected with water supply of the local waterworks companies, the remainder being in general supplied with wells, pumps and tanks.

ENGINEERS, FIREMEN, &c.

The various engineers, firemen and caretakers, 247 in number, including employees at parliament and departmental buildings at Ottawa, and the heating apparatus of Dominion public buildings, with the exception of those of the various penitentiaries and military buildings, are under the control of this branch of this department.

GENERALLY.

Repairs and alterations have been executed and sundry articles of furniture, etc., provided, cleaning, painting and other improvements carried out in connection with a number of buildings, not herein reported upon.

APPENDIX No. 3

REPORT

ON

HARBOURS AND RIVERS, DREDGES, DREDGING AND SURVEYS

THROUGHOUT THE DOMINION

FOR THE FISCAL YEAR ENDED 30TH JUNE, 1896

BY THE

CHIEF ENGINEER

REPORT OF THE CHIEF ENGINEER

DEPARTMENT OF PUBLIC WORKS OF CANADA,
CHIEF ENGINEER'S OFFICE,
OTTAWA, 2nd December, 1896.

E. F. E. Roy, Esq., Secretary,
Department of Public Works.

SIR,—I have the honour to submit my report on the various works under my charge during the fiscal year ended 30th June, 1896.

The works consist in the construction of and repairs to wharfs, piers and breakwaters; dredging and the maintenance of the dredging plant belonging to the department; the construction and maintenance of graving docks; the maintenance and working of slides and booms; the construction and maintenance (in conjunction with the provinces interested) of interprovincial bridges, and of bridges in the North-west Territories; hydrographic surveys and examinations required for the preparation of plans and reports.

WHARFS, PIERS AND BREAKWATERS.

During the year 1895-96, works were carried on at the following places:

Nova Scotia.

New Brunswick.

Anderson's Hollow	. Albert Co	. Repairs to breakwater.
Cape Tormentine	Westmoreland Co	Repairs to wharf.
Dalhousie	. Restigouche Co	. do do
Gardner's Creek	.St. John Co	Construction of wharf.
Negro Point	. do	Repairs to breakwater.
River St. John		. Improvements to navigation.
Shediac (Pt. du Chêne)	. Westmoreland Co	Repairs to ballast wharf,

Prince Edward Island.

Relfast	.Queen's County
Brae	Prince Co do
	Queen's Co do
Kier's Shore	Prince Co do
Lambert's	. King's Co
McGee's	Prince Co do
Murray Harbour	King's Co do
New London	.Queen's Co Reconstruction of breakwater.
North Cardigan	.King's Co Repairs to pier.
Pinette	.Queen's Co do
Port Selkirk	. do do
Rustico North	. do
	of new.
Souris.	King's Co Repairs to breakwater.
Stephen's	doRepairs to pier.
Victoria-Crapaud	Queen's Co do
Wood Islands	. do

Quebec.

Berthier (en bas)	Charlevoix Co Montmagny Co Chateauguay Co Chicoutimi Co Gaspé Co do Charlevoix Co	Repairs to wharf. Extension of wharf. Repairs to wharf. Repairs to breakwater. Extension to wharf
Lacolle	.St. John's Co	do
Landing Places (Lower St. Law		a do
monac)	, -	. Improvement of boat landings.
Tempoinio	. Laprairie Co	Improvement of boat landings.
Laprairie	Charles Co	Protection work.
Les Epoulements	Charlevoix Co	Repairs to wharf.
Longueuil	.Chambly Co	Repairs to pier.
Matane	.Rimouski Co	Repairs to breakwater.
Murray Bay	.Charlevoix Co	Repairs to wharf.
Petite Rivière St. François	. do	Removal of rocks.
Philipsburg	. Missisquoi Co	Construction of wharf
Pointe aux Esquimaux	Saguenay Co	Extension of subout to
Rivière du Lièvre	Ottawa Co	Domina to look down to
Rivière du Loup (en bas)	. Temiscouata Co	Donning to whomf
Rivière Noire	.Charlevoix Co	Construction of breakwater
River St. Manrice		Immunication and to marriagation
River Touladie.	.Témiscouata Co	do do
River Vamaska	. Yamaska Co	Popoline to look and dam
Sta Anna de la Pérade	.Champlain Co	Destantia mandam.
Cto Anno du Comonav	Chicoutimi Co	Protection work.
Ste. Affile du Saguenay	. Chicoutimi Co	Repairs to block.
Ste. Cecile du Dic	Chiantimi C	Repairs to whart.
St. Felician	. Chicoutimi Co	Construction of wharf.
St. Irénée	. Charlevoix Co	Extension of wharf.
St. Jean, Ile d'Orléens	. Montmorency Co	Repairs to pier.
St. Laurent, do	do	do
Trois Pistoles	.Témiscouata Co	Removal of rocks.

Ontario.

Burlington Channel. Wentworth Co. Repairs and improveme Cobourg. Northumberland Co. Repairs to pier. Collingwood. Simcoe Co. Repairs to breakwater. Kircardine. Bruce Co. Repairs to north pier. Kingston. Frontenac Co. Removal of shoal. Louis Head. Bruce Co. Repairs to pier. Morpeth. Kent Co. do. Oakville. Halton Co. do. Owen Sound. Grey Co. Harbour improvements Port Dover Norfolk Co. Repairs to breakwater, Port Hope. Durham Co. Repairs to piers.	
Toronto	

Manitoba,

HnausaLake	Winnipeg Construction of wharf.
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British Columbia.

Columbia River	.Improvemen	at to navigation.
Fraser River	do	do
Kootenay River	. do	do
Okanagan River	do	do
Skeena River	. Removal of	snags.
Victoria Harbour	. Removal of	Dredger rock.

PROVINCE OF NOVA SCOTIA.

ARISAIG.

Arisaig, Antigonish County, is situated on the southern shore of St. George's Bay,

15 miles to the eastward of Merigomish, the nearest harbour.

A pier commenced by the Government of Nova Scotia some years prior to confederation, came under the charge of the Federal Government in 1870, being at that time an old and somewhat dilapidated structure. During 1873 it was thoroughly repaired, and small amounts were expended in 1880 and 1881, in repairing damages caused by the ice during previous winters.

Extensive repairs to the pier having been found necessary, a contract was made in 1886 for their execution, and also for the construction of a broakwater on the western side of the harbour. The whole of these works were completed in 1888, and at that date the pier was 440 feet in length, consisting of an approach and an outer portion of 195 feet in length and varying from 40 to 44 feet in width. There was, at extreme low water, a depth of only one foot at the outer end, and over the area sheltered by it the depth of water did not exceed 3 feet.

The breakwater is 300 feet in length and 20 feet in width on top, with an L at the outer end 40 feet in length, the depth at the outer end, at extreme low water,

being 6 feet.

During 1889-91 the pier was extended a distance of 100 feet, and a portion of the northern or seaward face was protected by a deposit of heavy stone. This extension was founded on a bottom dredged to a depth of 8 to 10 feet at extreme low water, and a channel or basin was dredged for a length of 130 feet along the pier, and for a width of 70 feet to a depth at extreme low water varying from 10 feet at the outer end, to 3 feet at the inner end.

In December, 1889, the pier was damaged, and during the great gale of December, 1890, further damage was done to the superstructure; a portion of the seaward face was carried away, and the sidewalls and top of the approach were also much damaged. During 1891-92 extensive repairs, including the reconstruction of 50 feet of the outer end of the pier, and an extension of the stone talus or slope on the seaward side were made.

During 1893-94, the sum of \$1,830.25 was expended on refastening the covering of the head of the breakwater on the western side of the harbour, and in completing the repairs to the pier proper, commenced in 1891-92, which consisted in renewing the covering, cap timbers, upper face-timbers, floor-stringers and upper cross-ties over one-half of the width of the pier for a length of 75 feet, and filling the same with ballast to a depth of 2 feet. The approach for a length of 140 feet was repaired, and an embankment of stone was made extending along 250 feet of the inner face. About 100 cubic yards of large stone were placed against the outer face, at the junction between the old pier and the extension built in 1889.

During the fiscal year 1895-96, the sum of \$999.10 was expended in repairing and strengthening the outer end of the pier. Over 68 feet of facework the close fendering was renewed and protected by a talus of concrete, sloping 2 to 1 from 5 feet above the bottom; about 100 cubic yards of large stone was placed along the seaward face, and 30 cubic yards of ballast in empty face-chambers, and the captimbers, over a length of 110 feet, were extra bolted to face-timbers and fenders.

Soundings taken in 1895 show that the dredged channel, or basin has filled, except near the outer end of the pier. A barge loaded with iron ore, which foundered in September, 1893, and for some time obstructed the approach to the inner side of the pier, has been removed by the owner.

Spring tides rise 5 feet.

BASS RIVER.

Bass River, Colchester County, is a thriving farming and manufacturing village of some 500 people, situated on the north side of Cobequid Bay, the eastern arm of the Bay of Fundy. It is halfway between Truro and Parrsboro', or about 28 miles

from each place.

In December, 1894, a contract was awarded to Mr. John McMillan, of Port Hood, C.B., for the construction of a pile wharf, for the purpose of shipping lumber and landing general merchandise, at a cost of \$2,840. It was finished in August, 1895. The work is 210 feet long and 40 feet wide, with an L at the outer end 55 feet long and 40 feet wide. At the outer end of the L it was found necessary to build a small block of cribwork containing 8,000 cubic feet, on account of the hard nature of the bottom preventing the piles from being driven to a proper depth. This was built at a cost of \$400.00.

BAYFIELD.

Bayfield, Antigonish County, is on the south coast of St. George's Bay, 8 miles east from Antigonish Harbour, and 15 miles west from the entrance to the Strait of Canso, the harbour being formed by Pomquet Island and outlying reefs.

Pomquet Island is about three-quarters of a mile long, and is separated from Pomquet Point, on the mainland, by a strait 1,850 feet wide, with a depth of 4 feet at

low water in a channel 400 feet wide.

Wharf.

In 1857, the construction of a wharf was commenced by a joint stock company on the west side of the harbour, a quarter of a mile south from Pomquet Point. It was handed over to the provincial government and completed in 1873. came under the charge of the Federal Government in 1887, it was a block and span

structure 402 feet in length, extending to 9 feet at extreme low water. In 1887-88 the two outer and adjoining blocks were raised, repaired and close piled; the central block and the shore block were cut down to low water; and a continuous work was constructed between the outer blocks and the shore.

By the great gale of the 1st December, 1890, the work was carried away down to from 6 feet below low water at the outer end, to 3 feet above low water 112 feet

from the inner end.

In 1892-93 a contract was entered into for the construction of a new wharf. The work under contract was completed, and the approach to it was improved by

one of the departmental dredges, in 1893-94.

The new wharf is 442 feet in length, including 33 feet of rubble masonry, 319 feet of block and span open-faced cribwork 25 feet wide, and 90 feet of close-faced cribwork in two blocks each 60 by 30 feet, placed at right angles. The substructure of the open-faced cribwork and of the outer close-faced cribwork is of creosoted North Carolina yellow pine, and the superstructure of native timber. The depth at extreme low water at the outer end is 11 feet. Spring tides rise 4 feet.

Since its completion the blocks of both open and close-faced work have settled

considerably, principally on the northern side.

In May and June, 1896, the sum of \$348.37 was expended in levelling up 127 feet of the block and span work and in slight repairs to the covering between the two outer close-faced blocks.

Breakwater.

A breakwater 400 feet in length, was constructed in 1879, and extended 310 feet in 1888. The work consisted of a crib-core, 18 feet in average width, covered with stone, sloping on the seaward side 3 to 1 and on the inner side one and a half to one. It continued undisturbed until the occurrence of the gale of the 1st December, 1890, when the stone covering was stripped off, nearly to high water level, to within 160 feet of the inner end.

During the years 1892-93 and 1893-94, the breakwater was repaired and extended. The work done included an extension 70 feet in length with an L or return at the outer end 40 feet in length and the reconstruction of the top work and covering over a length of 475 feet, or to within 220 feet of the inner end.

In 1895-96 the sum of \$1,021.18 was expended in completing the reconstruction of the top work and covering, and in repairing and strongthening the outer end. The top work was reconstructed over a length of 170 feet (50 to 220 feet from the inner end); over the outer end, or head, the talus was reconstructed in places, and about one-half of the covering stones were renewed and the space between the covering stones above 1 foot below high water, over 200 feet from the outer end, were filled in with cement concrete.

BELLIVEAU'S COVE.

Belliveau's Cove, Digby County, is situated on the eastern shore of St. Mary's Bay, about four miles south-west of Weymouth. It has a population of 200 to 300 and is one of the most important shipping and fishing ports on the east coast of

Digby County.

The harbour, which is dry at low water, is formed by two piers or breakwaters, the northern now 500 feet long built in 1825, and the southern 350 feet long in 1853, both at the joint expense of the inhabitants and the provincial government. Both works are built of round log stone-filled cribwork of the usual type, and they inclose an area of about three acres, over the greater part of which is a depth of 12 feet of water at high water ordinary spring tides.

During the year, the sum of \$500 was expended in taking down and rebuilding a portion of the shoreward end of the south side of the northern breakwater, which was in an advanced state of decay. The new work is 150 feet long, of an average height of

12 feet and from 10 to 14 feet wide; it has been well and strongly built, and full ballasted and bolted. The remaining portion of this breakwater will require similar rebuilding within the next two or three years.

BIG POND.

Big Pond, Cape Breton County, is on the south side of East Bay, an arm of the

Great Bras d'Or Lake, and 13 miles from the head of the bay.

The wharf, commenced in 1887-88 was completed the following year. It is 269 feet in length and 20 feet in width, and consists of an approach of brush and stone with 12 feet of cribwork at its outer end and 5 blocks with openings of about 17 feet 6 inches. The depth at the outer end is 8 feet at low or, 9 feet 3 inches at high lake level.

During the year 1895-96 the sum of \$150.00 was expended in repairing the approach and outer blocks, and in placing about 115 cubic yards of ballast in the outer block and in the west face chambers of the other blocks. The ballast is now about three feet below the top of the covering in each block.

BOULARDERIE (ROSS' FERRY.)

Ross' Ferry landing, Victoria County, is on the northern side of Boularderie Island, 13 miles to the westward of the principal entrance to the Great Bras d'Or Lake.

The public wharf, built in 1884-85, a mile and a quarter to the eastward of Ross' Ferry Landing, having fallen out of repair, a contract was entered into in August, 1895, for the construction of a new wharf at a point about midway between the old wharf and the ferry landing.

The work under contract, includes a road cutting 106 feet in length; an approach 33 feet in length and 20 feet wide, consisting of a brush and stone embankment and a stone abutment; creosoted pile work 61 feet in length and 20 feet wide; and a crib-

work head 20 by 50 feet with crossoted substructure.

During the year 1895-96 the road cutting and approach were completed, the expenditure, including the cost of inspection, amounting to \$412.67; and nearly all the native timber required was delivered.

BROAD COVE.

Broad Cove Marsh, Inverness County, is on the Gulf of St. Lawrence, 12 miles

south from Margaree Harbour.

The wharf at this place was completed in 1888. It was 400 feet in length and 26 feet in width on top, and was constructed in separate blocks up to a little above low water, with continuous superstructure. The outer block and the block next it were respectively 56 and 68 feet in length. The depth at the outer end at extreme low water was 12 feet 10 inches.

In 1890 slight repairs were made to the covering and cap-timbers near the outer

end, and several of the outer pockets on the east side were reballasted.

In December, 1890, the work was badly damaged, the superstructure was destroyed over a distance of 100 feet from the outer end, and the top broken up for a further distance of 60 feet. The outer block went down four or five feet below low water, and the second block to low water over 44 feet of its length; ballast went out of the face chambers on the east side to within 160 feet of the inner end, and during the years, 1891-94 the work was reconstructed, reballasted, and strengthened by close fendering.

While repairs were in progress in the autumn of 1893, and again in January, 1894, the work sustained serious damage through loss of ballast, which was washed out through openings on the northern side. Subsequently it was carried away down

to below low water, to within 207 feet of the inner end.

In 1894-95 the work was partially reconstructed inwards from 207 feet from the inner end. During the year 1895-96 the sum of \$500.00 was expended in completing the reconstruction of the work inwards from 207 feet from the inner end. The work done includes placing two courses of face timbers over 39 feet on the southern side, 25 feet at the outer end, and 52 feet on the northern side; placing stringers and covering over 52 feet from the outer end; placing about 25 cubic yards of ballast; close fendering 39 feet on the southern side, 25 feet at the outer end, and 95 feet on the northern side; and placing a few large stones along the northern or seaward face.

The reconstructed work is in good condition, but its inner face is obstructed by a deposit of ballast, and is available for boats only at high water.

COW BAY.

Cow Bay, Cape Breton County, is on the eastern coast of Cape Breton Island about 18 miles eastward of Sydney Harbour. Owing to extensive coal mines in its vicinity it is a place of considerable importance.

The bay is two and a half miles wide at its mouth, and being open to the Atlantic from the east, affords no safe anchorage during gales from that quarter.

A breakwater was built on the north side of the bay, prior to 1867, by Messrs. Archibald & Co., proprietors of the Gowrie mines, with some aid from the Government of Nova Scotia.

It is 1,386 feet in length, and was originally about 44 feet in width, and had a depth, at the outer end, at low water, of 17 feet. The area of the basin inclosed between it and the loading pier of the Gowrie mines is about 17 acres, 10 acres of which had originally a depth of from 9 to 17 feet at low water. Spring tides rise 5 feet.

In 1873, while repairs were in progress by the department, the breakwater was seriously damaged by the great gale of the 24th August. After the gale, operations were resumed, the balance of the amount appropriated being largely supplemented

by Messrs. Archibald & Co.

In 1874, Messrs. Archibald & Co.'s, interest in the breakwater was acquired by the Dominion Government, and a contract entered into in May, 1876, for repairing and strengthening the structure, was completed in July, 1877. Extensive repairs have been made nearly every year since 1877, and the work has been strengthened by the addition of counterforts or outer face works, and by close piling.

The breakwater, prior to the gales of the 3rd and 8th February, 1895, consisted of an inner work extending from within 220 feet of the shore end to the outer end, and of counterforts with connecting outer face works, from within 580 feet of the shore end to within 56 feet of the outer end. The outer and inner works were about 22 feet apart, and were connected by tie walls. The spaces between them were filled with earth and stone ballast.

During the gales referred to, a breach was made through the breakwater near the outer end, 140 feet of the outer face work (including 70 feet recently reconstructed) being destroyed, and the work opposite to it, carried away down to below low water; about 25 feet of the outer work between the two outer counterforts was destroyed; ballast was washed out in several places; and some close-piling was carried away.

During the year 1895-96 the sum of \$3,999 87, was expended in urgent repairs, including reconstructing, close piling, and reballasting portions of the outer faceworks, placing concrete in face timbers, reballasting, and renewing the covering of the two outer counterforts; slight-repairs to the inner counterfort; renewing the covering of three tie walls between outer and inner face-works; and in cutting away loose timbers at the ends of the outer and inner face work next the breach.

Owing to the exposed position of the breakwater, and to the fact that the outer works are insecurely founded on the remains of the original structure or on ballast, and that they have been weakened by the ravages of the teredo, it is always liable to demand the property costally gales.

to damage during easterly gales.

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D'ESCOUSSE.

D'Escousse, Richmond County, is a thickly settled district of Isle Madame, on the southern side of Lennox Passage, a strait separating the island from the

mainland, and connecting St. Peter's Bay with the Strait of Canso.

A contract entered into in 1893-94 for the construction of a wharf at Poulement; about half a mile to the westward of the village of D'Escousse, was completed the following year. The work consists of an approach 315 feet in length, a stone embankment 107 feet in length, and a creosoted pile extension 120 feet in length. The depth at extreme low water at the outer end of the work, obtained by dredging in 1894-95, is 10 feet. Spring tides rise 6 feet, neaps 4 feet.

During the year 1895.96 the sum of \$236.54 was expended in constructing a slip on the west side of the pile extension, and in widening the approach at its inter-

sections with the highway and with the stone embankment.

DIGBY.

The town of Digby, county of Digby, population 1,500, is situated at the south western end of the Annapolis Basin. It is an important station on the Dominion Atlantic Railway, 150 miles from Halifax, 20 from Annapolis and 67 from Yarmouth, the terminus, and a daily steamer runs to St. John, N.B., in connection with the railway service.

The pier, which was first built by the provincial government some years before confederation, is an important and substantial composite structure partly of cribwork and partly of pile work, 870 feet long and 40 feet wide. Its outer end is 40 feet high and at high water ordinary spring tides, carries about 33 feet of water.

Spring tides rise 24 feet, neaps 18 feet.

During the year the sum of \$4,341.99 was expended in filling with substantial close piled trestle work a recess in the northern side of the pier, 210 feet long and 17 feet wide, and in renewing and raising from 1½ to 3 feet the floor of the outer 225 feet in length of the pier. The object in filling the recess was to enable the steamer to come to a berth alongside the north face during high water, and to afford more floor space for the hauling of freight. The work done is a valuable and important improvement to the pier which is now in excellent condition.

EATONVILLE.

Eatonville, Cumberland County, formerly known as the "Three Sisters" is situated on the south-east side of Chignecto Channel, about 10 miles north-east of

Cape Chignecto, and 35 south-west from the Joggins.

In 1887-8, a breakwater 123 feet long, 20 feet wide, and of an average height of 15 feet, was built by the department at a cost of \$2,000 for the purpose of protecting the gravel beach that forms the harbour, and to serve also as a loading wharf for the shipment of timber.

During 1888-9, under an appropriation of \$3,000, an extension 80 feet in length was begun, but when the work was about half finished, it was seriously damaged by a heavy gale, which also cut away the gravel beach at its inner end, and undermined the inner face. The new work was at once suspended and the balance of the appropriation devoted to the construction of some beach protection work, and to the securing for the winter of the new work so far as it had been built.

In 1889-90, at a cost of \$2,000, the extension begun the previous year was satisfactorily completed, it, as well as the first portion of the work, being strongly built of round log cribwork, well fendered and ballasted, and close sheathed on the

outer side with 6 inch flatted spars.

In 1892, a further extension, shorewards this time, was built 205 feet long to fill the gap between the shoreward end of the previous work and the outer end of

Messrs. Eaton's wharf. This new piece of work is 20 feet wide, and from 10 to 19 feet high. Its outer face is close piled its whole length, with large piles driven

through the gravel to the solid rock. Its cost was \$2,700.

Early in the spring of 1895, the stream that enters the bay alongside the breakwater, having an unusually heavy freshet, caused the work to settle from two to three feet. During the year the sum of \$250.61 was expended in raising and levelling the floor of the breakwater.

ECONOMY.

Economy, Colchester County, is situated on the north side of the Basin of Minas, 17 miles west of Great Village and 21 east of Parrsboro'.

A wharf was built by the department in 1887-88, 208 feet long and 25 feet wide,

at a cost of \$2,500.

In the summer of 1890, an extension was built 100 feet long and 25 feet wide with an \bot 25 feet long on the outer end, at a cost of \$2,500. In the summer of 1891, a second extension was built 100 feet long of the same width as the rest of the structure, at a cost of \$2,200. In the autumn of 1891, a third extension was built 55 feet in length, at a cost of \$1,000.

The whole structure was substantially built of round log cribwork, well

ballasted and double fendered.

Its average height is about 18 feet and at the outer end at high water ordinary spring tides, there is about 16 feet of water.

Spring tides, rise 46 feet, neaps 39 feet.

During the fiscal year the sum of \$159.45 was spent in laying new plank flooring for 190 feet in length of the shoreward portion, and in putting some new fenders on the outer block.

GEORGEVILLE.

Georgeville, Antigonish County, is on the Northumberland Strait, six and a half miles south-west from Cape George, and distant, by land, from Arisaig on the

Northumberland Strait, and McNair's Cove on St. George's Bay, eight miles.

The wharf at this place, commenced in 1890-91, and completed the following year, is 207 feet in length and 20 feet in width on top, with an \(\begin{align*} \ 20 \) by 20 feet. The approach, which is 87 feet in length, is of stone, and the remainder of the work of squared timber, fully ballasted, and protected by sheathing and fenders.

The depth at the outer end, at extreme low water, is 5 feet. Spring tides rise

4 feet.

During the year 1895-96, the sum of \$1,955.87 was expended in procuring all the materials required for the construction of a proposed extension of 44 feet to reach 6 feet 6 inches at extreme low water, with the exception of a small quantity of ballast. The cost of completing the extension is estimated at \$1,200.00.

GRAND ETANG.

Grand Etang, Inverness County, is situated on the Gulf of St. Lawrence, about

midway between the harbours of Margaree and Cheticamp.

In December, 1893, a contract was entered into for the construction of works designed to improve the entrance to a large pond, and thus make it available for the use and shelter of fishing boats and small vessels.

The work under contract was completed in 1894-95, with the exception of the excavation to low water between the piers, and the removal of a bridge and abut-

ments.

The works consist of two piers, placed 87 feet apart, except at the entrance where the distance between them is narrowed to 44 feet. Each pier consists of brush and stone work 135 feet in length; brush and stone work, with outer slope of 3 to 1, 130 feet in length; open-faced cribwork 100 feet in length; and a close-faced cribwork head 30 by 50 feet, the substructure of which is of creosoted timber. About 200 feet of the brush and stone work, on each side, is founded on a bottom excavated to 1 foot above extreme low water, and the remainder of the pier work, on the natural bottom. The depth at the entrance is 4 feet 6 inches at extreme low water. Spring tides rise 4 feet.

During the months of May and June, 1896, the sum of \$4,289.55 was expended. Of this \$3,690.20 was for the construction of a pile bridge and approaches; and \$599.35 in removing the superstructure and east abutment of the old bridge, in constructing a temporary bridge, and in excavating between the piers of the new channel over a width of 50 feet to 1 foot below extreme low water 200 feet from the

old bridge and to extreme low water at the old bridge.

The new bridge crosses the pond 550 feet above the former crossing. It is 563 feet in length, including the east and west approaches of brush and stone with cribwork abutments, respectively 74 and 51 feet in length, and 438 feet of pile work. It has been provided with a good hand rail on each side, and has an opening for boats, and a temporary draw.

The present (summer) level of the pond is about 1 foot above assumed low water, or 3 feet above actual low water outside. The maximum depth of water at

the bridge, at assumed low water is 8 feet, and of soft mud or silt, 18 feet.

HALL'S HARBOUR.

Hall's harbour, King's County, is situated on the south side of the Bay of Fundy, about 65 miles north-east from Digby Gut, and 12 miles south-west of Scott's Bay. It is about 12 miles north-west from Kentville, the county town of King's, and the chief station of the Dominion Atlantic Railway.

The village has a population of some 20 families, and some years ago it had a

considerable shipping trade, which, however, has of late years fallen off.

About the year 1839, the inhabitants, aided by the provincial government, built timber retaining walls on both sides of the harbour, which consists of a land-locked basin, dry at low water, of about an acre in extent, to permit vessels to lie alongside the public road.

About 1844, an addition, seawards, to the wall on the west side was built in order to check the accumulation of gravel at the mouth of the basin and to serve also as a breakwater; it was extended 100 feet some ten years later. In November, 1884, the outer block was destroyed by a violent gale, and the outer end was bulk-

headed

During the year the east side of the shore end of the breakwater, which was very old, much decayed, and threatening to fall into the dock, was rebuilt and raised from two to five logs in height. The whole outer end of the work, so far as it was planked, 102 feet in length, was refloored with 6 inch flatted spars, and new floor-stringers. Twenty-six new fenders were secured to the face of the work, a new piece of "break" 30 feet long 5 feet high and 5 feet wide was built on the western side of the shore end, and the shore end was also filled up with gravel and levelled off so as to be accessible to teams. The cost of this work was \$450.00.

HARBOURVILLE.

Harbourville, King's County, is situated on the south shore of the Bay of Fundy, 53 miles north-east from Digby Gut. The population of the settlement is about 200, engaged in fishing and farming, the former being the staple industry.

The harbour, which is only 400 feet long by 200 feet wide, and dry at low water, is formed by the mouth of Givan's brook, and affords at high water complete

shelter from every wind to vessels drawing up to about 14 feet of water.

The works consist of two breakwaters or piers of open faced, round log cribwork, one on either side of the entrance to the harbour. They were built many years ago by the provincial government when the shipping business of the place was considerably greater than it has been since the opening of the Dominion Atlantic Railway.

The western breakwater was extended by the department in 1876 at a cost of \$2,000, and since that dute numerous small expenditures, aggregating about \$3,400.

have been made in repairs and renewals to one or other piece of work.

During the year the sum of \$50.00 was expended in refastening and covering a portion of the "break" on the western side of the west breakwater, and in renewing some few floor planks that had become so much decayed as to be dangerous to teams.

MARGAREE.

Margaree Harbour, Inverness County, is at the mouth of Margaree River, on the Gulf of St. Lawrence, about 30 miles north-east of Port Hood.

The entrance is by a narrow channel obstructed by a bar of shifting sand, over which there is, at times, only 5 feet at extreme low water. Spring tides rise 4 feet.

The western side of the entrance is protected by works, commenced by the provincial government, which have been extended and repaired by the department.

During an unusually high freshet on the 29th December, 1894, the sand beach on the eastern side of the entrance was cut through in two places. The larger opening, near the western extremity of the beach, was 200 feet in width at high water level, 80 feet in width at the bottom, and six and a half feet in average depth at extreme low water. The smaller opening was 60 feet in width at high water level, 24 feet in width at the bottom, and 5 feet deep at extreme low water.

In April and May, 1895, the larger opening was closed by a work of brush and stone 24 feet in width on top, and 3 feet above extreme high water; and a work 10 feet in width, built across the smaller opening by the fishermen, was widened to 20

feet and raised to a height of two and a half feet above extreme high water.

During the year 1895-96 the sum of \$2,196.57 was expended in raising and extending the beach protection work. Three hundred feet near the western extremity of the beach was raised to 7 feet above extreme high water, the width of work on top being 20 feet, with an average height of 3 feet 6 inches; one hundred and seventy-five feet was raised to 8 feet above extreme high water, having a width of work on top of 16 feet, average height 1 foot 6 inches; and thirteen hundred and fiftythree feet was raised to 7 feet above extreme high water, width of work on top 16 feet, average height 2 feet 10 inches.

The beach is now 7 feet or more above extreme high water, except over 230

feet at the eastern extremity, which portion is 2 feet lower.

MONK'S HEAD.

Monk's Head, Antigonish County, is situated on the southern side of St. George's

Bay, between the Harbours of Antigonish and Pomquet,

A large sheet of water to the westward of Monk's Head, known locally as

Dunn's Lake, is separated from St. George's Bay by a beach of sand, and from Antigonish harbour by a neck of low land 692 feet in width at low water level.

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In 1894-95, the work of opening a channel for boats between Dunn's Lake and Antigonish Harbour was undertaken. A through cutting, including side slopes, was made to within one and a half feet of extreme low water; a highway bridge was constructed and a right of way acquired.

During the year 1895-96, the sum of \$204.72 was expended in completing the

undertaking.

The channel, on completion, was 6 feet wide at the bottom, at the level of extreme low water, with sides sloping about one and a half to one. Since its completion the current has cut into the slopes in places, and has undermined the bridge abutments, which have settled considerably.

PARRSBORO' PIER.

Parrsboro' Pier, Cumberland County, is situated on the north side of the Basin of Minas, about a mile to the south-west of the lighthouse at the entrance to Parrsboro' Harbour.

It is two miles south of the village of Parrsboro', and is the calling place for the steamers of the St. John and Basin of Minas route, which call regularly during the season.

The pier, which is 431 feet long, 27 to 29 feet wide and 32 feet high at the outer end, was built by the provincial government in 1864-65, and has subsequently received frequent and extensive repairs by the Department of Public Works of Canada.

During the year the sum of \$1,447.28 was expended in cutting an opening 12 feet wide and 10 feet deep through the pier near its shoreward end for the purpose of allowing the gravel to wash through and relieve the great pressure against the west side of the work, in reflooring 80 feet in length of the shore end, reflooring the inclined slip, and in renewing a few of the fenders on the outer end.

PORT LORNE.

Port Lorne, formerly Port Williams or Marshall's Cove, is situated on the Bay of Fundy coast of Annapolis County, 32 miles north-east from Digby Gut, and 6 miles north-west from Paradise Station on the Dominion Atlantic Railway. The settlement comprises a thrifty population of about 300, chiefly engaged in fishing and farming, but to a small extent also in lumbering.

A breakwater was begun at the joint expense of the inhabitants and the provincial government in 1835, and between that date and 1867, about \$16,000 were spent

upon it in renewals and repairs.

Between the years 1872 and 1884 the work was further extended a distance of about 167 feet by the Department of Public Works, and since the latter date it has been frequently and extensively repaired. It is built throughout of round log stone filled cribwork, and is from 25 to 36 feet wide on top and 25 feet high at the outer end. Spring tides rise 32 feet, neaps 28 feet.

During the year some few knee braces to the "break" and a few planks that had been knocked away by heavy seas were renewed and fastened at a cost of

\$20.00.

PORT MAITLAND.

Port Maitland, Yarmouth County, formerly known as Green Cove, is a prosperous and important fishing and farming village, situated on the south-east side of the mouth of the Bay of Fundy, 12 miles north of the county town of Yarmouth. The village itself has a population of about 400, but fully as many more in outlying settlements are tributary to it as regards fishing, shipping and general trade. Outside of the town of Yarmouth it is the most important, in fact the only important port in the county, and the headquarters of a large and growing fishing industry.

The works, which were begun about the year 1859 by the provincial government, consist of an eastern and western breakwater, both of cribwork, the former 400 feet and the latter 500 feet long, inclosing between them a snug high water harbour of about 2½ acres in extent.

Spring tides rise 18 feet and the harbour at low water is dry to the outer end

of the western breakwater.

During the year the sum of \$271.71 was expended in the purchase of materials for the repair of a serious breach in the river or harbour side of the shore end of the western breakwater. The work done consists in the rebuilding of a piece of work 90 feet long, 10 to 12 feet high and 15 feet wide. The whole of the labour was furnished gratis by the inhabitants.

SEA-SIDE.

Sea-Side is on the east side of St. George's Bay near the southern entrance to Port Hood Harbour, and about 2 miles west from Port Hood, the shire town of

Inverness County.

A contract was entered into in March, 1896, for the construction of a wharf 300 feet in length and 20 feet in width on top of open-faced cribwork, fully ballasted, and close fendered at the outer end; the substructure to be of creosoted North Carolina yellow pine and the superstructure of native timber. The depth at the outer end at extreme low water will be 7 feet. Spring tides rise 4 feet.

Work was commenced in May, and up to the close of the fiscal year good progress had been made, the expenditure, including the cost of inspection, amount-

ing to \$2,847.50.

WEST CHEZZETCOOK.

Chezzetcook Inlet, Halifax County, is about 15 miles east of Halifax harbour. It is half a mile wide at its mouth, extends 5 miles inland, and receives at its head the waters of the Chezzetcook and other lakes. In it are several islands, which owing to their relative positions, divide the inlet into two channels, called respectively east and west Chezzetcook.

In order to create a scour in the west channel, and thus deepen it, a break-water or mole was built by the department in 1892, projecting in a westerly direction from the southern end of Conrod's Island, 900 feet long with an L at the outer end 200 feet long. The work was built by contract at a total cost of \$11,160.97.

During the fiscal year the top of the breakwater for a height of two to four feet, on a length of 363 feet of the shoreward or main portion that was displaced and much injured by severe gales early in the spring of 1895 was taken to pieces and thoroughly rebuilt at a cost of \$500.00.

PROVINCE OF NEW BRUNSWICK.

ANDERSON'S HOLLOW.

At Anderson's Hollow in a cove of Salisbury Bay on the coast of Albert, a combined wharf and breakwater 550 feet long, 25 feet wide on top, and originally 27 feet

high at the outer end, was begun in 1879 and finished five years later.

This work was damaged by a storm on the 21st November, 1895, when the light-house and part of the breakwater were carried away, while some of the topwork of head was also started. During the year, a sum of \$33.67 was applied to bolting loosened timbers, and in securing the work as far as possible from further injury.

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CAPE TORMENTINE.

The works at Cape Tormentine in Westmoreland, constructed between 1886 and 1892, for purposes of interprovincial communication, form an artificial harbour at the extremity of a peninsula which is the nearest point on the continent to Prince Edward Island. They comprise a straight pier 2,500 feet long, with head and return, each 400 feet in length, inclosing a basin about 4 acres in area with a ruling depth of 15 feet at low water or 22 feet 8 inches at high water spring tides. For a distance of 1,300 feet from the shore, the pier is a rubble mound, 20 feet wide on top, with pitched slopes of 2 to 1; while the remaining 1,200 are built of close-faced cribwork 30 feet in width. The head and return are of similar cribwork, but are 40 feet in breadth from the base to low water, decreasing to 30 feet at the finished top (4 feet above high water) and presenting a sloping face sheathed with hardwood to the north and east. A branch railway 36 miles long connects the pier with the Intercolonial Railway at Sackville.

There being a wave at least 6 feet in height at Cape Tormentine, it was found that although the rails were secure where spiked to the covering of the cribwork, they were liable, at the elevation of 4 feet above high water, to be washed off the stone embankment which afforded no facilities for bolting. To prevent interruption of the traffic, the rails were therefore, in 1893-1894, raised 2 feet on the rubble mound. At the same time a freight-shed was built and protected by a break. The tops of the cribs receiving the foot of the hardwood sheathing composing the sloping face having been destroyed by the teredo, the planks thus left overhanging were exposed below to the action of the sea. These planks were secured in 1893-94 as far as the worm-eaten condition of the timber permitted. In the following fiscal year, 321 lineal feet of worm-eaten longitudinals supporting the sloping hardwood were replaced by new timbers, a space of 90 lineal feet of new planking was laid, and the remainder of that face secured wherever bolt-hold could be found

in the honey-combed wood.

In 1895-96, similar temporary repairs were made, 414 lineal feet of worm-eaten longitudinals being renewed with fresh timber, and 117 lineal feet of sloping-face

being re-laid at an expenditure of \$199.29.

The harbour is used during the season of navigation by vessels engaged in the deal trade with the United Kingdom, since it offers facilities for transferring deals in clean condition from train to ship without the loss of class and so of price occasioned by rafting. For this purpose it has to some extent superseded the open roadstead of Baie Verte, formerly a centre of the deal trade.

On account of the prevalence of the teredo, any future works built in the waters of Northumberland Strait should be constructed of creosoted timber, stone, or concrete. The worm-eaten condition of Cape Tormentine requires that the usual course adopted in similar cases i.e., external protection with stone, should be now

taken. For the quay face of the winter berth, concrete is best used.

DALHOUSIE.

The seaport of Dalhousie, the shire town of the county of Restigouche, at the head of Baie des Chaleurs and the mouth of the estuary of the Restigouche, possesses a secure harbour 6 or 7 fathoms deep with good holding ground, and is during the season of navigation the best in New Brunswick. For the use of vessels engaged in the deal trade, the department added in 1887 to the Intercolonial Railway pier, a ballast wharf 300 feet long and 22 feet wide, placed nearly parallel to the shore in 15 feet at low water, a depth now reduced in places to 7 feet by shoaling. Ice action on the Restigouche appears to be exerted from the land outward in more remarkable degree than at other places lower down the coast, for shearing of the piers at Dalhousie is found to take place.

The top of the ballast wharf having been thrust over a distance of about 2 feet, a quantity of stone was placed at the back and end in order to relieve pressure by

grounding the ice. A few broken piles were also replaced, the whole expenditure for the fiscal year being \$262.07.

The trans-atlantic deal shipments for the past year amounted to 17 millions.

superficial feet.

GARDNER'S CREEK.

On the 1st of July, 1895, a contract was let for the construction of a wharf at Gardner's Creek, intended to facilitate shipment of the lumber and piling sent coastwise from this locality. The work, placed in a cove (about 20 miles east of St. John, and in the same county) sheltered from direct south west winds by McCoy's Head, consists of substantial open-faced square cribwork 204 feet long, sheathed on the The head stands in 21 feet at high water spring tide, and affords one berth for coasters, but us in the case of all other wharfs on this coast, is dry at low water.

At the end of the fiscal year, about one-third of the work had been accom-

plished. The payment made on account of progress amounted to \$2,340,00.

NEGRO POINT BREAKWATER.

In addition to convenience of position for distribution of cargoes landed at that place, St. John Harbour, or the estuary of the river of that name, is remarkable principally for great tidal range (26 feet at springs) and for consequent freedom from ice in the winter months. The harbour is open broadly speaking from south-east to south-west, but southerly waves are broken by Partridge Island, and south-west waves are mitigated by Negro Point breakwater, while the foul ground, a shoal tailing down from the pennsula on which the town is built, must have some slight effect in moderating the force of south-easterly seas rolling round Mispec Point. By Partridge Island, a rocky eminence devoted to quarantine and light-house purposes, the entrance is divided into east and west channels. In the former or main channel, 21 feet is found on the bar at low water ordinary spring tides according to the chart, but 18 feet is held by some to be the ruling depth at low water. From information obtained at the time when the steamer "Lake Ontario" touched bottom on the 7th of April last, the depth on the bar at the point struck must be 17 feet below the plane of low water ordinary spring tides as established by the engineer of tidal surveys. It is possible that the discrepancy between 21 feet by the chart and 17 feet as found by the steamer, may be accounted for by the presence of shifting shoals, for patches of shallow water noted in the charts of one year, are not shown in others of subsequent date, but the actual depth can be established by examination alone.

Half a mile inside the crest of the bar, a depth of five fathoms is found in the narrow fairway, while higher up, between the principal wharfs on either side of the

harbour (500 yards broad at that point) 12 futhoms are given in mid-channel.

The west channel, 10 to 14 feet deep at low water and originally 1,200 yards wide. has been contracted by Negro Point breakwater, a structure extending 2,200 feet from the headland so styled. The official reasons for undertaking this work are thus

stated in the reports of the Minister of Public Works for 1875 and 1882:

" 1875 .- " This breakwater extends south-eastwardly from Negro Point at the western entrance of the harbour of St. John. When completed, it will extend a distance of 2,250 feet, closing up the west channel to that extent, leaving, however, a width of 1,000 feet between the outer end and Partriage Island. The object is to break the force of the seas which roll into the harbour of St. John during the southwest gales in the Bay of Fundy, and which render it dangerous and almost impossible at such times for vessels to make the harbour."

" 1882.—" South-westerly winds threw in a heavy sea through the western channel which rendered it difficult for vessels to enter the harbour as they were in danger of being driven on the foul ground on the eastern side of the channel. In the spring of 1875, a breakwater 2,250 feet long to partially close the western chan-nel was begun, and in September, 1877, completed."

Reference to the chart will show that as long as any opening remains between Negro Point breakwater and Partridge Island, south-west waves must be still free

to drive vessels entering by the east or main channel on the foul ground.

The breakwater consisted at first of a cribwork core 30 feet wide at the base and 15 feet wide at the top, protected on both sides by stones sloping on the seaward side at the rate of 2 to 1 and on the harbour side at the rate of 1 to 1. By the month of February, 1879, 1,300 lineal feet of the cribwork had been swept away to a depth varying between 13 and 19 feet from the top, the stones having been raked down by wave-action to a slope more nearly approaching the angle of repose of the material under the exposure to which the work is subjected. In 1880, temporary repairs were made, and in the following year, a contract completed six years afterwards, was entered into, whereby the cribwork carried away in 1879 was replaced by heavy stones, and the seaward slope made 3 to 1. Even this flatter inclination proved steper than the angle of repose, consequently, notwithstanding their size, the stones, though smoothly laid, were soon displaced by the sea. A length of 50 feet of the breakwater, extending at full height (5 feet above high water) beyond a masonry pier built under the same contract to support a beacon, was also swept away. From 1891 to 1894, desultory repairs were made by addition of large stones, chiefly deposited about the end to prevent the lighthouse from being undermined. In May and June, 1895, four large blocks of concrete were placed for the same purpose in front foot of the pier.

During the last fiscal year, seven concrete blocks founded at about the level of low water neaps, were built in situ round a quadrant of the end to receive the foot of a slope proposed to be laid of heavy granite stones inclined at 4 to 1. The blocks were from 59 to 91 tons each, all but the heaviest being made in one tide. The granite pier was also reinforced by a semi-circular skin of concrete 7 feet in average thickness and strongly battered, placed round the front and brought to the level of high water springs. The footing blocks were 15 feet long, 12 feet wide, and unless varied for the sake of foundation, 3 feet high in the face, sloping upward at the rate of 4 to 1 on top. Each block was free to settle independently, but all were keyed together by splayed concrete joggles. Inside a part of the space within the quadrant, stones of the original work, added to some small granite, were assembled and grouted as far as funds permitted, in default of the heavy granite (which will require special plant) necessary for the slopes of this breakwater; but weight is the desi-

deratum, and part of the grouted slope was broken up in the winter.

In order to carry along the seaward face of the work, for natural protection, the littoral drift now being swept over the top into the harbour, a break of piles, brush, stone and timber 270 feet long 8 feet wide and 4 feet high, was begun at the shore end, but not completed. The expenditure for the year has been \$7,261.87.

RIVER ST. JOHN.

The River St. John proper, 450 miles long, takes its rise from sources in the province of Quebec and state of Maine, at a reputed maximum altitude of 2,158 feet above sea level. Entering New Brunswick at the confluence of the St. Francis, a little below the borders of Quebec, it continues to be the international boundary almost to Grand Falls, and after flowing through the province for nearly 300 miles (by way of the counties of Madawaska, Victoria, Carleton, York, Sunbury, King's and Queen's,) discharges into the Bay of Fundy at St. John. Many tributaries, some being of considerable magnitude, are received by the main stream. Among them are the St. Francis, Madawaska, Green River, Grand River, Salmon River, Aroostook, Tobique, Presqu'Ile, Meduxnikeag, Eel River, Nackawick, Keswick, Nashwaak, Oromocto, Jemseg (Grand Lake,) Washedemoak, Belle Isle, and Kennebecasis. Except the last five, which are slightly tidal for some distance, they are fiesh water streams.

The total basin from source to mouth is computed to be 26,000 square miles, an area almost equal to the whole of New Brunswick, but part of the watershed lying outside, only a little more than one half the province is drained by the river. The

St. John is considered navigable for vessels 15 feet in draught for a distance of more than 50 miles from the mouth, but no positive information on this point has yet been obtained. About 8 feet at low water can be carried to Fredericton, 84 miles from the sea, and 6 miles below the head of tide at Springhill. Three natural features of the river are remarkable, viz.: the tidal falls, Grand Falls, and the annual floods. Although in summer the fresh water stream between Woodstock and Fredericton is in places 400 to 1,000 feet wide, expanding at the latter place after reaching tide level to half a mile in breadth, yet the actual mouth of the river, a rocky gorge 400 yards long, immediately at the head of St. John harbour, measures but as many feet across at high water. Here at low water the level of the river water is from 11 to 15 feet above the sea, and as the ordinary tides flow from 23 to 27 feet, the sea level at high water is from 8 to 12 feet higher than the waters of the river. Thus there are two falls during every tide, viz.: one outward and one inward, and vessels can only pass when the waters of the ocean and the river are on a level, and this occurs only for the space of about 10 minutes during each ebb and flow of the tide; at all other times it is either impassable or extremely dangerous.

At Grand Falls, 223 miles from the sea, the whole volume of the river plunges over an almost perpendicular face of limestone 60 feet high, into a deep ravine 250 feet across, somewhat similar to the narrow pass at St. John. Flanked for nearly a mile by lofty rugged cliffs, the confined current dashes from the foot of the falls with excessive strength, mining deep pot-holes in the rocky bottom of the channel in the course of a further descent estimated to be slightly less than the first. In the harbour of St. John ordinary spring tides are considered to rise 26 feet. At the wharfs of the river steamers, a mile above the falls, while summer range is but 3 feet, the highest flood mark is given as 17 feet above extreme low water. At Oromocto, 73 miles from the sea, where the tidal range is 10 or 12 inches, the flood of 1887, reached a bridge 20 feet above low water. At Andover, 200 miles from the sea, floods attain an elevation of more than 27 feet above summer level. By contrast, the Tobique and St. Francis swell 9 and 6 feet respectively. After the first spate due to the melting of the snow in the catchment basins of the Kennebecasis, Belle Isle Bay, and Washedemoak, a secondary flood occurs, caused by the backwater of the main river, which is fed from sources farther north, and consequently later in thawing.

The harbour of St. John is open all the year round, but the river is ice bound from November to April, an average period of 144 days. The water usually begins to rise in April, reaching flood pitch early in May, and maintaining a high level for two or three weeks. The ice run takes place before the time of highest water. By the middle or end of July the water has fallen to summer level, a stage lasting with

some variations dependent upon the rainfall, for about 60 or 70 days.

In addition to a little coal, a considerable quantity of cordwood, and the ordinary food supplies yielded by the farms of a lengthy fertile valley, the trade of the river comprehends an abundance of valuable timber, fluctuating each season in amount, but generally at least equal to 135 million superficial feet annually. Most of the logs are floated loose down the tributaries and upper river to Fredericton, some being manufactured there and shipped coastwise or to the United States. The remainder, and major part, is towed from the provincial capital to St. John in rafts, giving employment to a fleet of tugs.

For the purposes of works, three divisions may be made of the river:-

1. Tidal navigation for steamers and sailing vessels, between St. John and Fredericton, 84 miles, requiring 11 feet at low water. Principal obstructions: The Oromocto Shoals, about 1½ miles, the middle ground above Oromocto Island about 1 mile, and the shoals abreast Fredericton, rather more than half a mile in length.

2. Inland navigation from Fredericton to Woodstock, a distance of about 65 miles, requiring 3½ feet at low water. The obstacles to inland navigation, besides boulders in some places, and perhaps bed rock at Meductic, are shoals of material more or less coarse according to the strength of the current, varying in composition from sandy gravel to stones. The chief bars are at Springhill, and Bear Island,

while Knapp's, Perley's Cove, Nackawick, Belvisor, Moore's, Bett's, Dibblee's and Bedell's Bars, with Meductic Rapids, constitute, according to present information, less considerable obstructions. Dividing above Springhill into two main channels, and from a general width of 350 yards, opening to a stretch of 1½ miles between ban s with a waterway increased by at least one third, the river becomes dotted with eyets and shallows. Two gravel shoals known as the Russell and Chapel bars, together about half a mile in length, compose the obstacle at Springhill. At Bear Island, 25 miles above Fredericton, in consequence of another division of the river into three channels aggregating 600 yards in breadth, a shoal of gravel and stones 4,400 feet long giving only 21 inches at low water has been formed. Besides dredging, a long training dyke will be necessary for the maintenance of this channel. After re-uniting below the island, the width of waterway in the single channel is only 250 yards.

3. The upper river, including with the tributaries, all that part above Woodstock. This division is used now for the passage of timber only. On some of the tributaries beyond the reach of railways, supplies for the lumber camps are transported in tow boats, for which channels are required to be made and tow paths

provided.

Division 1.

Ten miles below Fredericton, and 74 above St. John, the river spreads from a normal width of less than 500 yards to a total breadth of 1½ miles. This expansion, and distribution of the waterway among three channels collectively 1,100 yards wide, formed by the interposition of Oromocto and Thatch Islands, sufficiently accounts for the presence of the shoals. The eastern, and broadest channel, 650 yards wide, with a ruling depth of 3 feet at low water, is only used during floods. The middle and navigable channel, 300 yards wide, has for many years been obstructed by the sandy deposit called the Oromocto shoals, giving about 8 feet at low water, and extending for a mile and a half. Above the Oromocto shoals proper, another bar, apparently a continuation beneath the water of the axis of Oromocto Island, gives less than the required depth of 11 feet for rather more than a mile, while below Thatch Island, is found a small shoal patch.

In order to improve the navigable channel, a dam 2,200 feet long was built by the department, between 1877 and 1881, from the west bank of the river to the upper end of Thatch Island. This work completely closes the narrowest of the three channels by the time the water has fallen to $5\frac{1}{2}$ feet above summer level, contracting the total waterway by 150 yards. The first hundred feet adjoining the shore is made of brush and stone, but the remainder of the dam is built of cribwork, close piled on the upper side and sheathed with plank. From the lower end of the dam, a cross-

dyke of piling makes connection with the head of Thatch Island.

In 1894-95, a training dyke of stone founded on brush mattresses, consisting of a filling of evergreen brush between two net works of fascines, was added to the dam as the first step towards future extension. At the same time a brush and stone apron was applied at the back of the original structure, with the view of promoting accumulation of silt. Two hundred and eighty feet of brush protection was also placed on Oromocto Island, to prevent the alluvial bank from scouring under action of the current, when increased by the system of works now begun. It is important that these works should be backed by silt, and the silt planted with willows as soon as possible, in order that they may be rendered self sustaining. To accomplish the purpose, light cross dykes and groynes of brush may be used.

During the past fiscal year, a sum of \$96.79 was applied to renewal of sheathing and covering. Another and larger expenditure will be required in the coming year to replace other material of the same kind, stripped off by ice in the spring. Removal of a shoal at the tail of Thatch Island, interfering with the passage of the daily steamers touching at Oromocto wharf was completed in 1895-96, while in continuation of the general scheme of improvement of the tidal navigation, undertaken by request of the Fredericton Board of Trade, and now in progress, a channel 950 feet long, 125 feet wide, and 11 to 14 feet deep at low water, was dredged at

the provincial capital.

Division 2.

A commencement of the improvements contemplated for the purpose of opening and maintaining during the season, steam navigation between Fredericton and Woodstock, was made in 1894-95, when a dredge hired for the occasion, began excavation of the Springhill shoals to a depth of 3 feet 6 inches at low water. For want of suitable plant, the work was not continued in the past year. In the reach of tidal navigation between St. John and Fredericton, steamers carrying passengers and freight run daily up and down, while the Washedemoak, Grand Lake, Bellisle Bay, and the Kennebecasis, also enjoy steam communication throughout the season of navigation. Above Fredericton, a steamer runs daily up or down from the opening of the river in the spring, until, by fall of the water, Bear Island, Springhill, and other bars prevent further passage. This usually occurs about the end of the first week in June, and from that period until ice forms at the beginning of winter (unless a late rise of water permits a short resumption of steam navigation) the traffic of the river is conducted in barges towed by horses. The towpaths require annual attention, and will continue to demand repairs, until, by removal of the bars, the inland navigation of the river is thrown open for steamers throughout the summer. A sum of \$180.25 was expended in the past year between Eel River and Bear Island on the townaths chiefly in grading and blasting rocks.

Division 3.

On the upper river, rocks said to constitute obstacles to the passage of logs were reported blasted as follows; Rapide de Femme Rock, below Grand Falls, 40 cubic yards; Little River above the Tobique, 80 cubic yards; Honson's Cove below the Tobique, an area of 3,600 square feet of rock irregular in height, the maximum being 7 feet above low water, cut down to 18 inches above that level. The expenditure amounted to \$382.46. For work done in making tow-paths and channels for boats on Green River in the previous October, a sum of \$200 was paid, the total cost with expenses of inspection amounting to \$231.90. On the St. Francis, out of a sum of \$300 directed to be applied between Cross Lake Rapids and du Chene Rapids to clearing channels and improving tow-paths an amount of \$223.25 was expended.

SHEDIAC, -- POINTE DU CHENE.

Sixth on the list of deal ports of New Brunswick, stands Shediac, in the county of Westmoreland, one of the only three natural harbours on the gulf coast of the province (Dalhousie and Caraquet being the others) unobstructed by a bar. The harbour is 109 miles by rail from St. John, and by water 40 miles from Cape Tormentine, in the same county. Being directly opposite Summerside, 36 miles distant, it is a convenient point for summer traffic with Prince Edward Island.

To protect the railway pier at Pointe du Chêne near the harbour mouth, a work weakened by the teredo, the department built in 1875 a detached breakwater 600 feet long, and four years later connected it with the pier by a ballast wharf. In 1881-82, further protection was given by the construction of a second independent breakwater.

also 600 feet in length, placed near the shore.

The work built in 1875 having become worm eaten was destroyed, notwithstanding repairs, by storm in 1891. In 1893 a contract was made for re-construction, and by the end of the following year the work was completed. The new breakwater proper is 600 feet long and 27 feet wide below low water, sloping from a little below that level at the rate of 1 to 1 until six feet above high water. At the northern end, connection was made with the damaged ballast wharf by an additional length of 40 feet of similar work. The outside faces and cross-ties of the sub-structure are creosoted timber, protected partly by close piles and partly by fender piles also creosoted. The remaining timbers and also the superstructure are untreated wood.

In the past fiscal year, the close piling of the ballast wharf having been cut off by the teredo, repairs to the face, 183 feet long, were undertaken. This work,

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founded in 14½ feet \$\pmu t\$ low water, was not in sufficient depth to satisfy the present demands of commerce, i.e., to permit vessels in the deal trade to lie alongside to be laden. For this end, at Shediac, which is limited by the ruling depth of the approach to a small class of vessel, 19 feet at low water are necessary. In order to enable this depth (4½ feet below the foundation of the cribwork) to be reached, the new superstructure has been supported at the face on creosoted piles driven below the bottom to be dredged, and in the body of the work by untreated hardwood piles driven through it. The adjoining face of the railway wharf is now being prepared in a similar manner by the Department of Railways and Canals, in order that dredging to 19 feet at low water may be carried to a sufficient length for one deep water steamer berth. The new superstructure 20 feet wide on top and 8 feet high, is faced with square timber, ballasted, well braced, and tied to short piles driven into the ship's ballast deposited behind the cribwork. The expenditure has been \$2,462.03.

PROVINCE OF PRINCE EDWARD ISLAND.

BELFAST.

Belfast Pier, Queen's County, is situated on the south side of Orwell Bay about one mile distant from the village of Eldon. The pier which was constructed by the local government of Prince Edward Island many years previous to confederation is one of those the control of which was assumed by the department in 1883. It has a length of 600 feet with a pier head 130 feet long fronting on the channel, on the face of which a depth of 5 feet is carried at low water, or 14 feet at high water springs, which rise 9 feet.

Being an old structure and greatly out of repair when assumed by the department, an expenditure nearly every year is required to keep it in passable condition. During the past season the sum of \$50.03 was expended on general repairs to covering of pier head, replacing fenders on north corner and making up roadway of pier approach with broken stone and clay.

BRAE.

Brae Harbour (so called), in Prince County, is situated on the northern side of Egmont Bay, 8 miles east of West Point, and about 6 miles south of Coleman Station on the line of the Prince Edward Island Railway. It is at the mouth of the Brae River where, by "Brae Island," an area carrying a depth of 6 feet at low water is well sheltered, and would prove a good fishing station, harbour of refuge for small vessels, and a most convenient place of shipment for the surplus produce raised in the district, were it not that approach to it is obstructed by a sand bar almost dry at low water that extends completely across the entrance parallel with the shore and at a distance of about 400 feet outside of the eastern end of the island.

Towards obviating this difficulty the inhabitants of the district some years ago began the construction of a breakwater for the purpose of narrowing the entrance (which has a width of about 800 feet) so that by the increased current that would thus be caused a channel would be scoured through the bar. They built a length of 350 feet, 18 feet wide, composed of poles, brush and some ballast with clay filling on top. To this the department added a length of 200 feet in 1891-92, but as this in all only made about one-half of the length of work required for the training of the current on to the bar so as to effect its removal, no improvement has been made in the entrance. Much benefit, however, has been derived from the shipping facilities it has afforded small vessels by their being able to load at its outer end getting their cargoes taken directly to them by teams instead of boats.

Since the expenditure made by the department, the residents have neglected keeping up the inner part, and this became, during the past two years, impassable

for teams, and, last season, as each high tide passed completely over it endangering its being carried away, reconstruction and repairs have been effected by the department during the past spring at a cost of \$844.80. The inner length of 350 feet was entirely rebuilt and the outer portion, 200 feet long, raised from 1 to $1\frac{1}{2}$ feet and thoroughly repaired, thus placing the whole of the breakwater in good and serviceable condition, by which some shelter for fishing boats will be given and better facilities for shipping.

CLIFTON.

Clifton Pier, Queen's County, is on the south side of the "South-west River" about 2½ miles above its entrance into New London harbour, and immediately below the public road bridge crossing the river. The pier which was constructed many years ago by the local government for the accommodation of the district is one of those assumed by the department in 1883. It is in all 260 feet long, extending out from the bank of the river to the channel where at the end of the pier a depth of 14 feet of water is carried at low water spring tides, or 18 feet at high water, affording good shipping facilities for the largest class of vessels entering New London harbour.

The pier which has a width of 25 feet over the outer length of 58 feet (its remainder being from $17\frac{1}{2}$ to 20 feet wide) having become unfit for traffic owing to age and decay of the floor stringers and flooring of the outer block and adjoining "span," the sum of \$201.01 has been expended upon it during the past season in effecting required repairs. New floor stringers, guard timbers and flooring were put on the outer block which was also levelled up and rebuilt for three feet on top, and the "span" solidly filled in with close laid pole work, in addition to which 4 new mooring posts and 9 fender piles were put in on the end and sides of the outer block and the roadway of the shore abutment or approach was made up with broken stone and gravel, placing the pier in good condition.

KIER'S SHORE.

Kier's Shore Pier, Prince County, is situated on the east side of Richmond Bay, about 7 miles from the village of Kensington, a station on the Prince Edward Island Railway. The pier, originally constructed jointly by the local government and residents of the district, was assumed by the department in 1883. During 1894-95, extensive repairs were effected, and a block 50 feet by 18 feet added to the northern side of its outer end, making a pier head of 40 feet by 50 feet.

side of its outer end, making a pier head of 40 feet by 50 feet.

During the fiscal year 1895-96, the sides and outer end of the pier head were closely piled with spruce and hemlock timber at a cost of \$375.78 as a preventive to the action of the "teredo" and that settlement and scour might not occur should dredging be done to give a greater depth. The roadway of the pier inward of the outer block formed of broken stone and gravel was also levelled up where any

settlement had occurred.

LAMBERT'S.

Lambert's Pier, King's County, is situated on the southern side of the Montague River, immediately below the highway bridge at the village of Montague, and is six miles from the entrance of the river into Cardigan Bav. It has in all a frontage of 310 feet on the river channel, and consists of two sections, the upper or western one 140 feet long and 24 feet wide constructed of cribwork on the inner side and pile work outside, and the eastern section 170 feet long, 25 feet wide formed entirely of pile bents capped, floor stringered, and planked over, the inner side of the western section as well as a part of the eastern being made up of ballast discharged from vessels, and connects with the bank of the river forming a good approach to the pier.

Owing to injury done to the piling by the action of the sea worms that are most destructive to unprotected timber in all the island waters, and to the natural decay of the covering and floor stringers, the pier having become unsafe for traffic, its repair has been effected during the past season at a cost of \$829.61. 36 bearing and fender piles were replaced, eight new cap timbers were put in, and the floor stringers, flooring, guard timbers, and mooring posts renewed throughout, placing the work in good and serviceable condition.

To prevent sediment and water being carried into the covering, which no doubt had been the cause of the earlier decay of it and the floor stringers, a box culvert 113 feet long by 18 inches wide and 12 inches high, clear inside, has been put in across the roadway approach. The culvert is made of 6 inch x 12 inch timber on sides with 3 inch planking bottom and top, the latter carried by 3 inch x 6 inch supports placed

at 5 feet centres.

McGEE'S.

McGee's Pier, Prince County, is situated on the east side of Egmont Bay about 5 miles north from Cape Egmont and 6 miles from "Wellington Station" on the line of the Prince Edward Island Railway. Originally constructed by the local government to afford shipping facilities for the district, its control was assumed in 1883 by the department, and in 1884 small repairs were made to make it available for traffic.

At the beginning of the fiscal year 1895-96, the pier had become quite unserviceable, some 50 feet of its outer end having been carried away by the ice in 1892, besides which all of the roadway was impassable owing to wash-out and settlement, the floor stringers and covering of the 30 feet span (at about centre of pier) were decayed and broken, while on a length of the pier inward to shore 290 feet, two to four feet in height of the top face timbers required renewal.

During the past fiscal year the damaged portion has been reconstructed and repaired, and the pier put in good condition at a cost of \$1,395.19. The work done consisted in the entire rebuilding of the outer 50 feet, and the repair and reconstruction of all of the remaining length (in all 700 feet long and 20 feet wide) the former span or opening 30 x 20 x 12 being solidly filled in, and the outer end of the pier where exposed to the action of the ice protected with fender piling of hardwood.

MURRAY HARBOUR.

Murray Harbour South Pier, King's County, is situated at the head of navigation immediately below the public road bridge on the South River and about nine miles inward from the entrance of Murray Harbour. It extends out from the north bank of the river which is about 300 feet wide at this point, to the edge of the channel where a depth of 10 feet of water is carried at low spring tides, giving with the rise of $5\frac{1}{2}$ at high water springs a good approach for the largest sized vessels usually visiting the harbour. The pier consists of an approach 89 feet long and an $\$ or pier head having a length of 107 feet 6 inches on the channel face. Both approach and pier head are formed of timber "blocks" with intervening "spans" all of which, except at the shore end are floor stringered and planked over. The "blocks" above low water are of square timber close faced, but below low water are of round timber open cribwork, while the shore end of the approach is constructed of poles, brush and stone, covered on top with gravel.

Owing to the natural decay of the top portion of the pier and injury done by the teredo and ice to its bottom portion, it had latterly become unserviceable and quite unsafe for traffic, there being great danger of the outer blocks forming the pier head, falling into the channel. This has been remedied during the past season by the entire reconstruction of its top portion, the different blocks being rebuilt or levelled up as required from 3 to 6 feet, new floor stringers, covering, guard timbers and mooring posts put in, and the channel face of the blocks forming the pier head close piled, while fender piles were driven on their inner sides and ends, thus placing

the work in good and safe condition at a cost of \$1,011.34.

NEW LONDON.

New London Harbour, Queen's County, or Grenville Bay, is situated on the northern coast of the island about 10 miles south-west from the entrance into Richmond Bay. Within the entrance, which is about 1,200 feet wide, the bay is three miles wide and receives the waters of the South-west, the French, the Stanley and the Hope Rivers, all of which are navigable and have on them wharfs or shipping places by which export is made of about all of the surplus produce raised in the surrounding country, and at which the coal, limestone and general merchandise required is landed. It is extensively used as a fishing station, being near some of

the best fishing grounds on the Gulf of St. Lawrence.

For the improvement of the entrance, works were commenced by the department in 1874, and now consist of breakwaters extending on either side from the sand beaches. That on the eastern side has a length of 1,120 feet and the western 460 feet, their purpose being to confine the current and direct it upon an outer obstructing bar composed of sand, and to prevent the sand from being washed into the channel inside. The results obtained have proved most satisfactory proportionally to the expenditure. The depth of water on the bar has increased from 6 to 12 feet at low water, making the harbour one of the best on the coast. The breakwaters are built partly of piling, brush and stone and partly of cribwork, the outer blocks of each being built of close faced squared timber-work. Since their construction the western work has received no damage or required repair; the eastern, however, being exposed to a heavy sea, and its outer end to constant action of the ice in winter, has, from time to time, suffered severely and required extensive repair. During the fall and winter of 1893 injury was done to the covering and fenders of the outer block which was completely destroyed during the fall and winter of 1894, and four breaches respectively 30, 63, 56, and 44 feet long, were made through the beach protection works.

During 1894-95 these breaches were so far repaired as to prevent further injury and the reconstruction of the outer block was commenced, the amount expended

amounting to \$624.08.

The work was fully completed during 1895-96, with a further expenditure of \$640.95 making in two years an expenditure of \$1,265.13. The work done consisted in the entire rebuilding of the outer block, 40 feet by 18 feet by 11 feet, and the repair and reconstruction of 350 feet of beach protection averaging 12 feet in width and 4 feet in height.

NORTH CARDIGAN.

North Cardigan Pier, King's County, situated on the north side of Cardigan River, about 5 miles below Cardigan Bridge, a station on the line of the Prince Edward Island Railway, has a length of 381 feet, consisting of a shore abutment and seven "blocks" with intervening "spans." It is from 23 to 25 feet wide to the outer "block" or pier head which has a width of 32 feet. The shore abutment is 100 feet long built of "blocks" from 19 to 26 feet and "spans" from 14 to 26 feet. All of the approach and blocks are constructed of squared timber close-faced work filled with brush, stone and gravel, the latter forming the roadway, excepting on the two outer blocks which like all of the "spans" are floor stringered and planked over. Being an old structure and much out of repair when its control was assumed by the department in 1884, it has almost yearly since that time required some slight repairs to keep it in passable condition.

During the past season, the sum of \$50.42 has been expended in replacing 5 span beams, 3 floor stringers, and replanking the outer "span" and second block and making up settlement that had occurred in the roadway approach with broken stone

and gravel.

PINETTE.

Pinette Pier, Queen's County, is situated on the south side of the Pinette River immediately below and at right angles to the public road bridge crossing the river, with which it is connected by a "span" 28 feet in length. The pier is 120 feet long by 28 feet wide constructed of close faced squared timber, floor stringered and planked over, and having along its channel face a depth of 8 feet at low water.

During the fiscal year the sum of \$13,25 has been expended in effecting temporary repairs to the plank covering of the approach from the bridge, which, owing to

its broken and decayed condition, had become unsafe.

PORT SELKIRK.

Port Selkirk Pier is situated on the south side of the mouth of the Orwell River near its entrance into Orwell Bay, and is distant, by water, about 20 miles from Charlottetown. It is in the form of a T having a pier head 250 feet long and 35 feet wide on the channel face, connected with the shore by an abutment or approach 252 feet long and 23 feet wide. The pier head is composed of a series of "blocks" and "spans" the above low water portion of which have all been reconstructed since 1890, and except that the upper or eastern block has settled very much (3 feet

6 inches on the upper outer corner) is generally in good condition.

A slight settlement, however, that had occurred to the lower or western "block" (56 feet long) the berth used by the ss. "Jacques Cartier" plying tri-weekly between the pier and Charlottetown, made it dangerous for the approach of the steamer at or near low water as the face of the block, built originally plumb, overhung so much that her top works coming in contact with the fenders were liable to injury. This has been remedied by putting on walings just above low water on the original fenders and driving outside of these six additional fender piles the top of which rest against and are secured to the original guard timber. A new plank walk 4 feet wide placed on cedar sleepers laid at 5 feet centres has also been put in on the western side of the approach, which with general repair of planking has been effected at a cost of \$100.

RUSTICO.

Rustico Harbour, Queen's County, the most important fishing station on the northern coast of the island, is situated about midway between "East Point" and "North Cape." During 1881-82-83-84, breakwaters were built on each side of its entrance for the purpose of concentrating the current at ebb-tide and directing it upon an outer obstructing bar, to improve by scouring the depth of water. This to some extent has been obtained, some two to three feet better water being now carried over the bar, giving at low water 8 to 9 feet, or at high water springs (that rise 3 feet) a depth of from 11 to 12 feet, which no doubt would be further improved by the extension and maintenance of the work. The breakwater on the northern side is in a way the most important, as it protects an inner low beach on which most of the fishing stages and fish houses are situated. It was originally 1,240 feet long, but by different storms occurring from time to time up to 1893, a length in all of 120 feet was carried away and a further portion 150 feet long seriously damaged, the direct cause of which may be laid to the action of the teredo, by which the destruction and weakening of the timbers below low water left the work unfit to withstand the movement of the ice and severe storms to which the site is exposed. During 1893-94, temporary repairs were made to the damaged work, the outer end being bulkheaded to prevent further damage.

On the 12th March, 1895, a contract was entered into for building an outer block 30 feet by 60 feet, and widening, raising, &c., the adjoining 140 feet. The construction of this work which is close faced of solid timber, close piled on exposed faces, was commenced about the middle of May, and was satisfactorily completed

by the 31st August, 1895.

During March and April, 1896, the sum of \$247.35 was expended by days labour in putting in "brush mats" 15 feet wide and from 4 to 6 feet deep, thoroughly wired together and ballasted, along the north side of the **L** and inner side of the return to prevent scour that was beginning to take place.

SOURIS HARBOUR.

Souris Harbour, King's County, situated on the southern side of the island, about 16 miles westward from East Point, is most important both as a harbour of refuge and port of shipment, being easy of access and a perfectly safe harbour in all winds. It is the eastern terminus of the Prince Edward Island Railway, which has a deep water wharf from which shipments can be made later in the fall and earlier in the spring than from any other of the island harbours. During the season of navigation it is largely used by coasters and fishermen as a port of call, the breakwater constructed by the department affording good accommodation within a perfectly sheltered area (carrying from 12 to 20 feet of water) for a large fleet of vessels. The work has in all a length of 1,200 feet (270 feet of which was constructed by the local government prior to confederation), but as it stands in deep water (18 to 20 feet) and is exposed to the full force of the sea during southerly gales as well as the action of ice in the winter, it has, since construction, required from time to time extensive repairs, these being due greatly to the destructive action of the teredo and to the fact that the quality of stone procurable for ballast on the island has not proved of a durable nature.

During the fiscal year 1895-96 the sum of \$1,169.98 has been expended in urgent repairs, consisting in replacing the covering, fender piles and ballast, and in closing in a breach on the seaward face near the inner end of the work. The sum of \$3,329.30 has also been expended towards the reconstruction of the seaward face on the inner section of the work, two cribs respectively 50 and 60 feet long, averaging 16 feet wide and 18 feet high, forming its bottom portion being put in. This new facing, for about one half its length, was built up to 5 feet above high water or within one foot of intended height, its remainder stepping down to about 2 feet above

low water or 7 feet lower at its inner end.

For the repair and protection of the outer section of the work, which is narrow and greatly weakened by the ravages of the sea worms, a contract was entered into 17th February, 1896, for the construction of a solid close faced block of creosoted timber, 80 feet in length by 40 feet in width at the present outer end, and the placing of a stone slope for a length of 395 feet inward of this, the stone protection to extend to 2 feet 6 inches above high water spring tides.

At the close of the fiscal year the timber to be used in the construction of the block had been delivered, as also two cargoes of granite stone, of a most satisfactory description, which was procured at "Canso" on the Nova Scotia coast, where the

contractors have opened a quarry.

STEPHEN'S.

Stephen's Pier is situated on the southern side of the Montague River about 6 miles above its entrance into Cardigan Bay and immediately below "Lambert's Pier" and Montague Bridge. It consists of two wings or approaches about 50 feet apart and extending out from the bank of the river to the edge of the channel where the pier head has a frontage of 100 feet. The wings or approaches are respectively 90 and 115 feet long and are formed of close faced timber work, the space between them being filled with brush and ballast discharged from vessels, gravel and clay being placed on top, connected with the pier head by "spans" or openings, floor stringered and planked over. The pier head is formed of pile bents capped, floor stringered, etc. During 1894-95 the span at the eastern approach that had broken down, owing to decay of its covering and floor stringers, was solidly filled in with stone.

During 1895-96, the span of the western approach that had also broken down was similarly treated, and some repairs to the planking of the pier head to make it safe and passable for the fall traffic were made, at a cost of \$56.50.

VICTORIA PIER, CRAPAUD.

Victoria Pier is situated at the head of navigation from "Crapaud Basin" at the village of Victoria, Queen's County, and as a place of shipment of produce is next in importance to Summerside on the south-western coast of Prince Edward Island. Victoria is about midway between Charlottetown and Summerside harbours and 10 miles south from Emerald Junction on the line of the Prince Edward Island Railway, and its port is the outlet of probably the best tilled and most fertile district on the island. The channel between "Crapaud Basin" and the wharfs at Victoria village is an artificial one formed entirely by dredging, the original channel which was the natural bed of the "Brockelsby River" being both shallow and crooked and of no use for shipping, as at times it had in it only a few inches of water. It lay to the eastward of the present channel and is now entirely obliterated being filled with sand and sediment even with the flats.

To keep open the new channel, the department has at different times expended large sums in dredging which was rendered necessary every 4th to 5th year, owing to the sediment carried into the channel becoming deposited on meeting the slack water at the channel's mouth, where and at the vicinity of the wharfs the shoaling

up first occurs.

The government pier, so called, to distinguish it from the other wharfs owned by private parties, has a total length of 486 feet, the approach being 268 feet long and 20 feet wide, middle section 143 feet long, averaging 37 feet wide, and the outer end or pier head 75 feet long and 58 feet wide, giving a most convenient area available for wharfage. Its height is 19 feet with a depth of 15 feet of water at high tide. With the exception of the approach, which is built solid, the whole is composed of "blocks" and "spans" floor stringered and planked over, the roadway of the approach being formed of broken stone and gravel placed on top of the poles and brush with which its interior is filled. In 1884, when the control of this pier was assumed by the department, it was put in a thorough state of repair, the planking, floor stringers, fenders, etc., of its outer portions being renewed. It has also from time to time had small amounts expended upon the roadway of the inner portion or approach.

During the year the sum of \$40.00 was expended in filling in parts of it with broken stone and gravel, otherwise it should have been impassable for traffic.

WOOD ISLANDS.

Wood Islands, lot 62, Queen's County, are situated on the Strait of Northumberland, about 15 miles to the westward of Cape Bear, and are the most southerly point of Prince Edward Island. They are two in number, lie parallel with the shore, from which they are distant about half a mile, and are connected by a small sand beach, and also by another beach extending from the western end of the western island to the mainland, forming a total length of nearly a mile. A pond is thusinclosed having an area of about 300 acres, with its outlet at the south-eastern corner. This pond is too shallow to serve even as a boat harbour, and an attempt was made to form a shelter for boats and small vessels by the construction of works extending eastwardly, from the sand pit and parallel with the shore, with the expectation that scour would be produced by the tidal outflow from the pond and a deepening of the channel so formed would take place, but the attempt resulted in failure. The work, which was constructed by the local government, was 2,530 feet in length, of varying heights and widths, and built of brush and stone for a foundation with a superstructure of timber cribwork.

During 1878-79 a breakwater 350 feet in length was constructed by the department, on the western side of the entrance, and during the same year an attempt was made to deepen the channel along the eastern breakwater, but the work had to be abandoned.

Between 1880 and 1885 the sum of \$8,871.16 was expended in extending the western breakwater, and during 1886 the sum of \$1,000 was spent in effecting

necessary repairs to the eastern breakwater.

In December, 1893, a contract was entered into for the reconstruction and repair of the eastern breakwater, and at the close of the fiscal year about one-third

of the work contracted for had been completed.

On the 30th November, 1894, the work under contract was satisfactorily completed, and has already given promise of great benefit to the district as a shipping point, the depth of water having increased two feet, which it is hoped will continue

without the aid of a dredge.

During the fiscal year 1895-96 the sum of \$686.63 has been expended in closepiling the channel or inward side of the work at what is known as the "Loading Berth" so as to prevent undermining and injury to the bottom portion of the breakwater. The piling consists of spruce and hardwood spars 9 inches in diameter at the small ends and driven from 8 to 10 feet into the original bottom, their tops being secured to the face timbers by three and four one inch round iron bolts.

PROVINCE OF QUEBEC.

BAIE ST. PAUL.

Baie St. Paul, Charlevoix County, is on the north shore of the St. Lawrence, 60

miles east of Quebec.

The extension of this wharf for a further length of 100 feet, 30 feet wide, which was commenced in the month of May, 1895, was completed at the end of October last; the work was done by contract at a cost, including superintendence, of \$5,945.00.

The approach to the wharf has also been raised $2\frac{1}{2}$ feet on the total length of 260 feet, 18 toises of stone ballast were put in it and it was covered with 3 inch plank, and 30 fenders were placed on the seaward face to strengthen the work.

Part of the planking of the wharf proper was renewed, 300 planks 3 inch

thick being employed.

These repairs were done by day labour in the month of November at a cost of 900.42.

Spring tides rise 20 feet, neap tides 13 feet.

BERTHIER (EN BAS).

Berthier, Montmagny County, is on the south shore of the St. Lawrence. 30

miles east of Quebec.

During the months of October and November, 1895, the top planking of this wharf has been partly renewed, 600 planks 3 inches thick being used. The landing slip was repaired, two mooring posts were renewed, one of the winches used in raising the slip was also repaired.

The work was done by day labour at a cost of \$255.27.

Spring tides rise 19 feet, neap tides 13 feet.

CHATEAUGUAY.

Chateauguay, in the county of the same name, is situated on the Chateauguay River, which empties into Lake St. Louis, and is 24 miles to the south-west of Montreal.

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A row of close faced pile work 145 feet in length, including 128 piles of 12 inch flatted homlock timber, was driven to an average depth of 8 feet into the bottom of the Chateauguay River, along the front of the old wharf, and at an average distance of 4 feet from its face. The space between the wharf and the piling, and the depressions and holes in the former were filled with stone, over which a layer of gravel 2 feet in thickness was laid for a roadway. The work was completed on the 28th of October, 1895 at a cost of \$1,296.47.

The wharf is now in a thorough state of repair. It is 145 feet long, stands $8\frac{1}{2}$ feet above extreme low water level, and has a depth of 9 feet of water at its lower,

and of 4 feet of water at its upper end.

CHICOUTIMI.

Chicoutimi, in the county of the same name, is situated at the head of navigation on the River Saguenay, and is 71½ miles above Tadousac at the mouth of the river. During 1895-96, 250 feet in length of the north-easterly part of the wharf was sheathed with 5 inch red spruce and the sheathing of the northern end of the structure was renewed on a length of 45 feet. The flooring was completed and the sheds on

the wharf painted. Expenditure \$1,998.61.

ETANG DU NOBD.

Etang du Nord is at the western end of Grindstone Island, one of the Magdalen Islands, in the Gulf of St. Lawrence. Grindstone Island is irregular in shape, and is about $7\frac{1}{2}$ miles long by $4\frac{1}{2}$ wide. The coast is indented by small bays and coves and there are good fishing stations, the principal being at Etang du Nord. The bay at this place is small, but offers a safe shelter for boats in 3 to 5 feet of water at low tide.

During the fiscal year ended 30th June, 1896, the sum of \$838.61 was expended in procuring and placing 60 toises (or 480 cubic yards of stone) in the breakwater, strengthening the work, renewing face timbers, sheathing and flooring at different

points where required.

GRANDE RIVIÈRE.

Grande Rivière, in the county of Gaspé, is situated on the Baie des Chaleurs, 21 miles south west from Percé and about 30 miles to the north-east of Port Daniel.

During 1892, a wharf 457 feet in length, was constructed at Robin's Point, the width varying from 25 feet 4 inches on top to 37 feet 9 inches at the outer end.

To provide additional shelter and further accommodation for boats, a contract was entered into on the 8th May, 1894, with Mr. F. B. Atkinson, for the construction of an extension to the existing structure.

The work was commenced and completed in 1895-96, and comprised the construction of an additional block 104 feet in length on the seaward face, 102 feet 6 inches in length on the inside face, with a width of 40 feet 4 inches at the outer end.

Spring tides rise 6 feet 6 inches.

ILE AUX COUDRES.

This wharf is on the north shore of Ile aux Coudres, county of Charlevoix, 62 miles east of Quebec.

During the month of October, the face timbers broken by the ice at the outer end of the wharf, were repaired and sheathed over, six new fenders were put on, the

corner iron straps were replaced, 100 feet of floor stringers were renewed as well as a few planks in the top flooring, and about 10 toises of stone ballast were put in to replace that fallen out through the broken part of the face timbers.

The work was done by day labour at a cost of \$359.02.

Spring tides rise 20 feet, neap tides 13 feet.

LACOLLE.

The village of Lacolle is situated in St. John's County. The wharf generally known as the Lacolle wharf is, however, situated on the east shore of the Richelieu

River in the county of Missisquoi, 2 miles from Lacolle.

The western half of the wharf, 100 feet by 40 feet dimensions, was completely repaired. All the floor beams were renewed and a flooring of 3 inch hemlock laid. The piles along the western face were all found to be decayed; they were cut two feet above low water level, and new heads substituted.

The Government storehouse situated on the wharf was also repaired and

The work was substantially done, at a cost of \$726.36 and the whole wharf is now in a perfect state of repair.

LANDING PLACES, LOWER ST. LAWRENCE.

To provide safe landing places for the fishermen engaged in their calling on the Lower St. Lawrence, the department has, during the past two years, undertaken

work at various places with gratifying results.

During the past year the sum of \$1,987.91, was expended in the removal of loose and solid rock at the following points, viz.: An-e à Grisford, Trois Ruisseaux, Anse à Louise, Jersey Cove, Cape Rosier Cove, Rivière au Renard, Petit Cap, Echourie, and Pointe Jaune.

LAPRAIRIE.

Laprairie, the chef-lieu of the county of the same name, is situated on the

southern shore of the St. Lawrence, 7 miles above Montreal.

A sum of \$2,000 was appropriated for works in connection with the ice piers. Part of this amount was expended in the construction of a stone protection work to the south of the main ice pier, and part in raising 9 feet, the portion 103 feet in length of the cribwork retaining wall immediately adjoining the same pier. The work was completed in December, 1895.

LES EBOULEMENTS.

The village of Les Eboulements is on the north shore of the St. Lawrence,

in the county of Charlevoix, 70 miles east of Quebec.

During the month of October last, the top flooring of the wharf, was partly renewed as well as part of the floor stringers, 500 planks 3 inches thick and 450 feet of stringers 10 x 10 being used; the railing on the eastern side was also repaired.

The work was done by day labour at a cost of \$388.90. Spring tides rise 20 feet,

neap tides 12 feet 6 inches.

LONGUEUIL.

Longueuil, in the county of Chambly, is on the south shore of the St. Lawrence opposite Hochelaga.

In the spring of 1895, a portion of the sheathing 150 feet in length along the upper or western face of the pier, and at about 100 feet from it head, was torn off or

broken by the ice, and a few of the face timbers crushed in. All necessary repairs were performed at a total cost of \$134.54 for labour alone. No materials were purchased as sufficient quantities were on hand.

In June last, a further amount of \$149.57 was expended on minor repairs and

for the laying of a gravel roadway 12 feet wide from end to end of the pier.

The total amount expended during the fiscal year 1895-96 was \$284.11.

MATANE.

On either side of the River Matane, which empties into the St. Lawrence on the south shore, is built the village of Matane, in the county of Rimouski.

This village is 30 miles distant from Little Metis station, the nearest point on

the Intercolonial Railway, its distance from Quebec being about 240 miles.

The work done at Matane during the fiscal year ended 30th June, 1896, consisted in the continuation and completion of the repairs undertaken during 1894-95, to the breakwater at the mouth of the River Matane on its left shore. This was done by replacing the piles and repairing the corner angles of the piers over a length of 160 feet. The piles were pieces of timber 10 inches square, and extended over the full height of the breakwater, each piece being driven one foot into the bottom and well fastened with 20 inch iron bolts. A row of big stones was put at the front to prevent the sand from being washel by the sea. Five iron straps 4 inches by $\frac{3}{8}$ inch were fixed on the seaward corner. The expenditure amounted to \$572.81.

Spring tides rise 12 feet.

MURRAY BAY.

Murray Bay is on the north shore of the St. Lawrence in the county of

Charlevoix, 85 miles east of Quebec.

During the month of October last about 13 toises of stone ballast were put in the new extension built in 1893 to complete the filling, 370 planks were renewed in the top flooring of the wharf, 80 feet of railing were built on the western side of the wharf and that on the eastern side was repaired and painted and other trifling repairs were executed.

The work was done by day labour at a cost of \$307.68. Spring tides rise 20 feet, neap tides 12 feet 6 inches.

PETITE RIVIÈRE ST. FRANÇOIS.

Petite Rivière St. François is a small village in the county of Charlevoix, on

the north shore of the St. Lawrence, 45 miles east of Quebec.

The work consisted in the removal of boulders from a part of the beach to facilitate the approach by schooners at high tide and allow them to ground safely at low tide.

130 boulders varying in size from $1\frac{1}{2}$ to 2 cubic yards were broken and removed, as well as smaller boulders not requiring to be broken.

The work was done by day labour at a cost of \$398.98.

Spring tides rise 20 feet neap tides 13 feet.

PHILIPSBURG.

The village of Philipsburg is situated on the east shore of Missisquoi Bay, Lake

Champlain, in the county of Missisquoi.

On the 29th of July, 1895, Mr. Olivier Lefebvre, entered into a contract with this department for the construction of a landing pier at this place for a bulk sum of \$9,942.00.

The work was commenced during the latter part of August, 1895, but was not

quite completed at the close of the fiscal year.

On the 26th of December, 1895, during a heavy north-west gale, which caused a tremendous ice shove, the breakwater or head of the pier which had been, but a few days before, placed in its specified position, but was not yet sufficiently ballasted, was moved 115 feet shorewards and 20 feet to the south. On the 8th of January it was, with difficulty moved to the position it now occupies, where permission was granted to leave it, subject, however, to a decrease in the contract price proportionate to the decrease in the length of the work. This decrease was estimated at \$188.94. The depth of water at the head of the pier was not affected by the change.

The pier consists of a breakwater or head 120 feet long and 25 feet wide, of a trestle work approach 302 feet long and 30 feet wide, and of a stone and earth embankment 285 feet long and 30 feet wide at the top, with side slopes of $1\frac{1}{2}$ to 1. Its head stands in 7½ feet of water at extreme low water level, and the top of its

flooring is 10 feet above the same level.

After its completion it was found imperative to rip-rap the slopes of the earthen or upper portion of the embankment from low water level to its top, and to provide and place in position suitable mooring posts. This the contractor agreed to perform at a reasonable schedule of rates, and he was called upon to carry out the work, which he satisfactorily completed.

The amount available for the work was \$10.500.00 composed of \$6,500.00 appropriated by parliament, and of \$4,000.00 subscribed by the municipality of Philipsburg.

The total amount expended was \$11,114.48.

POINTE AUX ESQUIMAUX.

Pointe aux Esquimaux, in the united counties of Chicoutimi and Saguenay, is

on the northern shore of the River St. Lawrence, 525 miles below Quebec.

The wharf purchased by the Government in 1895, had a length of 125 feet and a width of 30 feet. During 1895.96, it was lengthened 60 feet by the construction of a block 30 feet square and 42 feet in height, connected with the old work by a platform, 30 feet in length, and the whole of the work was sheathed.

The wharf is now 185 feet in length and has a depth of water at its outer end

of 25 feet at low water.

The amount expended was \$4,028.42.

RIVER DU LIÈVRE-LITTLE RAPIDS.

The lock and dam built by the department are situated at the Little Rapids, 12 miles above the village of Buckingham. The lock is 150 feet long between the gates

and is 31 feet wide, while the lift is 13 feet 9 inches at low water.

There have been 572 lockages of all kinds through the lock during the year including cribs of railway ties and a few cribs of saw logs, the tolls collected amounting to \$230.35. The phosphate mines having suspended work for the present, and also the Messrs. Grondin & Racicot Company's saw-mill, accounts for the reduced

Some repairs were made in filling holes and depressions in the west embankment which was sinking in some places and required levelling, at a cost of \$115.00.

The roof of the lockmaster's residence was leaking badly and was roofed with Canada plate at a cost of \$57.65.

The ice went out very strong last spring and the water being high caused some damage to the new unfinished pier above the west abutment.

There have been say 300,000 saw-logs passed through the slide during the year, besides a large number of pieces of cedar and other dimension timber.

RIVIÈRE DU LOUP (EN BAS).

Rivière du Loup, or Fraserville, Temiscouata County, is on the south shore of the St. Lawrence, 115 miles east of Quebec.

During the months of August and September, the sheathing of the wharf which had been carried away by ice was replaced, the broken face timbers under the slip were repaired and 700 three inch planks were renewed in the top flooring, and trifling repairs were made to the buildings and railing.

The work was done by day labour at a cost of \$451.36.

Spring tides rise 18 feet, neap tides 12 feet.

RIVIÈRE NOIRE.

Rivière Noire is a small village on the north shore of the St. Lawrence in the

county of Charlevoix, 108 miles east of Quebec.

During the month of October the small breakwater commenced in 1893 was completed by raising it an additional height of $2\frac{1}{2}$ feet with round cedar timber and stone ballast; it was also covered with 3 inch planks on its total length of 135 feet and a small approach of stone was built.

The work was done by day labour at a cost of \$300.35. Spring tides rise 20 feet, neap tides 12 feet 5 inches.

RIVER ST. MAURICE-GRANDES PILES TO LA TUQUE.

The River St. Maurice flows southward and empties into the St. Lawrence at Three Rivers.

From its outlet to Grandes Piles, a distance of 37 miles, this river is not navigable, owing to the numerous falls and rapids which follow each other without much intermission, but above Grandes Piles up to La Tuque, a distance of 66 miles, there is a good channel for vessels drawing less than two feet six inches of water.

The greatest impediments to navigation for a boat drawing more than 2½ feet of water, during the low stage of water, which generally lasts about a month each year during the navigable season, are at the shoals at Pile aux Morpions, Pointe à Tom, and at the Meckinac shoal.

The work done consisted in the placing of land marks and buoys to indicate the best channel at the shallowest places between Grandes Piles and La Tuque and in

deepening the channel at l'ile aux Morpions shoal.

Fifty-two land marks have been fixed on the river bank to indicate the channel, and 72 buoys have been kept during the navigable season to indicate the best channel at the shallowest places on the river. Some land marks were repaired and whitewashed, the position of some of these having to be altered owing to a change in the direction of the channel.

The deepening of the channel at l'ile aux Morpions was commenced, but very

little could be done owing to the sudden rise of the water.

The amount expended on this work was \$1,568.21 out of the appropriation granted for 1895.96.

RIVER YAMASKA.

The River Yamaska flows through the county of Yamaska, emptying into the St. Lawrence, eight miles below the town of Sorel on the southern shore of Lake St. Peter.

The lock which is situated about 4½ miles from the outlet of the river, has been kept in good working order all summer.

It was opened on the 24th April, 1895, and closed on the 21st November, 1895,

during which period there were 375 lockages.

The total amount of expenditure for staff was \$665.00, and for maintenance and ordinary repairs, \$239.03; a total of \$904.03 out of the appropriation granted for 1895-96.

STE, ANNE DE LA PERADE.

St. Anne de la Pérade, in the county of Champlain, is situated on the north shore of the River St. Lawrence, fifty-three miles above Quebec. The Rivière Ste. Anne, one of the tributaries of the St. Lawrence divides the village.

At the session of 1894, a sum of \$10,000.00 was voted for the protection of the

village, the municipality having subscribed the sum of \$5,000.

The proposed works were done during the winter of 1895, and consisted of five dykes.

The dykes are No. 1, 140; No. 2, 170; No. 3, 340 and No. 4, 435 feet in length respectively, the fifth, near the C. P. R bridge is 340 feet in length, and that of the little channel on the west side of the river is 550 feet in length.

These dykes consist of two rows of piles driven 10 feet apart and filled with

brush loaded down with stone.

It is to be remarked that the soil, where piles have been driven, is a fine sand taken down by the river from the land slide at St. Albans, the bed of the river having been raised 6 feet at Ste. Anne.

A sum of \$14,906.05 was expended during the winter of 1895.

During the fall of 1895, works have been executed for the removal of a certain portion of trees, stumps, etc., accumulated in the Little Channel owing to the land slide at St. Albans.

During the winter of 1896, Dyke No. 1 has been reconstructed for a length of 220 feet and No. 5 has been repaired. These dykes experienced considerable damage by the breaking of the ice in December, 1895.

The amount expended during the fall of 1895 and winter of 1896, has been

\$4,373.90.

STE, ANNE DU SAGUENAY.

Ste. Anne du Saguenay is situated on the northern bank of the River Saguenay

opposite Chicoutimi.

During the past year, the block which has been built at a distance of 250 feet from the wharf was raised 8 feet, and will, in consequence, afford sufficient protection to the wharf during the breaking up of the ice in the spring.

STE. CECILE DU BIC.

Bic, in the county of Rimouski, is a station of the Intercolonial Railway about

8 miles west of Rimouski.

A wharf, 1,140 feet in length, has been built at this place, and during the month of June last, nearly 1,200 planks were used in renewing the planking over a length of about 400 feet. The remaining of the flooring was repaired and the top course on both sides was renewed over a length of 300 feet. The wharf is now in such a state as will allow the shipping of timber for some time.

The expenditure amounted to \$587.24.

ST. FELICIEN.

St. Félicien, on Lake St. John, is situated about 18 miles to the west of Roberval

which is the lake terminus of the Quebec and Lake St. John Railway.

During the fiscal year 1895-96, there was built, at an expense of \$1,999.68, a wharf 70 feet in length, 26 feet in width, and 22 feet high at the outer end at which ressels drawing 8 feet can lie at low water.

A shed 20 feet square was erected on the wharf at its inner end.

ST. IRÉNÉE.

On the north shore of the St. Lawrence, nine miles west of Murray Bay, lies the

village of St. Irénée, in the county of Charlevoix.

Some years ago an isolated block was constructed by the department at this place, the dimensions of which were 78 and 30 feet respectively, its length being nearly parallel to the shore. During last summer, an extension shoreward has been built. The work is close faced square timber, 60 feet in length, and 22 feet in width by a mean height of 30 feet, the greater side of the extension being placed in a straight line with the north-east side of the existing block.

The block was left unsheathed, and during the rough weather of the first part of the winter, the north-east corner was badly damaged by ice. During the month of December, this corner was sheathed with pieces of spruce 10 inch square and

fenders were placed on the whole length of the north-east side.

The greatest tide, observed in September last, was 19½ feet; the depth of water

at low tide near the extension is 9 feet.

The expenditure during the fiscal year amounted to \$2,909.88.

ST. JEAN ILE D'ORLÉANS.

St. Jean, in the county of Montmorency, is on the southern shore of the Island of Orleans, is 3 miles from Quebec, and 7 miles below St. Laurent.

During the first half of last fiscal year, the repairs to this pier were brought to a close, and consisted in putting on 460 running feet of 8 inch by 9 inch cap timbers, the sheathing of 347 feet in length on the east side from extreme low water up to top with 3 inch black birch, and pine and black spruce deals and two coats of paint were applied to mooring posts and cap timbers. The lower part of the west slip was renewed on a length of 30 feet by 9½ feet wide with new side cap timbers. Twelve new fenders were placed on the west side of the pier, and other repairs and improvements made at a cost of \$671.48.

ST. LAURENT.

St. Laurent, Montmorency County, is on the south shore of the Island of Orleans, 10 miles east of Quebec.

During the month of August last the top planking was renewed almost entirely on a length of 400 feet and the pulleys used in raising the slip were repaired.

The work was done by day labour at a cost of \$179.17.

Spring tides rise 19 feet, neap tides 13 feet.

TOULADIE RIVER.

The Madawaska River has its source in Lake Temiscouata and empties into the St. John River at Edmundston, New Brunswick.

Lake Temiscouata is connected with Lake Touladie by the Touladie River,

which is considered a branch of the Madawaska.

The work done during the fiscal year 1895-96, was the continuation of what was began in 1893-94, and carried out during 1894-95. It consisted in removing boulders and other obstructions from the river and constructing a tow-path along the shore. This path is constructed by cutting the wood and bushes and levelling the ground, and building small bridges over the streams met with.

A considerable amount of blasting was done. The expenditure amounted

to \$461.55.

TROIS PISTOLES.

Trois Pistoles, in the county of Temisconata, is a village on the Intercolonial

Railway, 25 miles below Rivière du-Loup.

The work done during the year consisted in improving the harbour by blasting boulders and projecting rocks, and dragging ashore the broken stones. The expenditure amounted to \$435.89.

Spring tides rise $16\frac{1}{2}$ feet.

PROVINCE OF ONTARIO.

BIG BAY.

Big Bay, Grey County, is situated on the Georgian Bay, near the entrance to Colpoy's Bay in the township of Keppel, about 15 miles north of Owen Sound Harbour.

In October last, authority was given to make certain repairs to the landing pier at this place. The work consisted in protecting the shore end crib with stone riprap in order to avoid further undermining by the action of a small stream.

The amount expended was \$51.39.

BURLINGTON CHANNEL.

Burlington Channel is a channel through Burlington Beach, connecting the

waters of Lake Ontario with Burlington Bay or Hamilton Harbour.

Owing to the low water level in the lakes it was found impossible, without a heavy expenditure of money, to operate the large ferry-scow, during the fall, and as traffic in the winter is very small, and as the highway bridge, to do away with the ferry at this place, was in course of construction, it was not considered necessary to make the outlay. Foot passengers were taken over in the ferry punt.

The amount expended in working the ferry from 1st July, 1895, to 30th June,

1896, was-

Wages of ferrymen	96 65
Total\$81'	7.61

A road approach 400 feet in length with rip-rap stone wall, on the bay, or west side, has been constructed with material from the beach on the north side of the channel to connect the swing-bridge now being erected with the public road. The amount expended on the work was \$1,546.00.

On the south side of the channel a crib 70 feet by 20 feet was built, and placed in position, with superstructure to fill in the approaches of the ferry landing. The

amount expended on the work was \$2,570.60.

COLLINGWOOD.

Collingwood is situated on the south-east portion of the Georgian Bay, township of Nottawasaga, county of Simcoe, 94 miles by railway from Toronto, and has a population about 6,000.

On the 22nd July last, authority was given to expend a sum not to exceed \$2,500.00 in making certain repairs to the breakwater, at the entrance to the harbour, and, in August active operations were commenced under a foreman of works, by day's labour,

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and carried on until the 12th November, when the weather became too unfavourable for carrying on work to advantage. In May last work was resumed, and the whole of the repairs completed and the whole of the appropriation expended by the 30th June.

In December last, authority was given to repair the foundation under the light-house on the breakwater, the sum to be expended being \$200.00. This work could not be done in the winter months, owing to the large amount of ice which accumulated on this structure and it was not until April that the necessary operations could be commenced and they were completed in May last.

COBOURG.

Cobourg is situated in the county of Northumberland, on Lake Ontario, 69 miles by rail north-east of Toronto, on the main line of the Grand Trunk Railway.

On the 25th October, 1895, authority was given to make certain repairs to the east pier and Langevin pier at Cobourg Harbour by day's labour. Active operations were at once commenced and the work completed in January, 1896.

KINCARDINE.

Kincardine is situated at the mouth of the Penetangore River, which empties into Lake Huron, 31 miles north of Goderich and 30 south of Southampton. It is the terminus of the Grand Trunk Railway (Wellington, Grey and Bruce Division).

During August, 1895, \$30,00 were expended in effecting some necessary repairs to the north pier.

KINGSTON.

Kingston, Frontenac County, is at the lower end of Lake Ontario, and 172 miles above Montreal, and 161 miles below Toronto.

The work of removing Point Frederick shoal was continued from 1st July, to 5th October, 1895, and during that time 1,533 cubic yards of rock, measured on the scow was removed and delivered to various parties, who unloaded the scows without charge to the department.

Hitherto it has been possible to remove the rock without blasting, but this can be no longer done to advantage. The rock which has yet to be removed in order to obtain the required depth of water is so compact in its bed, that the use of an explosive will be required to loosen it. Owing to the exposed position of the shoal, drilling for this purpose could be done best from the ice in winter, and the holes fired as required during the working season.

The expenditure for the year has been \$3,829.31.

LAKES SIMCOE AND COUCHICHING.

In April, 1896, work was commenced at the outlet of Lake Couchiching, the upper end of the Severn River, between the counties of Simcoe and Ontario.

The object of the work was the regulation of the waters of Lake Simcoe and Couchiching. The clearing of the land and water courses has in this locality as clsewhere, resulted in extreme high water in the spring and extreme low water in the antumn

The outlets of Lake Couchiching being narrow gorges through granite ledges, the escape of this flood water was not sufficiently rapid to allow the land bordering Lake Simcoe being cultivated.

The department, therefore, undertook the work of widening two of the three outlets, above low water level so as to facilitate the escape of the flood without interfering with low water.

The work was carried on by day's labour and with plant belonging to and purchased by the department.

Before the close of the fiscal year, the widening at "Little Falls" was completed and half the work at "Big Falls" done.

It having been represented that the more rapid escape of flood water would endanger navigation during low water, it was decided to limit the escape at low water. water by stop-logs at each outlet. ()n the completion of the excavation stop-logs were therefore constructed at "Little Falls."

The expenditure during the fiscal year, including the construction of stop-logs,

was \$2,416.48.

LION'S HEAD.

Lion's Head is situated on the west side of the Georgian Bay, Bruce County,

and is distant from Wiarton in a north-easterly direction about 35 miles.

On the 25th May last, authority was given to expend the sum \$83.00 in effecting repairs to the landing pier at this place, and consisted chiefly in renewing a portion of the deck planking and stringers; 300 lineal feet of 6 inch x 8 inch cedar timber and 4,600 feet b.m. 3 inch pine planking with 125 lbs. iron spike being used, and the work was completed in June last.

MORPETH.

Morpeth is situated in the electoral division of Kent on the north shore of Lake

Erie, about 10 miles east of Rondeau.

During the year the sum of \$337.64 was expended in making some necessary repairs to the landing pier at this place, the work being done by day's labour. Operations were commenced on the 7th August and completed on the 9th September; 11,935 feet b.m. timber was used in placing the pier in good repair.

CAKVILLE.

Oakville is situated in the county of Halton, on Lake Ontario, 22 miles by rail

to the south-west of Toronto.

During the year 1895-96, the sum of \$499.93 was expended in repairing and levelling up the east pier, at the outer end, a distance of about 200 feet in length. Work was commenced in May and carried on by day's labour and the whole completed in June.

In making the repairs, 15,570 feet b.m. timber, 320 feet of scantling, 1,904 lbs. iron for bolts and 100 cubic yards of stone were used. The labour and superintendence

cost \$120.69.

OWEN SOUND.

Owen Sound is situated in the township of Sydenham, county of Grey, and at the mouth of the Sydenham River. It is the terminus of the Canadian Pacific Roll. Railway (Toronto, Grey and Bruce Division) and of that company's line of steamers, on the Upper Lakes, also of the branch of the Grand Trunk Railway. (Georgian Bay and Lake Erie Division).

On the 19th October, 1894, a contract was entered into with Messrs. Porter and Canan, of Wiarton, for the bulk sum of \$10,630.00 for the construction of sheet pile revetment work, in front of the Esplanade, on the west side of the harbour, a distance of 1,550 feet. Active operations were commenced in May and the whole of

the work was completed in August last.

In November, 1895, instructions were given to place two inner bands or straps, 4 inches by §, on the fender pieces, in front of the revetment work, in order to prevent the fenders from being torn off by vessels. This work was done by day's

labour and completed in December last at a cost of \$650.62, 16,240 lbs. iron for bands and 3,450 lbs. iron spikes were used, and the labour and superintendence amounted to \$224.00.

On the 8th May last, authority was given to expend the sum of \$1,600.00 in dredging the harbour and filling in with the dredged material behind the revetment work. Messrs. Porter & Canan's plant was engaged to perform the work, at the rate of \$8.00 per working hour. Work was commenced on the 27th June and completed on the 17th July. The dredge worked 192½ hours at a cost of \$1,540.00 and removed a large quantity of material from the harbour. The inspector's wages amounted to \$57.73. Total expenditure for dredging \$1,597.73.

PORT DOVER.

Port Dover is situated in the county of Norfolk, on the north shore of Lake Erie, about 26 miles by rail from Brantford, and is a station on the Grand Trunk Railway.

On the 5th November, 1894, an agreement was entered into between the United States and Ontario Steam Navigation Company and the Department of Public Works for the performance of certain works at the entrance to the harbour of Port Dover, the company to receive a subsidy of \$15,000 when the works were completed to the satisfaction of the department.

The company having expended some \$45,200 in dredging and constructing the works necessary to operate the lake ferry boats, a certificate was given, on the 5th November last, stating that the company were entitled to the subsidy of \$15,000.

The company have, during the last spring and summer, made further improvements, in deepening the approach to the piers and also the area used for the ferry boats.

PORT ELGIN.

Port Elgin is situated in the electoral division of the southern portion of the county of Bruce, on the eastern shore of Lake Huron, about 24 miles north of Kincardine and 4 miles south of Southampton. It is a station on the Grand Trunk Railway, but there is no track from the railway to the harbour.

On the 10th May, 1895, authority was given to place 3 ring bolts on the groyne

at Port Elgin which was done in July last, and cost \$29.50.

Repairs were executed to the breakwater and consisted in filling in a breach made through this structure. The amount expended on the work for materials and labour was \$150.

PORT HOPE.

Port Hope is situated in the county of Durham, on the north shore of Lake Ontario, 63 miles by rail east of Toronto.

On the 22nd July last, authority was given to make certain repairs to the east pier at Port Hope, and to expend a sum not to exceed \$800, the work to be done by day's labour.

Active operations were commenced at once and 19,000 feet b.m. timber and 900 lbs. iron were used in the work. The labour and superintendence cost \$432.75; the balance being for materials.

THESSALON.

Thessalon is situated on the north side of the north channel (Lake Huron) in the district of Algoma.

On the 3rd April, 1895, a contract was entered into with Messrs. Read & Green, of Owen Sound, for the construction of a landing pier at this place of crib-

work with superstructure 325 feet in length and an approach of stone work 80 feet in length; making a total length of 405 feet. Active operations were commenced in July, 1895, and the whole of the work was completed in October of the same year, and accepted by the department, the total expenditure being \$8,658.00 for work and inspection.

TORONTO HARBOUR-WORKS AT EASTERN ENTRANCE.

During the fiscal year 1895-96, two cribs were sunk on the west side of the channel completing the present contemplated length of the west pier—33,600 lineal feet of timber in face works, ties and longitudinals were framed in the piers, and 159,932 feet board measure of planking laid.

5,680 cubic yards of stone were placed in the cribs and superstructure, and

2,640 cubic yards of large stone deposited around the ends of the piers.

From the channel and sites of the cribs, 18,140 cubic yards of sand were dredged. A survey of the harbour is being made, from which much valuable information will be obtained.

PROVINCE OF MANITOBA.

HNAUSA WHARF-LAKE WINNIPEG.

Hnausa is an Icelandic settlement situated on the west shore of Lake Winnipeg, Manitoba, about 52 miles north of West Selkirk and 70 miles north of Winnipeg.

In view of the increasing settlement and trade along the west shore of Lake Winnipeg, a wharf was constructed at Hnausa.

The work was under contract with Mr. Peter McVeigh, of Ottawa, contract price \$5,870.00; work began in June, 1895.

The wharf consists of 300 feet of open faced cribwork, 20 feet wide, filled with stone, and 60 feet of earth and stone approach.

The contractor failed to complete the work within the specified time (October 15th, 1895), and it was taken out of his hands and completed by day's labour in February, 1896.

BRITISH COLUMBIA.

COLUMBIA RIVER.

The headwaters of the Columbia River are a series of small lakes lying between the Rocky Mountains and the Selkirk Range, a little south of the 50th parallel of north latitude. The upper lake is separated from the Kootenay River—which takes its rise in the heart of the Rocky Mountains, but a few miles north of the 51st parallel—by a low sand and gravel divide, 2,700 feet above sea level, a mile and a half wide. The Kootenay at this point, at an ordinary stage of water, is about nine feet or so above the level of the Upper Columbia Lake. While the Kootenay flows in a south easterly course to the boundary line, the water of the Columbia takes an entirely opposite direction towards the Canadian Pacific Railway at Golden, about one hundred and thirty miles porth most of Canadian Pacific Railway at Golden, about one hundred and thirty miles north-west of Canal Flat.

This portion has been known as the "Columbia River above Golden," and is

navigable now for steamers of light draught as long as the river is free of ice.

From Golden, the Columbia follows—about the same course—the line of the railway on the south side, to Donald, where it crosses to the north side and follows thence to Beaver. Steamers can, it is believed, run down from Golden to Donald, but not to Beaver. Leaving the railway at the latter place, the river continues the same course to the Big Bend, where it doubles and takes a southerly course to Revelstoke, where it again meets the Canadian Pacific Railway. The distance from Beaver round the Big Bend is about one hundred and seventy-four and a quarter miles

About thirty miles below Revelstoke, the river debouches into Upper Arrow Lake, over a fan-like bar of wandering sand. Passing through the lake—which is about forty-three miles long—the river is entered again, and continues for about eighteen miles, to the Lower Arrow Lake, extending further southwards forty-eight miles more or less. The river between the lakes is called "The Narrows." Both of these lakes hardly exceed four miles in the widest part. From the Lower Arrow Lake to the Kootenay Rapids—twenty-one miles—the river is deep and wide, with no very acute bends, but a strong current. This portion is known as the "Columbia River, below Revelstoke."

Continuing through the rapids, passing the mouth of the Kootenay River on the left, the Columbia continues a wide and swift river, with many sharp bends, divided in one or two places by rock islands, to the international boundary below Fort Sheppard, a distance of thirty-two miles from the head of the rapids. The general direction is due south. This part of the river is known as the "Columbia River, below Kootenay."

The valley of the river, from the Big Bend, south, lies between two ranges of mountains—the Selkirks to the left and the Gold Range to the right. The mountains lose to a great extent their rugged appearance as the lakes are reached.

The banks and bed of the river are generally gravel and sand, thickly timbered, with an occasional rock bluff intervening.

Kootenay Rapids.

The improvements carried out over this section of the Columbia River have been of great benefit to navigation. The steamers of the C. & K. S. Nav. Co., were enabled, after the work was executed as far as it was possible before the water rose, to make the rapids without lining, a most marked advantage whereby much labour is saved, and loss of time and risk avoided.

The work embraced (1) extending, completing and renewing where necessary the cribwork on the left side at the main rapids, and removing several large boulders abreast of the crib in and about the low water channel, (2) building a wing dam and protecting the bank on the opposite side at the lower rapids from erosion, and (3) in marking the channel at the upper narrows or rapids with beacons and buoys.

The expenditure was \$3,152.73, of which the details are:-

Wages Tug and pile driver Material Inspection Sundries	520 173 193	00 77 85
Total		

Above Golden.

The dredge "Muskrat" operated on the Columbia River above Golden during the past fiscal year from the 1st July to the 31st October, 1895, and from the middle of April to the end of June following.

The running expenses and repairs and renewals during the above mentioned periods entailed an expenditure of \$2,489.83, of which the general particulars are given hereunder.

Wages.	\$1,594	79
Provisions	469	98 20
Stores	107	
Equipment	4	00
Sundries including freight, fares, etc	293	
Matal.	¢2.480	83

The crew consists of five all told, viz.: captain and engineer, one fireman, two deckbands and a cook

During the period first above mentioned the dredge operated 45 days and removed 9,405 cubic yards of sand and gravel, and for the remainder of the working time, 155 days, the crew were all engaged in cutting brush, building and filling in wing dams for confining the channel, and in other works in connection therewith. Only five days during the season were devoted to repairs. The operations extended from Port Adela in Mud Lake down the river to Lake Windemere and from the lower end of this latter lake through the Salmon Beds to $3\frac{1}{2}$ miles below.

By the 31st October, the "Muskrat" was laid up for the winter.

About the middle of April last, the crew were engaged, but owing to the extreme low water, notwithstanding the early opening of spring the water did not rise rapidly, the dredge was not floated out of winter quarters until the 16th May. This left but six weeks to work before the end of the year. The weather still continued cold, and consequently the water did not rise to a favourable stage for dredging until well into June, about a month later than the previous year.

The work performed during the latter period consisted in completing dams commenced in the autumn, dredging deep holes to act as resting places for silt at the foot of inclines, and in sinking mattresses across the outlet of the lake to prevent

econijug.

The following table accounts for the working time of the crew.

Total working time	davs.		168
Dredging, 10,820 cubic yards.	ü	56 6 5	
Cutting brush	44	9 20	
Removing snags and overhanging trees	"	3 35	
Building dams	66	37 00	
Making mattresses	66	8 50	
nepairing	"	24 30	
Cleaning up and washing down	"	2 75	
Cleaning up and washing down	"	5 10	
Moving and travelling	"	18 75	
Shifting cable	"	1 20	
Pumping out	"	1 80	168

The work performed has been of benefit to navigation, but, owing to the smallness of the appropriation, its scope had of necessity to be curtailed.

Below Revelstoke.

During the past fiscal year the sum of \$218.96 was expended in the removal of snags on this section of the Columbia River.

FRASER RIVER.

The Fraser is one of the largest besides being the most important of the many rivers of this province. It traverses, or rather penetrates, a country most diversified in its productions and undeveloped resources, both as regards the precious and other metals as well as the products of the forest and soil. It has been well known since the early fifties, if not before, and, therefore, there is no need, for the purposes of this report, to give a very extended description; except in the direction of those natural features which bear directly upon the works undertaken, or upon those contemplated, for the training of the channel with the view to prevent erosion and overflow; and for the conservation, in a permanent and stable manner, of the ship channel from the city of New Westminster to deep sea water in the Gulf of Georgia.

The topographical characteristies of the Fraser, throughout its entire course, are in many respects similar to those of the Columbia River lying to the south. Like it the Fraser takes its rise in small lakes at the western base of the Rocky Mountains and, keeping close thereto for some distance, flows in a north-westerly direction before it bends to the west, and eventually turns south. The headwaters, at an elevation of about 3,000 feet above the sea, are in the vicinity of the Yellow Head Pass, through which it was at first the intention to build the Canadian Pacific Railway, situated a little to the south of the 53rd parallel of north latitude, between the 118th and 119th meridians of west longitude; and but a short distance from Canoe River, flowing southward to join the Columbia at the Big Bend. The most northerly point is about sixteen miles north of the 54th parallel on or about the 122nd meridian. whence its course is west for about ten miles. Thence, leaving the summit waters of the Peace River, which flow to the north, five miles or so to the right, the Fraser takes a general direction, a little east of south, as far as a place called Hope, situated on the left bank about fifteen miles below Yale, the highest point of practical steamboat navigation, and about 25 miles north of the 49th parallel, the international boundary line. From this point the direction gradually changes, eventually taking a general course, through the arable lands of the Fraser Vulley, almost due west to the Gulf of Georgia, into which it empties about eight miles north of the boundary and six miles west of the 123rd meridian. Allowing for the many bends and the frequent traverses of the valley, it is a very close approximation to say that the length of the Fraser from its source to the gulf is not less than 900 miles.

Throughout this distance the river passes between, and pierces, many ranges of lofty mountains, on whose sides and summits glaciers and snow fields abound, and among which, at the higher elevations, the snow measured as it fell, has been

known to attain, in one winter, the great depth of fifty feet.

These mountains are again pierced by the lateral valleys of the many tributaries of the Fraser River, which range from the short lived mountain torrent to the large rivers whose sources are generally mountain lakes, the receptacles of the water from the melting glaciers and snow fields which surround them.

Commencing at the upper reaches and proceeding down stream, the principal tributaries entering the Fraser River from the right bank may be briefly described

as follow:-

- (1.) North Fork, penetrating by two branches the western slope of the Rocky Mountains, enters at the point where the Fraser turns westward from the base of the mountains.
- (2.) Salmon River, flowing from the north-west, near by and in a direction parallel though opposite to the Peace River, joins the parent stream where it bends to the southward.
- (3.) Nechaco River, whose numerous branches spread out fan-like northward to the 56th parallel, almost mingling with the headwaters of the Skeena, and westward and southward, penetrating deeply into the heart of the Coast Range, connects with the Fraser at Fort George.
- (4.) Blackwater River, flows from the west also, but is not so far reaching as the Nechaco. Its mouth is 50 miles south of the former.

- (5.) Chilcotin River, flowing from the same direction as the two former, rises in a large lake, of the same name, lying at the eastern base of the Coast Range.
- (6.) Harrison River, flows southward from a chain of large lakes and enters the Fraser about 45 miles below Yale.
- (7.) Pitt River, rises in a lake, situated a few miles north of the railway, fed by mountain streams, and flowing in a south-westerly direction, joins the Fraser about eight miles above New Westminster.
- (8.) Coquitlam River, has its origin also in a lake, of the same name, from which is drawn the water supply of New Westminster. It flows south and joins the Fraser two miles below the mouth of the Pitt.

The chief tributaries entering from the left bank are:-

- (1.) Willow River, which rises in the heart of the notable placer gold mining country of Cariboo, and flows northward, joining the Fraser opposite the mouth of Salmon River already referred to.
- (2.) Quesnelle River, which also flows from the Cariboo country, but in a westerly direction, empties into the Fraser at Quesnelle Mouth, some eighty miles south of Fort George.
- (3.) Thompson River, which joins the Fraser at the town of Lytton. This is a large river with many subsidiary streams draining a large area, extending as far east as the summit of the gold range; south almost as far as the summit lake of the Fraser, from which it is divided by a narrow neck in the midst of which the Canoe River flows to join the Columbia at the Big Bend; and south about fifty miles. The Thompson is navigable from Savona's Ferry, lying at the west end of Kamloops Lake about seventy miles above Lytton, to the town of Kamloops opposite the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinence of the confinen fluence of the North Thompson, which latter stream is also navigable for about 100 miles north, and thence continuing eastward into Shushwap Lake and Salmon Arm lying at the western base of the gold range. At a high stage of water navigation may be continued south of the railway through Mara Lake up the Spellumacheen River to Enderby, a distance of twenty-three miles.

The Canadian Pacific Railway follows closely the Thompson waters from the summit lake in Eagle Pass to the confluence of the Thompson with the Fraser. In only one instance does it depart therefrom, and that is, where, to avoid a long detour, if the shores of Salmon Arm and Kamloops Lake were followed, a narrow neck of land separating them is crossed at an elevation of six hundred feet above the lake level.

Below Lytton to salt water, though many other streams enter from the left, none of them are of sufficient size or importance to require special mention at this time.

Viewing the river above Lytton, and keeping in mind its immense watershed and innumerable feeders, it is all but impossible to understand by what means such

a body of water passes through the narrow Canon above Yale.

Thus the watershed of the Fraser River and its tributaries extends from the 49th northward to the 56th parallel of north latitude, and from the summit of the coast range on the west to the summit of the rockies and gold range on the east, embracing an area of not less than 70,000 square miles, equal to about one third of the area of the mainland of British Columbia.

Between Yellow Head Pass and the mouth of Salmon River, the Fraser flows through a heavily timbered country. The banks are either of rock where the channel narrows, or, in wider portions, of friable material, such as gravel, sand and clay of light drought above Grand clay. Navigation is said to be possible for steamers of light draught above Grand Rapids. Below Salmon River the river widens out to about one thousand feet or more, having the appearance of a lake. The banks are low and heavily timbered with cottonwood. Below Fort George the river narrows again and flows with a steadily increasing current through a country but sparsely timbered for some distance back from the banks, of occasional elevated benches of good arable land where water can be turned on, divided at intervals by the inevitable canon. Through the bench lands the banks are steep and always of material easily disintegrated by the crosive energy of the rapid current. These natural features continue through the Cottonwood Cañon, referred to hereafter, past Quesnelle, Soda Creek, and the mouth of the Thompson to the point where the dry belt ends and the timber returns to the river bank again. This gradually becomes evident below Lytton. Between Fort George and Soda Creek the river is navigable.

The white population above Yale is somewhat scattered and may be described

as mainly agricultural and mining.

Though the Canon of the Fraser, through the Cascade Range, practically ends at Yale, the valley does not widen out appreciably for some distance below Hope. From this latter point to the mouth—the most densely populated part of the province—the river passes between low banks—frequently split up into sloughs or subsidiary channels, with here and there a rocky point or bluff jutting out—of most soluble alluvial soil,—generally timbered with cottonwood along the banks—most fertile, but, with few exceptions, liable every year to overflow, the extent of which depends, in a great measure, upon the snow fall of the previous winter and the continuance of early and sudden extreme hot weather. At New Westminster the river is divided permanently by Lulu Island into two channels called respectively the North Arm and the Main Ship Channel. This section of the valley is what is known as the Delta of the Fraser. It is very rich agricultural land, but subject to tidal overflow.

Four bridges only have been as yet thrown across the main channel of the Fraser. The first, a road bridge at Lillooet, 340 feet span, built of wood and iron; the second, a steel cantilever railway bridge, below Lytton, with a centre span of 300 feet, which carries the Canadian Pacific Railway from the left to the right bank, which it follows thereafter closely to New Westminster; the third, the Alexandria suspension bridge, of 256 feet span, whereby the old Cariboo wagon road crosses the Fraser two miles above Spuzzum, and the fourth, the Canadian Pacific Railway Company's bridge at the Mission, consisting of 1 span of 100 feet, 8 spans of 150 feet each and a swing truss of 239 feet over all. In addition there are 1,400 feet of

trestle approaches.

The lowest water occurs in the Fraser for a short period after the ice goes out. It then rises gradually by reason of the early spring rains; but it is not until the beginning of May, when the sun shines hotly melting the mountain snow, that the settlers below Hope begin to anxiously watch the river. The first rise usually takes place in May when the snow on the mountains along the lower reaches melts and seeks its natural outlet. This is generally followed by another and greater rise about June, or early in July, when the water of the melting snow and glaciers of the upper Fraser comes down. This is the time most dreaded, but strange to say that this year, contrary to past experience, the unprecedented high water, which has proved so disastrous to the lower Fraser Valley, was caused by the waters of the Thompson. Fortunately the first rise receded before the great bulk of the Rocky Mountain water arrived. Had both come simultaneously it is impossible to say to what greater extent the destruction of lands and changes of river bed would have been carried.

Previous to the commencement of railway construction the high water of 1876 was the highest known and was accepted as the extreme. In 1882, however, the river rose higher and this was similarly accepted as the extreme limit. This confidence has been rudely dispelled this year. In one direction at least the occurrence of this freshet may be considered as not altogether an unfortunate one, not unmixed with good. Had all the dyking and reclamation schemes proposed, based upon the high water of 1882, been completed the destruction and loss of property from Hope to the Gulf of Georgia would have been incalculable. The result will now be that all works undertaken likely to be affected by another high water will be designed to meet a still greater. It is not probable but still possible that a combination of all conditions necessary to ensure the coming together of all the waters from the melting snows and glaciers over the whole area of the watershed of the Fraser may happen. Such a contingency, even though it may be considered by some remote, must be guarded against.

The erosion of the shores and bed of the channel where it passes through or over easily disintegrated material is constant, but of course is least during low water. As the river rises the erosive energy of the current increases rapidly until the maximum is reached at the highest stage of water. The result of this constant and increasing eating away of the shores and bed, is, that an immense amount of material is carried down stream in suspension, the quantity being augmented by every tributary large and small, until, in the lowest reaches, the water is in such a turbid state, so charged with sediment, that it more closely resembles a thick pea soup than anything else it can be compared to. The extent of the sedimentation that must have occurred this year, at the mouth of the river or elsewhere where the current is at all retarded, as for instance where the banks are overflowed or where the inflowing tide meets the river current, may easily be imagined.

Another source of sediment is the hydraulic mining operations now being carried on, with every prospect of being extended, along the Fraser and all its branches. Should the expectations of those interested, even only in part, be realized, it will be necessary to take steps to supervise operations, and insist upon reservoirs being constructed at the points where such precautions are or may be considered necessary, for the purpose of impounding the material and prevent it from being carried down stream in great quantities and deposited on any valuable land that may be overflowed, to its total destruction, or on bars in the river channel to the detriment of navigation. Such has happened in California, and it is stated by those familiar with both countries, that the available paying hydraulic properties on the

Fraser River are much in excess of those in California.

Below the camon at Yale the bars and bed are chiefly coarse gravel and sand, the former becoming finer and finally disappearing below Miller's Landing. From thence inwards to the extreme limit of the Sand Heads in the Gulf of Georgia, the material composing the bars and the sides of the channel, for the most part, is a very fine flaky silt, which when dry has a pearly or semi-metallic lustre. It is pro-

bably the result of the attribution of mica or talcose slate.

The destructive energy and capabilities of this surcharged freshet water are added to by the enormous quantities of drift timber borne along by the current. This drift comprises trees and timber of all sizes and descriptions, ranging from a cottonwood, cedar or fir, 150 feet to 200 feet long, with roots, from 15 feet to 20 feet in diameter, and branches intact, to the ordinary saw-log or tree top. It may be either green timber recently fallen in where the bank has been undermined or previously stranded timber and parts of log jams floated off by a higher water. The drift sometimes with the strange most noticeable this year drift sometimes gathers together in large rafts—this was most noticeable this yearand it is not difficult to realize the inherent destructive power of such a mass carried along by a current of great velocity and the damage that it will inflict when driven against a friable bank, dyke, bank protection, mattress work, wharf or bridge

The river flow is affected by the inflowing tide, that is backed up, to Chilliwhack, about 48 miles above New Westminster, or 65 miles from the mouth. The diurnal fluctuation at Miller's Landing has been observed to vary between 12 and 30 inches

in winter time.

At New Westminster the range is for ordinary spring tides about five feet, but during freshet time the water seldom falls more than a foot or eighteen inches. There is no surface movement up stream except during low fresh water stages.

At the rock wharf inside the mouth of the river the greatest range of one tide is eleven feet, through the extreme range, that is the difference between the highest and lowest observed tides is eleven feet. At the automatic tide gauge situated in the channel through the Sand Islands, two miles from shore the greatest range of one tide is fourteen feet,—this occurred on 11th January, 1894, at the full moon, though the difference of level between the lowest and highest tides known is only 14 7 feet.

For the purpose of ascertaining the surface slope of the river during the freshet at all stages of the tide between New Westminster and the tide gauge on the sand heads, a distance of eighteen and three-quarter miles, and between intermediate points, simultaneous tide gauge observations were taken on the 21st June last, all the gauges being referred to one datum. The following table gives the condensed information thus obtained:—

Between.	Distance miles.	Diff. Level H. W. feet.	Surface slope feet per mile.	Diff. level L. W.	Surface slope feet per mile.
New West and Ewen's Cannery. Ewen's do Laidlaw's do Laidlaw's do Stone Wharf Stone Wharf and Tide Gauge.	5·0 5·0	2·08 1·58 0·92 0·75	0·39 0·395 0·185 0·192	3·70 2·67 3·37 3·71	0.65 0.6675 0.674 0.95
Total	18.7	5.33		13.45	-

From the above it will be seen that the greatest surface slope between New Westminster and the Gulf, and therefore the swiftest current, is between the latter points in above table, and it is in the vicinity of the wharf both up and down stream that the greatest cutting of the banks has taken place.

The motive for the foregoing, perhaps rather extended, description of the physical characteristics of the Fraser Valley is the desire to convey a clear impression of the magnitude of those elements or factors which enter so largely into the solution of all problems connected with the regulation of river channels in the direction

either of preventing erosion of the banks or of improving navigation.

A suggestion has been thrown out that perhaps the main river might be permanently relieved of some of the surplus flood water by diverting the sources of some of its many feeders into the head waters of other rivers to which in many instances they are in very close proximity. It is an idea, but its practicability can only be determined by examination and correct levels. It may be added that such a proposition, however appears, to be, if anywhere, only possible with the branch streams above Lytton, and cannot seriously be considered with regard to the Thompson waters.

Garry Point.

In consequence of the intimate connection and similarity in the methods and objects for which the above appropriations were made, they will be considered for the purposes of this report as a whole.

The total expenditure was \$10,994.36, of which the details are:—
(1) Improvement of channel and protection of river bank:—

2,998 15
916 06
1,188 00
50 00
355 05
525 10
75 11
127 84
25 90
15 30
•
2,201 49

(2)	Building, repairing ways.— Material only	488 21		01
(3)	Running expenses, Snag Boat "Samson," charged to Fraser River\$	2,028 15		
	Total		\$10,994	36

The appropriation being small, nothing was done during the first part of the fiscal year towards continuing the protection of Westham Island, or of continuing the work on the north side outside Garry Point until the effect of the freshet at these points had been ascertained.

In the meantime, work was resumed at the quarry, Pitt River, and the construction of ways, below the Rock Wharf at the mouth of the river, for hauling out the plant was commenced. When completed with proper hoisting appliances

these ways will be of great economical value.

When favourable opportunities offered, the soundings over the Sand-heads and inwards from the mouth, as well as examinations of various points of importance between the straits and New Westminster, were proceeded with. These soundings and examinations on account of the uncertain weather, fishing nets, and other fortuitous circumstances are often hindered, and entail continuous, arduous and often tedious work in reducing them to the plane of reference.

The result of the soundings taken along the front of Westham Island showed plainly that at several points, where cutting appeared most severe and where protection by mattresses had been attempted, the effort had not been entirely successful owing to the non-continuity, or disconnected necessarily so, character of the

operations.

Notwithstanding this discouragement, and as this seemed to be the only locality where it appeared of use to attempt anything with so small an appropriation, work was resumed in February, 1896, on Westham Island, and 29 mattresses were sunk as

Measured along the bank, the distance covered is about 800 feet.

The cost of making or sinking these mattresses, equal to a total of about 150,-800 cubic feet of closely packed brush, including an allowance for the use of the plant, was found to be \$224.77 each.

Besides the above work, several points in and about Garry Point were made

good and strengthened.

The actual amount expended on the work described above out of the appropriation is in detail as follows:-

Quarrying and delivering rock :-

Wages	£1 468	83	
Towing.	161		
Material	355	• •	
Making and sinking mattresses :-		\$1,985	46
Wasses	**		
Wages	\$2,678	47	
Towing	931	00	
Material	529	05	
Miscellaneous, including coal, office expenditure and repairs to scows, &c., &c.			
and repairs to scows, &c., &c	283	74	
		 4,42 2	26
Total		0C 407	70

The board account shows a credit of \$118.20.

The present value of the plant on hand, including 6 scows of various sizes, pile driver complete with hoisting engine, &c., wharf, steam derrick, dump cars, &c., &c., the original cost of which was \$11,554.38, is, after deducting certain percentages for dilapidation and wear and tear, \$7,869.21. The whole is in a serviceable state.

The equipment of the boarding department originally cost \$394.89; its present

value is \$283.60.

The following is a list and valuation of the materials on hand on 30th June last:—

Nuts and washers 800 lbs. at 8 cts	8 61	00
Galvanized wire 5,500 lbs. at 31.3 cts		
Piles 3,500 feet at 5 cts	175	00
Steel 400 lbs. at 17 cts	68	00
Provisions	15	00
Powder	157	25
A control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the cont	\$ 662	40

It is incumbent to again draw attention to the futility of continuing this work without larger, and the assurance of continuous appropriations. The attempt to regulate such a river as the Fraser, and protect the banks from erosion in such a disconnected manner as has prevailed hitherto, cannot but result in disappointment and discredit to all concerned. The work done at Westham Island has arrested to some extent the encroachment of the river in places, but the past work is gradually becoming of no effect. There is no telling what change in the direction and depth of the channel may result from this. The only possible cure is uninterrupted protection, whereby the bank is rendered unassailable from the point where the current first impinges on the island at the lower end of Woodward's Slough to the Rock Wharf. If this is done, and the jetty beyond is carried seaward, the bar, which is gradually building down stream parallel with Westham Island and thrusting the current against its friable bank, will aid in obtaining a deeper and stable channel through the cross-over bar extending diagonally from the south side at the mouth to the north side at the Windsor Canner.

This question of bank protection is a most important one and should, at least so it appears, take precedence of all works in the Fraser. Make the banks inside the mouth capable of resisting erosion and the stable deep channel will undoubtedly

follow.

It appears possible to induce the owners of property contiguous to the river bank to agree to contribute something towards the protection of their property. Already Messrs. Findlay, Durham and Brodie, whose cannery on Dease's Island, situated 9 miles below New Westminster, was almost totally swept away during the 1894 freshet, are prepared to deposit \$5,000.00 to the credit of the Receiver General if the Government will do the work in conjunction with the government work proper. Opposite Dease's Island, the river bank is now cutting from Ewen's Cannery, 4 miles above, and a considerable quantity of valuable land has been destroyed.

Another question has arisen in connection with the regulation of this river. The flood channel along the south side of Lulu Island, is gradually shoaling at the uppper end, owing to the rapid formation of the bar. The owners of canneries at this point are naturally anxious to avert the danger threatening the navigation to their wharfs, and propose that a certain quantity of the river water should be diverted in this direction to keep the channel clear. This can be done by building a dam in a proper direction and protecting the bank of Lulu Island at various

points.

The freshet this year was late. The spring opened early, but the weather kept cool. The highest point reached was on the 6th July, four feet lower than that reached at the Mission Bridge, above New Westminster, in 1894. At New Westminster the highest point reached being 2 feet 3 inches below the 1894 mark. Notwithstanding this a good deal of damage was done in the vicinity of Chilliwhack, Sumas, Nicomen Island and Matsqui. At the latter place, just below the Mission Bridge, the dyke gave way.

Uncertainty concerning time and extent of the freshets cannot be entirely mitigated, but undoubtedly much benefit would result if bench marks and gauges

were established on the Upper Fraser and Thompson as near as possible to telegraph stations in connection with the meteorological stations. The state of the river and weather should be telegraphed daily to the coast, and it would doubtless be possible from these reports to form some idea as to the extent and time of the threatening danger, and warn the occupiers of land liable to overflow, so that they might have time, if they thought fit, to remove their goods and cattle to a place of safety. Doubtless after a few years of careful observation, the time at which to expect a certain rise of water could be predicted with tolerable accuracy. The benefit of this cannot be over estimated.

KOOTENAY RIVER.

The Kootenay River takes its rise in the heart of the Rocky Mountains a little north of the 51st parallel, 16½ miles south-east of Leancoil, a station on the line of the Canadian Pacific Railway. It flows for some distance in a south-easterly direction, and then, changing to the south-west, it passes within a mile and a half of the head-waters of the Columbia River. At Canal Flat it again changes direction, and pursues generally a direction a little east of south to the international boundary line, which it crosses at Tobacco Plains, about 6 miles west to the 115th meridian. The Kootenay enters Canada again at Bedlington about about 20 miles east of the 117th meridian. Thence flowing a northerly course it enlarges into the Kootenay Lake, 72 miles in length, 28 miles by river from the boundary line. The outlet of the lake is on the west side about 30 miles north of the inlet, whence it flows in a south-westerly direction. direction, joining the Columbia River about 21 miles to the north of the boundary

It may be safely stated that throughout its entire course the Kootenay traverses a country rich in minerals of all kinds, but particularly so in gold and silver.

Kootenay River above Fort Steele.

The expenditure in connection with the improvement of this river amounted only to \$1,293.05, as per the following details:

Wages Materials	183	
Inspection	250	00
Total	\$ 1,293	05

The work consisted in removing snags, cutting overhanging trees, cutting away timber jams and drift piles, and in blasting projecting points of rocks and boulders at bends which made navigation perilous between Mud Creek, 4 miles below Canal

Flat, and a point 15 miles further down stream.

The steamer "Gwendoline" made frequent trips between Mud Creek and Fort Steele, about 50 miles, carrying large freights which otherwise would have had to have have been hauled by wagon the whole distance.

OKANAGAN RIVER.

The portion of the Okanagan River now under reference is that which connects Okanagan Lake with Dog Lake, lying to the south of the former. On the former lake, which is upward of sixty miles long, a large stern-wheel steamer belonging to the Canadian Pacific Railway plies, connecting at Vernon, situated at the upper end of the lake, with the Shuswap and Okanagan branch of that line. At Penticton, situated at the lower end of Okanagan Lake, it is the proposition to connect with a small steamer plying by way of the Okanagan River and Dog Lake to Okanagan Falls, in the vicinity of which rich mineral deposits are said to exist,

The distance between the lakes, by way of the river is about five and a half miles, while in a straight line it is only about three miles. The upper portion of the river is very narrow, gradually widening out and becoming shallower, for about half its length, when it widens and deepens to Dog Lake. It is not possible to make the river navigable for steamers of from one hundred and thirty to one hundred and fifty feet long, except at considerable outlay.

During the fiscal year 1895-96, the sum of \$327.35 was expended in the removal

of snags and other obstructions from the channel.

SKEENA RIVER.

The Skeena River lies in the north-western section of the western portion of British Columbia. It derives its source from lakes and glaciers situated between the 56th and 57th parallels of north latitude and between the 126th and 128th degrees of west longitude. It flows generally in a south-westerly direction and empties into the waters of the Pacific Ocean by way of North Skeena, Telegraph, and Mallaca Passages, Chatham Sound, &c., at a point a little north of the 54th parallel of north latitude, and a few miles west of the 130th degree of west longitude, and about 650 miles, by the inner passage, north-west of Victoria. The principal post office and port on the Skeena is Port Essington, lying on the south shore of the estuary, at the confluence of the Skeena and Oxtall Rivers, 13 miles east or inland of the entrance passages. It is navigable by light draught steamers, when the water is not too high, from May to the end of September, as far up as Hazelton, a Hudson's Bay Company post, established on the south bank at a distance of about 173 miles from the mouth of the river. This post is the distributing point for the mining and grazing country lying to the north and west towards the Rocky Mountains and Peace River country, and to some distance to the south.

The appropriation made for its improvement was expended chiefly in ameliorating the condition of the salmon fishing grounds in the tidal waters of the estuary which extend inland from the mouth about 25 miles, by removing from the bars and channels, sunken snags and drift, which, replenished yearly by the freshets,

prove destructive to the drift nets.

The work was carried on before active fishing commenced in June, 1895, and earlier this year, April and May, in response to the urgent request of the cannery owners. In all 72 snags, representing the most destructive were removed. This was a creditable showing, considering the smallness of the amount available for the works, a large part of which was necessarily consumed in preparing the plant for work, and in laying it up.

The details of this expenditure are :-

(2)	Wages Tug hire Materials	775	31
	Total	\$ 1,996	81

Of the latter amount, \$329.81 for materials, \$250.00 was paid for lumber purchased the previous year for building a shelter house for the men working at Sepkew, removing rocks during the winter months.

There are at present in active operation on the Skeena River eight salmon canneries employing about 300 boats and nets. These boats are manned by two men each, making a total force of 600 men. The annual license fee is \$10 per boat, representing from this source alone a yearly revenue of \$3,000. In 1895, the total pack was 67,797 cases, which at \$5 a case, the average market price in London, England, aggregates \$338,785.00.

The removal of snags having consumed the whole of the appropriation, the work of improving navigation in the upper reaches of the river above tide water was not resumed. It may be mentioned, that here there are two or three points above the Kitsilas Caffon which have lately, owing to changes in the direction of the cur-

rent, developed as dangers to navigation. These points, together with a little addi-

tional inexpensive work in the canon, should receive attention.

The Skeena River appears at present to be the natural highway by which freight and passengers can be most conveniently transported to the rich mining district of the northern and north-eastern portion of the province, and to the Peace River country, and for this reason expenditure with the object of securing safe navigation is justifiable.

VICTORIA INNER HARBOUR.

The work of lowering by drilling, blasting and dredging, the obstruction known as Dredger Rock, situated in the Middle Basin inside of Shoal Point, Victoria Harbour, to a depth of 14 feet at mean low water springs was continued until the appropriation was expended.

The following is a tabulated statement in which each item of work, with the

cost thereof is classified:

(1) D.::::

	Total	• • • • • • •	· • • •	\$4 ,984 23
(5)	Superintendence	\$692 356		1,048 88
(4)	Laying up:— Wages	\$2 25	64	225 64
	Cost per ton 65 cents.			. 502 30
	Wages paid, including time consumed in drilling and blasting high points Material used, including cost of water, fuel, explosives, &c., &c	\$74 3 20 8		- 952 36
	Total1,466			
(3)	Dredging :— 76,200 Fuel consumed pounds			1,228 77
	Materials used, including cost water, fuel and 1,411 lbs 75 p. c. Giant powder	666	85	1 998 77
(2)	Blasting:— Blasts	\$5 61	92	
	Cost per lin. ft \$1.05			₩1,020 00
	Holes	\$1,260 268		\$1,52 8 5 8
(1)	Drilling:—			

The cost of removing this rock—not including the clay—is, according to the above figures, about \$4.80 per ton, or \$11.04 per cubic yard. The rock may be classed as diorite, with small stringers or dykes of quartz and other mineral dispersed through it. Its specific gravity is assumed to be about that of granite, that is 2.72, therefore a cubic yard will weigh about 2.3 tons of 2,000 lbs.

DREDGING OPERATIONS.

During the fiscal year, dredging was done at the following named places:—

Nova Scotia.

Cheticamp,

Fourchu.

Ketch Harbour,

Pictou,

Wallace.

New Brunswick.

Canada Eastern Railway Wharf, Fredericton. Dominion Atlantic Railway Co's Wharf St. John. Fredericton, Miramichi River, Oromocto, Pointe du Chêne, Restigouche River,

Richiboucto.

Prince Edward Island.

Cardigan Bridge,

Charlottetown,

Newport,

Souris.

Quebec.

River St. Lawrence, Ship Channel between Montreal and Quebec.

Chateauguay, Dorval, Longueuil,

Louiseville,

Ile de Gros Bois, Nicolet,

Laprairie,

St. Placide.

Ontario.

Amherstburgh, Belle River, Fort Erie, Midland, Port Hope,

Frenchman's Bay, Newcastle,

Prescott, River Thames, Thornbury, Belleville, Kincardine, Penetanguishene, River Kaministiquia, Bowmanville, Meaford, Port Elgin, River Saugeen,

Trenton.

Manitoba.

Red River.

British Columbia.

Victoria Harbour.

PROVINCE OF NOVA SCOTIA.

DREDGING AT CHETICAMP.

Cheticamp is a settlement in Inverness County, 58 miles north of Mabou, with a population of about 1,900, several stores, telegraph and express offices, church and school buildings, &c. The harbour between Cheticamp island and the, mainland, is entered from the north-east through a dredged channel eighty feet wide having fourteen feet at low water between the shingle spit at Cape Cross on the north-east extremity of the island and Caveau Point. There is good anchorage for the largest vessels inside. There are several what is and a government pier in the harbour. A steamer plies between Cheticamp and Pictou, and a large trade is done at the former place. 102

Further dredging was done in the channel during the fiscal year 1895-96, by the dredge "Canada" from the 13th August to 28th September, 1895, removing 13,140 cubic yards of sand, gravel and stone and leaving a depth of 14 feet at low water spring tides.

DREDGING AT FOURCHU HARBOUR.

Fourchu Harbour or inlet, Richmond County, is on the north side of Fourchu head and in the bay between that and Cape Gabarus, called Fourchu Bay. This bay affords no shelter and is dangerous of approach. To the westward are many rocks and shoals. The inlet has a bar at its entrance, nearly dry at low water, and only affords shelter to boats.

The village contains about 200 inhabitants, principally engaged in fishing; it about 40 miles east north-east from St. Peters, contains 2 stores, a saw-mill, lobs-

ter factories and express office.

The dredge "Geo. McKenzie" was ordered here to cut through the bar and deepen the channel in the inlet to 7 feet at low water spring tides. It arrived on the 21st July and got to work with as little delay as possible. The material dredged was mud and sand, and 13,230 cubic yards were removed by 4th October, when the dredge was ordered into winter quarters, to be in readiness to resume and complete the work in the following season.

There was much delay in the spring in resuming work on account of bad weather, and absence of the tug ordered to attend, and but one scow load was dredged when

the dredge was ordered to Wallace on the 19th June, 1896.

Total removed at Fourchu, 13,275 cubic yards.

DREDGING AT KETCH HARBOUR,

Ketch Harbour, in Halifax County, is a narrow arm of the sea about one mile long; its entrance is 2 miles south-west of Chebucto Head and 16 miles from Halifax.

The shores of the harbour are occupied by the houses and stages of fishermen,

and the population is about 100.

Over the bar at the entrance there were 9 feet of water. At the head of the

harbour there is a fine stream, the outlet of several lakes.

From 1st to 6th July the dredge "Geo. McKenzie" was operating in deepening the channel and at the wharf. 1,238 cubic yards, sand and rock were removed and a depth of 11 feet at low water spring tides left.

DREDGING AT PICTOU.

The harbour of Pictou is one of the finest on the southern shore of the Gulf of St. Lawrence, eastward of Gaspé. The town of Pictou is of considerable importance and has a population of about 3.500.

During the fiscal year ended 30th June, 1896, dredging was done at various

points in the harbour as follows:-

At C. Dwyer's Wharf, the "Canada" which commenced work in the previous fiscal year, worked until the 3rd August, 1895, and removed a further quantity of 5,850 cubic yards of mud, leaving a depth of 14 feet at low water spring tides. This work was undertaken to provide free access to the wharf and a berth for the steamer "Campania" plying between Picton and Montreal. The same dredge worked for two days at Messrs. C. Dwyer & Co.'s Wharf and removed 360 cubic yards of mud, etc., leaving a depth of 14 feet at low water springs. This dredge worked also at Abercrombie Point, which is at the mouth of the East River of Pictou, in order to improve the approach to the landing place for small vessels and tugs, removing 1,800 cubic yards of mud, and leaving a depth of 6 feet at low water spring tides. At

McKenzie's Point, on the East River, about $2\frac{1}{4}$ miles from Pictou and nearly opposite Abercombie Point, is a landing place for small vessels at high water. The "Canada" operated here from 28th May to 3rd June, and removed 450 cubic yards of mud and shells, leaving a depth of 9 feet at low water springs. The same dredge worked 3 days at the Steam Ferry Company's Wharf and removed 720 cubic yards of mud, leaving a depth of 10 feet of water. The ferry boat plies between the town of Pictou and Pictou Railway Landing, points $1\frac{1}{2}$ miles distant one from the other on opposite side of the basin.

DREDGING AT WALLACE.

Wallace, Cumberland County, is a seaport on Northumberland Strait. Wallace Harbour is the finest on this coast excepting Pictou. There are some 16 feet of water over its bar at low water. Spring tides rise 8 feet, thus enabling vessels of large draught to enter; neaps rise 5 feet.

Opposite the town of Wallace the harbour is over ½ mile wide, but the channel between the flats is only some 60 or 70 yards wide with 5 to 6 fathoms of water. There are some 12 stores, mills, factories, ship building and extensive quarries of

limestone, freestone and gypsum in the vicinity.

The population numbers about 400.

During the fiscal year 1895-96, the dredge "Geo. McKenzie" was sent here and was at work at the close of the year. There was considerable delay after her arrival and by the 30th June, but 315 cubic yards of mud had been removed, depth left 7 feet at low water spring tides.

PROVINCE OF NEW BRUNSWICK.

DREDGING AT CANADA EASTERN RAILWAY WHARF.

This wharf, on the St. John River, N.B., opposite Fredericton, is the terminus there of the Canada Eastern Railway, a line which runs thence to Chatham, N.B., a distance of about 116 miles. It is of great local importance and a feeder to the Intercolonial and Canadian Pacific Railway systems.

The wharf is situate in the village of Gibson, a prosperous and growing settlement of about 350 inhabitants, with stores, mills, an hotel, express and Telegraph offices. It is connected with Fredericton by a fine bridge over the St. John River. The dredge "New Dominion" operated here from 4th to 14th August improving

and deepening at the wharf and approach thereto.

3,250 cubic yards, principally clay and saw dust, were removed, leaving a depth of 11 feet, making a channel 200 feet long by 65 feet wide.

DREDGING AT DOMINION ATLANTIC BAILWAY COMPANY'S WHARF, ST. JOHN, N.B.

This wharf, formerly called the "long wharf," one of the best and most advantageously situated in the harbour of St. John, N.B., has lately been greatly improved, and its importance very largely increased, not alone by repairs and additions and further facilities for shipping and transferring, but by its becoming the pier of the Dominion Atlantic Railway Company's steamer and being rail tracked to connect with the Canadian Pacific Railway and Intercolonial Railway systems.

Dredging was undertaken to improve the depth of water and make greater

berth and turning facilities alongside this wharf.

The work was commenced 7th October, and was vigorously prosecuted until 21st December, 1895, when 15,525 cubic yards of mud and clay were removed, leaving the depth 10 feet at low water spring tides for a distance of 270 feet along the eastern side.

DREDGING AT FREDERICTON.

Fredericton, on the St. John River, in York County, is the capital of the province of New Brunswick. It is 67 miles from St. John, and the river is navigable

to this point 84 miles for sea-going vessels.

The city is well laid out, has many fine buildings and is a notably pretty and pleasing one and of growing importance; the population is about 7,000. There are many flourishing industries and the city is a shipping and forwarding point of consideral The river channel in front of the city has had the attention of the

department at various times and dredging has been done to deepen and improve it.

During the fiscal year 1895-96, the "New Dominion" worked here from 19th
July to 3rd August and 15th August to 28th September, 1895, during which time 14,925 cubic yards of sand were removed from the channel, leaving a depth of 11

feet at low water spring tides summer level.

DREDGING AT HORSE SHOE SHOAL AND OUTER BAR, MIRAMICHI RIVER.

The River Miramichi, one of the most important of Canadian rivers, is in the province of New Brunswick, and is in length about 220 miles. From Sheldrake Island, where the river proper commences, the country is generally undulating, increasing the country is generally undulating, increasing the country is generally so fact in height, and increasing to steep banks and cliffs of sandstone, occasionally 50 feet in height, and the settlements increase in number and extent, becoming continuous on either side;

Steam saw-mills, factories, public buildings and handsome residences are numerous. The soil seems sufficiently fertile for almost every agricultural purpose, lumbering, fishing and farming are the principal industries and are extensively carried on; the river abounds with fish in great variety. The branches and tributaries of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of t aries of the river are important. The principal towns are Chatham, Newcastle, Nelson and Douglas. The river is navigable for large vessels three miles above Newcastle, about 35 miles from its mouth; and for schooners up to the splendid bridges of the Intercolonial Railway, which cross the south-west and north-west

At Miramichi bar, spring tides rise 5 feet, neaps 3 feet. This bar extends across the main entrance of the river. It consists of sand and has not more than two feet over it in some parts at low spring tides. Its south-east end is the deepest part called the swash way where about 16 feet is found. Heavy gales alter the deposition

of this bar, the ship channel also shifts and the depth varies. The Horse-shoe shoal of sand and gravel is of great extent, it is farther within the estuary of the river above Portage and Fox Islands and its least water is 3 feet. The inner bay of Miramichi is extensive, extending from Fox Island to Sheldrake Island, at what may be called the true entrance of the river, a distance of 13 miles and by a what may be called the true entrance of the river, a distance of 13 miles and 7 to 8 miles in width. The depth of water here is sufficient for the largest Vessels that can enter over the inner bar, being 24 fathoms at low water.

The middle ground, an extensive sandy bank, stretches toward the centre of the estuary for 5 miles from Point Cheval. The ship channel is between this middle ground and the north shore of the bay, along which runs Grand Dune Shoal.

Further up the river on the north side opposite Black Brook is Gordon Flats, a triangular shaped obstruction.

The work of the department on the Miramichi in making and improving a navigable course over these bars has been extensive and it may be said continuous,

and will be required regularly at intervals.

During the fiscal year 1895-96, the dredge "St. Lawrence" operated on the Horse-shoe and outer bar shoals from 3rd to 30th August, alternately as weather and circumstances best suited. From the Horse-shoe 11,200 cubic yards of sand and from the Horse-shoe 11,200 cubic yards of sand and from the outer bar 2,810 cub. yards of sand were removed in that time, the depth left being 21 feet.

DREDGING AT OROMOCTO SHOALS.

The Oromocto River runs into the St. John River about 11 miles below Fredericton, at the village of Oromocto, in Sunbury County. The village has a population of about 400. It is a calling place for the river steamers and other craft, and considerable agricultural produce is shipped from it.

The Oromocto Shoals in the immediate vicinity lie between Thatch and Oromocto islands with, at times, but 8 feet of water on them, and are an obstruction to

havigation.

During the fiscal year 1895-96 the dredge "New Dominion" was engaged in the continuation of the work of deepening these shoals, across the foot of Thatch Island, where 3,300 cubic yards of sand and clay were removed from 1st to 18th of July, and a depth of 9 feet left at low water summer level, which enables the river steamers to cross from the main channel to the Oromocto wharf to land passengers, freight, &c.

DREDGING AT POINT DU CHÊNE.

Point du Chêne, in Westmoreland County, on the Strait of Northumberland, is the north-east terminus of the Intercolonial Railway (Shediac Branch), and is about 109 miles from the city of St. John. There are at this place long piers for shipping

with range lights, also range lights on Shediac Island.

The population of the place is about 200, with several stores, two or three hotels, telegraph and express offices, and it is becoming known as a summer resort. The steamers of the Prince Edward Island Steam Navigation Company ply between this port and Summerside, Prince Edward Island, while navigation is open, and connect with the trains of the Intercolonial and Prince Edward Island Railways. The harbour is the easiest of access or egress on this part of the coast, and the country surrounding is fertile and well settled.

At the beginning of the fiscal year the dredge "St. Lawrence" was further prosecuting the work of improving the channel of the harbour from Chêne Spit into and along the wharfs by dredging to 15 feet at low water spring tides. Operations were suspended 31st July, and the dredge left under orders for the Miramichi River, New Brunswick. A further quantity of 12,635 cubic yards, principally clay, shells,

mud, old timber and boulders was removed.

DREDGING AT THE TRAVERSE, RESTIGOUCHE RIVER.

The Restigouche River forms a part of the northern boundary of New Brunswick, separating it from the province of Quebec. This important river is about 225 miles in length and the width at the mouth of its estuary is about 3 miles, varying for the first 17 miles inward from 3 to $1\frac{1}{2}$ miles. There are 9 fathoms of water in the estuary which is navigable for the largest ships, but at Indian Point a mile above Campbellton the navigation for shipping ends. At the towns of Dalhousie and Campbellton, where many vessels load annually with timber, there are fine wharfs and timber ponds for this purpose. A large trade is done also in preserved lobsters, salmon, etc.

Below Campbellton, towards Oak Point, there is a shallow part of the river channel over which there is not more than 13 or 14 feet at low water, but the tide which rises 6 to 9 feet enables vessels of moderate draught to ascend to Campbellton where they can moor in 3 to 3½ fathoms at low water. This part of the river is called the Traverse and at this point the dredge "St. Lawrence" has at different

times operated.

During the past year it was at work from the 4th to 28th September, 1895, deepening over the shoal channel and straightening it, and 11,060 cubic yards of sand, mud, trees and stumps were removed, leaving a depth at low water of 16 feet. The work was not completed when the dredge was ordered to Pictou for the winter.

After wintering and repair the dredge returned to the Traverse, and work was resumed on the 14th May, and by the 30th June, a further quantity of 22,400 cubic yards of material was removed, making a total for the year of 33,460 cubic yards.

DREDGING AT RICHIBUCTO.

The Richibucto River, which flows through Kent County is one of the most important of the New Brunswick rivers either in its navigable distance or the depth of water over the bar, and is annually visited by a considerable number of vessels for cargoes of timber. The entrance of the river is about 31 cables wide between two sand bars called the north and south beaches, on which are sand hills 30 feet high. Within the entrance there is a large expanse which nearly dries at low water, excepting the channel of the river. This channel varies from 3 to 9 fathoms, and Vessels that can pass the bar can go up the river 13 miles, while boats can ascend 22 miles. There are flourishing settlements on the banks of the Richibucto, the population being engaged in agriculture, lumbering and ship building. Richibucto, three miles within the entrance, is the capital of the county and a port of entry, it is about 146 miles from St. John, has a large trade in lumber, fish, etc., and a population of about 1,600, and is one of the finest summer resorts in the maritime provinces.

The bar of the Richibucto is dangerous and is subject to changes; the depth of water over it is 11 feet at low water, and 15 feet at high water, ordinary spring tides. The width of the channel is from 80 to 100 yards, and a large amount of dredging

has been done in it.

During 1895-96 the dredge "Canada" operated in the Albion channel of the river from 6th to 30th June, and had by that time removed 1,800 cubic yards of sand, the work being still in progress at the end of the fiscal year.

PROVINCE OF PRINCE EDWARD ISLAND.

DREDGING AT CARDIGAN BRIDGE.

Cardigan Bridge is a post village in King's County, on the Cardigan River, which is navigable to that place for large vessels. It is also a station of the Prince Edward Island Railway, 40 miles east from Charlottetown, and 6 miles west from Georgetown and is a shipping place for the produce of a large extent of the sur-Georgetown, and is a shipping place for the produce of a large extent of the surrounding country. There are six stores, two hotels, saw and grist mills, etc., etc., and a population of about 700.

The dredge "Prince Edward" during the year completed the work undertaken at Cardigan, by removing a further quantity of 12,330 cubic yards of material, improving the channel of the river and approaches to the wharfs, leaving a depth

of 12 feet at low water spring tides.

DREDGING AT CHARLOTTETOWN.

Charlottetown, the capital of Prince Edward Island, is in Queen's County, and is situated on a neck of land between the North and Hillsborough rivers.

During the fiscal year 1895-96, the dredge "Prince Edward" operated at the following places in the harbour of Charlottown: At the Queen Street Slip, the property of the city, where 3,915 cubic yards of mud, etc., were removed, leaving a depth of from 15 feet at the entrance to 8 feet at the inner portion; at Messrs. Peake Bros. and Company's Wharf, the dredge removed 6,847 cubic yards of mud etc.; and depth of from 18 to 8 feet was left, while at the wharf owned by Mr. Geo, Peake, 5,805 cubic yards of material were removed and a depth of water of from 18 to 9 feet left.

DREDGING AT NEWPORT OR NORTH CARDIGAN.

A village on the Cardigan River adjacent to Cardigan Bridge, King's County, Prince Edward Island, and a shipping point for a considerable district. The dredge "Prince Edward" improved the channel and wharf approach by dredging from 2nd to 20th August, removing 3,240 cubic yards of clay and stone and deepening to 10 feet at low water spring tides.

DREDGING AT SOURIS.

Souris, a seaport town in King's County, is situated on the Souris River, and is 60 miles from Charlottetown by the Prince Edward Island Railway, of which it is the eastern deep water terminus.

It contains some 25 stores, custom-house, post office, 4 hotels, telegraph and telephone offices, etc. The harbour is commodious but artificial, being formed by a 'breakwater. The natural harbour formed by Souris River is at Souris West, but too

small for refuge to the tonnage frequenting the place.

Souris is an important fishing station and the rendezvous of American and Canadian fishing fleets, at times 200 vessels being reported at once. The place is a first, class resort for summer tourists, and for fishing, shooting and bathing. The population is about 850.

During the season of 1895 the dredge "Prince Edward" worked in this harbour from 26th August to 4th October deepening at the railway wharf, slip and approach to the same, to 18 feet, except towards the shore end of the wharf which

graded to 14 feet.

The entire cut was 480 feet long, 99 feet wide for 299 feet and 55 feet wide for the balance. The material removed was sand, hard clay and boulders, and amounted to 3,825 cubic yards.

CLASSIFICATION of Disbursements of the Dredge "St. Lawrence" during the Year ending 30th June, 1896.

Grand Totals.	s cts.	3,922 71 1,314 53	790 98 619 37 268 38	34 95 1,455 69 434 12	179 00 70 93	99 060'6	6,917 42 659 13 1,514 11	99 060'6
Јипе.	s cts.		277 09 96 70 121 45	634 91 78 00		2,143 48	1,508 57 634 91	2,143 48
May.	♣ cts.	465 86	5 78	125 16 39 00	15 15	650 95	525 79	650 95
.lirqA	es cts.	189 69		419 80	11 00	620 49	620 49	620 49
March.	e cts.	137 85		251 60	2.76	392 21	392 21	392 21
February.	s cts.	137 69	1 70			139 39	. 139 39	139 39
January.	e cts.	182 33	42 75		11 78	236 86	236 86	236 86
December.	s cts.	199 08				199 08	199 08	199 08
Мочетрег.	e cts.	324 33	0 65		10 00	334 98	334 98	334 98
October.	s cts.	278 72		60 62	10 04	367 85	367 85	367 85
September.	es cts.	507 17 192 85		20 25 20 75 75 75	2 00	877 75	869 20 8 55	877 75
August.	e cts.	508 33 609 68		10 00		1,410 19	1,410 19	1,410 19
.Մոև	cts.	86 88 88 88	233 25 510 35 104 18	19 95 15 67 78 50	179 00 8 20	1,717 43	1,701 76	1,717 43
Items.		Wages	Provisions Stores Equipment	Water Repairs Pilotage	Towage. Wharfage. Contingencies.	Totals	Working expenses Repairs, ordinary do extraordinary	Totals

Department of Public Works.

A. 1897

CLASSIFICATION of Disbursements of the Dredge "Canada" during the Year ending 30th June, 1896.

Grand Totals.	e cts.	3,344 71 592 81	573 67 180 06	230 4 50 50	1,581 18 332 50	426 50 41 40	7,237 99	4,861 49 590 68 1,785 82	7,237 99
June.	e cts.		179 37 163 38			7 73	1,722 08	1,181 77 540 31	1,722 08
May.	e cts.	351 17			8 8 8 8		405 39	376 17 5 77 23 45	405 39
.firqA	e cts.	254 40			293 00		547 40	547 40	547 40
Мятср.	e cts.	196 26			593 15		789 41	789 41	789 41
February.	s cts.	172 33			48 95		221 28	221 28	221 28
January.	ets.	172 33			31 95		204 28	204 28	204 28
December.	e cts.	212 72					212 72	212 72	212 72
Лочетрег.	& cts.	172 33					172 33	172 33	172 33
Осторет.	e cts.	194 07	5 50			8 45	210 00	210 00	210 00
September.	ee cts.	419 99	130 19		20 00		600 18	600 18	600 18
August.	s cts.	381 87	212 40		44 8 8 8		749 92	705 32 44 60	749 92
. Վոյծ.	s cts.	420 33	20° 20° 20° 20° 20° 20° 20° 20° 20° 20°	154 88	67 50	426 50 25 22	1,403 00	1,403 00	1,403 00
Items.		Wages	Provisions	Equipment Water	Repairs Pilotage	Towage. Wharfage. Contingencies.	Totals	Working expenses Repairs, ordinary do extraordinary	Totals

Grand Totals.	& cts.	5,963 72 301 93	117 22 196 92 203 80 1.553 43	1,275 00 50 00 6 92	9,668 94	5,135 75 219 33 4,313 86	9,668 94
June,	e cts.	1,451 88	60 876		2,399 97	153 06 2,246 91	2,399 97
May.	s cts.	910 88	41 50		952 38	952 38	952 38
.li ₁ qA	& cts.	155 00			155 00	155 00	155 00
March.	es cts.	155 00	122 72		277 72	277.72	277 72
February.	s cts.	152 50	66		253 49	253 49	253 49
January.	es cts.	157 50		6 92	164 42	6 92	164 42
D есешрег.	e cts.	466 99 41 06	37 40 203 80 22 02		771 27	752 25 19 02	771 27
Лочетрег.	es cts.	508 97 72 00	83		664 62	580 97	664 62
Осторег.	& cts.	512 22 41 25	28 23	120 00 50 00	938 64	751 70 18 75 168 19	938 64
September.	& cts.	491 25 30 12	16.00	360 00	897 37	881 37 16 00	897 37
.August,	es cts.	497 75 112 50	00 08	405 00	1,035 25	1,015 25 20 00	1,035 25
July.	e cts.	503 78 5 00	79 82 168 69 11 52	390 00	1,158 81	1,147 29 11 52	1,158 81
Items.		Wages. Coal	rrovisions Stores Equipment Water Renairs	Pilotage. Towage. Wharfage Contingencies.	Totals	Working expenses Repairs, ordinary	Totals

CLASSIFICATION of Disbursements of the Dredge "Prince Edward" during the Year ending 30th June, 1896.

Grand Totals.	\$ cts. 4,155 01 136 85		7,756 11 538 08 1,023 50	9,317 69
June.	\$ cts.	28 30 166 04 53 05 324 49	1,127 53 803 04 309 82 14 67	1,127 53
May.	\$ cts.	37 50 2 00	645 58 499 64 145 94	645 58
.lirqA	\$ cts.	15 25	170 25	170 25
March.	\$ cts.		155 00	155 00
Рергиягу.	\$ cts.		152 50	152 50
January.	\$ cts.	00 00	117 50	117 50
December.	\$ cts.	7 50	231 64 54 49 177 15	231 64
Иочетрег.	\$ cts.	25 00 90 49 23 00 1,010 00	1,363 49	1,363 49
Осторет.	\$ cts,	32 38 18 00 102 00	462 70	402 70
September.	531 25 23 00	12 43 16 00 10 00 8 00 5 00	634 68 624 68 10 00	634 68
August.	\$ css. 537 75 113 85	156 99 46 50 218 26 15 00 2,070 00 26 00	3,189 35 2,971 09 218 26	3,189 35
.ջլու	\$ cts.	95 39 239 71 46 50	1,127 47	1,127 47
Items.	Wages.	Frovisions. Stores Equipment Water Repairs Pilotage Towage Wharfage	Totals. Working expenses Repairs, ordinary do extraordinary	Totals

CLASS	CLASSIFICATION O	•	Disbursements of the Dredge "Geo. McKenzie" during the Year ended 30th June, 1896.	s of the	, egpe.rQ	Geo. Me	Kenzie"	during	the Year	ended 3	Oth June	9, 1896.	
Items.	July.	August,	September.	October.	Мочетрег.	D есешрет.	January.	February.	Матећ.	.lirqA	May.	June,	Grand Total.
	es cts.	e cts.	s cts.	es cts.	es cts.	ets.	& cts.	& cts.	e cts.	e cts.	es cts.	e cts.	es cts.
Wages	497 75 128 38	520 18	491 25 57 1	249 91 74 55	124 18	100 00	157 50	152 50	171 25	171 25	417 94	495 50 25 50	3,549 21 286 61
Frovisions Stores. Equipment Water Repairs.	124 36 34 38 32 50 124 74		128 79 55 00	3 75				88	365 99	52 03	5 20 10 00 100 89	11 02 121 29 7 50 3 35	140 58 302 61 162 50 735 53
Pilotage. Towage. Wharfage.	495 07			782 10	119 00							400 00	2,305 17
Contingencies	26 55	30 04	732 22	1,117 57	243 1	100 00	157 50	241 03	537 24	223 28	571 16	1,064 16	
Working expenses Repairs, ordinary do extraordinary	1,329 99 1	1,196 12	732 22	1,117 57	243 18	100 00	157 50	241 03	537 24	223 28	470 27	1,060 81	6,150 16 128 09 1,359 94
Totals	1,454 73	1,196 12	732 22	1,117 57	243 18	100 00	157 50	241 03	537 24	223 2.	571 16	1,064 16	7,638 19

CLASSIFICATION and Quantities of Material removed by Dredges during the Year ended 30th June, 1896.

	Grand Totals.	c. yds.	545 60	22,400 1,400 6,600 14,000 10,150	60,105		
	June.	c. yds.		nco fat	15,050		
	.ysM	c. yds.		oge",	7,350		
	.lirqA	c. yds.					
	March.	c. yds.					
	February.	c. yds.					
ENCE."	Vanuary.	c. yds.					
"ST. LAWRENCE."	Бесетрет.	c. yds.				"CANADA."	
83	Иочетрег.	c. yds.) "	
	.тэфото	c. yds.					
	September.	c. yds.	545 15	4,950	11,060		
	August.	c. yds.	10	14,000	14,010		
	July.	c. yds.	: %	1,400	12,635		
	Description of Material dredged.		Trees, stumps and old timber. Boulders, Sand, mud and rotten	Clay Mud Mud Sand—ordinary Mud, oyster bed, etc.	Totals		Hard-nan

Hard-pan					:	:	•		: :			:			
Boulders					:	-	:	:	:		:	:			
ravel	:	1,890	1,980		:	:		:	:	:		:		:	3,870
one			:	:	:			:	:- :	:		:			
Sand—ordinary 2,430 5,400		2,430	5,400					: :			: 			1,800	9,63
Sand and stone 5.670	5.670	1,440			: :			: :	<u></u>		: :	: :	1.350	1.350	
Totals	5,670	1.	7,380										1,350	-	67

ag								_			
asaw-dust. 2,275 dinary 2,275 clay fine 4,275 clay 6,600 als 6,600 and rock 8,300	092						-	:	: :		750
saw-Just. 2,275 dinary 4,275 clay 6,600 als 6,600 and rock 390	00										1,200
and rock	50 6,325	3,025	8,125	4,375							2,050 13,150 4,275 15,525
and rock		3,025	8,125	4,375		:					37,000
and rock			"PRIN	"PRINCE EDWARD."	ARD."						
180	92.58										S 88 8
1 Clay and stone 4,140 500	90 1,935 90 1,305								: : : 6	8008	1,180 4,425 7,645
6,840									6,300	8,965	22,105
Totals4,185	3,240					:			7,200	9,765	36,360
			GRO	"GEO, McKENZIE."	ZIE."						
Class and stone 1,238 4,558 Sand and inud 720 2,520	5,220	315								360	1,238 4,455 9,135
Totals 1,958 6,975	5,220	315			:					360	14,828

 $9-8\frac{1}{2}$

DETAILS of Dredging in the Maritime Provinces

						N	ew Bru	ınsw	ick.	
Dredge.	Locality.		Co	ounty.	Quant cul Yard).	Cost eac Wor	h	Total Cos	st.
					c. ye	ls.	*	cts.	\$ (ets.
'St. Lawrence"	Pointe du Chêne	chi	North	do	11, 2,	635 200 810 460		53 80		
"Canada"	C. Dwyer's wharf "Campa berth, Pictou	na's "	Pictou.			•	5,594		10,048	97
	Dwyer & Co.'s wharf, Pic Steam Ferry Co.'s slip Cheticamp East River Richibucto	tou	do do Invern Pictou	ess				• • • •	615	
"New Dominion"		wharf	Sunbur York . do .	r y	3, 14,	300 925 250	953 4,311	27		
"Prince Edward"	St. John		St. Jol			5 2 5	4,484		10,688	
	Newport. Souris. Chl'town, Geo. Peakes wl do Peake Bros. & C do Queen St. City s do Poole's wharf.	harf Co	do . do Queen do do	· · · · · · · · · · · · · · · · · · ·						
"Geo. McKenzie".	Ketch Harbour Fourchu Harbour Wallace		Richm	ond						
		,			98,	905	21,35	2 63	21,352	63
I	Dredge.		New B	runswick:			No	va Se	cotia.	
		Qua	ntity.	Cost.		Qu	antity.		Cost.	
"St. Lawrence"		l	yds. 60,105	\$ 10,04	cts.	c.	yds.		\$	cts
" Canada"		i	1,800 37,000		5 46		21,60	00	7,385	52
"Geo McKenzie"		I		21,35	0.00		36,42	-	8,443 15,828	

for the Year ended 30th June, 1895.

Quantity cub. Vards. Cost of each work. Total Cost. Quantity cub. Yards. Cost of each work. Total Cost. Total Cost. Total Cost. Dredge. Expenditure. c yds. \$ cts. \$ cts. <t< th=""><th></th><th>Nova Scotia</th><th></th><th>Pı</th><th>ince Edward I</th><th>sland.</th><th>Quantity</th><th></th></t<>		Nova Scotia		Pı	ince Edward I	sland.	Quantity	
5,850 2,000 22 360 122 09 720 123 09 131,140 4,492 88 1,530 523 15 7,385 52 23,400 8,000 96 23,240 13,140 4,492 88 1,530 523 15 7,385 52 23,400 917 82 3,3240 917 82 3,3240 917 82 3,3240 13,240 13,240 14,942 88 15,805 1,644 42 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044 14,044	cub.	each	Total Cost.	cub.	each	Total Cost.	by each	
5,850 2,000 22 360 123 09 720 1246 18 13,140 4,492 88 1,530 523 15 7,385 52 23,400 8,000 96 23,400 10,688 26 26 26 27,000 26 27,000 27,000 10,688 26 27,000 27,000 10,688 26 27,000 27,000 10,688 26 27,000 27,000 10,688 26 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 27,00	c yds.	\$ cts.	\$ cts	c. yds.	\$ cts.	\$ cts.	c. yds.	\$ ets.
5,850	••••							
5,850				. ,				
360	••••						60,105	10,048 97
390	5,850	2.000.99						
13,140		123 09						•••••
1,530		246 18						
7,385 52 23,400 8,000 98 7,385 52 23,400 8,000 98 37,000 10,688 26 12,330 3,492 80 37,000 10,688 26 3,240 917 82 3,825 1,83 53 52 58 6,840 1,937 61 58 1,238 704 94 7,559 06 7,559 06 7,559 06 7,559 06 7,559 06 7,559 06 7,559 06 7,559 06 7,559 06 7,559 06 7,559 06 7,559 06 7,559 06 7,559 06 7,559 06 7,559 06 7,559 06 7,559 06 7,559 06 7,559 06 7,559 06 7,559 06 7,559 06 7,559 06 7,559 06 7,559 06 7,559 06 7,559 06 7,559 06 7,559 06 7,559 06 7,559 06 7,559 06 7,559 06 7,559 06 7,559 06 7,559 06 7,559 06 7,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07,559 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07,559 07		4,492 88						
12,330 3,492 80 37,000 10,688 26 32,240 917 82 3,825 1,983 53 1,983 53 1,983 53 1,983 53 1,983 53 1,983 51 1,937 61 1,937 61 1,937 61 1,937 61 1,937 61 1,937 61 1,937 61 1,937 61 1,937 61 1,937 61 1,937 61 1,937 61 1,937 61 1,937 61 1,937 61 1,937 61 1,937 61 1,937 61 1,937 61 1,937 61 1,937 61 1,937 61 1,939 93 36,360 10,299 93 36,360 10,299 93 36,360 10,299 93 36,360 10,299 93 171,693 47,481 40 1,937 61 1,937 61 1,938 61 1,938 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1,939 61 1			7,385 52					8,000 98
12,330 3,492 80 3,240 917 82 3,825 1,983 53 1,983 53 1,983 53 1,983 53 1,983 53 1,983 53 1,983 53 1,983 53 1,983 53 1,983 53 1,983 53 1,983 53 1,983 53 1,983 53 1,983 53 1,999 93 36,360 10,299 93 1,238 7,04 94 1,375 7,559 06 1,472 10,299 93 36,360 10,299 93 1,228 8,443 37 14,828 8,443 37 14,828 8,443 37	••••			. j				
12,330 3,492 80 37,000 10,688 26 3,240 917 82 3,825 1,835 53 5,805 1,644 42 5,805 1,644 42 5,805 1,937 61 5,805 1,109 03 114 72 10,299 93 36,360 10,299 93 13,275 7,539 06 315 179 37 8,443 37 14,828 8,443 37 36,428 15,828 89 15,828 89 36,360 10,299 93 10,299 93 171,693 47,481 40	• • • • • • • • • • • • • • • • • • • •	•••••••						
3,240 917 82 3,825 1,683 53 5,805 1,644 42 5,840 1,937 61 3,915 1,109 03 405 114 72 10,299 93 36,360 10,299 93 13,275 7,559 06 315 179 37 8,443 37 14,828 8,443 37 14,828 8,443 37 36,428 15,828 89 15,828 89 36,360 10,299 93 10,299 93 171,693 47,481 49 Prince Edward Island.	•••••	*********					37,000	10,688 20
3,240 917 82 3,825 1,683 53 5,805 1,644 42 5,840 1,937 61 3,915 1,109 03 405 114 72 10,299 93 36,360 10,299 93 13,275 7,559 06 315 179 37 8,443 37 14,828 8,443 37 14,828 8,443 37 36,428 15,828 89 15,828 89 36,360 10,299 93 10,299 93 171,693 47,481 49 Prince Edward Island.	•••••			19 33	3 409 80			
3,825	••••			3.24	917 82			
Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost Cost				3,82	5 1,083 53			
1,238 704 94 13,275 7,559 06 179 37 8,443 37 14,828 8,443 37 14,828 8,443 37 36,428 15,828 89 15,828 89 36,360 10,299 93 10,299 93 171,693 47,481 49	• • • • • • • • • • • • • • • • • • • •	*******						
1,238 704 94 7,539 06 179 37 8,443 37 14,828 8,443 37 14,828 8,443 37 36,428 15,828 89 15,828 89 36,360 10,299 93 10,299 93 171,693 47,481 40	••••							
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Cost. Dredging. ence. Expenditure. per c. yard. c. yds. \$ cts. \$ cts. \$ cts. Cts. 60,105 9,090 66 958 31 10,048 97 0 16 715 23,400 7,237 99 762 99 8,000 93 0 34 195 36,360 10,299 93 36,360 9,317 69 982 24 10,299 93 0 28 88 14,828 7,638 19 805 18 8,443 37 0 56 94	Prince I	dward Islan	d.		T3	g		G. A
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EXPENDITURE for Dredging in Nova Scotia for the Twenty-four Years ended 30th June, 1896.

County.			ended 30th June, 1895		l	ror the rear 1030-30.		Total	Total Contract	Cost for each
	Locality.	Quantity.	Cost.	Cost for County.	Quantity.	Cost.	Cost for County.	Quantity.	Local Cost.	County.
		c. yds.	es cts.	e cts.	c. yds.	\$ cts.	s cts.	c. yds.	e cts.	e cts.
Antigonish A	Antigonish	22,025	3,649 15			:		22,025	3,649 15	
	Harbour au Bouche.	10,568	2,498 48	:			:	10,568	2,498 48	
Z	McNair's Cove	11,265	10,035 68					11,265	10,035 68	
<u>aŭ</u> ∙	Bayfield	12,871	9,505 79		:		: : : : : : : : : : : : : : : : : : : :	12,871	9,505 79	000
Annonolis A.	Arisaig	8,540 8,540 8,540	3,853 30	35,072 69	:		:	3,540 9,855	3,853 4,635 685 68	35,072 69 1 635 68
	Lingan	22,267	9.275 56	T,000 00				22,267	9,275 56	7,000
	Sydney	54,600	17,781 54		:		:	54,600	•17,781 54	
18	Little Glace Bay	46,450	16,936 02				:	46,450	16,936 02	
.,	Port Caledonia	17,413	8,242 21 7,993 90		:	:		20,860	5,242,21	
<u>5</u>	Christmas Island	19,045	3,364 98					19,045	3,364 98	
<u>ප</u>	Cow Bay	3,255	1,892 32					3,255	1,892 32	
	Main à Dieu	4,680	2,720 76	66,207 29	:			4,680	2,720 76	66,207 29
:	Latamagouche	65,480	20,373 07	20,373 07	:			65,480	20,373 07	20,373 07
Cumberland Fa	Karraboro	42,030 60 835	12,804 05	97 378 17	315	179 37	179 37	61,150	14,752.86	27,557,54
Digby	with the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of t	12,585	5,056 29	1 000				12,585	5,056 29	
	Weymouth	88	28 62	5,084 91			:	88	28 62	5,084 91
Guysboro' Gu	Guysboro'	5,400	1,413 53		:		:	5,400		
70	Larry's Kiver	26,230	1 740 78		:		:	3,539		
- 5	Sherbrooke	1,260	496 49	10.206 50				1,260		10,206 50
Halifax	Chezzetcook.	3,920	2,593 71					3,920		
H	Halifax Ferry	6,177	2,063 38					6,177		
Ħ.	Herring Cove	26,101	12,049 68			707 02	107 02	26,101		•
* 0	etch Harbour	2,989		:	1,238	10,434	70,434	792,4		
34	Richmond Whari	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	20 20 20 20 20 20 20		:			1.750		
	Halifax Railway Terminus.	19,290						19,290		
Je		21,515	4,958 56	:			:	21,515	4,958 56	
Ž	North-west Arm	7,350		:		:	:	7,350		
<u>5</u>	Cunard's whart.	1,400	500 04	:::::::::::::::::::::::::::::::::::::::			:::::::::::::::::::::::::::::::::::::::	14 288		

44,870 71	107,803 75 33,228 75		143,948 72 4,762 38	60,117 21 20,676 48 56,788 01 1,637 60 1,569 95 762 98
59,77 1,388 1,384 3,49] 872 190 190 190 49,126	1,258 92 22,194 57 5,958 65 5,075 53 4,093 81	2, 181 25 4, 181 25 1, 684 43 1, 684 82 2, 687 04 2, 689 34 2, 680 01 2, 682 15 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2	11,739 4,884 40 672 72 2,000 22 123 09 10,052 76 27,455 95 5,570 49 4,468 87 36 53	2,566 14 7,559 06 10,591 41 10,085 07 56,788 01 1,627 60 1,569 95 762 98
2,070 2,070 4,815 19,760 4,940 270 170,740	21,844 11,610 12,310	144,9475 144,640 1,650 1,782,870 1,3845 1,3945 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1,395 1	6,547 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,647 6,	10,080 13,275 34,048 24,580 160,952 5,450 3,820
4,492 8×			2,892 64	90 622,7
4,492 88		52,315 246 18	2,000 22 123 09	7,559 06
13,140		1,530	5,850 360	13,275
44,165 77	103,310 87 33,228 75		141,056 08	52,558 15 20,676 48 56,788 01 1,627 60 1,569 95 762 98
3,070 7.2 596 97 1,38 4 61 3,491 31 872 83 190 37 48,370 52 49,1% 99	22,1258 5,958 5,075 4,093	2,181 47,173 359 1,634 2,958 2,958 22,283 10,707		2,566 14 10,591 41 10,085 07 56,788 01 1,569 95 762 98
2,070 2,070 4,815 19,760 4,940 270 157,600	70,510 21,844 11,610 12,319	142,877 1,650 1,650 7,020 7,020 7,020 7,325 7,345 1,335 1,335 85,110 25,110	7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7	10,080 34,048 24,580 164,952 5,450 3,820 1,896,118
	wharf	wharf. arf ab do do do ry Slip.	for SS.	A
Spry Bay Eastern Passage Sambre Whycocomagh Campbell's Fond Port Hastings.	Fort Hood. Lunenburg. Mahone Bay. Vogler's Cove. Acadia Coal Co. wh	Albion Mines East River Halifax Coal Co. whaf Pictou Public wharf. do Market wharf. do Railway do do Landing do do Steam Ferry Sli. River John Granton	New Glasgow. Middle River. C. Dwyer's wharf. do berth "Campana". Dwyer & Co.'s what Liverpool. Dr. E-couse. St. Peter's Canal St. Peter's Canal St. Peter's Canal Kreef Burgeois. Kreef Burgeois. Marine Sline	Avarine Sup. Poulement Fourchu Harbour. Lockeport Barrington. Yarnouth Windsor Aspey Bay
Inverness	LunenburgI		Richmond I	ShelburneI FramouthI HantsVictoriaVbredgeC.BA LossesA

EXPENDITURE for Dredging in New Brunswick for the Twenty-four Years ended 30th June, 1896.

Č	H	For the ended	For the Twenty-three Years ended 30th June, 1895.	e Years 1895.	For t	For the Year 1895-96.	5-96.	Total	Total Cost.	Cost for each
Conucs	LOCALLY.	Quantity.	Cost.	Cost for County.	Quantity.	Cost.	Cost for County.	Quantity.		County.
		c. yds.	s cts.	& cts.	c. yds.	ee cts.	ets.	c. yds.	· ets.	ee cts.
Gloucester.	Bathurst	98,637	29,095 79	29,095 79	- -	:		98,637	29,095 79	29,095 79
Kent	Richibucto. Coorgine Buctouche do Priest's Point. do Chapel Point. do Robertson's wharf.	101,048 27,180 13,005 3,510 4,140	34,940 07 9,601 45 4,934 24 1,110 70 1,310 07	51,910 76	1,800	615 46	615 46	102,848 27,180 13,005 3,510 4,140	35,555 53 9,601 45 4,934 24 1,110 70 1,310 07 1,310 23	52,526 22
King's	Bellisle Point Kennebecasis River. Moss Glen	60,170 116,270 10,200	8,156 76 20,081 83 1,924 47	30,163 06				60,170 116,270 10,200	8,156 76 20,081 83 1,924 47	30,163 06
Northumberland.	Northumberland, Horse Shoe, Miramichi Outer Bar do Grand Dune do Gordon Flats do	197,692 27,125 37,975 22,425	53,185 83 7,495 51 10,121 67 4,403 95	75,206 96	11,200	1,872 53 469 80	2,342,33	208,892 29,935 37,975 22,425	55,058 36 7,965 31 10,121 67 4,403 95	77,549 29
Queen's	Grand Lake do McMami's Cove. Jenneg Wasahademoak Grinnoss Mid-ground Gagetown Creek	93,555 20,440 61,305 48,975 12,040 6,965	16,372 96 4,522 82 12,117 74 6,340 83 3,274 99 1,894 52	44,523 86				93,555 20,440 61,305 48,975 12,040 6,965	16,372 96 4,522 82 12,117 74 6,340 83 3,274 99 1,894 52	44,523 86
Restigouche	Dalhousie Traverse	22,301 29,400	6,543 08 9,008 64	15,551 72	33,460	5,594 19	5,594 19	22,301 62,860	6,543 08 14,602 83	21,145 91
St. John	I. C. R. Terminus. Navy Island. Marble Cove Murray's Mills. Indiantown wharf. Long wharf.	139,810 25,294 26,925 23,880 1,615 7,137 7,513	37,130 01 9,296 79 4,374 40 3,411 65 192 83 2,680 24 3,247 29					139,810 25,294 28,925 28,925 1,615 7,137 7,513	37,130 01 9,296 79 4,374 40 3,441 65 192 83 2,680 24 3,247 29	

-	67,930 35	55,775 79	27,599 90		26,138 58	432,448 75
1,090 42 942 29 52 90	4,484 72	55,775 79	27,599 90	12,010 54 6,827 36 4,379 52 435 22 1,547 12		432,448 75
9,275 8,015 450	4,695 15,525	287,873	92,925	54,320 15,570 30,395 1,600	3,250	1,830,940
	4,484 72	953 27	2,112 45		5,250 21	21,352 63
	4,484 72	953 27	2,112 45	14,925 4,311 39	938 82	21,352 63
	15,525	3,300	12,635	14,925	3,250	98,905
:	63,445 63	54,822 52	25,487 45		30,000,0z	411,096 12
1,090 42 942 29 52 90 996 81		54,822 52	25,487 45	7,699 15 6,827 36 4,379 52 435 22 1,547 12		411,096 12
9,275 8,015 450 4,695		284,573	80,290	39,395 11,570 30,395 1,600 8,200		1,732,035
Miller & Woodman's	Sunbury Oromocto	Westmoreland Point du Chêne	York. Fredericton St. Mary's Ferry Gibson Nashwaak	Fisher's and Chestnut Shoals. Canadian Eastern Ry. wharf.		

NATATER FOR Dredwing in Prince Edward Island for the Twenty-four Years ended 30th June, 1896.

	:	Total for the	Fwenty-three th June, 189	Total for the Twenty-three Years ended 30th June, 1895.	For	For the Year 1895-96.	5-96.	. Total	Total Cost	ರ
County.	Locality.	Quantity.	Cost.	Cost for County.	Quantity.	Cost.	Cost for County.	Quantity.	1000	County.
		c. yds.	es cts.	s cts.	c. yds.	S cts.	e cts.	c. yds.	e cts.	es cts.
King's	Grand River Montague River Murray Harbour South Sturgeon St. Mary's wharf. Georgetown Railway wharf. Cardigan Bridge Newport.	76,170 132,480 99,453 16,026 21,963 1,002 23,635	15,304 04 22,819 11 17,638 73 6,066 27 4,752 55 4,782 55 5,126 56	72,115 58	12.330 3.240 3.825	3,492 80 917 82 1,083 53	5,494 15	76,170 132,480 99,453 16,026 21,963 1,963 3,240 3,825	15,304 04 22,819 11 17,638 73 6,066 27 4,752 55 4,08 32 8,419 36 917 82 1,083 53	77,609 73
s qaaango 22	Charlottetown R'y, wharf do Ferry do Steam Nav. Co do Connolly's wh't. do Peake Bros. do do Queen St. Silp.	54,618 14,193 4,045 7,668 5,343 5,355	15,003 50 2,963 50 670 61 4,904 15 3,417 17 3,424 85		6,840 3,915 805	1,937 61 1,109 03 1,644 42		54,618 14,193 14,045 7,668 12,195 19,195 87,915	15,003 50 2,963 50 670 61 4,904 15 3,417 17 5,362 46 1,109 03 1,644 42	
	do Goles wharf- do Poole's wharf- Crapaud Pownal Bay Rocky Point Vernon River	· :	27,493 03 6,536 20 13,426 13 6,326 72 6,326 72		405	114 72	4,805 78	88, 88, 405 88, 88, 610 17, 860	27, 493 03 6,536 20 13,426 13 6,326 72 548 00	
	Wood Islands Nine Mile Greek Hickey's wharf. Carr's Point Pinette. Port Augustus. Southoort Ferry Red Point	31,650 31,650 750 12,165 3,825 3,195 33,016 7,161	2,441 28 6.286 46 1.50 51 2,441 28 631 68 5,528 75 3,879 60					31,650 12,165 13,185 33,195 15,161	6,284 150 84 150 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175 84 175	
	North Rustico	13,536	4,775 38 4,109 67					11,649	4,775 38	

	33,953 08	237,947 52
8,013 37 7,289 95 13,005 45 538 42		959,796 237,947 52 237,947 52
29,396 41,070 11,387	16,740	962'626
		10,299 93 10,299 93
	33,953 08	
		36,360
	33,953 08	227,647 59
8,013 37 7,289 95 13,005 45	າບູ	923,436 227,647 59 227,647 59
29,336 41,070 11,387		923,436
rince Summerside Hurd's Point pier Tignish	Cape Traverse	ı
Prince		

r rovinces.	Total Cost. Cost for each	County.	ee cts.	2,634 97 825 47 3,997 59	7,458 03		
Marionne	Total Cost.		eta.	2,392 92 242 05 825 47 3,997 59	7,458 03		
priations	Total	Quantity.	es cts.	6,800 495 2,587 8,123	18,005		
rom Appro	5-96.	Cost for County.	ee cts.				
in Quebec for the Twenty-four Lears ended 30th June, 1836, from Appropriations martinude revenues.	For the Year 1895-96.	Cost.	cts.				
ed 30th Ju		Quantity.	s cts. c. yds.				
Years end	Years ended 5.	Cost Quantity.		2,634 97 825 47 3,997 59	7,458 03		
vonty-four	Twenty-three	Total for the Twenty-three Years ended 30th June, 1895. Quantity. Cost for County.	e cts.	2,392 92 242 05 825 47 3,997 59	7,458 03		
for the Tv	Total for the	Quantity.	c. yds.	6,800 495 2,587 8,123	18,005		
redging in Quebec	+11000 F	LANCALLLY.		House Harbour. Amherst Harbour River du Loup Rimouski			
Expenditure for Dredging	Č	County.	Wandalan Talanda O	Gaspé Ahouse Harbour. Temiscouata River du Loup. Rimouski Rimouski			

STATEMENT of Dredging, showing Quantities removed in each Province, and cost of each Work for the Twenty-four Years ended 30th June, 1896.

,	NEW BR	w Brunswick.	Nova	Nova Scotia.	Sur.	Диквкс.	Prince Isl.	PRINCE EDWARD ISLAND.	Total	Total Expendi	Cost
Fiscal Year.	Quantity.	Cost.	Quantity.	Cost.	Quantity.	Cost.	Quantity.	Cost.	Quantity.		Yard.
	c. yds.	es cts.	c. yds.	& cts.	c. yds.	s cts.	c. yds.	se cts.	es cts.	e cts.	e cts.
879-73	38.060		23,260	8,422 70			:		61,320		0 35 328
873-74	57,725		18,600	6,545 61	008'9	2,392 92			83,125		
1874-75	78,223	17,325 05	21,416	13,238 83	:		18,655	9,892 89	121,294	40,456 77	0 55 354
1875-76	23,830		91,9/4 197,795	21,880 90	:		74 460		26, 66		
1876-77	020,18		106.857	29,670 94			82,860		270,787		
1878.79	132,555		116,307	28,267 59			46,490		295,352		
1879-80	63,540		127,684	34,765 84	765	374 08	36,390		228,379		
1890-81	44,315		87,118	23,061 64	2,317		46,335		180,085		
1881-82	79,640		89,566	33,363 71	:		47,325		216,531		
882-83	48,565		143,616	42,996 93	:::::::::::::::::::::::::::::::::::::::		68,535		260,716		
1883-84	47,058		157,560	49,050 58	2 193	2 000 50	79,750		204,300		
884-85	120,937 69 505		707	21,489,05	6,160	6,000	17,137		142,432		
000-00	69,55		53,400	25.621 19			6,137		128,977		
887-88	50,152		84,175	29,847 60	:		3,775		138,102		
888-89	63,633		56,910	32,697 00	-		24,240		144,783		
1889-90	890,98		59,783	22 821 55	:		31,422		177,273		
1890-91	96,588		61,698	24,386 57	::		19,04		177,290		
891-92	75,023		81,993	27,376 08	:		31,382		188,398		
809-93	108,035		40,834	18,125 58	:		66,585		215,454		
893-94	77,505		59,581	28,664 99	:	:::::::::::::::::::::::::::::::::::::::	61,536		198,622		
894-95	59,715		105,463	32,202 70	:		- 48,060		213,238		
895-96	98,902		36,428	15,828 80		:	36,360		171,693		
		000	100	100000	1 2 3	30	010	02 270 200	10000	1 900 919 90	0 97.095

Statement of Drodging, showing Quantities removed by Hand in each Province, and cost of each Drodging for the Twenty-four Years ended 30th June, 1896.

TIA. QUEBEC. PRINCE EDWARD Total Cost Total Rypandi. Def Cubic	ture.	\$ cts. c. yds. \$ cts. c. yds. \$ cts. \$ cts.	555 13 2 45 555 13 2 8 058 3,666 90 12,370 3,666 90 0 29 064 2,550 25 10,640 2,560 25 0 22 098 2,500 00 8,130 2,500 00 0 32 098 2,500 00 5,460 2,500 00 0 30 052 14,432 28 0 30 003 0 45 078
Nova Scotia.	Quantity. Cos	c. yds.	245 555 11,370 3,666 11,1140 2,560 10,640 2,550 5,460 2,500 10,640 2,500 10,640 2,500 10,500 11,449
NEW BRUNSWICK.	Cost.	es cts.	
	Fiscal rear. Quantity.	c. yds.	1879-79 1879-80 1880-81 1881-82 1882-83 1883-84

STATEMENT of Dredging in the Maritime Provinces, showing quantities removed by and expenditure of each dredge during the Twenty-four Years ended 30th June, 1896.

Drodge	Total qua Twer ended	Total quantities and cost for Twenty-three Years ended 30th June, 1895.	cost for sars 1895.		1895-96.		Tots	Total for Twenty-four Years ended 30th June, 1896.	-four 1896.
- Windows	Total Quantity.	Cost.	Per cubic yard.	Quantity.	Cost.	Per cubic yard.	Total Quantity.	Total Cost. Cost per cubic yard	Cost per cubic yard.
	c. yds.	\$ cts.	e cts.	c. yds.	& cts.	e cts.	c. yds.	e cts.	s cts.
"St. Lawrence". "Canada".	915,719 663,199	283,957 20 224,400 16	0.31.00	60,105 23,400	10,048 97 8.000 98	0 16 719	975,824 686.599	294,006 17 232,401 14	0 30 129
"New Dominion"	982,928	187,199 23	0 19:04	37,000	10,688 20	0 28 887	1,019,928	197,887 43	0 19 402
"Cape Breton".	534,938	224,292 63 139,074 33	0 22 44	36,360	10,299 93	0 28 328	953,886	234,592 56 139,074 33	0 24 : 593
"Geo. McKenzie".	499,137	195,310 70	0 39.12	14,828	8,443 37	0 56 943	513,965	203,754 07	0 39.643
Totals	4,513,447	4,513,447 1,234,234 25	0 27 28	171,693	47,481 45	0 27 655	• 4,685,140 1,301,715 70	1,301,715 70	0 27 784

Statement of Dredging performed by hand in the Maritime Provinces showing quantities removed and expenditure at each locality for Twenty-four Years ended 30th June, 1896.

	Total q Tw endin	Total quantities and cost for Twenty-three Years ending 30th June, 1895.	cost for ears		1895-96.		Tot	Total for Twenty-four Years ended 30th June, 1896.	four 1896.
Locality.	Total Quantity.	Cost.	Per Quantity.	Quantity.	Cost.	Per Total cubic yard.	Total Quantity.	Cost.	Cost per cubic yard.
	c. yds.	cts.	\$ cts.	c. yds.	& cts.	& cts.	c. yds.	e cts.	s cts.
Parrsboro, N.S.	42,595	12,804 68 1,627 60	0 30 06				42,595 5,450	12,804 68 1,627 60	0 30.06
Totals	48,045	14,432 28	0 30.08				48,045	14,432 28	0 30.03

PROVINCE OF QUEBEC.

SHIP CHANNEL, RIVER ST. LAWRENCE, BETWEEN MONTREAL AND QUEBEC.

The continuation of the dredging operations on the ship channel between Montreal and Quebec was carried on at the following places during the fiscal year 1895-96, viz.: Molson's Shoal, Hochelaga, Maisonneuve, Longueuil, Pointe aux Trembles, Varennes, Contrecœur, Nicolet and Lotbinière.

Molson's Shoal.

Dredge No. 8 was engaged at work on this shoal between the 13th August and 14th October, 1895, during which period it removed 17,800 cubic yards of stones and gravel at a cost of \$10,935.39, or 61.43 cents per cubic yard.

Hochelaga.

On the close of the work on Molson's Shoal, dredge No. 8 was taken to Hochelaga, dredging there, from the 15th to the 26th October, 1895. The quantity of material removed was 7,280 cubic yards of stones and gravel, at a cost of \$2,334.52, or 32.06 cents per cubic yard.

Maisonneuve.

The widening and cleaning up of the Maisonneuve channel was commenced by dredge No. 11, on the 28th August, and continued till the 11th October, 1895. It removed 15,697 cubic yards of hard pan and stones, at a cost of \$4,386.85, or 27.94 cents per cubic yard.

Longueuil.

Dredge No. 8 was moved from Hochelaga to Longueuil, where it worked from the 28th October to the 19th November, 1895, and from 25th May, 1896, to the close of the fiscal year. During this time 3,000 cuoic yards of sand and gravel were removed at a cost of \$1,720.18, or 47.78 cents per cubic yard.

Pointe aux Trembles.

At this place dredge No. 11 was at work from 12th October to 30th November, 1895, and from the 28th May to the 30th June, 1896, the work in hand being the further deepening of the channel to 28 feet 6 inches at lowest water. 44,065 cubic yards of hard pan and clay were removed at a cost of \$7,573.84, or 17.88 cents per cubic yard.

Dredge No. 12 was also engaged at this part of the channel between the 17th October and 9th November, 1895, and from the 12th May to 30th June, 1896. It removed 31,080 cubic yards of clay and gravel at a cost of \$5,050.41, or 16.25 cents

per cubic yard.

Varennes.

At the beginning of the fiscal year, dredge No. 11 continued widening the bend at Cap St. Michel, Varennes channel, where it worked until the 27th August, 1895,

and removed 69,930 cubic yards of clay and sand at a cost of \$5,511.63, or 7.89 cents

per cubic yard.

On August 28th, dredge No. 12 was put to work at this point and continued dredging till the 24th September, 1895, removing 97,050 cubic yards of clay and stones at a cost of \$6,944.31, or 7.15 cents per cubic yard.

Contrecœur.

The continuation of the deepening of the Bell mouth of the Contrecœur Channel at St. Ours, to 29 feet at low water, was commenced by dredge No. 8 on the 1st July, and was continued until the 9th August, 1895, when it completed the work. The quantity removed was 46,280 cubic yards of clay and stones at a cost of \$4,177.57, or 9.03 cents per cubic yard.

At the begining of the fiscal year, dredge No. 12 resumed the work, commenced in 1894, of cleaning up and widening the Contreceur channel, and completed the work on the 27th August, 1895, 52,800 cubic yards of clay and gravel being removed

at a cost of \$6,313.00, or 11.95 cents per cubic yard.

Nicolet.

After completing the work at Varennes, dredge No. 12 was taken to Nicolet, where it worked from September 27th to October 16th, 1895, cleaning up the channel at the Force shoal. The quantity of clay and boulders removed was 4,050 cubic yards, at a cost of \$2,146.43, or 52.99 cents per cubic yard.

Lotbinière.

The further deepening of the north half of the Ship Channel at Barre & Boulard was commenced by the dredge "Laval" on 1st July, 1895, and continued till the end of the fiscal year. The quantity removed, consisting of stones embedded in hardpan, and large boulders, was 48,010 cubic yards, and the cost \$22,317.82, or 46.48 cents per cubic yard.

ABSTRACT of work done, in deepening the Ship Channel in the St. Lawrence

	Locality		me of vice.			Dred machin mot	lging ery in ion.	in	ntity Dred cubic ya measuren	rds.
Vessels.	of Dredging.	Days.	Total days.	Hours.	Total hours.	Hours.	Total hours.	Earth.	Rock.	Total.
Dredge Laval	Lotbinière	157	157	1,570	1,570	948	948		48,010	48,010
Dredge No. 8	Contrecœur	34				296 3		46,280		46,280
do	Molson's Shoal	89			 .	617 3			17,800	
do	Hochelaga Ferry	19				162			7,280	
do	Longueuil do	14	156	1,560	1,560	1143	1,191‡		3,600	28,680
Dredge No. 11	Varennes	49			· • • • •	418		69,930	ļ	
do .∴	Maisonneuve	39		ļ		3234		• • • • • • • • •	15,697	15,697
do	Pointe aux Trem- bles	70	158	1,580	1,580	548	1, 2 89‡	44,065	ļ.	113,995
Dredge No. 12	Contrecœur	50				4011		52,800		
do	Varennes	55				4861		97,050		
_ do	Nicolet	17				741		4,050	1	
d o	Pointe aux Trembles	40	162	1,620	1,620	2934	1,255 <u>‡</u>	31,080	•	184,980
		633	633	6,330	6,330	4,6833	4,6834	345,255	92,387	437,642

River, between Montreal and Quebec, for Fiscal Year ended 30th June, 1896.

		Quant	ity dredg	ed, in	cubic y	ards, in e	ach local	ity.	
Character of soil.	Lotbinière.	Contreceur.	Molson's Shoal.	Hochelaga Ferry.	Longueuil Ferry.	Varennes.	Maison- neuve.	Pointe sux Trembles.	Nicolet.
Hard-pan, stones and boulders.	48,010					 			
Clay and stones		46,280							/
Mostly all stones									
All stones				7,280	1			1	
do	}			l	3,600		,		
Clay and sand				1		69,930			
Hard-pan and stones					1				
do		ļ .						44,065	
Clay and gravel		52,800							
do stones	1	1		1				1	
do boulders									4,050
do gravel								31,080	
	48,010	99,080	17,800	7,280	3,600	166,980	15,697	75,145	4,050

STATEMENT showing Classification of Cost of Dredging on the Ship Channel, River

Names of Vessels and Locality of Dredging.	Fuel.	Wages.	Board.	Stores and Ma- terials.	Rebuild- ing and Repairs.		Proportion of General Expenses.	Proportion of Salaries and Official Expenses.
Dredge Laval, Lotbi- nière	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Dredge No. 8	1,748 75	3,125 68	892 87	992 01	,		1,908 80	1,268 90
Contrecœur		·				. ,		
Molson's Shoal								
Hochelaga Ferry				<u> </u>				
Longueuil do			! 					
Dredge No. 11	(2,641 20	905 72	1	[]		1,769 78	1,176 49
Varennes				1 1. 				
Maisonneuve								
Pointe aux Trembles								
Dredge No. 12	2,235 50	3,038 94	983 50	496 39	3,539 06		1,976 59	1,313 94
Contrecœur	1							
Varennes								
Nicolet			ĺ					
Pointe aux Trembles						 		·
Stone Lifter No. 1	5 60	397 25	25 00	31 06			87 96	58 47
do No. 2	1	531 62	65 00	122 62	225 56		191 87	127 53
Tug "John Pratt"	1	1 1,824 12	723 47	299 67	245 50		818 08	543 83
do "St. James"		510 99		. 133 62		!	123 69	82 21
do "Cartier"		1,506 65	536 88	263 31	303 51		606 99	403 5
do "St. Francis"		1,305 95	441 17	136 79	703 57		684 95	455 37
do "M. F. Parsons"		1,170 62	460 49	135 12	348 68		644 44	428 47
do "C. J. Brydges".	1	1,373 95	1	163 79	279 91		693 83	461 2
•						. *		
New Dredge Plant.				1				
New Dredge	1		i t	1		23,400 27		1
do iron tug						8,767 24		
200 yards scows					-	5,513 49		
	12,952 80	21,617 00			13,639 46	37,681 00	11,598 00	7,710 0

St. Lawrence, between Montreal and Quebec, for Fiscal Year ended 30th June, 1896.

Total Cost	Stone Lifter Service.	Tug Service.	Total Cost of Dredge and Plant.	No. of Work- ing Days.	Hours of Actual Work.	Cost of Working Expenses at each Locality.	Number of Cubic Yards Dredged at each Locality	per	Character of Soil.
\$ cts.	\$ ets.	\$ ets.	\$ cts.			\$ cts.		cts.	
	1,318 95	6,627 90	22,317 82	157	948	22,317 82	48,010	46 _{1%}	 Hard-pan, stones and boulders.
13,117 71	•••••	6,049 94	19,167 65						bourders.
********				34	296 3	4,176 57	46,280	9_{100}^{03}	Clay and stones.
*********	• • • • • • • •			89	6173	10,935 39	17,800	61,43	Mostly all stones.
• • • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·			19	162	2,334 52	7,280	32_{100}^{06}	All stones.
10.105				14	1143	1,720 18	3,600	47 78 0	do
12,162 91	•••••	5,609 47	17,772 38						
*******	· · · · · · · · ·			49	418	5,511 68	69,930	7 89	Clay and sand.
••••				39	3231	4,386 85	15,697	27 100	Hardpan and stones.
10.5				70	548	7,873 84	44,065	$17\frac{86}{100}$	do
13,583 92	605 34	6,264 89	20,454 15						
• · · · · ·				50	401½	6,313 00	52,800	11200	Clay and gravel.
** ** ***.		,		55	4864	6,944 31	97,050	7 ₁ 48	do stones.
*********			·}	17	741	2,146 43	4,050	521%	do boulders.
**********	· · · · · · · · · · · · · · · · · · ·			40	2931	5,050 41	31,080	16,25	do gravel.
605 34									
1,318 95									
5,622 87		}							
850 51	}		·				ļ		
4,172 09			•						
4,707 40							i.		
4,429 82				.]					
4,769 51		l							
23,400 27									
8,767 24									
5,513 49									
117,393 00		24,552 20	79,712 00	633	-	79,712 00	437,642		- r

DREDGING AT CHATEAUGUAY.

Chateauguay Basin, is at the mouth of the Chateauguay River, 5 miles from

Caughnawaga, and 14 miles south-west of Montreal.

The dredge "St. Louis" worked here from the 15th until the 31st July, and from the 26th of August until the 16th of September, 1895. It made one cut of 210 feet long, alongside the steamboat wharf, and one cut of 190 feet long, running from above cut, outwards to the boat channel. In the eastern channel of the river two cuts were made of 375 and 136 feet long, all cuts being 23 feet wide, and to 6 feet in depth.

4,025 cubic yards of hard-pan, clay, sand and boulders, were removed by the

"St. Louis."

The dredge "Little Giant" also operated here between the 24th and 30th of June, 1896, removing obstructions consisting of hard-pan and sand, at the village wharf.

DREDGING AT DORVAL.

Dorval, Jacques Cartier County, is on Lake St. Louis, on the south-west side of the island of Montreal.

The dredge "St. Louis" worked here from the 2nd until the 12th of July. 1895, cleaning and straightening the various cuts made during the previous year, removing 1,770 cubic yards of clay.

DREDGING AT ILE DE GROS BOIS.

Ile de Gros Bois is one of the group of islands situated in the River St. Lawrence.

about 6 miles east of Montreal.

The dredge "St. Louis" operated at this locality between the 3rd and 22nd of August, 1895, making 2 cuts of 400 feet long, by 46 feet wide, to a depth of 6 feet, from navigable water towards the steamboat wharf, removing 4,221 cubic yards of clay and sand.

DREDGING AT LAPRAIRIE.

Laprairie is the chef-lieu of the county of the same name, on the south shore of the River St. Lawrence, 7 miles above Montreal.

One of the steamers of the Richelieu and Ontario Navigation Company plies between Laprairie and Montreal, making several trips daily during the season of

navigation.

Between the 12th of May, and the close of the fiscal year 1896, the dredge "Nithsdale" worked in the steamboat channel, making a channel 4,500 feet long, by 25 feet wide, to a depth of 8 feet below zero, or low water level, from the outward or main channel, towards the wharf, removing 8,587 cubic yards of hard-pan, clay and stone and boulders.

DREDGING AT LONGUEUIL.

Longueuil is the chef-lieu of the county of Chambly, and is situated on the south shore of the River St. Lawrence, nearly opposite the city of Montreal.
On the 16th of July the dredge "Nithsdale" began operating at this locality,

and continued working until the 12th of October, 1895.

Dredging was done on the east side and in front of the Richelieu and Ontario Navigation Company's wharf to a depth of 8 feet, also in front of the Government wharf, to the same depth.

The total quantity of materials removed was 12,832 cubic yards of clay and

stone, boulders, hard-pan and gravel.

DREDGING AT LOUISEVILLE.

Louiseville, county of Maskinongé, is situated on the River du Loup, which empties into Lake St. Peter, on its northern shore. The village lies about 3 miles inland from the lake, and is 74 miles east of Montreal.

Between the 21st of May and the 21st of June, 1896, the dredge "St. Pierre" was engaged in removing a shoal at the mouth of the River du Loup, where 8,911 cubic yards of clay and sand were excavated, and a depth of 51 feet of water was obtained.

DREDING AT NICOLET.

The River Nicolet empties into the St. Lawrence, on its southern shore, at the foot of Lake St. Peter.

Between the 1st of July and the 31st October, 1895, and the 24th and 30th of June, 1896, the dredge "St. Pierre" was engaged in dredging a channel from outside the end of the pier (Lake St. Peter) to the mouth of the river, making a cutting of about 2,500 feet long, to a depth of $8\frac{1}{2}$ feet below zero. The materials removed consisted of 44,459 cubic yards of clay and sand.

DREDGING AT ST. PLACIDE.

St. Placide, a village in the county of Two Mountains, is on the north bank of the River Ottawa, and 18 miles above its junction with the River St. Lawrence, and 9 miles from St. Andrews.

For several years past, dredging operations have been carried on at this place

in improving and deepening the steamboat channel, and around the village wharf.

The dredge "Nithsdale" continuing its work from the previous year, dredged from the 2nd until the 12th of July, 1895, in front of the wharf, and removed 3,224 cubic yards of clay, stone and boulders.

PROVINCE OF ONTARIO.

DREDGING AT AMHERSTBURG.

Amherstburg is a port of entry in the county of Essex, situated on the Detroit River, 5 miles above Lake Erie, and is a coaling station.

For some years the department has been carrying on dredging operations here, in deepening and widening the channel leading to the wharfs, as well as at the wharfs themselves, also in clearing the channel of very large boulders and other obstructions.

Between the 29th of July, and the 24th of September, 1895, the dredge Ontario" worked at this locality. Beginning at Mullen's new dock, the dredging was continued downwards in the Detroit River, making cuts of 75, 130, 140, 350, 400, 550, 650 and 800 feet long, all these cuts adjoining, having a width of 25 feet each cut, and to a depth of 18½ feet at lowest stage of water.

The materials removed consisted of 8,204 cubic yards of hard clay and boulders.

DREDGING AT BELLE RIVER.

Belle River is a village on a river of the same name, in the county of Essex, and is situated 17 miles east of Windsor.

Large quantities of sand for building purposes, also railway ties, are shipped

from this river.

Between the 14th of May, and the close of the fiscal year 1896, the dredge "Ontario" was employed in making a channel through a sand shoal, extending from the mouth of the river, out into Lake St. Clair, through which two adjoining cuts were made of 977 and 865 feet long, having a total width of 45 feet, and a depth of 9 feet, the quantity removed being 12,596 cubic yards of clay and fine sand.

DREDGING AT BELLEVILLE.

Belleville, the shire town of the county of Hastings, is situated on the Bay of Quinté, at the mouth of the River Moira, and is 43 miles west of Kingston.

As already stated in the previous annual report, the dredging performed at

this locality during the past few years, has been of much benefit.

The work done in the river has prevented the recurrence of floods in the spring, caused by the river overflowing its banks, through ice grounding, the river

being too shallow to carry off the ice previous to this undertaking.

The dredge "Queen" worked from the 9th of September until the 16 of November, 1895, and from the 26th of May until the close of the fiscal year 1896, making four cuts on the western side of Mill Island, extending up the River Moira, of 800, 500 and two of 675 feet long, each cut being 25 feet wide, and from 7 to 8 feet deep. Also one cut of 100 feet long, to a depth of 7 feet, between Rathburn's and Stewart's wharf. And, as a channel leading to Lozier's wharf, three cuts of 500. 905, and 1,033 feet long, to a depth of 9 feet, were made; the dredge removing altogether 24,880 cubic yards of gravel, boulders and broken stone at this place.

DREDGING AT BOWMANVILLE.

Bowmanville or Port Darlington, Durham County, is on the north shore of Lake Ontario, 40 miles east of Toronto. It is an artificial harbour, being formed by two

parallel piers built at the mouth of a creek, and extending out into the lake.

A large quantity of sand having being washed in between the piers, the dredge "Nipissing" was put to work on the 8th July, and continued working until the 3rd of August, 1895. A cut 1,400 feet long, by 25 feet wide, and 11 feet in depth, from the entrance, down between the piers, and into the harbour was made, 9,270 cubic yards of fine sand being removed.

DREDGING AT BURLINGTON CHANNEL.

Burlington channel connects the waters of Hamilton Harbour with Lake Ontario. During 1895-96, a dredge was engaged in deepening the channel to 14 feet at low water level, and in preparing a berth for the 70 foot crib. Work was commenced on the 25th May and was completed on the 22nd June, 1896, during which time 6,680 cubic yards of material were removed.

DREDGING AT FORT ERIE.

Fort Erie is an incorporated village on the Niagara River, in the county of Wel-

land, and is situated 20 miles south-east of the town of Welland.

The dredge "Ontario" worked at this locality from the 10th until the 18th of July, in front of the old Fort Erie Ferry wharf, making a cutting 200 feet long, by 60 feet wide, to a depth of 9 feet, and removing 345 cubic yards of clay and boulders.

DREDGING AT FRENCHMAN'S BAY.

Frenchman's Bay, or Pickering Harbour, in the county of Ontario, is on Lake

Ontario, 21 miles east of Toronto.

The dredge "Nipissing" worked at this locality, from the 15th until the 30th of August, 1895, deepening the channel between the piers. One cut of 800 feet long, 25 feet wide, to a depth of 10 feet was made, removing 4,560 cubic yards of sand.

DREDGING AT KINCARDINE.

Kincardine, Bruce County, is situated at the mouth of the River Penetangore,

which empties into Lake Huron, 30 miles north of Goderich.

During 1895-96, the sum of \$2,000.00 was expended in dredging two cuts through the channel and along the north pier to a depth of 12 feet, the material removed measuring, 8,000 cubic yards in the scows.

DREDGING AT MEAFORD.

Meaford is on the southern shore of Georgian Bay, and in the county of Grey,

115 miles north of Toronto.

Between the 6th and the 31st of July, 1895, the dredge "Challenge" deepened the channel between the piers, making one cut of 800 feet long, by 25 feet wide to a depth of 16 feet, and removed 6,870 cubic yards of hard-pan, clay and boulders.

DREDGING AT MIDLAND.

Midland, Simcoe County, is the Georgian Bay terminus of the Grand Trunk

The dredge "Challenge" was engaged here from the 29th of May until the

19th of July, 1896, doing the following work.

In front of the Grand Trunk Railway wharf, a cut 300 feet long, and on the west side of same, a cut 150 feet long, by 25 feet in width each, were made to a depth of 15 feet at low water.

Alongside the Esplanade, a cut of 300 feet long, to a depth of 14 feet, was

finished.

A cut was also made in front of Thew's Mill of 450 feet long, by 40 feet wide, and having a depth of 9 feet.

7,200 cubic yards of hard-pan, clay, sand and mud, were removed at this place.

DREDGING AT NEWCASTLE.

The harbour of Newcastle is on the north shore of Lake Ontario, 47 miles east of Toronto.

On the 3rd of September, 1895, the dredge "Nipissing" commenced the removal of a sand shoal which had formed between the piers, and continued working until the 27th of the same month. Two cuts were made 386 feet long, and 50 feet wide, leaving a depth of 11 feet of water, and 3,990 cubic yards of fine sand Were removed.

DREDGING AT PENETANGUISHENE.

Penetanguishene, county of Simcoe, is an inlet of Georgian Bay. It is a terminus of one of the branches of the Grand Trunk Railway.

On the 22nd of June, the dredge "Challenge" began working, and continued until the close of the fiscal year 1896, doing the following work:—At the Town Dock, a cut 210 feet long, to a depth of 16 feet, and opposite the "Reformatory," On a point of land, two cuts of 290 and 256 feet long, to 16 feet in depth were made, removing altogether 3,180 cubic yards of clay and mud.

DREDGING AT PORT ELGIN.

Port Elgin is situated in the electoral division of the southern portion of the county of Bruce, on the eastern shore of Lake Huron, about 24 miles north of Kincardine and 4 miles south of Southampton. It is a station on the Grand Trunk Railway, but there is no track from the railway to the harbour.

In 1895 a dredge worked 114 hours and removed 5,150 cubic yards of material

from the harbour at a cost of \$962.00.

Further dredging was commenced on the 21st April, 1896, and continued to the 14th May. The dredge worked 200 hours and removed 8,320 cubic yards of material at a cost of \$1,600.00. The inspector's wages were \$92.45. Total \$1,692.45.

DREDGING AT PORT HOPE.

Port Hope, in the county of Durham, is situated on Lake Ontario, 63 miles east of Toronto, and 102 miles above Kingston.

The harbour is an artificial one, formed by piers which have been built into

the lake.

The dredge "Nipissing" was engaged at this locality from the 2nd until the

6th of July, and from the 5th until the 14th of August, 1895.

At the entrance to the harbour, one cut of 300 feet long, to a depth of 12 feet was made, also one cut alongside the eastern pier in the harbour of 600 feet long, and 11 feet in depth, the quantity removed being 5,130 cubic yards of sand.

DREDGING AT PRESCOTT.

Prescott is an incorporated town on the River St. Lawrence, in the county of

Grenville, and is 13 miles east of Brockville.

The dredge "Queen" was engaged in dredging at this locality from the 17th of July, until the 6th of September, 1895, and did the following work:—Four adjoining cuts in front of the new elevator wharf, of 250, 300, 375 and 400 feet long, having a total width of 100 feet, to 16 feet in depth were made. On the cast side of same, six cuts of 150 feet long, and on the west side, three cuts of 150 feet long, to a depth of 14 feet, were made.

At the Canadian Pacific Railway Company's wharf, three cuts 150 feet long,

by 75 feet wide, and 9 feet deep were finished.

15,360 cubic yards of clay and stone, hard-pan, and boulders, were removed by

the dredge "Queen."

The dredge "Nipissing" also worked at Prescott from the 22nd of May, until the close of the fiscal year, (30th of June 1896) and did the following dredging:—three cuts 390 feet long, in front of the elevator wharf, having a total width of 75 feet, to a depth of 18 feet, also two cuts 210 feet long in front of "Plumb's" wharf, having a depth of 15 feet, and 50 feet wide were made. At Labatt's wharf, one cut was made 205 feet long, to 14 feet in depth, and at "Wiser's wharf, one cut of 70 feet long in front, and three cuts of 90,190, and 218 feet long, from the wharf outwards to deep water were made, each cut being 25 feet wide, and to a depth of 15 feet below low water level.

The dredge "Nipissing" removed 8,100 cubic yards of clay and sand.

DREDGING RIVER KAMINISTIQUIA.

This river empties into Thunder Bay, Lake Superior, to the westward of Port Arthur, in the electoral district of Algoma.

Large grain shipments are made from this river to the east.

During the fiscal year 1894-95, the elevator dredge "No. 9" was engaged in dredging a channel through a sand and clay shoal at the mouth of the river, which extended far out into the bay, and upon which, very considerable progress had been made that year.

In the fiscal year of 1895-96, the work was carried on without interruption through the shoal and up the river to a short distance above the Canadian Pacific Railway Company's freight sheds, making a cutting 5,000 feet long, having a

width of 200 feet to the mouth of the river, after which it varies from 230 to 300 feet wide in the river itself. A depth of 20 feet was obtained throughout.

During the year 1895-96, there were 237,750 cubic yards of clay and sand exca-

In the year 1894-95 the material removed by this same dredge amounted to 162,950 cubic yards.

DREDGING AT THE SAUGEEN RIVER.

The Saugeen River runs into Lake Huron, 143 miles above Sarnia, passing through the village of Southampton, which is situated on the shore of this lake in

the North Riding of Bruce.

On the 31st May last dredging was ordered to be done across the bar at the Saugeen River, but after a trial of three days, it was found impossible to make any progress on account of the hard nature of the material to be removed, and the work was abandoned.

The amount expended was \$225.56.

DREDGING AT THE RIVER THAMES.

The River Thames has its outlet in Lake St. Clair at the south-east end of same,

and is navigable up to the town of Chatham, in the county of Kent.

During the fiscal year 1895-96, dredging operations were carried on over the bar at the mouth of this river. The dredge worked 117 hours and removed 6,025 cubic Yards of material, at a total cost of \$999.45.

DREDGING AT THORNBURY.

Thornbury is situated on the west side of Georgian Bay, at the mouth of Beaver

River, in the county of Grey, 13 miles west of Collingwood.

A sand shoal having formed at the harbour entrance, the dredge "Challenge" was put to work on the 2nd August, and continued working until the 21st of September 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 1997 of the 19 tember, 1895, doing the following dredging: a cut 900 feet long was made, beginning at the plant and into ing at the entrance to the harbour, continuing it down between the piers, and into the harbour, leaving a depth of 15 feet for a distance of 700 feet, and of 10 feet for the harbour, leaving a depth of 15 feet for a distance of 700 feet, and of 10 feet for 100. the remaining 200 feet in the harbour. The width of the cutting varies from 100 feet at 1 feet at the outside or entrance, to 50 feet in the harbour.

12,180 cubic yards of hard-pan and sand were taken out.

DREDGING AT TRENTON.

Trenton is a port of entry, on the Bay of Quinté, at the mouth of the River Trent, where is situated the eastern entrance to the Murray Canal.

The dredge "Queen" continued its work from the previous fiscal year, and was engaged from the 2nd until the 13th of July, 1895. Two cuts 160 feet long, and one cut 80 feet long, having a total width of 75 feet, to a depth of 5 feet, were made at the Gilmour Company's logway.

In front of the Central Ontario Railway Company's wharf, two cuts 220 feet long, having a width of 50 feet, and a depth of 9 feet, were finished, removing 2,416

cubic yards of clay and stone, and boulders.

Çr.	CLASSIFICATI	rion of D	on of Disbursements of the Dredge "Challenge" during the Year ended 30th June, 1896.	ents of t	he Dredg	çe " Chall	enge" du	rring the	Year enc	led 30th	June, 189	6.	
Items.	July.	August.	September.	October.	November.	December.	January.	February.	March,	.lirqA	Мау.	June.	Grand Total.
	ee cts	ee cts.	e cts.	es cts.	e cts.	e cts.	æ cts.	es cts.	ee cts.	e cts.	ee cts.	ee cts.	e cts
Wages. Coal	395 00 298 45		395 00 124 50	30 00	30 00	30 00	35 75	90 06	30 00	37 00		395 00 206 65	1,802 75 629 60
Wood	103 00	24 85 25 95							13 15		8	163 00	82 15 00 83 15 00
Equipment Repairs	0.50	1 00 22 30	11 69		65 31		37 36	249 83	37 37 38 38 38	2 65	15 59 406 46	833 84	73 39 883 60
Tudage Towage. Contingencies.	30.83			34 70		9						23 85	94 84
Totals	827 24	615 80	703 34	64 70	95 31	36 00	73 11	279 83	94 71	39 65	457 98	891 24	4,178 91
Working expenses Repairs, ordinary do extraordinary	827 24	593 50 22 30	691 65 11 69	64 70	30 00 65 31	36 00	35 75 37 36	30 00 49 83 200 00	63 15 31 56	39 65	51 52 406 46	835 30 55 94	3,298 46 680 45 200 00
Totals	827 24	615 80	703 34	64 70	95 31	36 00	73 11	279 83	94 71	39 62	457 98	891 24	4,178 91

cts. :4882 8 . 68 ង្គន 뚕 Grand Total. 85 5,994 26.8 20.8 20.8 95 5,994 3,417 1,150 1,426 ets. 88 :88 9 = 8 22 57 07 15 Jane. 1,675 £228 55 52 53 53 53 . 603 6 1,675 cts. 13 82 : 38 85 82 : 59 22 May. 382 88 823 823 #2 cts. :3 22 22 :83 35 97 55 .IndA 322 8 :8 392 32 362 96 çş. \$:48 \$ #8 8 Матсh. ಜ \$ 34 49 cts. 8 ်အွ 83 88 8 February. 62 62 ಜ 84 cts. 46 46 8 88 8 January. ಜ 88 86 88 8 420 14 g 14 8 14 8 **D**өсешрег. 5 ಜ 8 50 æ ę, 8೪ 8 33 3 31 Мочетрег. 33 95 ೫ සිස 36 cts. 3 8 12 22 83 22 October, 33 器 8 126 98 283 28 : 43 ** 47 記む 47 September. <u>\$</u>8 98 88 8 8 693 693 cts. 8 88 8 5 8 38 August. 103 æ 824 743 cts. 82 :8 : & 88 8 88 8 £ 88 $\mathbf{J}n\mathbf{J}\mathbf{\lambda}$. 103 얾 2 795 88 296 Wood. Provisions Stores Equipment Repairs. Pilotage Working expenses.... Repairs, ordinary do extraordinary Towage Totals Items. Totals.

CLASSIFICATION of Disbursements of the Dredge "Ontario" during the Year ended 30th June, 1896.

CLASSIFICATION of Disbursements of the Dredge "Nipissing" during the Year ended 30th June, 1896.

	Grand Totals,	ets.	1,925 83 869 34	475 49 113 78 121 68 1,637 25 15 00		3,544 81 712 86 1.015 88	5,273 55
	.9ппС	e cts.	375 00 128 55	103 00 105 00 95 18 66 85	868 58	801 73	868 58
-	.vsM	s cts.	120 96 104 25	45 54 2 35 7 50 382 14 15 00		300 10	682 24
	.lirqA	e cts.	30 00		31 00	31 00	31 00
	March.	e cts.	90 0g	18 40	48 40	48 40	48 40
•	February.	s cts.	30 00	8 16	3 00	33 00 8 16	41 16
	.Vannaty.	e cts.	16 45	683 39	51 49	16 45	751 33
	December.	e cts.		7881	281 00	281 00	281 00
	November.	& cts.	23 00	117 18	40 00	23 00 157 18	180 18
	October.	e cts.	139 67 214 95	33 22 1 28 2 75	15 79	404 91 2 75	407 66
	September.	ee cts	363 33 74 65	100 33 5 15 26 27	82 699	543 46 26 27	569 73
	August.	e cus.	354 68 257 02	100 40	756 32	712 10 44 22	756 32
	.Մևև	. se cts.	442 74 94 92	93 00	655 95	630 66 25 29	655 95
	Items.		Wages Coal Wood	Provisions Stores. Equipment. Repairs	Towage	Working expenses Repairs, ordinary do extraordinary	Totals

	Grand Tetals.	e cts.	2,400 50 1,158 25 638 39 268 39 268 39 101 86 1,363 06 15,982 25 5,982 25 4,613 18	5,982 25
•	June.	e cts.	385 00 263 53 1163 00 116 00 69 33 52 24 52 24 69 33 69 10	988.10
une, 1896	.VsM	e cts.	19 59 10 95 16 00 16 00 16 00 11 11 11 57 1,118 57 165 59 962 98	1,118 57
J 30th J	.linqA	ee cts.	30 00 112 50 45 00 45 00	45 00
ear ende	March.	ee cts.	30 00 4 4 03 34 03 34 03	£ 03
ing the Y	February.	ee cts.	30 00 00 00 00 00 00 00 00 00 00 00 00 0	30 00
non of Disbursements of the Dredge "Queen" during the Year ended 30th June, 1896.	January.	cts.	30 00 30 00 30 00	30 00
lgo " Que	December.	e cts.	8 8 8	90 OS
the Dre	Лочетрег.	e cts.	285 50 180 87 8 20 8 8 58 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	647 22
ments of	Octuber.	e cts.	395 00 212 50 103 00 52 44 762 94 710 50	762 94
Disburse	September.	ee cts.	395 00 104 05 104 05 104 05 105 00 105 625 52	
M	August.	e cts.	395 00 229 07 103 00 103 00 89 53 816 65 727 07 89 58	816 65
CLASSIFICA	July.	es cts.	395 00 200 00 103 75 5 13 150 34 703 88 150 34	854 22
	Items.		Wages. Coal Strovisions Strovisions Strovisions Equipment Repairs Filotage. Contingencies Totals Working expenses.	Totals

Grand Total.	e cts	883 44	235 50	15 00	459 51 12 83	1,967 04	1,507 53 135 21 324 30	1,967 04
June.	e cts.	:						.
.Мау.	ee cts.	:	: :					
April.	ects.							
March.	s cts.	:					: : :	
Гергиягу.	e cts.	:						
January.	s cts.	:			2 06	2 06	2 06	2 06
December.	ee cts.	:		:	217 40	217 40	217 40	217 40
Почетрег.	es cts.	:			10 5	20 08	9 51 10 57	20 08
October.	e cts.							
September.	e cts.	186 67	50 50	17	12 6 8 8 9 8	263 21	250 61 12 60	263 21
August.	e cts.	350 00	25.		124 66	773 61	648 95 17 76 106 90	773 61
July.	e cts.	346 77	28 8 28 8 28 8	353	6 22 22 23 23 23	89 069	598 46	89 069
Items.	,	Wags	Provisions	Equipment	Repairs Contingencies	Totals.	Working expenses Repairs, ordinary	Totals

23 842822 53 51 ಜ cts. Grand Total. 7,912 7,912 5,907 1,052 952 822452 :888 8 84 8 cts. 1-3% 892 45 Jane. 88 886 653 197 CLASSIFICATION of disbursements of the dredge "No. 9" during the Year ended 30th June, 1896. 448 :68 88 28 88 cts. 615 85 8 884 **35** 884 82 May. 60 13 98 2 18 57 cts. ೫ 139 April. 89 284 228 78 55 8828 88 cts. 8 ĸ March. 732 732 23 23 60 211 12 211 12 ಶಜಣ 45 8 cts. 22 22 February. 1 5 52 5 **99** cts. 8 g ĸ 8 :83 g 8 922 පු 929 January. 38 69 :8 8 ಜಜ 8 ಜ cts. 2 21 2 12 December. I . æ 88 8 88 88 çş. 346 Мочетрег. 2 296 346 346 **68** 84 88 R 8 cts. 878 49 88 675 165 **88** 88 October. 99 26 20 288 22 ċ. 65 165 16 88 September. 23 4 83 28 :1: Z N cts. 1,1561,156797 82 876 Jengu A 888 46 28 :83 \$ 28 ę, සිසි 35 R 831 July. 83 Working expenses.... Repairs, ordinary do extraordinary Stores Equipment Repairs Contingencies.... Provisions Totals..... Items. Totals 145

9-10

CLASSIFICATION of Disbursements of the Dredge "Nithsdale" during the Year ended 30th June, 1896.

Grand Totals.	\$ cts. 1,955 47 510 00 1 75	511 37 180 60 5,099 22 8,258 41	8,095 73 162 68	8,258 41	ا	Grand Totals.	c. yds.	7,970	9,040 10,400 1,920	1 00
June.		109 00 17 92 1,910 72 2,398 97	2,398 97	2,398 97	ne, 1896	Јиие.	c. yds.	390	6,870 1,200 1,020	007
May.	\$ cts. 390 08 510 00	977 50	977 50	977 50	d 30th Ju	May.	c. yds.		006	8
April.	•• cts.			:	ear ende	.lirqA	c. yds.			
March.	& cts.				nantities of Material removed by Dredge "Challenge" during the Year ended 30th June, 1896	March.	c. yds.			
February.	es cts			:	ige" dur	Гергиагу .	c. yds.			
January.	cts.				"Challer	January.	c. yds.			
Бесетрет.	• cts.				Dredge	December.	c. yds.			
Лочетрег.	& cts.	3 50	3 50	3 50	loved by	Мочетьег.	c. yds.			
October.	\$ cts.	46 40 36 76 1,326 75 1,645 79	1,609 03	1,645 79	erial ren	October.	c. yds.			
September		92 50 15 77 440 45	424 68 15 77	440 45	es of Mat	September.	c. yds.	610	3,980	1
.dsuguA		94 85 931 75 1,344 60	1,344 60	1,344 60	Quantiti	4suSuk	c. yds.	2,370	5,220	1 100
July.	\$ cts. 318 00	91 20 106 65 930 00 1,447 60	1,340 95	1,447 60	TION and	July.	c. yds.	4,600	2,170	0100
Items.	Wages. Coal Wood.	Provisions Repairs Contingencies Totals	Working expenses	Totals	CLASSIFICATION and Qu	Description of Material Dredged.		Hard-pan	Clay Sand—ordinary Mud	11:40]

CLASSIFICATION and Quantities of Muterial removed by the following Dredges during the Year ended 30th June, 1896.

	Grand Total.	c. yds.	939 16,366 3,840	21,145		6,000 6,660 18,390	31,050		2,550 3,732 18,994 2,912	14,468	42,656
	June.	c. yds.	6,146	986'6		5,340 2,100	7,440		1,380		7,376
	May.	c. yds.	2,610	2,610		099	099		1,000		1,164
	.lirgA	c. yds.								:	
	March.	c. yds.									
	Г ергиягу.	c. yds.					:				
	January.	c. yds.			î,						
"ONTARIO."	. Ресешрет.	c. yds.			".NIPISSING."			"QUEEN."			
),,	Лочетрег.	c. yds.							3,868		4,596
	October.	c. yds.							3,670	2,526	6,712
	September.	c. yds.	2,620	2,720		3,990	3,990		500 572 4,460	512	6,044
	-deuguA	c. yds.	494 4,990	5,484		4,560 4,170	8,730		2,050	7,442	889'6
	July	c. yd.	345	345		10,230	10,230		176	3,988	7,076
9	Description of Material Dredged.		Boulders	Totals		L Clay	Totals		Hard-pan Boulders, Gravel	Clay and stone	Totals

CLASSIFICATION and Quantities of Material removed by Dredges, during the Year ended 30th June, 1896.—Concluded.

Grand Grand Totals.	c. yds. c. yds.	970 205 6,715 6,715 155 177	10,016	-	21,700 125,125 19,250 112,625	40,950 237,750	-	310 1,602 2,060 2,060 4,929 18,931	5 239 94 643
day.	c. yds.		:		6,525 7,425	13,950		144	8 348
rpril.	c. yds.		: : :						
farch.	c. yds.		:			:	-		
ериляту.	c. yds.								
Bnusty.	c. yds.			-	: :		LE. "		
ecember.	c. yds.		:	" No. 9 "			" NITHSDALE.		
ovember.	c. yds.			-	- : : : : : : : :	:	3		
ctober.	c. yds.				13,150 13,700	26,850	-	260 1,330 1,230	000
ptember.	c. yds.		1,020	,	22,200 22,050	44,250	-	829	100
ugust.	ن مُطِهَ		4,946	~	34,750 22,250	57,000	-	434 311 720 2,921	100
1JA:	c vds.	3,040	4,050		26,800	54,750	-	258 516 4,589	1
Description of Material Dredged		Hard-pan Boulders Clay and stone. Sand—ordinary	Totals	148	Clay Sand—ordinary	Totals		Hard-pan Boulders Gravel	

DREDGE STATEMENT, showing Material removed at different localities, total amount of Expenditure on each dredge, and average cost per cubic yard.

DREDGE "CHALLENGE."

Location.	Hard- pan.	Boulders.	Gravel.	Clay.	Clay and Stone.	Sand, ordinary.	Sand, fine.	Mud.	Totals.
Meaford Thornbury Penetanguishene Midland	4,600 2,980	100		2,170 2,160 4,710		9,200		1,020	6,870 12,180 3,180 7,200
	7,970	100		9,040		10,400		1,920	29,430
	T	otal amoun	t of expe	nditure, S	\$ 4,1 78.91.	Cost per	cubic yaı	rd, 141 c	cents.
		D	REDGE	"ONT	ARIO."				,
Fort Erie. AmherstburgBelle River		345 594		7,610 8,756		3,840			345 8,204 12,596
		939		16,366		3,840			21,145
-		D	REDGE	"NIPI	ssing."				
Port Hope Bowmanville Frenchman's Bay Newcastle Prescott		D	REDGE	"NIPI	ssing."	4,560	5,130 9,270 3,990		9,270 4,560 3,990
Bowmanville Frenchman's Bay		D	REDGE		ssing."		9,270		5,130 9,270 4,560 3,990 8,100
Bowmanville Frenchman's Bay Newcastle		Dotal amoun	-	6,000		2,100	3,990		9,270 4,560 3,990 8,100 31,050
Bowmanville Frenchman's Bay Newcastle			t of expen	6,000	\$5,273.55.	2,100	3,990		9,270 4,560 3,990 8,100 31,050
Bowmanville Frenchman's Bay Newcastle			DREDG	6,000 6,000	EEN."	2,100	3,990		9,270 4,560 3,990 8,100 31,050

DREDGE STATEMENT showing Material removed at different localities, &c .- Concluded.

DREDGE "ST. LOUIS."

Location.	Hard- pan.	Boulders.	Gravel.	Clay.	Clay and Stone.	Sand, ordinary	Sand, fine.	Mud.	Total.
Dorval	970	205		1,770 1,270 3,675	155	1,425 546			1,770 4,025 4,221
	970	205		6,715	155	1,971			10,016
	Т	otal amoun	t of expen				cubic yaı	rd, 19 §	cents.

Ste. Placide Longueuil Laprairie	692	1,616	2,050	 8,474	12,832
	1,602	2,060	2,050	 18,931	 . 24,643

Total amount of expenditure, \$8,258.41. Cost per cubic yard, 33.512 cents.

DREDGE "No. 9."

River Kaministiquia			. 125,125		112,625			237,759
	Total ar	mount o exp	enditure,	\$7,912.50	Cost per	cubic ya	rd, 3½ c	ents.

PROVINCE OF MANITOBA.

DREDGING AT THE MOUTH OF THE RED RIVER, LAKE WINNIPEG.

Dredging a channel through the bar at the mouth of the Red River, Lake Winnipeg, in order to give uninterrupted navigation to lake boats, and thereby develop the industries associated with the lake, began in 1884, and the work of dredging has been carried on each succeeding year since then.

Previous to 1893, dredging operations were carried on at the mouth of the west Transferring operations from the west to the cast channel, was occasioned by the flood and heavy ice flow of 1893, which caused the one to fill in and very

effectually scoured out the other.

The work done in the west channel, however, cannot in every sense be considered as thrown away, for uninterrupted navigation was maintained there, while previous to 1893, the extent of the bar opposite the east channel (now used) would have required at least three seasons' work to give passage through it.

After dredging operations closed down on August 24th, 1895, the necessary

repairs to the plant were gone on with.

After the work authorized to be done in the west slough, near West Selkirk, was completed, the dredge was removed to the lake, the channel permanently staked out for the season, and dredging operations began June 1st.

The statements attached, in duplicate entitled "classifications of disbursments"

and "material removed," shows as follows:-

Total expenditure (1895-96)...... \$10,596.46 " 48,120 cubic yards. Material removed

The output during 1895-96, is in excess of the previous year by 4,000 cubic yards. The average cost per yard, one cent less. The lake trade has increased very much, during the past year, in fish, lumber and general business.

The value of fish caught during the past year represents about \$300,000.00. Steamboats, tugs, sail and row boats represent a value of \$146,000.00. Tonnage

equals 2,597 tons. Men employed, fully 1,200.

DREDGING AT THE WEST SLOUGH WEST SELKIRK.

The west slough is an arm of the Red River, near West Selkirk.

This slough or arm is the only safe place as winter quarters for the dredging plant and steamboats, being protected from the ice flow during flood season, and is in every way convenient in connection with hauling out boats for repairs, etc., etc.

It is decidedly in the interests of navigation that this slough be kept navigable, and with that intention some dredging has been done there, a little in 1887, 1889, and 1893. By this the channel was very much improved from the mouth of the slough up to the fishing establishment (about three fourths of the distance to head of slough.) There is a saw-mill and a large fishery establishment on the slough. The fish company, in connection with the cold storage department, put in a plant this year, at an expenditure of \$25,000.00.

In recognition of a petition from vessel owners, navigators and others of West Selkirk, praying that further dredging be done in the slough, one week's dredging was done where required, before placing the dredge at work at Lake Winnipeg. This work was accomplished satisfactorily, the quantity of material removed

amounting to 3,840 cubic yards.

CLASSIFICATION of Disbursements of the Dredge "Winnipeg" and Tug "Sir Hector" during the Year ended 30th June, 1896.

Grand Total.	s cts.	4,383 00 2,603 10	1,465 17 592 04	1,248 03 305 12	10,596 46	7,720 95 2,875 51	10,596 46
June.	& cts.	620 00		44 49 50 50	1,648 53	1,604 03	1,648 53
.ysM	& cts.		203 94 183 53		1,983 91	1,250 00	1,983 91
.lirqA	s cts.	480 00	164 66	429 36	1,074 02	644 66 429 36	1,074 02
March.	♣ cts.	120 00	248 53		368 53	120 00 248 53	368 53
Еергиягу.	s cts.	80 00			98	90 08	00 08
January.	es cts.	00 08			98	90 98 1	00 08
December.	es ets.	90 98			00 08	80 0.)	80 00
Лочетрег.	s cts.	143 83	27 33		171 16	171 16	171 16
Octobre.	\$ cts.	302 50	104 51	188 18	61 019	422 01 188 18	616 19
September.	e cts.	612 00	192 89	269 42	1,145 75	1,145 75	1,145 75
August.	e cts.			26.25 27.25 27.17	1,640 53	1,608 46	1,640 53
July.	es cts.	625 00	288	328 328	1,713 84	1,660 68	1,713 84
Items,		Wages.	Coal Provisions	Equipment Repairs. Contingencies.	Totals	Working expenses	

STATEMENT showing the Material removed at different Localities, the Total Annual Expenditure on each Dredge, and the average cost per cubic yard.

Localities.	Hard- pan.	Boulders.	Gravel.	Clay.	Clay and Stone.	Sand, Ordinary.	Sand and Clay.	Mud.	Totals.
				c. yds.			e. yds.		c. yds.
Mouth of Red River, Lake Winnipeg, at east channel West slough of Red							43,920		43,920
kirk		•		3,840	· • • • • • • • • • • • • • • • • • • •				3,840
Hatchery, West Sel- kirk	į.			360					360
Totals				4,200			43,920		48,120

Total expenditure during fiscal year 1895-96, \$10,596.46. Average cost per cubic yard, 22 cents.

PROVINCE OF BRITISH COLUMBIA.

DREDGING VICTORIA HARBOUR, AND THE SNAG BOAT "SAMSON."

The vote for this service was to cover the combined running expenses of the dredge "Mud Lark" operating in Victoria Harbour, and the snag boat "Samson" operating on the Fraser River. This appropriation was augmented by the amounts aggregating \$1,357, charged to the Marine Department, and credited to dredging British Columbia from month to month during the year for the services of the snag boat "Samson" in attending to the buoys marking the channel at the mouth of the Fraser River. Therefore the amount available for the combined expenditures during the past year was \$11,357.

Dredge "Mud Lark" and plant.

The sum of \$5,307.98 has been expended in defraying the running expenses of the above from the 1st July, 1895, to the following 14th December and in payment of the watchman's wages from the latter date to the 30th June last.

The general details of the disbursements are given hereunder, but will be found in more extended form by the month in the classification of disbursements appended hereto:—

Wages, including watchman since plant was laid up	\$3,650	
Provisions.		~ ~
Stores		54
Equipment	131	02
Water	24	47
Coal	723	78
Contingencies	6	50
<u> </u>		
Total	\$ 5,307	98

During the first mentioned period dredging operations were carried on in Victoria Harbour, and the quantities of material removed at the several localities in the harbour are shown in the following tabulated statement:—

Locality.	Period.	Quantity.	Description.
James Bay Outer Wharf James Bay		13,200 cubic yards 8,500 cubic yards 3,900 cubic yards 25,600 cubic yards	Hard brown and blue clay and rock. Hard sand and gravel. Hard brown and blue clay. Laid up.

The actual dredging time consumed in the removal of this quantity was 460

hours, or 46 days.

The smallness of the quantity of material removed is chiefly attributable to various mishaps which occurred to the plant. (1.) A fire broke out on board the tender "Princess" which destroyed the deck house and caused a delay of 24 days; (2.) the boiler of the "Princess" developed frequent and annoying defects from time to time, which of course had to be attended to at once, and these effects ultimately became so serious as to render the further use of the steamer hazardous; and (3.) the doors and rollers of the hopper scows gave way from time to time unexpectedly, occasioning many vexatious stoppages.

The following is a statement accounting for the possible working time covered

by the period the plant was in operation:-

Possible working days	144	
Actual " "	46	
Repairing days	47	
Stormy "	2	
Sundries, including time moving, coaling, and laying up		
days	$46\frac{1}{3}$	
Holidays	$2\frac{f}{2}$	
		144

When the plant was laid up on the 14th December it had all been previously

properly prepared and a reliable watchman left in charge.

The disbursements made in connection with repairs and renewals effected to the plant, embracing the cost of materials, and labour outside of that afforded by the regular crew, amounted to \$2,155.60 in detail, as follows:—

Repairs and renewals to boiler and machinery "Mud		
Lark"	21	42
Repairs and renewals to hull "Mud Lark"	45	65
Repairs and renewals to hopper scows	107	38
13 in. pliable steel wire hoisting rope	178 669	20
Repairs and renewals to boiler and engines "Princess".	669	81
Repairs and renewals to hull, house and equipment		
"Princess"	706	56
General repairs and renewals	426	5 8
Total \$	2,155	60

Snag Boat "Samson."

The liabilities incurred and paid in connection with the running expenses of the snag boat "Samson" while engaged in various ways on the Fraser River amounted to \$8,054.97 during the past year. This sum was charged to the several services in the following proportions:—

	(1.) Dredging, B. C\$4,669 33 Marine Department	0			
	·	- 8	6,026	82	
	(2.) Fraser River	•	2,028	15	
	Total	. {	8,054	97	
The extended	following are the details of these expenditures which will by the month in the "classification of disbursements"	ll, a	howev ppend	er, ed h	be found ereto:—
(1)	Wages	8	4.186	63	
	Provisions	•	754	22	
	Stores		67		
	Equipment		130		
	Water		45		
	Coal		593		
	Wood		201		
	Contingencies		47	62	
	Total	\$	6,026	8 2	
(2.)	Wages	8	1,609	17	
()	Provisions	-	286	48	
	Stores		24	80	
	Wood		95	00	
	Contingencies		12	70	
	D			- "	

The "Samson" was in commission 332 days, and after deducting \$40.00 watchman's wages from the above sum of \$8,054.97, the running of this boat, exclusive of extraordinary repairs and renewals, averages about \$24.00 per day. Owing to the smallness of the appropriation last year, but very little repairs and renewals, amounting only to \$320.00, were effected, but the general average cost per day for such is about \$6.00.

\$ 2,028 15

The following is a tabulated statement of the working time the "Samson" was engaged upon the several services needing her assistance in connection with the Fraser River, including the period she was laid up during last winter:—

Removing snags, 265 in number between Chilliwhack		
and the mouth of the river	33.75	days
Sounding and surveying	76.00	" i
Channel improvement and bank protection	52.30	"
Constructing repairing ways	20.00	
Inspecting	6.00	66
Painting and repairing	33.00	"
Buoy service	45.25	"
Fog. wind, rain and ice detentions	7.50	"
Raising ferry pontoon New Westminster, and removing		
other obstructions	2.30	"
Repairing winter quarters	3.50	"
Laying up	1.00	46
	28.00	"
Total	308.70	dave

On the 16th June last, the engineer reported through the captain, that the shaft was cracked at both ends in the journals. The captain also reported about the same time that the top, sides, bottom planking in several places, four hog posts and other parts were seriously decayed. In consequence, and there being no money available for repairs, the boat was laid up.

CLASSIFICATION of disbursements of the dredge "Mud Lark" during the Year ended 30th June, 1896.

Grand Total.	e cts.	3,650 58 723 78 24 47			7,463 58	5,307 98 698 65 1,456 95	7,463 58
June.	s cts.	231 00		42 17 48 6 50	309 18	291 70 17 48	309 18
.ХвМ	e cts.	40 00	308		43 00	43 00	` 43 00
.linq.A	es cts.	40 00		14.25	54 25	40 00 14 25	54 25
March.	s cts.	60 04		473 76	513 76	40 00 42 68 431 08	513 76
February.	e cts.	40 00	8	70 50	114 30	43 80	114 30
January.	e cts.		2 40 9 13	49 50 52 94	113 97	61 03 52 94	113 97
D есешрет.	e cts.		11 94 61 61 61 61 61 61 61 61	30 88	1,024 50	993 62	1,024 50
Лочетрет.	es cts.	583 31	109 06 30 82 82 82		899 14	725 19 128 95 45 00	899 14
October.	es cts.	605 00 613 78		88 57 625 86	2,182 27	1,566 41 146 18 479 68	2,182 27
September,	ee cts.	605 00	57 73	81 00	743 73	662 73	743 73
August.	ets.	615 00	102 78	262 51	980 29	717 78 186 01 76 50	980 29
July.	es cts.	110 00	22 72		485 19	132 72 79 28 273 16	485 19
Items.		Wages	Water Provisions	nent		9 Working expenses Repairs, ordinary do extraordinary	Totals

2,028 15 2,028 15

693 23

Working expenses....

B.C.	Grand Total.	\$ cts. 4,186 63 593 43 291 25 45 00 754 22 6,39 6,39 62 6,346 82 122 77 117 23 6,026 82 crvice.	1,609 17 95 00 286 48 24 80 12 70	2,028 15
Dredging	уппе.	\$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts.<		:
rged to	May.	\$ cts.' 252 87 252 87 6 85 10 00 285 82 269 72 16 10 16 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 1	529 17 27 50 77 70 3 80	638 17
1896, chu	.lirqA	\$ cts. 475 00 114 32 16 35 6 80 631 22 631 22 631 22 631 22		
h June,	March.	\$ cts. 448 41 15 00 17 26 6 00 107 26 677 33 677 33 677 33 677 33 840 12 00 95 26 677 33		
o Year ended 30th	February.	\$ cts. 40 00 40 00 40 00 40 00 ded 30th		:
	.Vanuaty.	\$ cts. 519 35 22 00 30 00 81.24 19 76 4 75 680 10 680 10		
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	July.	\$ cts.		
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DREDGING PLANT.

The dredging plant belonging to the department is as follows:-

IN THE MARITIME PROVINCES.

The propeller hopper dredge "St. Lawrence."
"Canada."

The dipper dredge "New Dominion" and 4 scows.
"Prince Edward" 3 scows and water boat.
"Geo. McKenzie" 4 ""

One stone lifter, boiler, engine and large grips.

IN QUEBEC AND ONTARIO.

The elevator	dr e dge	" No. 9, " 3	scows	and tug	" Delisle."
dipper	"	"Queen," 2	"	"	"Ottawa."
"	"	"Nipissing,"	2 "	"	"St. Paul."
+6	"	"Ontario,"	3 "	"	"St. John."
"	"	"St, Louis,"	2 "	"	"Sensation."
"	"	"Challenge,"		"	"Trudeau."
Stone lifter N	o. 1.	· · · · · · · · · · · · · · · · · · ·			

IN MANITOBA.

The dipper dredge "Winnipeg," tug "Sir Hector," 2 scows and coal barge.

IN BRITISH COLUMBIA.

The snag boat "Samson."
The dipper dredge "Mud Lark," 3 scows and tug "Princess."

SHIP CHANNEL, RIVER ST. LAWRENCE.

Four elevator dredges, tugs "John Pratt," "St. James," "St. Francis," "C. J. Brydges," "M. F. Parsons," "Cartier," 2 stone lifters, 2 coal barges, 12 dump scows of 80 yards capacity, 2 scows of 150 yards capacity, 1 sounding scow, 2 coal scows and 2 winch scows.

NEW DREDGING PLANT.

One elevator dredge for the ship channel—sister dredge to the "Laval."
One steel tug as tender to new dredge.
One steel dipper dredge for the maritime provinces.
Two steel hopper barges for salt water service.
The above vessels were in course of construction at the end of the fiscal year.

DREDGE VESSELS, REPAIRS.

The following amounts were expended on repairs to the dredges, tugs, etc.

MARITIME PROVINCES.

" St. Lawrence" " Canada " " New Dominion " " Prince Edward " " Geo. McKenzie"	\$2,173 2,376 4,533 1,561 1,488	50 19 58	
ONTARIO AND QUEBEC.			
"Challenge" "Ontario" "Nipissing" "Queen" "St. Louis" "No. 9" "Nithsdale"	880 2,576 1,728 1,369 459 2,005	51 74 07 51 04	
MANITOBA.			
" Winnipeg "	2,875	51	
BRITISH COLUMBIA.			
" Mud Lark "" " Samson "	2,155 320		
The plant employed on the ship channel of the River St. Montreal and Quebec was repaired, the expenditure being as follows:	Lawres	nce	bet we en
" Laval" " No. 8" " No. 11" " No. 12" " John Pratt" " St. James" " Cartier" " St. Francis" " M. F. Parsons" " C. J. Brydges" Stone lifter, scows, etc	\$1,462 3,180	62 70 35 06 50 61 51 59 68 91	

GRAVING DOCKS.

The Dominion Government owns and maintains three graving docks, viz.: the Lorne dock at Levis, Quebec: the dock at Kingston, Ontario, and the Esquimalt dock, at Esquimalt, near Victoria, British Columbia.

LEVIS GRAVING DOCK.

The Levis Graving Dock is situated at St. Joseph de Lévis, on the southern shore of the St. Lawrence, two miles east of Quebec. The general plan of the dock is a rectangular figure, 445 feet in length by 100 in breadth, with a circular head 31 feet radius, with a square offset on each side of 19 feet, forming the top and width of the timber slides and stairs, which are placed in pairs side by side at either end. The width of the inner invert, between the main body of the dock and the caisson berth is eight feet, making the total length of the dock inside the first meeting place of the caisson 484 feet.

The wing wall on the eastern side of the entrance extends 150 feet from the

caisson into the river, while that on the western side extends 270 feet.

The depth of water on the sill is $26\frac{1}{2}$ feet at high water spring tides, and $20\frac{1}{2}$ at

high water neap tides, while the width at the entrance is 62 feet.

The dock has been kept in excellent working condition with the ordinary care to the pumping machinery. In the latter part of May last the caisson berth and recess were cleaned, sediment having accumulated in the bottom to a depth of about 10 inches: The bottom, sides and ends of the caisson were scraped of all rust and painted two coats.

KINGSTON GRAVING DOCK.

This dock is situated in the centre of the harbour at the foot of Union Street. It is built of stone laid in cement, has good yard accommodation, and can take in any vessel that passes through the Welland Canal.

The dock is 280 feet long, from the inner face of invert to the foot of the stairs, and from the inner face of the caisson to the foot of the stairs is 290 feet. This length can be increased by 13 feet, by placing the caisson on the apron line. The width of dock at floor level is 47 feet and at coping 79 feet. The depth is 20 feet 6 inches. The rudder well commences at 10 feet from the inner face of the invert and is 3 feet wide, 12 feet deep and 24 feet long. The keel blocks extend the whole length of the dock at 5 feet centres. There are 32 bilge blocks placed at 10 feet centres. The depth of water on the sill at low water is 16 feet, and at high water 18 feet.

The only new work that was undertaken and carried out in connection with this dock during the fiscal year ended the 30th June, 1896, was the putting in of sprocket wheels and chains (specially made to order) in lieu of the old drums and cables for operating the caisson, which has proved in every way a great success, and will effect a large saving in the matter of cost for cables. The cost of the sprocket-

wheels and chains in question was \$925.00.

The engines, pumps and boilers are in first class working order. The grate bars of the large boilers may require to be renewed shortly.

ESQUIMALT GRAVING DOCK.

This dock commenced by the Provincial Government of British Columbia, was assumed by the Dominion Government and completed and opened in July, 1887.

It is situated in a small cove in Esquimalt Harbour, and the following is a description of the dock:

Length of dock over keel blocks		Inches.
Width of inner invert	20	
" caisson chamber	15	10
" outer invert	15	10
Total length of dock	480	10
Width of dock at coping	90	
" entrance	65	
" " floor of dock	41	1
Radius of invert	16	6
Depth of water on invert at low water	24	6
Depth of water on invert at low water ordinary high water	26	6
Total depth of dock above invert	33	6
Height of invert above floor of dock	3	
" keel block	2	10
Length of "	4	
" caisson (inside facing)	67	
" (outside facing reversible)	71	
Width of caisson over teak meeting faces	15	8

On the 28th November last, one half of the large spur driving wheel of the main pumps broke, while the dock was being pumped out for the purpose of rearranging the keel blocks preparatory to docking a ship. Tenders were immediately called for a new wheel and the contract was awarded to the Victoria Iron Works, the lowest tenderer. On the 11th of the month following the machinery was in working order. Fortunately but little damage was done to the rest of the machinery by the flying pieces of metal. To guard against protracted delay, an extra half wheel was made ready to be fitted should a similar accident again occur.

Various other necessary repairs and renewals have been made from time to time to the machinery and pumps. The whole are kept in as efficient a state as possible.

A planer has been added to the equipment of the dock capable of taking in the largest brass-casting used in either pumps or engines. This will enable the majority of the repairs and renewals, not of too large a character, to be done on the premises.

SLIDES AND BOOMS.

The Dominion Government owns and operates slides and booms to facilitate the passage of timber and logs on the River Ottawa and tributaries, on the River St. Maurice, and in the Trent and Newcastle district between Fenelon Falls and Heeley's Falls.

Information relative to these works will be found in the appended reports by Mr. G. P. Brophy, Superintending Engineer of the Ottawa River Works; of Mr. Thos. Berlinguet, Engineer in charge of the River St. Maurice Works; and of Mr.

R. B. Rogers, superintending engineer of the Trent and Newcastle District.

OTTAWA RIVER WORKS OFFICE, OTTAWA, 23rd September, 1896.

Louis Coste, Esq., Chief Engineer, Department of Public Works.

Sir,—As requested by you in communication No. 1934, of 15th July last, I have the honour to submit the following report relating to the works under my charge on the Ottawa River and its tributaries, for the fiscal year ended 30th June, 1896.

During the summer and autumn months of 1895, rather a low pitch of water was found in some of the tributary streams, so that portions of the drives of logs were somewhat delayed. The operations of the lumbermen are gradually being extended in the remote timber berths of the forest belts, and that of itself accounts, in some measure, for late arrivals at the lower works. The foundations of the river structures having been examined at low water season, the necessary repair and reconstruction work was commenced and continued at the proper time during the winter and spring months, preparatory to the opening of navigation of 1896, and may be described as follows:-

REPAIRS AT STATIONS ON THE OTTAWA RIVER.

(Main Stream) Carillon Station.—At this place the bulkhead platform was renewed, the apron timbers repaired and the guide booms partially replanked and strengthened.

Hull or North Chaudière Station.—The sheeting of the bottom of the slide was renewed in places where worn out and decayed; the boom planking patched; the stop-log checks faced up; the apron and boom chains and attachments adjusted and

the station house, sheds and fences repaired.

Ottawa or South Chaudière Station.—The work done here was in splicing and patching boom at head of 2nd slide; repairing stop-logs at 2nd bulkhead; taking soundings and making measurements in timber channel above upper slide entrance; strengthening support post below stop-logs on northerly side of 2nd bulkhead; unwatering slide to admit of removal of stone from piers and the re-filling of same; new oak post set in position, a splice having been effected above with bolts and plates; securing booms and aprons against ice shoves; re-shingling roof of large store-house;

repairing fences and patching the bottoms of slides.

Bridges at Ottawa and Hull and roadway or causeway between these cities. After the unpaved portions of the roadway and bridge approaches had been thoroughly cleaned, a coating, 5 inches thick, of brooken stone was laid thereon; but the traffic here is so great and the loads so heavy that no lasting improvement can be made until some system of paving with more durable materials is adopted. The Hull slide bridge had its timbers and planking renewed; new stringer pieces laid under the whole length of the sidewalk and corbels inserted to support the same. The westerly half of the roadway of the Union Bridge was repaired throughout its whole length, a sheeting of 3 inch white oak plank having been laid on the bottom, with supports of 4 inch oak laid at regular intervals of 6 feet and checked down on the beams, the top plank of 3 inch elm was laid at an angle of 45° with the centre line of bridge. On the westerly side of the line of iron bridges over the Chaudière slide and hydraulic channels, a number of the floor timbers had to be renewed and 3 inch elm planking substituted for that worn out. The whole of the floor beams and planking of the southerly addition which increases the width of the Sapper's Bridge over the canal in this city, having, on examination, been found decayed and unserviceable, a renewal of these parts had to be effected.

Maria Street Bridge required attention, and the roadway and sidewalk planking repaired where worn through. It may be stated that, from time to time the roadway and bridges between Ottawa and Hull were scraped and cleaned; the drainage outlet pipes and the catch drain gratings kept clear and in winter the snow

obstructions removed.

Chats Station.—The floor plank of the long slide here had become very much worn in many places and was repaired with elm plank and on the sides, the same description of material was used for patching, where required. The timber apron at foot of slide was renewed and three new maple stop-logs were furnished for the bulkhead at the entrance of canal.

Mountain Station .- At this place certain measurements were taken in order

that a specification of required repairs might be made.

Calumet Station.—The work done here consisted of blasting and removing rocky reefs and projections that at the season of low water interfered with the running of

timber at the foot of the 3rd slide; rebuilding about 125 feet in length of the side pier near the lower end of the 3rd slide which had become very much decayed and threatened to fall into the channel, this pier diverts the current from below the chute, as otherwise it would drive the cribs against the shore; patching bottom plank in 1st and 3rd slides; covering with plank the top of bulkhead and the bridge over the 1st slide; putting additional blocks and new sill under apron at the foot of the 2nd slide and repairing the handrails of bridge.

Joachim Station.—Preparatory to the execution of necessary repairs here an

examination of the works was made.

Rocher Capitaine.—At this station, a portion of the bottom planking of the slide was repaired and the upper section of a pier at the outer end of flat dam (which had been damaged by the floods of the spring of 1895) was rebuilt.

REPAIRS ON TRIBUTARIES OF THE OTTAWA.

Gatineau River.—At the outlet of Pond Creek, in a channel through which the timber and logs pass from the series of improvements on the Gatineau to the rafting area on the northerly side of the Ottawa, a large deposit of sand, bark and other debris had to be excavated and removed, as this obstruction retarded the operations of the lumbermen, certain portions of the booms were straightened, new cap pieces furnished and the chain attachments adjusted. The workmen's camp-house and the fences were repaired and the planking of the bridges over the old and new canals maintained in a state of efficiency.

Madawaska River.—At Chain Rapids the boom which had been displaced was brought back to position and secured; the planking of the slides where defective made good and the bulkhead repaired. At High Falls the stop-log checks of both the bulkheads were re-faced and the sides of piers lined with maple plank; the boom between the upper and lower bulkheads of slide was strengthened by the use of additional screw-bolts and the main guide boom at the slide entrance and the waste

gates were overhauled and repaired.

At Barrett's Chute, the flat dam, 125 ft. long, on the northerly side, furthest up stream, was partially rebuilt, the new foundation timbers being bolted to the rock bottom.

Near the foot of Calabogie Lake a boom was placed across the Mill Channel; this boom is about 1,060 feet long and is kept in position by stone-filled support piers.

At Little Rapids, four projecting reefs were removed from the log channel in front of the dam and the apron at the rear which had been battered by logs passing

over the crest, was repaired.

At Ragged Chute, the main dam was raised with the view of turning a greater volume of water into the log channel and also deadening the current against guide-boom leading to timber chute, as formerly logs were drawn under the booms and over the crest of the dam at time of high water, involving considerable expense to the lumbermen as they had to be drawn back by teams when the log-sweeps took place.

At Bailey's Chute the outer ends of the wing dams were patched, portions of

them having been carried away during the season of high water.

Coulonge River.—The principal repairs executed on this stream were those at pier No. 4, supporting main guide boom near head of slide above High Falls. This pier was emptied of its stone-filling, torn down to low water level and rebuilt with new timbers to the top and the stone-filling replaced, pier No. 2 at the upper end of guide boom was also rebuilt above the water level. The single stick guide boom had its timbers dressed and converted into a double boom by having new timbers bolted on for a distance of 675 feet. Two piers near the village of Fort Coulonge were repaired by facing the corners with plank. The planking on the sides and bottom of the long slide having been much worn, renewals had to be effected at various places and new posts, braces and key-blocks substituted for those worn out and decayed. About 300 lineal feet of foot-boards had to be replaced on the top of posts on the side of slide, and owing to the very great pressure to which the slide is

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subjected by the body of logs passing through it, portions of the structure had to be brought into alingment and the sills levelled up. A section of the main dam above the chute was wrecked by the ice shoves of last spring and as a temporary expedient a pier was placed in the gap, so that a water supply for the slide could be maintained.

Black River.—The following repair works were carried out on this stream:—Replacing with sound materials worn out timbers and plank in the sides and bottom of the High Falls slide; making and placing in position new stop-logs; driving in projecting spikes in the planking of slide; unwatering channel by the use of temporary dam; splicing and sheeting glance boom and furnishing new stay timber for same and planting new oak snubbing post in side pier at the head of slide.

On the Petewawa and Dumoine rivers it was deemed advisable to have an inspection and measurements made preparatory to the execution of certain necessary

repairs which must be proceeded with at an early date.

RE-CONSTRUCTION.

The work done under this head was on the Petewawa River where at Crooked Chute it was found that the slide bottom was so much worn as to require complete renewal, and as nothing in the timber line but hardwood would stand any length of time, and as this could only be obtained by a long haul of twenty miles over a difficult road and at very great expense, it was found that a more economical protection could be afforded by laying 6 inch by $\frac{1}{4}$ inch flat iron bars longitudinally with small intervals on the bottom. The work was done on this principle and the ends of boom pieces and stays dressed anew, while defective posts and sills in the slide were replaced by sound ones.

At Bois dur Station the work of blasting obstructions from the bed of the river was undertaken with the view of abandoning the slide. The portion of the work done has had a very good effect on this season's running of timber and logs and at the stage of lowest water this autumn, it is intended to carry out to completion the blasting necessary to clear the channel. The cost of this work will be very much less that of the reconstruction of the slide, which is in a very dilapidated condition; while the charge for maintenance will be comparatively small involving only the repairing of guide booms and support piers. There will be also a saving of time for the raftsmen, as the drives can be much more expeditiously taken down the improved river bed than through a slide.

Cedar Lake dam.—The bulkhead pier on the north side was partially rebuilt and a new pier placed about 300 feet above the dam for the purpose of supporting guide boom leading to the sluiceway and at the extreme southerly end of dam, a pier 18 feet by 5 feet by 4 feet was built to fill the gap caused by a washout.

At Devil's Chute a pier dam 72 feet by 9 feet by 7 feet was built in the northerly channel between an island and the shore to raise the water in the southerly outlet

and prevent jams.

The bed of the stream was improved for facilitating the descent of timber, &c., by blasting and removing rock obstructions at the following rapids on the upper reaches of the Petewawa River viz., "Cedar," "Sault," "Devil's Chute," "Sawyer," "Squirrel," "Memo," and "Ragged Chute."

The water this spring rose to a great height in the Ottawa and tributary rivers, and damage to a considerable extent was done at some of the stations by ice shoves and the pressure of the floods, notably at High Falls on the Coulonge River where a section of the main dam was displaced and carried away, the substructure of the slide near the chute pushed out of alignment, and the piers above slide entrance partially wrecked.

To control the floating masses of logs and timber at the time of highest water, was attended with gaeat difficulty; but at a later period, the pitch of water was favourable for driving and on most of the streams, therefore, a satisfactory sweep

for the season of 1896 may be augured.

The following statement, which is copied from a return furnished by the collector of slide dues in your department, shows the quantities of the various descriptions of timber that passed the Government works, together with the revenue accrued as tolls for the fiscal year covered by this report:—

Square timber	15,124	pieces.
Saw-logs	4,116,705	· (i
Shingle logs	8,598	166
Boom timber	142,623	"
Railroad ties	88,813	"
Fence posts	32,914	"
Cedar logs	19,934	"

4,424,711 "and 8,2391 cords pulpwood.

The revenue accrued on the above was \$49,328.04. In respectfully submitting the above,

I have the honour to be, sir,

Your obedient servant,

GEO. P. BROPHY, Supt. Eng'r O. R. Works.

THREE RIVERS, 20th August, 1896.

Louis Coste. Esq.,
Chief Engineer
Department of Public Works,
Ottawa.

Sir,—As requested by your communication, No. 1933, of the 15th ultimo, I have the honour to submit the following report on the works under my charge on the St. Maurice River for the fiscal year ended 30th June last.

The freshets of the season 1895 were as usual. The river commenced to rise at the beginning of April and reached its maximum height on the 23rd April, corres-

ponding to 19.7 feet above low water.

After the 3rd of June, the water commenced to recede rapidly and reached its minimum height on the 14th September, 1895, corresponding to 2.8 feet on gauge at Grandes Piles.

The fluctuation of the water level has been great during the season, varying

from 3 to 147 feet, giving a high pitch of water for the descent of the logs.

During the working season in 1895, for the descent of the logs, from the 16th April to 30th October, the water level rose during 53 days and receded during 97 days, and was at a stand still during 24 days.

Out of the 190 days, we had 81 days when the river gave a good pitch of water

for the floating of the logs.

The average height of water for the working season was 5.1 feet above low

water summer level.

At the time of low water, an examination was made of the foundations of the river structures; and, as soon as it was possible to do so, the necessary repair and reconstruction work was begun and continued after the season of navigation had closed, which may be described as follows:—

At Grandes Piles Station.—In the spring of 1894, ice shoves wrecked some five of the boom support piers (No. 5, 6, 7, 8 and 12)—several had to be rebuilt (Nos. 12, 13 and 14) others were partially taken down and had the damaged timbers

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removed and replaced by new ones; plank fenders spied on the exposed sides of the piers; snubbing posts planted and the stone filling brought up to level, also 1,663 feet of single boom were renewed at Les Plaines, below Grandes Piles Falls.

At Grand'-Mère Station.—Slight repairs were made to the booms above and below the falls. Additional boom chains were provided for the work here and certain

minor repairs carried out.

At Shawenegan Station.—Five anchor piers (Nos. 77, 78, 79, 80 and 81) were built with 700 feet of three-ply booms, above the Shawenegan falls. The bottom and sides of the slide were partially repaired by replacing the worn-out timber and planking with new material, the projecting spikes in the bottom and sides of the slide were counter sunk. Slight repairs were made to the house occupied by the boom master at Shawenegan Bay.

At the beginning of January, 1896, the highest flood ever known on the river in winter time occurred, and grave fears were entertained for the safety of the booms. About 800 feet of the booms at Shawenegan Bay were totally destroyed in the fall at

the Grès.

A quantity of chain was procured for the booms at this place and the fastenings

made secure.

At Three Rivers Station.—Pier No. 33 at Ile aux Cochons had to be rebuilt from the water's edge, others were partially taken down and had the damaged timbers removed and replaced by new ones, mooring posts were placed where necessary. Additional chains were provided to increase the capacity of the booms above the railway bridge.

On the 31st December, 1895, water rose considerably on the River St. Maurice, ice moved at the railway bridge and carried about two thousand feet of booms into

the St. Lawrence and several piers were considerably damaged.

The following statement, furnished by the collector of slide and boom dues in your department, shows the quantities of the various descriptions of timber that passed the Government works, for the fiscal year covered by this report:—

Statement of the number of saw-logs, etc., passed through the St. Maurice River

works during the season of 1895.

Saw-logs	Pieces. 763,597 400,013
Total	1,163,610

The revenue accrued was \$21,358.74.

The amount of expenditure for staff, maintenance, repairs and improvements for fiscal year ended 30th June, 1896, was:—

Staff and maintena	\$8,114.01		
Repairs and impro	veme	nts:	
Grandes Piles Grand'-Mère Shawenegan Three Rivers	do do	on	203.37 1,901.45
Total expenditure	for 1	895-96	\$ 13,759.39

I have the honour to be, sir,

Your obedient servent,

F. X. THOS. BERLINGUET,

Resident Engineer.

TRENT AND NEWCASTLE DISTRICT,
SUPERINTENDING ENGINEER'S OFFICE,
PETERBOROUGH, 15th July, 1896.

Louis Coste, Esq., Chief Engineer of Public Works, Ottawa.

SIR-I have the honour to submit the annual report on the works under my

charge for the fiscal year ending 30th June, 1896.

The works under my supervision in this district are constructed for two purposes, namely, those constructed to facilitate the descent of timber, and those constructed for the benefit of navigation. The former of these are under the control of the Department of Public Works and the latter under the control of the Department of Railways and Canals.

The works are situated along the River Trent (and its upper waters) and Trenton, on the Bay of Quinté, a distance of about 170 miles. This district has a watershed of over 2,000 square miles, which is bounded on the north by the

Muskoka and Madawaska rivers.

The regulation of the water from this large watershed, when being used to float down the timber, is a matter of great importance to the many industries

situated along the route and to navigation.

The water during the spring was above the average height for this season of the year, but did very little damage to the works. There was good water on the several reaches during the year. The regulations regarding the size of bags of logs were not as strictly carried out as they should be. It is impossible to keep navigation clear in the more contracted parts of the channel unless the logs are brought down in small bags.

The works are now in good condition, and most of the larger works that are required to facilitate the descent of timber are now constructed, so that for some time a comparatively small sum only will be required yearly for this purpose.

The following repairs were executed:

Fenelon Falls.

The booms leading to the slide at the upper entrance were repaired.

Buckhorn.

The slide, booms and piers were repaired.

Burleigh.

The glance booms were repaired.

Katchewannoe Lake.

The boom at Henderson's Narrows was broken during the winter. This was replaced and repaired.

Little Lake.

The piers in the lake which were damaged by the ice were repaired and the boom was also overhauled.

Peterborough.

The slide which was leaking badly was repaired. The piers of the slide were sheet-piled and planked, and a puddle trench was put along the upper end of the slide. A new boom 246 feet in length was placed as a glance to the upper entrance to the slide. Minor repairs were also done at several other stations.

I inclose a table showing the number of pieces of timber which passed through

the slides and booms during the past year.

I have the honour to be, sir,

Your obedient servant,

RICHARD B. ROGERS,
Superintending Engineer.

STATEMENT showing the number of saw-logs, &c., &c., which passed through the different slides on the River Trent and Newcastle District Works, for the fiscal year ended 30th June, 1896.

Station.	Pine	Boom	Railway	Fence	Long	Бітепвіоп	Spruce	Other	Telegraph
	Saw-Logs.	Timber.	Ties.	Posts.	Cedars.	Тішbег.	Logs.	Saw-Logs.	Poles.
Fenelon Falls. Buckhorn. Burleigh Falls Young's Point Lakefield Peterborough. Hastings Heeley's Falls.	243,266 186,300 186,300 194,914 194,914 242,200 242,200	750 3,407 4,244 4,244	52,083 3,000 91,700 91,700 91,700 45,100 45,100	5,276 5,276 5,276 5,276 24,358 24,358	50 50 50 50	260 260 260	842 842 842 1,218 1,218	22,000 22,000 22,000 19,854 18,640	1,500 No return.

BRIDGES.

During the year the bridge at Cartier was completed and the construction of a swing bridge across the Burlington Channel leading from Lake Ontario to Hamilton Harbour was commenced, and the work nearly completed at the close of the fiscal year.

Repairs were made to the various bridges in the city of Ottawa; the Portage du Fort Bridge over the River Ottawa; the Battle River Bridge at Battleford; and the Langevin Bridge across the Bow River at Calgary.

BURLINGTON BRIDGE.

For many years past the only means of conveying vehicles and passengers from one side of the Burlington Channel to the opposite, has been a ferry scow and a punt. Of late years the traffic, at this place, has increased to so large an extent that it was found impossible to accommodate the public, and this department prepared plans and specifications for the erection of an iron swing bridge.

On the 22nd August last, a contract was let to Mr. Geo. F. Webb, of Hamilton, to build the masonry, including foundations, for the pivot pier and abutments, for

the proposed bridge at this place, for the bulk sum of \$15,799.00.

The work was set out for the contractor on the 10th October last, and the excavation for the foundation of the pivot pier commenced at same time. The caisson was placed in position on the 18th November. Work was continued with but little delay from bad weather, and the whole of the masonry completed ready for the iron superstructure in April last.

A certificate for \$14,000 on account of this work was issued in favour of the

contractor on the 14th April last.

The iron work for the superstructure is being delivered and it is expected the bridge will be in working order at an early date.

Total expenditure for dredging \$1,500.

CARTIER.

The village of Cartier is situated on the St. Louis River in the county of Beau-

harnois, Que., 6 miles from Valleyfield.

A sum of \$250,00 was authorized for the building of the approaches to the bridge erected by this department during the fiscal year 1894-95 over the St. Louis River at this place. This amount was, however, not sufficient to carry out the work, which was completed by the municipalities interested.

The total amount expended by this department was \$247.25.

PORTAGE DU FORT.

The village of Portage du Fort is situated on the North shore of the Ottawa

River in the County of Pontiac, Que., 60 miles North of Ottawa.

A sum of \$50.00 was authorized for repairs to the approach bridge. Two of the counter posts and some of the braces were renewed, missing bolts were replaced, and all the bolts in the structure were tightened.

The amount expended was \$49.67.

BATTLE RIVER BRIDGE, BATTLEFORD.

The Battle River bridge spans the Battle River at Battleford, in the district of Saskatchewan.

Battleford is situated at the junction of the North Saskatchewan and Battle

rivers

The bridge was constructed in 1890, by day's labour after being taken out of the hands of the Contractors, Messrs. Hency & Kennedy, and consists of one span 150 feet Howe truss, and two spans of 70 feet each, with trestle approach at north end, and two abutments. In 1892 the bridge was painted and repaired. The bridge

requiring repair, the work was begun in July and closed in August, 1895.

The repairs consisted in replanking the trestle approach, and such of the planking taken from the approach, as could be utilized was used in repairing the flooring of the main bridge, and the bridge cross planked to a width of 12 feet in the centre, with 2 inch plank, screwing up all rods and bolts, and making such minor repairs, as were most necessary. Towards the end of the fiscal year further work was done consisting in removing the stone from the pier, and drawing the timbers to place by braces through the corners of 1 inch iron rods, 2 feet 6 inches apart, with iron straps 4 inches wide, $\frac{1}{2}$ inch thick and 8 feet long. The pier was refilled with stone. The filling in behind the pile protection was properly done, also some minor repairs, and painting.

The total sum expended during the fiscal year 1895-96 was \$1,278.96.

"LANGEVIN BRIDGE," CALGARY, ALBERTA.

The "Langevin Bridge" spans the Bow River at the town of Calgary. Calgary is the principal town and railway centre (branch lines of the Canadian Pacific Railway to Edmonton and Mucleod) of the district of Alberta. It is also a division station of the Mounted Police.

The bridge is a Howe truss, and consists of three spans and trestle approaches.

It was constructed under contract in 1890.

During the freshet of 1894, the piers were undermined to some degree, and the up stream ends of both settled. The down stream ends held to their original bearing. The settling of the piers threw the superstructure very much out of plumb, and not only left the bridge in a very shaky condition, but worse in appearance.

During the year the bridge was repaired, the work consisting in levelling up the piers to their proper level, plumbing the superstructure, putting in pile protection, and rip-rapping up stream end of piers with the piers is some minor repairs

were also attended to, the whole at a cost of \$1,385.96.

SURVEYS AND EXAMINATIONS.

Surveys and examinations were made of the following localities during the year:—

NOVA SCOTIA.

Arisaig . Antigonish. Aspey Bay Victoria Bayfield . Antigonish. Bear Cove . Digby. Carey's Passage . Richmond. Cerberus Rock . do Cow Bay . Cape Breton. Cribbin's Point . Antigonish. East Chezzetcook . Halifax. Fourchu . Richmond. Grand Etang . Inverness. Grand Grève . Richmond. Great Tancook Island . Lunenburg. Hampton . Annapolis. Kennington Cove . Cape Breton. Lismore . Pictou. Mabou . Inverness.	Merigomish Pic Morden Kir Moydart An McNair's Cove. North Sydney. Cap Oyster Pond. Gu Petit de Grat Ric Pictou Island. Pic Pleasant Bay Inv Port Maitland Ya River Hebert. Cu Saulnierville. Dig St. François Harbour. Gu Somerville Qu Stony Island She Toney River Pic Trenton	ng's. ttigonish. do po Breton. ysborough. chmond. ttou. verness. rmouth. mberland. gby. ysborough. een's. elburne.
MabouInverness.	Trenton d	do
Main à Dieu	Trout CoveDig	gby.

NEW BRUNSWICK.

Anderson's Hollow	. Albert.	Moncton	Westmoreland.
Black Brook	Northumberland.	Negro Point	St. John.
Black River	St. John.	Neguac	Northumberland.
Burnt Church	Northumberland.	Partridge Island	
Campbellton	Restigouche,	Petit Rocher	Gloucester.
Cape Tormentine		Pokemouche	
Dalhousie	Restigouche.	Quaco	
Edgett's Landing	Albert.	Richibucto	
Fort Dufferin	St. John.	Rocher Bay	Albert.
Gardner's Creek	do	Salmon River	
Gray's Island	Albert.	Shediac	
Herring Cove	. do	Shippegan	Gloucester.
Hillsborough	. do	Stonehaven	. do
Lower Newcastle	Northumberland.	Tracadie	do
Miramichi	do	River St. John	• • • • • • • • • • • • • • • • •
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PRINCE EDWARD ISLAND.

Bay Fortune King's. Brae Harbour Prince. Canoe Cove Queen's. Egmont Bay Prince. Hurd's Point do Lambert's Pier King's. Murray Harbuor do	New LondonQueen's.Port SelkirkdoRusticodoSourisKing's.TignishPrince.Vernon RiverQueen's.				
QUE	BEC.				
Bic. Rimouski. Coteau du Lac. Soulanges. Coteau Landing do Gentilly Nicolet. Ile aux Coudres Charlevoix. Ile Perrot Vaudrenil. Les Eboulements Charlevoix. Little River St. François do Longueuil Chambly. Murray Bay Charlevoix.	Oak Point. Bonaventure. Percé. Gaspé. Pointe Citrouille. Chambly. Pointe St. Charles. Hochelaga. Rivière Blondelle. Montmorency. Rivière du Loup. Temiscouata. Rivière Noire. Charlevoix. St. Lambert. Chambly. St. Alphonse. Chicoutimi.				
ONTA	ario,				
Amherstburgh Essex. Bronté Halton. Burlington Beach Wentworth. Coburg Northumberland. Goderich Huron. Kingston Frontenac. Kingsville Essex. L'Orignal Prescott. Owen Sound Grey.	Port Burwell Elgin. Port Dover Norfolk. Port Hope Durham. Prescott Grenville. Rainy River Algoma. River Castor Stormont. River Saugeen Bruce. River Thames York.				
MANITOBA.					
GimliSelkirk.	Red RiverSelkirk.				
BRITISH COLUMBIA.					
Victoria HarbourVancouver Island.					

During the year 840 official papers were referred by the secretary of the department to this office for report or action. The letters received from resident engineers and others were about 10,000, and 4,239 were sent out.

I have the honour to be, sir,

Your obedient servant,

LOUIS COSTE, Chief Engineer.

APPENDIX No. 4

REPORT OF THE COLLECTOR OF REVENUE

DEPARTMENT OF PUBLIC WORKS, \$1895-96.

REPORT OF THE COLLECTOR OF REVENUE.

DEPARTMENT OF PUBLIC WORKS, COLLECTION OF REVENUE. OTTAWA, 30th November, 1896.

E. F. E. Roy, Esq., Secretary, Department of Public Works. Ottawa.

SIR,-I have the honour of submitting my report for the fiscal year ending 30th

June, 1896.
I have examined the books and accounts of the different officials under my control, excepting those of the dock master at Esquimalt; and have much pleasure in testifying to their accuracy, and that the rules laid down by the department have been complied with by these gentlemen, who have faithfully accounted for all the revenues collected by them.

With your permission, I will refer to the different sources of revenue seriatim,

commencing with that from

SLIDES AND BOOMS.

OTTAWA DISTRICT.

The revenue accrued, including interest; amounted to \$49,400.15 or \$2,711.05 less than the previous year: yet \$400 more than the average revenue anticipated when the tariff was revised in 1894. The revenue accrued would have been much larger, but for the unusually large quantity of logs left in the tributaries of the

Ottawa, for want of water to bring them out.

The number of saw-logs which passed through the works was 498,098 pieces more than in 1894-5, but the falling off in the revenue is attributable to the smaller average measurement of the logs, as they are now taking as small as 7 inches in diameter, while but a few years ago, in purchasing logs, the contracts specified that only five per cent of 13 inches and under would be accepted: hence as the lumbermen now bring down the tops of trees which they formerly left in the woods, the measurement of which is very small, it will be readily understood how it is that the tolls being levied on the 1,000 feet B. M. are smaller than in previous years, although the number of pieces was larger.

I have much pleasure in stating that all the revenue accrued during the year ending 30th June last, in the Ottawa district, has been collected.

Of the dues accrued since 1st July, 1889, there remain at this date uncollected. \$6.903.05, Chaudière boomage, which it was reported to the Public Accounts Committee in 1895 should be written off. Then there are \$28.42 for which legal proceedings have been taken to recover and \$379.80 against which Mr. J. R. Booth has an acknowledged account against this department, but payment of which was refused by the Auditor General, because certain old charges, reported to the Public Accounts Committee had not been written off. These items making the total stand at the same figure as last year, namely, \$7,311.27, details of which will be found in Statement No. 2 herewith.

Of the dues accrued prior to 1st July, 1889, there was collected during the last fiscal year \$419.10 which reduces the total uncollected under this head to \$56,805.65, all of which should be written off. For details see Statement Nos 1 and 3, herewith.

Of which the	ed during the year 1895-96, inclu here was collected during the	•			υ.
year Collected a	ince 1st July, 1896	\$ 48,965 4 34	94 21	\$19,400	15
The gross collec	ctions were as follows:—				
Dues of 189	95–96	84 8.965	94		
do 189	94–95	738			
	80			\$50,123	33
Dues accru	ntstanding on 30th June last, were need prior to the collection being		OW	8:	
Dues accru transfer	ned prior to the collection being red to this Department, 1st July,		low:		65
Dues accru transfer 1889	ned prior to the collection being red to this Department, 1st July,			\$:— \$ 56,805	65
Dues accru transfer 1889 Dues of 188	ned prior to the collection being red to this Department, 1st July,	\$ 6,903		\$ 56,80 5	65
Dues accru transfer 1889 Dues of 188 do 189 do 189	red to this Department, 1st July, 39-90	\$6,903 28 379	05 42	\$ 56,805	
Dues accru transfer 1889 Dues of 188 do 189 do 189	red to this Department, 1st July,	\$6,903 28 379	05 42 80	\$ 56,805	
Dues accru transfer 1889 Dues of 188 do 189 do 189	red to this Department, 1st July, 39-90	\$6,903 28 379 434	05 42 80 21	\$56,805 7,745	48
Dues accru transfer 1889 Dues of 188 do 189 do 189	red to this Department, 1st July, 39-90	\$6,903 28 379 434	05 42 80 21	\$56,805 	1:

All of which but \$28.42 should be written off, being uncollectable.

I would take the liberty of drawing attention to the fact that since the collection of slide and boom dues was transferred to this departement, 1st July, 1889, in the Ottawa district, of the revenue accrued, after deducting \$6,903.05 Chaudière boomage that should not have been charged, namely, \$434,652.05; only \$28.42 has not been collected.

Herewith are the statements above referred to:-

No. 1. Statement of amounts outstanding prior to 1st July, 1889, uncollected 30th September, 1896.

No. 2. Statement of amounts accrued at Ottawa since 1st July, 1889, uncol-

lected 30th September, 1896.

No. 3. Statement of dues outstanding at Quebec prior to 1st July, 1889, uncollected 30th September, 1896.

No. 4. Statement of number of pieces square timber, saw-logs, etc., which passed through the Ottawa district works, during the year ending 30th June, 1896. No. 5. Statement of dues accrued from each of the slides and works in the

Ottawa district during the year ending 30th June, 1896.

ST. MAURICE DISTRICT.

The revenue for 1895-96 reached the satisfactory figure of \$21,358.74, all of which was collected during the fiscal year, and was the largest revenue from the district since the works were constructed.

The arrears outstanding at the time I took charge remain at the same figure,

as last year, namely: \$14,481.49, all of which should be written off.

Statement No. 6 contains all the details of those outstanding dues.

SAGUENAY DISTRICT.

Again, this year, there was no revenue whatever. By Order in Council of 5th February, 1896, these works were abandoned.

NEWCASTLE DISTRICT.

The accompanying statement No. 7 shows \$6,058.34 yet outstanding, of which \$3,521.19 should be written off.

With regard to the remainder, \$2,537.15, a proposition of settlement is before the

department.

Summary of collections of slide and boom dues:

GENERAL REMARKS.

Apart from exports to Great Britain, sawn lumber, during the past season, was very dull, and the quantity of square and waney timber taken out the smallest on record. Prospects for the coming winter are however brightening, as more than twice as much square timber will be taken out as last year and the quantity of sawlogs manufactured will not be very greatly diminished.

GRAVING DOCKS.

LEVIS GRAVING DOCK.

The revenue for the year ending 30th June last was \$8,835.39 or \$5,159.80 less

that in 1894-5. For full detail, see statement No. 8 herewith.

It will be seen that the dock was occupied for 65 days as against 114 days in 1894-95, but was also occupied by the SS. "Campana" and Government dredge "Challenger" from 26th November, 1895 to 28th April, 1896.

The tonnage of vessele docked in 1894-95 was 14,835, and in 1895-96, 16,106 tons.

KINGSTON GRAVING DOCK.

The total revenue from this work during the financial year was \$3,954.78, as

against \$2,450.33 in 18945.

As it was found that the tariff as reduced in April, 1895, would not yield sufficient revenue to pay working expenses, it was decided to revert to the old tariff from 11th April, 1896, the charges since that date being, on vessels of 100 to 500 tons, for dockage 20c. per ton and 10c. per ton for all in excess of 500 tons; 10 cents per ton for each lay day. In no case less than \$20.00 per day.

The result being that from the opening of navigation to 30th June, 1896, the

revenue was \$1,538.49, while for the same period in 1895 it was only \$1.175.33.

It will be seen from the detailed statement No. 9, herewith, that the tonnage of vessels docked during the year was 25,063.60, as against 10,493½ tons during 18945.

ESQUIMALT GRAVING DOCK.

The revenue was \$10,221.68 or \$3,883.43 more than in 1894-5.

The tonnage of vessels docked was 26,731 tons, against 21,573 tons in the

preceding year.

During the year, as will be seen in statement No. 10, herewith, the dock was occupied by vessels of the British Navy for 76 days, beside one of them having been 39 days in the dock before 30th June, 1895, on all of which only actual working expenses were paid, as per agreement.

LOCKS.

RIVIÈRE DU LIÈVRE.

The revenue from this source was \$230.35 or \$173.97 less than the previous vear.

RIVIÈRE YAMASKA.

From this lock the revenue was \$284.40, being \$73.38 less than in 1894-5. It is worthy of remark that owing to the high water in the River Yamaska last spring, it was 10 days later than the previous year when the first vessel passed through the lock.

Thus the total collections from all sources, that passed through my hands were

as follows:-

From	Slides and booms	\$71,482	07
	Graving docks		
"	Locks	514	73
	Total	\$ 95.008	65

In conclusion, I have to thank all the officials with whom I have to deal, for their strict adherence to the rules laid down for their guidance and the uniform courtesy so cordially extended to me during the past year.

> I have the honour to be respectfully, sir, Your very obedient servant,

> > EDWARD T. SMITH. Collector Public Works Revenue.

No. 1.—Statement of Slidage and Boomage from the Ottawa Slides and Works accrued prior to 1st July, 1889, outstanding on 30th June, 1896, and remaining uncollected on 30th September, 1896. -s p

Remarks.		Insolvent. Overcharge. Insolvent.	0 p 0 p	do do	do do	op	op op	do do	do F	op	Overcharge.	op	\$398.88 counter-claim for damage by the breaking of Coulonge boom.		Chandidre Romane —These parties claim that they have maintained	these works wholly at their own expense since 1881.	•		
Year to which Dues belong.		1873 1876 1872 and 1873	1873 and 1874	1873 and 1874	1874 and 1875 1871 to 1874 1861, 1862, 1864,	1869, 1875 to	1875 to 1877	1877	1886		1883 1882 and 1883	1881	1881 to 1888		1881 to 1885	1886 and 1887	1881 to 1885	1884	1881 to 1883
Total Dues outstand ing on 30th Sept. 1896,	s cts.	53 14 9 29 342 50	148 148 261 42	600 528 80	3,507 92 9,807 65	3	5,558 5,568 5,46 30 30 30 30 30 30 30 30 30 30 30 30 30	11 25	23 20	28. 28.	5.6 26.6	101	10,270 81 8,880 85	3	£ 2	200	1,461 20	3 53	8
Other Slide and Boom Dues dis puted.	s cts.								:		:	: :	88 88 88	:	:		:		
Chaudière Boomage in Suspense.	e cts.												9.871	300	8,180 79	1,060 59	1,461 20	406 27	258 88
Bad and Doubtful Debts.	e cts.	63 14 9 29 342 50			3,507 92 9,807 65		5,558 2,588 546 80	1.558 50	E 8	488 28.	5.8 2.4	101	:	:	:		:		
By Whom Due.		John & Wm. McLean James Yuill John Rowan	Lemieux & Charette. Taillon & Lapierre Mosgrove & McHarry	J. W. C. Wells Dufresne & McGarity	Walton Smith A. H. Baldwin Hon. James Skead		Batson & Currier A. F. A. Knight.	James Walker. R. Campbell & Son	James G. Bryson	N. E. Cormier	J. & B. Grier B. & W. Conror	A. & P. White	J. R. Booth	The Bronsons & Weston Lumber	Co	G. A. Grier & Co	Estate late Levi Young	Gilmour & Co	

A. 1897

No. 1.—Statement of Slidage and Boomage from the Ottawa Slides and Works accrued prior to 1st July, 1889, outstanding on 30th June, 1896, and remaining uncollected on 30th September, 1896.—Concluded.

Кепаткя.	Counter-claim for damages by breaking of Coulonge works. Overcharge.
Year to which Dues belong.	1886
Total Dues outstand- ing on 30th Sept., 1896.	\$ cts. 252 20 4 33 55,653 90
Other Slide and Boom Dues dis- puted.	\$ cts. 252 20
 Ohaudière Boomage in Suspense.	\$ cts.
 Bad and Doubtful Debts.	\$ cts. 4 33 23,997 28
Ву Whom Due.	J. & G. Bryson. B. Caldwell & Son

EDWARD T. SMITH,
Collector of Slide and Boom Dues.

DEPARTMENT OF PUBLIC WORKS,
OTTAWA, 23rd November, 1896.

No. 2.—Statement of Slide and Boom Dues accrued from the Ottawa River Works since 1st July, 1889, outstanding on 30th September, 1896.

Remarks.	Chaudière boomage, reported to Council and referred to the Treasury Board. Should be written off. Legal action taken to recover this. Retained by Mr. Booth in settlement of an account due him which the Auditor General refuses to pay, as Mr. Booth appeared to be in arrears in this and Statement No. 1.
Total outstanding.	\$ cts. 2,561 69 2,056 96 11,203 26 167 66 913 48 28 42 37 98 17 68 17 68 17 68 7,495 46
Ordinary Dues.	\$ cts. \$ cts. 2,561 69 2,066 96 1,203 26 1,67 66 913 48 28 42 379 80 17 63 17 63 16 58 6,903 05 592 43
Chaudière Boomage in Suspense.	\$ cts. 2,561 69 2,056 96 1,203 26 167 66 913 48
Years to which Dues belong.	1889-90 1889-90 1889-90 1889-90 1889-91 1892-91 1895.
NAME.	J. R. Booth The Bronsons & Weston Lumber Co. Perley & Pattee William Mason & Sons. Alex. Fraser, acct. of Thos. Stephens. J. R. Booth William Mason & Sons (Paid Oct. 21, 1896. William Mason & Sons (Paid Oct. 19, 1896.

DEPARTMENT OF PUBLIC WORKS,
OTTAWA, 23rd November, 1896.

EDWARD T. SMITH, Collector of Slide and Boom Dues.

No. 3.—Statement of Outstanding Slide Dues, Ottawa District, bonds for which were sent to Quebec for collection.

Name.	From 1860.	From 1861.	Total.
Hon. James Skead	\$ cts. 245 00	\$ cts. 210 00 696 75	\$ cts. 455 00 696 75
	245 00	906 75	1,151 75

These accounts were uncollected, as the parties claimed damages for loss caused by the Madawaska boom breaking away in 1860.

A decision on their claims was not arrived at till 2nd August, 1869, on the 5th idem, Messrs. Skead and Mair were notified that the department could not recognize their claim.

To the best of my knowledge this decision was never communicated to the collector of slide dues, consequently their accounts remained in abeyance.

Since then, both parties died, and I believe both were insolvent at the time of their death.

DEPARTMENT OF PUBLIC WORKS, OTTAWA, 23rd November, 1896.

EDWARD T. SMITH, Collector of Slide and Boom Dues.

A. 1897

No. 4.—STATEMENT of the number of pieces of square timber, saw logs, &c., that passed through the Government slides and works, on the River Ottawa and its tributaries during the fliscal year ended 30th June, 1896.

Square timber Saw logs Shingle logs. Boom timber Railway ties Fence posts. Cedar logs.	8,598 142,623 88,813	do
and 8,2394 cords pulp woods.	4,424,711	do

The revenue accrued on the above was \$49,328.04.

DEPARTMENT OF PUBLIC WORKS, OTTAWA, 30th September, 1896.

EDWARD T. SMITH, Collector of Slide and Boom Dues.

No. 5.—Statement showing the dues accrued on the undermentioned works on the River Ottawa and its tributaries, during the fiscal year ending 30th June, 1896.

River or other Improvement.		Amoun	ıt
			c
fain Ottawa	 .	4,648	(
henaux boom		8,480	8
iver Petewawa		13,345	7
do Madawaska		8,666	1
do Coulonge	<i></i>	4,542	٤
do Dumoine		633	ŧ
lack River	. . i	2,302	2
atineau boom		6,708	6

Accrued amounting to forty-nine thousand three hundred and twenty-eight dollars and four cents.

DEPARTMENT OF PUBLIC WORKS, OTTAWA, 30th September, 1896. EDWARD T. SMITH, Collector of Slide and Boom Dues.

No. 6.—Statement of Slide and Boom Dues from the St. Maurice Slides and Works outstanding on 30th June, 1896, and remaining uncollected on the 30th September, 1896.

Name.	Year to which dues belong		Total.	Remarks.
		\$ cts.	\$ cts.	
George Baptist, Son & Co.	1878	469 95		,
do do .	1000	2,110 62		<u> </u>
	1880	1,696 18		1 }
do do .	4004	293 69	İ	Have counter claims for damages to logs caused
do do .	1882	165 80		by the booms not being stretched early enough
do do .	. 1884	118 50		in the spring of 1878 to prevent the logs going
do do .	. 1888	4 28		over the chutes.
	1		4,859 02	\
Ross, Ritchie & Co		3,072 84		These claims were submitted to special commis-
do		2,173 68		sioner Mr. McDougall, afterwards judge, who after hearing the evidence on both sides,
do		28 96	1	who after hearing the evidence on both sides,
do	. 1886	1 62		recommended that the claims of the parties should be allowed.
do	. 1887	4 38	E 001 40	snould be allowed.
Alamandan Dambiat	. 1879		5,281 48 2,116 96	11
Alexander Baptist William Ritchie & Co		779 24	2,110 90	'
do	1	332 11		
do	1886	002 11	1 111 25	Of this amount \$754.20 is claimed to be an over-
Ritchie Bros	1886	413 43	1,111 00	charge.
do	1887	634 71		o.m.Bo.
do	100.		1.048 14	This amount is composed of overcharges in 1886
				and 1887 of \$842.76 and overpayment in 1884 of \$205.38.
G. B. Hall		 		Insolvent.
T. E. Normand	. 1890	1		Claims that this balance is an overcharge.
Trefflé Biron	. 1891			Would cost more to collect than it is worth.
			14,481 49	
	1	ļ	1,	

DEPARTMENT OF PUBLIC WORKS, OTTAWA, 23rd November, 1896.

EDWARD T. SMITH, Collector of Slide and Boom Dues.

No. 7.—Statement of Slide and Boom Dues accrued from the Newcastle and Trent River Works, Outstanding on the 30th June, 1896, and remaining uncollected on the 30th September, 1896.

Name.	Year to which dues belong.	Amount.		Remarks.
		8 c	ts.	
T. G. Hazlett	1881, 1882, 1884 and 1889	885 2	25	
J. M. Irwin	1882, 1883, 1885 and 1888	698 4		
D. Ullyott	1881 and 1887	547 6		
Estate George Hilliard Greene & Ellis	1882 and 1886	354 1	l5	
	and 1889	157 0)1	
Irwin & Boyd	1881	59 7	79	Insolvent.
Thomson & McArthur	1880	52 7	78	do
A. W. Parkin	1884, 1885, 1888, 1890 and			
	1891	65 9		
The Dixon Estate	1883	137 5		
Jabez Thurston	1882	12 5		Insolvent.
Alfred McDonald	1888	40 8 13 0		
John Parkin	1889 1879	65 (Insolvent.
McDougall & Ludgate	1882 and 1885	216 2		do
Bigelow & Trounce	1882, 1883, 1885, 1886 and	210 4	υL	uo uo
n. & G. Strickland	1837	215 (ng.	do
Gilmour & Co	1893	690		Disputed; referred to the Depart-
dimodi & co	1000	0,,5 €		ment of Justice.
The Rathbun Co	1893	1,846	5 7	do do
		6,058 3	34	

The actual amount due by the Rathbun Co., for 1893, was \$2,222.89 and is reduced to this amount \$1,846.57 by crediting them with \$376.32 paid in 1892 on account of arrears, which sum in accordance with judgment in the case of Boyd vs. the Queen was illegally collected.

EDWARD T. SMITH, Collector of Slide and Boom Dues.

DEPARTMENT OF PUBLIC WORKS, OTTAWA, 23rd November, 1896.

THE DRY DOCK AT LEVIS.

No. 8.—Statement of Dues and other charges collected during the Year ending 30th June, 1896.

Name of Vessel Docked.	σί	Period of	DOCKAGE.	Dockage	Other	Total.
NAME OF VESSEL DOCKED.	Tonnage.	From	То	Charges.	Charges	10041.
		1895.	1895.	\$ cts.	\$ cts.	\$ eta
Turret Cape. Canada Brizilian Canada Campana	2,000	Aug. 6 Nov. 3 " 16	July 20 Aug. 16 Nov. 14 " 24 ering.	1,250 00	8 00 5 00 10 00 13 20	769 08 1,250 00 1,791 88 1,206 64 1,013 20
		1896.	1896.		1	
Turret Cape	2,881	June 4 Entry Wint		2,487 59 200 00 100 00	17 00	2,504 59 200 00 100 00
	10,106			8,782 19	53 20	8,835 39

EDWARD T. SMITH, Collector of Public Works Revenue.

DEPARTMENT OF PUBLIC WORKS.
OTTAWA, 30th September, 1896.

THE DRY DOCK AT KINGSTON.

No. 9.—STATEMENT of Dues and other charges collected during the Year ending 30th June, 1896.

N on Venez- D	ا	PEI	RIOD OF	Doca	KAGE.	Dockage	Other	Trans. 1
NAME OF VESSEL DOCKED.	Tonnage	F	rom	,	То	Charges.	Charges.	Total.
		18	395.	18	895.	\$ cts.	\$ cts.	\$ ct
arge Nebraska acht Cleopatra ug Rigaud tr. America. arge Detroit arge Montreal. ug Petrel. arge Acadia. 374	387 10441 4664 55303 350 337 34576	July do do do do do do do	8 9 12 16 17 22	do do do do do	8 10 13 17 18 20 23	38 70 20 00 20 00 72 65 35 00 33 70 34 58		38 70 20 00 20 00 72 6 35 0 33 70 34 5
Tug Bronson	444 522 ^{7 8} 138 ^{5 8} 180	do Aug. do do	25 8 12 12	Aug.	26 10 12 13	20 00	5 00	44 4 69 4 25 0 20 0
Tug Bronson	445 1,168 ⁹² 387 186 ²⁶ 114 ⁸⁸	do	19 23 24 26 29		20 24 24 27 30	44 50 83 47 38 70 20 00 20 00	13 00	44 5 83 4 38 7 33 0 20 0
Barge Union 303 'ug Petrel Barge Iowa 365 Barge Coal Heaver 143	488 ⁵ 11 ¹⁶	Sept.	2 4	Sept.		48 85 20 00		48 8 20 0
str. Owen Sound Sarge Montreal Itr. Tecumseh Sarge Duluth Sch. S. H. Dunn 48373	508 731 ⁷⁷ 337 839 ⁶⁷ 337	do	6 9 13 16 21	do do	7 13 14 17 21	50 40 138 45 33 70 66 98 33 70		50 4 138 4 33 7 66 9 33 7
Cargo (ore)	1,183 ⁷ 3 363 185 ⁵	do do Oct.	23 26 14	do do Oct.	26 27 14	167 05 36 30 20 00		167 (36 3 20 (
Cargo	1,310 ⁶³ 438	do do	18 21		19 21			90 43
Barge Bella Barge Jennie Fug Walker Barge Chicago Barge Toronto 335	1,017 ¹³ 454 461 ⁰⁸ 138 ⁵⁸ 350	do	4 5 20	do	5 6 21	61 29 46 11 40 00	9 50	77 61 9 46 49 35
Tug Walker	47358	do	4	do	5	47 36		47
Tug J. Hall 29 Cug Thompson 185° Tug J. Hall 29	469°	do	5	do	7	79 83		79
str. Myles	214 ⁵ 1,210 ⁶³ }	do do	9 13	To	10 winter, il 15, '96	entrance	1 1	21 100 615

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THE DRY DOCK AT KINGSTON-Continued.

No. 9.—Statement of Dues and other charges collected during the Year ending 30th June, 1896.

NAME OF VESSEL DOCKED.	ě	PERIOD OF DOCKAGE.				Dockage		Other	Total.		
TABLE OF VESSEL DOCUMEN	Tonnage.	From		То		Charges.		Charges.			
		18	396.	18	396.	\$	cts.	\$	cts.	\$	cts
Str. Islander	118 ⁶¹ 553 ⁰³ 872 ⁹⁵	April do do	18 20 21	April do do	18 21 22	105	73 31 30			105	73 31 30
Tug Walker 13858 Barge Acadia 374 Barge McCarthy 254	17458	do	22	do	23	34	92			34	92
Elevator Ceres 252 Barge Union 303	628	do	24	do	25	112	80			112	80
Barge Cornwall	555		27	do	30	222	05			222	05
Barge Minnie Francis. Str. G. H. Morley Stm. barge Seguin Barge Senator Barge McCarthy Tug Petrel Str. Seguin Str. America. Overpayment	623 ⁶⁸	do do do do do June do	1 7 8 11 16 27 2 3		2 8 9 16 18 28 2 3	154 131 61 50	00 58 81 80 80 16 81	10		20 154 131 61 50 69 136 112	81 80 80 16 81
	25,06360	!				3,894	77	66	00	3,954	78

EDWARD T. SMITH, Collector of Public Works Revenue.

DDPARTMENT OF PUBLIC WORKS, OTTAWA, 30th September, 1896.

THE DRY DOCK AT ESQUIMALT.

No. 10.—Statement of Dues and other charges collected during the Year ending 30th June, 1896.

Name of Vessel Docked.	oj	PERIOD OF DOCKAGE.				Dockage		Other	Total.	
NAME OF VESSEL DOCKED.	Tonnage.	From		То		Charges.		Charges.	Total.	
		189	9 5.			\$	cts.	\$ cts.	\$	cts
H.M.S. "Hyacinth". H.M.S. "Wild Swan". Steamer "Warrimoo". H.M.S. "Nymphe". Str. "Strait of Sunda". H.M.S. "Pheasant". Str. "Quadra". Str. "Mathilda". Str. "Quadra".	1,130 3,335 1,140 2,992	May July Aug. Sept. do Nov. do do Dec.	22 12 25 30	Aug. Sept. Oct. Nov. do	26 19 28 3	1,042 Workin 600 Workin	2 00 g ex. 0 00 g ex.	49 20	1,091 199 609 407	9 85 1 20 9 94 9 00 7 67
		18	96.							
H.M.S. "Satellite"	2,380	Jan. Feb. March April do June	1 9 4 13	do Feb. March April do June	3 11 4 28	624 Workin 356 1,389	i 00 g ex.) 00) 50		225 350 1,389	1 00 5 27 0 00
•	26,731									
Water supplied "Kilbrannan" 4,000	0 galls						••••		2	2 4 0
									\$10,221	1 68

EDWARD T. SMITH, Collector of Public. Works Revenue.

DEPARTMENT OF PUBLIC WORKS, OTTAWA, 30th September, 1896.

APPENDIX No. 5

LIST OF SOME OF THE ACTS OF PARLIAMENT

PASSED AT THE SESSION OF 1896

HAVING

REFERENCE TO THE DEPARTMENT OF PUBLIC WORKS OR WORKS UNDER ITS CHARGE.

List of some of the Public Acts of the Parliament of Canada passed at the Sixth Session of the Seventh Parliament, closed by Prorogation on the 23rd day of April, 1896, and having reference to the Public Works Department or works under its charge (59 Victoria).

Subject.	Full Title of the Statute.	Chapter.	Page in Statute Book.
Sums granted to Her Majesty for the financial year ending 30th June, 1896, and the purposes for which they are granted.	An Act for granting to Her Majesty certain sums of money required for defraying certain expenses of the public service, for the financial years ending respectively the 30th June, 1896, and the 30th June, 1897, and for other purposes relating to the public service.	1	3
For authority to borrow a sum of \$1,000,000,000 for construction and improvements in the Harbour of Montreal.	An Act respecting the Harbour Commissioners of Montreal	10	40
As to liability of contractors toward workmen, &c., &c.	An Act respecting the liability of Her Majesty and public companies for labour used in the construction of public works		27

N.B.—Tariff proposed to be charged by the Upper Ottawa Improvement Company during season 1896—Order in Council passed on the 18th February, 1896. Page LXX.

J. A. CHASSÉ, Law Clerk.

DEPARTMENT OF PUBLIC WORKS, OTTAWA, 30th November, 1896.

APPENDIX No. 6

STATEMENTS

Showing

- 1st.—CONTRACTS LET BY THE DEPARTMENT OF PUBLIC WORKS OF CANADA, FROM THE 30th JUNE, 1895, TO THE 30th JUNE, 1896.
- 2nd.—PROPERTY PURCHASED OR SOLD BY THE DEPARTMENT OF PUBLIC WORKS, DURING THE FISCAL YEAR ENDED 30TH JUNE, 1896.
- 3rd.—PROPERTY LEASED TO AND BY THE DEPARTMENT OF PUBLIC WORKS, DURING THE FISCAL YEAR ENDED 30th JUNE, 1896.

CONTRACTS LET, PROPERTY PURCHASED AND LEASED.

OTTAWA, 30th November, 1896.

SIR,—I beg leave to submit the following statements which are required for insertion in the annual report 1895-96, viz.:

- No. 1.—Statement of contracts let by this department during the fiscal year ended 30th June last.
- No. 2.—Statement of property purchased and sold by this department during the same period.
- No. 3.—Statement of property leased to and by this department during the same period.

I have the honour to be, sir,

Your obedient servant,

J. A. CHASSÉ, Law Clerk.

E. F. E. Roy, Esq., Secretary of the Department of Public Works of Canada, Ottawa.

No. 1.—Contracts let by the Department of Public Works of Canada, from the 30th June, 1895, to the 30th June, 1896.

Works.	Names of Contractors.	Date of Contract.	Amount.
Public Buildings.			\$ cts.
Government House, Parliament and Departmental Buildings.			
Parliament and Departmental buildings—Supply of coal	I.I. W. McKae	July 8, 1895	11,106 58
Parliament and Departmental buildings and grounds —Removal of snow Parliament and Departmental buildings—Supply of	W. H. Cuddie & Co		
ice	Ottawa Ice Co	1	1
"Mastic de Seyssel"	Bellhouse, Dillon & Co.		Sched. rates.
Gas governors.	"The Citizens Gas Con-	do 19 1900	do
Rideau Hall—Removal of snow	Alexander Hunter	Nov 19 1905	999 00
9—131		,	ir. coom vi

No. 1-Contracts let by the Department of Public Works, &c.-Continued.

		Works.				Nar o Contra	f		Date of ntra		Amou	nt.
F	Ривые Вин	LDINGS—Co	ntinued	<i>ī</i> .							\$	cts
	Na	va Scotia.										
Amherst pos	st office buil	ding-Sup	oly of c	oal		The Cumb	erland Ry.					
Annapolis	do		do			& Coal Co The Canac)	A no.	õ,	1895	186	3 00
	_					Ry. Co. (]	Ltd)	July	30,	1895	149	2 88
Antigonish	do		do		• • • • •	R. L. McLe James Kenr	ean	Aug.	1,	1895 1895	9	7 42 3 20
Arichat do cu	do stom-house		do do	• •		Burchell Br	11.04	do		1895		1 00
	vings bank		do	• • •				do		1895		00
Baddeck, po			ďo			do		do	12,	1895	9	7 50
Dartmouth			do			Intercolonia			ŕ			
	_						atd)	do	17,	1895	70	96
Halifax	do	a:	do		•••		do			1895		7 68
do Dor do exa	minion build mining war	ohouse	do do	• • •		Acadia Coal do	do	do		1895 1895		5 80 4 79
do con	mining war struction of	a drill hall	uo			John E. As	kwith	July		1895		
do con	struction of	an immigr	ant bui	lding		Rhodes, Cu	irry & Co.	0 413	٠,	2000	100,00	• ••
						(Ltd)		Jan.	24,	1896	14,39	0.00
unenburg	post office-	-Supply of	coal.			James Kenr	na	Aug.	3.	1895	210	6 84
New Glasgo						Acadia Coal			3,	1895	12	9 15
North Sydn	ey do	do do				Burchell Br			12,	1895	13	7 50 1 2 8
Pictou publi do post	officeEre	uu ction of a h	esting	annar	tus.	Frank Pow	(12)	Feb	29	1895 1896	65	1 2c
	do Su	pply of coal				Fred. Routl	ledge	Aug.	7.	1895	21	2 00
do pub	lic building	Lighting	by ele	ctricit	y	"Sydney G	ar & Elec-				1	
	_					tric Light	CO. (Lta)	l do	5,	1895	p. 1000 v	wau 16
							. ~ ~ ~ ~					
	office—Sup	ply of coal.	· · · · ·		••••	The Canad	la Coal &	T7-			,	
Fruro, post	_				· · · · ·	The Canad Ry. Co. (1	la Coal & Ltd)	July	30,	1895	14	0 29
Truro, post	ło	ply of coal. do do			<i>.</i>	The Canad	la Coal & Ltd) do	July July July	30, 30,		14 15	
	ło do	do .	· · · · · · · · · · · · · · · · · · ·		<i>.</i>	The Canad Ry. Co. (1 do	la Coal & Ltd) do	July July	30, 30,	1895 1895	14 15	0 29 3 08
Truro, post of Windsor of Yarmouth of	do Prince	do do Edward Isl	and.			The Canad Ry. Co. (I do do	la Coal & Ltd) do do	July July July	30, 30, 30,	1895 1895	14 15 16	0 29 3 08
Fruro, post of Windsor of Yarmouth of Charlottetov Montague p	do Prince I wn Dominio	do do Edward Isl	and.	ly of c	oal	The Canad Ry. Co. (1) do do C. Lyons & George Wig	la Coal & Ltd) do do do	July July July Aug.	30, 30, 30, 30,	1895 1895 1895 1895 1895	14 15 16 35	0 29 3 08 2 50 4 65 4 76
Fruro, post of Windsor of Yarmouth of Charlottetov Montague p	do Prince I wn Dominio	do do Edward Isl	and.	ly of c	oal	The Canad Ry. Co. (1 do do	la Coal & Ltd) do do do	July July July Aug.	30, 30, 30, 30,	1895 1895 1895	14 15 16 35	0 29 3 08 2 50 4 65
Truro, post of Windsor of Yarmouth of Charlottetov Montague p	Prince I	do do Edward Isl	and. – Suppl	ly of c	oal	The Canad Ry. Co. (1) do do C. Lyons & George Wig	la Coal & Ltd) do do do	July July July Aug.	30, 30, 30, 30,	1895 1895 1895 1895 1895	14 15 16 35	0 29 3 08 2 50 4 63 4 76
Fruro, post Windsor of Yarmouth of Charlottetov Montague p Summerside	do Prince I wn Dominio ost office do New	do do Edward Isl on building	and. Suppl	ly of co	oal	The Canad Ry. Co. (i do do C. Lyons & George Wig Burchell Br	do do do do do	July July July Aug. do	30, 30, 30, 1, 6,	1895 1895 1895 1895 1895 1895	14 15 16 35 4	0 29 3 08 2 50 4 65 4 76 4 94
Fruro, post Windsor Warmouth Charlottetov Montague p Summerside Bathurst po	do Prince I wn Dominio ost office do New	do do Edward Ist on building Brunswick upply of co	and. Suppl	ly of co	oal	The Canad Ry. Co. () do do C. Lyons & George Wig Burchell Br James S. M do	la Coal & Ltd)dododo	July July Aug. do do July	30, 30, 30, 1, 6, 12,	1895 1895 1895 1895 1895 1895	14 15 16 35 4 3 3	0 29 3 08 2 50 4 63 4 70 4 94 6 60 2 97
Fruro, post of Windsor of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warmouth of Warm	Prince I wn Dominio out office do New st office—St do do	do do Edward Ist on building Brunswick upply of cod do	and. Suppl	ly of co	oal	The Canad Ry. Co. () do do C. Lyons & George Wig Burchell Br James S. M do Chas. Powe	la Coal & Ltd) do do do Co thtman lcGivern	July July July Aug. do do July do Aug.	30, 30, 30, 30, 1, 6, 12,	1895 1895 1895 1895 1895 1895 1895 1895	144 15 16 35 4 3 3 3 3 3 3 3 3	0 25 3 08 2 50 4 65 4 70 6 60 2 97 3 70
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No. 1.—Contracts let by the Department of Public Works, &c.—Continued.

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No. 1.—Contracts let by the Department of Public Works, &c.—Continued.

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Orillia public	building—lightin	g with electricity	"Corporation of the				
do Lang	gevin block, post of	arm—supply of coal fice, geological and fish- tier square—Removing		July do	25, 1895 30, 1895	sched. ra 752	
an	ow		F. G. Guv	Nov.	19, 1895		
Pembroke po Peterboroug Petrolea	ost office—supply of h do do do do	of coal	T. Fitzgerald Huffman-Gibson Coa	do]	30, 1895 30, 1895	296	78
Port Hope	do do		Brown & Henning	. do	30, 1895 30, 1895		
Prescott	do and custo	m-house—supply of coa	Isaac W. Plumb	Aug.	20, 1895	217	50
St. Catherine St. Thomas	es do supply of do do	coal	People's Coal Co	. Aug.	30, 1895 22, 1895		
Stratford	do do	litions and alterations to	M. F. Goodwin	July	31, 1895		14
		3	inter	. Uct.	2, 1895	319	00
Strathroy po		of coal	Uo.	. nv	30, 1895		
Twomton room	toffina d	0	Chag Crowo	l do	31, 1895 31, 1895		
Trenton, pu	one ounding—rig	hting with electricity.	Co."	May		p.an. 200	
Walkerton Windsor	post office do	••••••	S. W. Vogan J. & T. Hurley	July Aug.	30, 1895 10, 1895		
	, Manitol	ba.					
Portage La	prairie—Construc	of coal	• i	1	16, 1895 29, 1895		
		of coal	The Alberta Ry.	&	,	1	
do	custom-house	do	Coal Co	. Sept. Dec.	21, 1895 2, 1895		
do	immigrant buildin Indian and Crown	gs—Supply of coal timber offices—Suppl	do do	do do	2, 1895 2, 1895	76	50
do	or coarexamining wareho	nuse		. do	2, 1898		
	North-west Te	rritories.					
Calgary im	migrant building-	-Supply of coal	. A. B. Few & Co	Oct.	9, 1893		48
	st office urt-house	do do	. do	do do	9, 1895 9, 1895		
do re	gistry office	do	. do	. do	9, 189 9, 189		
do pu	blic works office	da		. do	9, 189	5 40	46
Edmonton I	Dominion land offi d experimental fa	ce do	W. M. Humberstone. Geo. Thompson	. Sept.	20, 189 12, 189		
Lethbridge	public building—	Lighting with electricity	The Lethbridge Wate works and Electr	r- ic			
Moose Jaw	court-house—Sup	ply of coal	Paul Knight & McKir	. July		Sched. ra	
Moosomin	do	do ,	nondo	. Aug.	6, 189 6, 189		85
Regina	do	do		do	6, 189	630	80
do	post office	do	1 -	do	6, 189		75
do do	fand titles' office	doStor barrack building—Stor	. do do	do	6, 189	21	30
	foundations ur	der barrack building	. Wm. Henderson		28, 189	5 3,500	00
worserey, C	British Col		non		6, 189	5 193	65
37 . 117 .			David Rain	۵۰	19 100	g @ 000) AA
New Westi	ninster—Construc	tion of a drill hall		ao	13, 189	5; 6,889	, 00

198

No. 1.—Contracts let by the Department of Public Works, &c.—Concluded.

Works.	Names of Contractors.	Date of Contract.	Amount.
Harbours and Rivers.			
Nova Scotia.			
Ross Ferry, Boularderie Island—Construction of wharf Seaside do	John McMillan Hugh Henderson		
Prince Edward Island.			
Souris—Construction of a block at the outer end of the breakwater	Heney & Smith	Feb. 17, 1896	27,950 00
New Brunswick.			
Burnt Church—Construction of a public wharf Gardner's Creek—Construction of wharf	Lawrence Doyle Thos. Brown Carson	Aug. 14, 1895 July 1, 1895	12,450 00 7,400 00
Quebec.			
Philipsburg—Construction of pier	Olivier Lefebvre	do 29, 1895	9,942 00
Ontario.			
Burlington Channel, swing bridge—Construction of the masonry	Geo. F. Webb	Aug. 22, 1895	15,799 00
swing bridge	Dominion Bridge Co., Limited	Jan. 28, 1896	15,290 00
VESSELS, DREDGES AND PLANT.			
New steel boiler for Dredge "Prince Edward" Marine return tubular boiler for "Tug No. I" Two steel hopper barges	J. C. Weir & R. S. Weir	April 6, 1896	4,695,00
Telegraph and Signal Service.			
Lillooet to Hat Creek, B.C.—Construction of a telegraph line	Wm. H. Keatley	July 8, 1895	Sched. rates

J. A. CHASSÉ, Law Clerk.

DEPARTMENT OF PUBLIC WORKS, OTTAWA, 30th November, 1896.

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Price.	e cts.	108 70		1 00	2,500 00			đ	100 00	4,000 00	b of an acre,
Area.		:	c acre. mc	less		c 4,150 sq. ft.	2,350 sq. ft., more	\$2 ±26°	less	ublic 8,400 sq. ft	1th of an acre,
For what purpose.		Government purposes	Right of way to a public	Ž.	do	For erec		Public purposes	ob	For erection of a p	Wharf purposes
Description of Property.		Her Majesty Telephone line, Shawenigan to Grandes Piles Government purposes	phone Line	Pontoon or floating stage at the entrance of "Grande Dichard," I also S. John P.O.	Wharf stone house and approaches at Magog, P.Q., lot NY, 931 (A.)	Tract of land and premises, part of lots Nos. 11 and 13, John St., North, Arnprior.	Tract of land and premises, part of lots Nos. 11 and 13, John St., North, Arnprior	Parcel of land and buildings, Point Edward, N.S. Public purposes. Lot of land being a portion of the south beach at the entrance of Pictou Harbour, N.S. Harbour improves	Lots Nos. 1, 2, 3, 4, Grand Etang, N.S.	Picton, Ont.	Lot of land situate at Seaside, shore of St. George's Bay, N S
Purchasers.		Her Majesty	: op	- ep	: op	ф	qo	: : ဝ ှင်	op op	} ,	ච
Vendors.		July 18 Ephrem Desiletsdo 20 Elie Grenier	Aug. 13 Geo. Fraser et ux	Oct. 14 B. A. Scott	Aug 7 C. C. Smith Co	Nov. 28 B. V. Stafford & Rudd	do 28 C. McLachlin et ux	do 7 Jas. Keating et ux Dec. 7 Chs. McKinnon et ux	Mch 21 Moses Doucet et ux		April 14 Alex. J. McDonald et ux.
Date of Conveyance.	1895.	July 18	Aug. 13	Oct. 14	Aug 7	Nov. 28	 % op 20	do 7	1896. Mch 21	: :	April 14

th June, 1896.	Annual rental payable.	re. \$ 1 do \$ 16 do \$ 16 do \$ 16 do \$ 16 do \$ 5 do
ear ending 30	Duration of Lease.	1 year During pleasure. do 30 years During pleasure.
during the Fiscal Y	For what purpose.	Storage of coal for public buildings
No. 3.—Statement of Property Leased to and by the Department of Public Works during the Fiscal Year ending 30th June, 1896.	Property leased.	Ottawa, Rideau Canal Basi", wooden shed Ottawa River Government Reserve, piece of ground Long Point Rouge Edmonton to St. Albert, telephone line of about 9 miles McNair's Cove, N.S., portion of western lot of land on the shore of Bay St. George. River St. Charles, Quebec, permission to build a temporary bridge Duudas, Ont., ground floor of the "Elgin House."
Property Leased to	Lessee	Distri
STATEMENT OF	Lessor.	1895. July 8., J. W. McRae Her Majesty Oct. 24 Her Majesty Alfred Desjardins do 24 do The Edmonton Co., Dec. 30 do L. C. Archibald., 1896. Feb. 7 do Narcisse Blais Mch. 24. R. T. Wilson Her Majesty
No. 3.—.	Date of Lease.	1895. July 8 Oct. 24 do 24 Dec. 30 1896. Feb. 7 Mch. 24.

DEPARTMENT OF PUBLIC WORKS,
OTTAWA, 30th November, 1896.

APPENDIX No. 7

NAMES OF THE CHIEF OFFICERS OF THE DEPARTMENT OF PUBLIC WORKS

WITH

DATE OF APPOINTMENT, &c., FROM 1841 TO 1896.

NAMES OF THE CHIEF OFFICERS.

APPENDIX No. 7.—The names with the date of appointment, &c., of the principal Officials of the Department of Public Works, from 1841 to 1896.

Names.	Canadity of Office	Date of Appointment. Served				
Names.	Capacity or Office.	From	То			
Under Statute 4-5 Vic., Cap. 38.						
Corporation Board of Works.						
Killaly, Hon. H. H	Chairman					
Daly, Hon. D	Members	Dec. 29, 184	1 Oct. 3, 1844			
Begly, Thomas A	Secretary	Aug. 17, 184	1			
Keefer, Samuel	Chief EngineerArchitect and Assistant Chief	do 17, 184	1			
New Board of Works.	Engineer		1			
Killaly, Hon. H. H	Chairman					
Daly, Hon. D	1	Oct. 5, 184	4 June 8, 1846			
Draper, Hon. W. H Morris, Hon. W. Papineau, Hon. D. B.	Members	000. 5, 181	3 une 0, 1040			
Under Statute 9th Vic., Cap. 37, dc.						
Robinson, Hon. W. B	Chief Commissioner		6 March 10, 1848			
Taché, Hon. E. P	do	March 11, 184 Dec. 15 184	8 Nov. \26, 1849 9 March 31, 1850			
Merritt, Hon. W. H	do	April 20, 185	0 Feb. 11, 1851			
Bourret, Hon. J. Young, Hon. John Chabot, Hon. J.	do	Feb. 15, 185 Oct. 28 185	1 Oct. 27, 1851 1 Sept. 22, 1852			
Chabot, Hon. J	do	Sept. 23, 185	2 Jan. 26, 1855			
Lemieux, Hon. F	ao					
Holton, Hon. L. H	do	Aug. 2, 185	8 do 6, 1858			
Sicotte, Hon. L. V	do	Ton 15 195	8 Jan. 10, 1859 9 June 12, 1861			
Cauchon, Hon, Jos	Commissioner	June 15, 186	1 May 23, 1862			
Tessier, Hon. U. J Drummond, Hon. L. T	do		3 do 27, 1863 3 July 23, 1863			
Laframboise, Hon, M	do	July 23, 186	3 March 29, 1864			
Chapais, J. C	Second Commissioner	Aug. 1 184	A)			
Cameron, Hon. M	Assistant Commissioner	March 11, 184	8¦			
Wetenhall, John Bourret, Hon. Jos.	do	Feb. 2, 185 April 20, 185				
Killaly, Hon. H. H Keefer, Samuel	i do	Trob 15 10 €	1			
Trudeau, Toussaint	Deputy Commissioner	May 6, 185 March 15, 186				
Begly, Thomas A	Secretary	Sept. 25, 184	7			
Trudeau, Toussaint	do	Dec. 13, 185	9			
Braun, Frederick Page, John	Chief Engineer	Oct. 31, 185	3 July 2, 1890			
Under Statute 31 Vic., Cap. 12.	net .					
McDougall, Hon. WmLangevin, C. B., Hon. Hector L	do		7 Oct. —, 1869 9 Nov. 5, 1873			
Mackenzie, Hon. Alexander Tupper, C.B., K.C.M.G., Sir Charles	do	Nov. 7, 187	3¦Oct. 16, 1878			
Tupper, C.B., K.C.M.G., Sir Charles Langevin, C.B., K.C.M.G., Sir Hector L	do		8 May 20, 1879 9 Sept. 8, 1891			
migoring Orazi, intoining, on intoining	205	y 20, 101	o'roin o' 1991			

APPENDIX No. 7.—The names with the date of appointment, &c., of the principal Officials of the Department of Public Works, from 1841 to 1896—Concluded.

Names.	Capacity or Office.	D	ate of Ap Ser	pointn ved	nent.
Asmes.	Capacity of Office.	I	rom		Τυ
Under Statute 31 Vic., Cap. 12.—Con.					
Smith. Hon. Frank	Acting Minister	Aug.	14, 1891	Jan.	11, 1892
Onimet Hon, Joseph Aldric	Minister	Jan.	11, 1892		30, 1896
Desjardins, Hon. Alphonse Tarte, Hon. J. Israel	do	May	1, 1896	July	12, 189
Tarte, Hon. J. Israel	do	July	13, 1896		
Trudeau, Toussaint	Deputy Minister	July	1, 1868		1, 187
Baillairgé, G. F			4, 1879		18, 189
Gobeil, A	. do	Dec.	18, 1891		4 100
Chapleau, S	do	Nor	4, 1879		4, 188
Ennis, F. H			4, 1880 23, 1885		18, 189
Gobeil, A			18, 1891		10, 100
Roy, E. F. E			18, 1891		
Desroches, Charles Rodolphe	do	Jan.	8, 1896		
Parloy H F	Chief Engineer	Nov.	25, 1880		21, 189
Baillairvé, G. F	Assistant Chief Engineer	July	5, 1871		4, 187
Coste. Louis	. Chief Engineer	do	26, 1892		.,
Scott, Thos. S	. Chief Architect	Feb.	7, 1872	Nov.	4, 188
Fuller, Thomas		Oct.	31, 1881		

APPENDIX No. 8

NAMES OF THE OFFICIALS EMPLOYED ON THE SLIDES AND BOOMS OF CANADA

ON THE 30th JUNE, 1896

WITH

DATES OF APPOINTMENT, SALARIES, ETC.

OFFICIALS EMPLOYED ON THE SLIDES AND BOOMS.

STATEMENT showing Names, Dates of Appointment, Salaries, &c., of persons employed on the different Slides and Booms, on

			30th June, 1896.	e, 1896.		
Name.	Date of Birth.	Position.	Where employed.	Date of Appointment.	. Salary.	Беплаткя.
Collector of Slide and Boom Dues.					& cts.	
E. T. Smith	Nov. 26, 1846	1846 Collector	Ottawa	July, 1, 1889	1,675 60 per annum.	1, 1889 1,675 60 per annum. Date of first appointment to crown timber office, Ottawa, 23rd June, 1864. Clerk, Dept. of Inland Revenue, 1st July, 1870, to 30th June, 1889. Transferred to civil list with rank of first class clerk, 5th January,
8 James Slater	April 30, 1847	1847 Assistant collector	ор	Nov. 14, 1889 1,000 00	. op	1892. Date of first appointment to crown timber office, Ottawa, 21st April, 1877. Clerk, Dept. of Inland Revenue, 1st April, 1883, to 30th June, 1889. Transferred to civil list with rank of 3rd class clerk. January
James Steen	June 17, 1830	1830 Boatman	ор	July 12, 1889		1892. 60 00 per month, Employed during the season of navigation, for 8 months each year. Date of first appointment, 26th May, 1861. Timber coun.
John Redmond	August 2, 1833	ор	ор	do 12, 1889	op 00 09	ter, Ottawa, for Dept. of Inland Revenue, 7th Jan., 1884, to 30th June, 1889. Employed during the season of navigation, for 8 months each year. Date of first ap-
Saguenay District. Arthur Boulanger	Sept. 11, 1854	1854, Superintendent	Saguenaydo	May 19, 1881 Oct. 1, 1889	475 00 per annum. 30 00 per nonth.	pointition, 181 May, 1912. Assistant timoer counter, Ottawa, for Dept. of Inland Revenue, 7th Jan., 1884, to 30th June, 1889. Saguenay Works.—In addition to the Superintendent there are employed on the Sague.
						during the passing of the logs through the slides, which lasts one or two months. Saguenay District slides abandoned by authority of O. C. dated February 5, 1896, (No. 168,740). Services of A. Boulanger, superintendent, dispensed with Nov. 1, 1896. See O.C. October 12, 1896 (No. 175,640).

			250 00 do do de above officers, &c , there are employed above officers, &c , there are employed during the running season, one forman on al de at \$1.25 per day: also 25 to 30 labourers at from \$1.25 per day: also 25 to 30 labourers at from \$1.25 per day: also 25 to 30 labourers at from \$1.25 per day: also 25 to 30 labourers at from \$1.25 do ler day Actively employed about 7 months. Oversees repairs in winter. 250 per day Actively employed about 7 months. Oversees repairs in winter. 360 00 per annum. Actively employed about 7 months. Oversees navigation. Actively employed about 7 months. Oversees repairs in winter. 360 00 per annum. Employed about 3 months during season of mayigation. Oversees repairs in winter. 455 25 per day Employed about 3 months during season of navigation. Oversees repairs in winter. 456 00 do do do do do do do do do do do do do	op op
	00 per month. 67 do do 00 do do 16 do do 16 do do 00 do do	100-00 perannum.	250 00 do do 30 25 ler day 3 05 ler day 1 25 do do 1 25 do do 1 25 do do 1 25 do do 1 25 do do 1 25 do do 1 25 do do 1 25 do do 1 25 do do do do do do do do do do do do do	75 do
	54387888		9, 1 ,	-
-	1, 1886 25, 1881 10, 1879 1, 1895 7, 1886 1, 1895 1, 1895	1, 1882		187 <u>2</u>
	Aug. April Dec. June April Aug. July June	Jan.	July Oct. April Mar. Mar. July Mar. July Mar. Mar. April April April April April April	:
	Three Rivers Aug. Mouth of St. Maurice April Cap aux Corneilles Dec. Mouth of St. Maurice June Shawenegan April do and Gres Aug. Grand Mère July	Beleil Station	ottawa do do do do do do Carillon Gatineau Gatineau Ghats Hull Hull Hull High Falls Portage du Fort Lower Petewawa. Upper Petewawa. Upper Petewawa. Calumet Coulonge Dougontain Calumet Coulonge Coulonge Dougontain Calumet Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulonge Coulong	ор
	Paymater 1833 Slide master 1845 Asst. do Gate keeper Asst. slide master. do Boom master.	Boom master	Superinten 'ent Accountant Messenger Gerk Deputy slide mas Boom master Boom master Slide master Deputy slide mas do do do do do do do do do do do do do	00
	1845	:		0, 1841
	July 7,	: :	Feb. 24 Feb. 24 Feb. 25 June 22 June 22 June 22 June 17 June 17 June 17 June 17 June 17 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June 22 June	Sept. 16,
St. Maurice District.	Nap. Dagneau. Cyriac Lymburner Jos. Page. I Louis Hamel. Gedeon Brousseau. Arth. Pellerin. N. Lymburner Jos. Brousseau.	Richeticu District. Azarie Bienvenue		G. T. Johnson

R. STECKEL

Name.	Date of Birth.	Position.	Where Employed.	Date of Appointment.	Salary.	Remarks.
Newcastle District.					es cts.	
R. B. Bogers	Jan. 17, 1857	857 Superintendent	Peterboro'	July 1, 1884	800 00 per annum.	800 00 per annum. Receives \$800 per annum from Department
G. H. Giroux		Clerk, supt.'s Slide master do do	do Chisholm Rapids Fenelon Falls	July 1, 1880. April 1, 1883. July 1, 1895 July 1, 1891	400 00 200 00 do 100 00 do 100 00 do	of Kallways and Canals. do \$400 do \$250 per annum as lock master. do R. & C. Receives \$150 per annum from Department
Hamilton Johnston John Dinwoodie		do do	Heeley's Fall	July 15, 1893. June 20, 1895.	200 00 do 150 00 do	of Kaliways and Canals.
Burlington Channel.						
Swing Bridge.						
Wm. Omand. A. McDonald Ch. Rasberry Jos. Eustice.		Bridge attendant Burlington Go do do do do do do do do do do do do do	Burlingtondo	Sept. 19, 1896. April 1, 1896. Sept. 19, 1896. Sept. 19, 1896.	600 00 do 1 25 per day E 1 25 do	Employed 9 months. do do do
A. Labbé		Lock keeper	Yamaskado	Sept. 1, 1885 Sept. 1, 1885	40 00 per month. 40 00 do	
Kiviere du Lièrre. Alex. MacCallum Simon Raymond		Lock master Rivière du Lièvre May 14, 1892 Labourer April 1, 1894	Rivière du Lièvre	May 14, 1892. April 1, 1894	40 00 do 35 00 do	

APPENDIX No. 9

LIST OF ENGINEERS, ENGINEMEN, FIREMEN AND CARETAKERS

EMPLOYED

IN THE PUBLIC BUILDINGS THROUGHOUT THE DOMINION
ON THE 30TH JUNE, 1896

GIVING .

DATE OF APPOINTMENT, SALARY PAID, ETC.

ENGINEERS AND CARETAKERS, PUBLIC BUILDINGS.

STATEMENT showing the Engineers, Engineemen, Firemen, Caretakers, Hoist Attendants and Watchmen employed at Dominion Public Buildings on 30th June, 1896.

Fotal Salary Per Annum.	**************************************
Time Temployed	######################################
Salary Per Month.	** ***********************************
Date of Appointment.	Nov. 2, 1886 April 1, 1891 Dec. 23, 1886 May 2, 1881 Oct. 1, 1871 Go. 1, 1871 Go. 1, 1871 Jan. 20, 1886 Oct. 1, 1889 Oct. 2, 1889 Oct. 2, 1889 Dec. 22, 1889 April 3, 1890 Jan. 19, 1889 May 18, 1886 May 1, 1886 May 1, 1886 May 31, 1886 Jan. 12, 1886 Jan. 13, 1886 Oct. 1, 1886 May 31, 1886 May 31, 1886 Jan. 12, 1886
Position.	1824 Caretaker. 1820 do 1847 do 1846 do 1846 do 1831 Fireman 1834 Caretaker 1836 Fireman 1834 Caretaker 1832 Caretaker 1832 Caretaker 1832 do 1846 do 1846 do 1846 do 1846 do 1846 do 1846 do 1846 do 1846 do 1846 do 1846 do 1846 do 1846 do 1846 do 1846 do 1846 do 1846 do 1846 do 1847 do 1847 do 1847 do 1847 do 1847 do 1848 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844 do 1844
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Post office. Post office, &c. do do do Donnino building. Custom-house. Examining warehouse. do do do do do Post office. do Public building. Post office. Public building. Court house and C. house. Court house and C. house. do do do Public building. Post office. do do do do do do do do do d	do ob
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Prescott Stratford Stratford St. Catharines. St. Thomas Strathroy Smith's Falls Toronto do do do do do do do do do do do do do	Vancouver

APPENDIX No. 10

NAMES OF PERSONS EMPLOYED ON THE DIFFERENT GRAVING DOCKS

ON THE 30th JUNE, 1896

WITH

DATES OF APPOINTMENTS, SALARIES, Etc.

GRAVING DOCK EMPLOYEES.

STATEMENT showing Names, Dates of Appointment, Salaries, &c., of persons employed on the different Graving Dock-, 30th June, 1896.

	-		
Remarks.		1,800 00 per annum Annual allowance of \$200 for house rent. 75 00 per month 45 00 do 32 00 do 45 00 do 45 00 do 45 00 do 45 00 do 45 00 do 45 00 do 45 00 do 45 00 do 45 00 do 45 00 do 45 00 do 45 00 do 45 00 do 45 00 do	
Salary.	\$166 66 per month 1106 60 do 80 60 do 60 60 do 60 60 do 50 60 do	1,800 00 per annum 75 00 per month 15 00 32 00 do 45 00 do	1,400 00 per annum 75 00 per month 45 00 do 45 00 do
Date of Appointment.	Sept. 17, 1887. April 18t, 1887. Jan. 11, 1892. Dec. 1st, 1887.	April 13, 1891 June 1st, 1888 do 1st, 1888 April 9, 1891	July 2, 1892 do 18t, 1892 do 18t, 1892 do 18t, 1892
Where employed.	Esquimaltdo do do do do do do do do	Lévisdo do do do do do do do do do do do do d	Kingston do do
Position.	Dockmaster. Fingineer. Asst. engineer. Carpenter. Stoker. do Watchman.	er ngn'r and	Dockman 1st engineer. Fireman Watchman
Date of Birth.		30th June, 18	: : : :
Name.	Esquimatt Graving Dock, British Columbia. John Devereux A. C. Muir J. W. Muir J. W. Muir F. M. Jones E. Williams John Stack	Ulric Valiquette 30th June, 1856 Dockmaster Wm. Macdougall. Asst. mech'l engine Naroisse Lemelin. Fireman Théodore Chabot Care ta ker watchman.	James Wilson. Robert McLeod Wm. Geaghean C. Staley

R. STECKEL.

APPENDIX No. 11

TABULAR STATEMENT

SHOWING THE DATES OF

THE CLOSING AND OPENING OF NAVIGATION

AT THE PRINCIPAL PORTS OF CANADA

ON THE SEABORD, THE RIVER AND GULF OF ST. LAWRENCE
AND ON THE GREAT LAKES

1895-96

OTTAWA, 31st August, 1896.

SIR,—I have the honour to transmit, herewith inclosed, for insertion in the Annual Report of the Department, a statement showing the dates of the opening and closing of navigation at several ports in Canada, in 1895-96.

I have the honour to be, sir,

Your obedient servant,

M. McRAE.

E. F. E. Roy, Esq., Secretary, Department of Public Works.

OPENING AND CLOSING OF NAVIGATION.

STATEMENT showing the date of the closing and opening of navigation at the undermentioned ports in Canada, in 1895 and 1896.

Remarks.	Lake Madame Nov. 25, 1886, April 28 April 29 Baie des Chaleurs, Nov. 25, 1886, April 29 Baie des Chaleurs Nov. 25, 1886, April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20 April 20
Date of Opening 1896.	Mar. 10. April 28. April 28. April 12. April 20. April 20. do 13. April 28. April 20. do 15. April 20. do 15. April 20. do 27. do 27. do 27. do 27. do 27. April 3.
Date of Closing 1895-96.	rem Feb. 10, 1896 Mar. 10 Nov. 25, 1895 April 28 Doc. 23, 1895 May 112 Nov. 23, 1895 April 12 Jan. 7, 1896 April 12 Jan. 25, 1896 April 2 Jan. 25, 1896 April 2 Nov. 23, 1895 April 2 Nov. 26, 1896 April 2 Nov. 26, 1896 April 29 Jan. 1, 1896 April 20 Jan. 1, 1896 April 20 Jan. 6, 1896 April 20 Jan. 6, 1896 April 20 Jan. 6, 1896 April 20 Jan. 6, 1896 April 20 Jan. 6, 1896 April 20 Jan. 6, 1896 April 20 Jan. 6, 1896 April 10 Feb. 1, 1896 April 1 Feb. 1, 1896 April 1
Location.	Isle Madame Baie des Chaleurs Lake Ontario. Lake Ontario. Gulf of St. Lawrence Georgian, Bay, Lake Hur Gulf of St. Lawrence do St. Lawrence Lake Huron. Lake Huron. Lake Huron Lake Ontario Atlantic Ocean River St. Lawrence Gulf of St. Lawrence Atlantic Ocean Lake Superior do Srie do Ontario do Ontario do Brie River St. Lawrence do Ontario do Brie River St. Lawrence Atlantic Ocean Bay of Fundy River St. Lawrence Atlantic Ocean Bay of Fundy River St. Lawrence
Province,	
Ports.	Arichat, C.B. Nova Scotia Bathurst. New Brunswic Belleville. New Brunswic Clampbellton New Brunswic Clarifottetown P. E. Island Collingwood Ontario Georgetown P. E. Island Collingwood Ontario Georgetown Nova Scotia Kincardine Ontario Kingston Ontario Kingston Nova Scotia Montreal Nova Scotia North Rustico Perec Pictou. Port Arthur Ontario Perec Pictou. Port Arthur Ontario Perec Pictou. Port Arthur Ontario Port Arthur Ontario Port Spanley C.B. Nova Scotia Port Stanley Obec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec Roubbec

. St. Peter's Inlet, the Bras d'Or Lake and of the canal was aloned about	Sarnia Dec. 12, 1895. April 3. On St. Clair River. Sault Ste. Marie do Lake Superior do 11, 1895. do 18. Shediac Shediac Gulf of St. Lawrence. do 10, 1895. do 25. Tre in harhour was along the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the stre	River Richelieu. Nov. 30, 1836. do 20. Atlantic Ocean. Atlantic Ocean. Rept entrance blocked with heavy field ice. Jan. 22, 1896. Mar. 28. Vessels loaded coal on the 20th January. River St. Lawrence. Nov. 23, 1895. A tril 5. Leat demonstrate for 15th N. Sanuary.	Three Rivers Quebec do do Nov. 23, 1895. do 28. Gabriel Boulliamies," crossed to Rivière du Loup, April 5th. Toronto	The railway and city ferry boats crossed every day during the last	Winter.	
far. 30	do 18	de 28	6d 88.88	pril 16 far. 23	pril 26	
eb. 13, 1896.	ec. 12, 1895. All 11, 1895.	ov. 30, 1896.	ov. 23, 1895.	lo 25, 1895. A lo 5, 1895. N	ov. 25, 1895.	
Atlantic Ocean	Lake Huron Dake Superior Gulf of St. Lawrence	River Richelieu. Atlantic Ocean J. River St. Lawrence.	do Lake OntarioD	Georgian Bay, Lake Huron.	Lake Winnipeg Nov. 25, 1895. April 26	
Nova Scotia	Ontariodo do New Brunswick.	Quebec Nova Scotia Quebec	Quebec.	မှ မှ	Manitoba	
St. Peter's, C.B	Sarnia Sault Ste. Marie Shediac	Sorel Quebec Sydney, C.B. Nova Scotia. Zadousac. Quebec 1	Three Rivers Toronto	Windsor	Winnipeg Manitoba	

APPENDIX No. 12.

REPORT ON GOVERNMENT TELEGRAPH LINES

FOR THE

FISCAL YEAR ENDED 30TH JUNE, 1896

GOVERNMENT TELEGRAPH SERVICE.

DEPARTMENT OF PUBLIC WORKS,

OFFICE OF THE GENERAL SUPERINTENDENT,

OTTAWA, 13th August, 1896.

Sir,—I beg leave to submit herewith a list of the Government telegraph lines and cables, with data of lengths, year of construction, number of offices at present established, and an estimated average of the traffic obtaining; also the following report upon this service for the twelve months ended 30th June, 1896, with accompanying list of offices, operating staff, &c., in the several districts; and, for convenience of reference, a further appendix giving the tariffs for messages on the different lines.

I have the honour to be, sir,

Your obedient servant,

D. H. KEELEY, General Superintendent.

E. F. E. Roy, Esq., Secretary, Dept. of Public Works, Ottawa.

GOVERNMENT TELEGRAPH SERVICE.

Location	D	77	Lengt	гнз о г L	ines.	Number	Yearly Average
of Lines.	Points connected.	Year.	Land Lines.	Cables.	Total.*	of Offices.	of Mes- sages Sent.
			Miles.	Knots.			
	Port au Basque—Cape Ray North Sydney—Meat Cove (with	1883	14	••••	14	2	
do	loops)	1880-95 1880	1564	·····i)		
do	do St. Ann's Harbour	1887		3	1571	13	5,700
do	do Ingonish Harbour	1887		4 1	j		
do	Meat Cove—St. Paul's Island On St. Paul's Island	1890		20	} 23	2	50
	On St. Paul's Island	1890 1887	3	•••••)	Į.	
do	Mabou—Cheticamp	1883	63 16	• • • • • • • • •	63	7	2,000
do	Barrington—Cape Sable	1883		11	173	3	450
do	do Lt. House Channel	1883		1½ 1	1 -14	1	100
	Chatham—Escuminac	1885	42		42	5	750
do	Bay of Fundy System:					İ	1
do	Eastport—Campobello	1880		13	j	1	ļ
do	On mainland Eastport	1880	$7\frac{1}{2}$		1	{	
do	On Campobello Island	1880 1880	72	71		1	}
do do	Campobello—Grand Manan On Grand Manan Island	1880	251	(4	1	1	
do	Grand Manan—Cheney's Is-		204		441	8	600
40 11	land	1890		1/2	İ	•	1
do	On Cheney's Island	1890	3		1	1	1
do	Cheney's Island-Whitehead		_		į.		
0 1	Island	1890		3	, ,,,	0.]
Quebec	Bay St. Paul—Chicoutimi Murray Bay—Point Esquimaux	1881	92 456 3		92	6)	
do do	Across Saguenay River	1883	4504	11		}	
do	Bersimis to Manicouagan			124	} 496	35	18,400
do	Manicouagan to Godbout			26	{ !	1	i
do	Quarantine System:	l .		-	,		1
do	Quebec-L'Ange Gardien	1885	13	ļ)	1	1
do	L'Ange Gardien-Orleans Is-	1885	ì	8	11	}	
do	land On Orleans Island	1885	291	34]]		
do	Orleans Island—Isle Réaux		207	2	} 52 3	7	3,400
do	On Isle Réaux		$2\frac{1}{2}$	l	li		
do	Isle Réaux-Grosse Isle	1889	ļ <u>.</u> .	2	11		
do	On Grosse Isle (all told)	1885-94	31		()		
do		4004	20			1	1
do	Gaspé—L'Anse à Fougère	1881	28		1)		1
do	L'Anse à Fougère—Anticosti On Anticosti Island		2231	444	316	10	500
do	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1890	2204	21]]		
do				')	}	1
do	lands	1880		. 55	} 1381	9	50
do	On Magdalen Islands	. 1881	83	1/2	1002	1 9	,,,,,
Ontario	. Pelee Island System:	1		1	_	1	İ
do	Leamington—Point Pelee Point Pelee—Pelee Island	. 1889	12		208		50
do do	Point Pelee—Pelee Island	.} 1889 .⊢ 1889	12	. 84	324	7	300
North-west	. On Pelee Island	. 1009	12		1	1	1
A1/1041 HODGO	Albert	1883-87	6071	1	6073	15	4,20
do	Albert Moose Jaw – Wood Mountain	1885	901	1	90	2	25
British Columbi	A Ashcroft—Barkerville	1878-87	2761		276	8	2,00
do .	. Victoria—Cape Beale	. 1891	118	1	118	7	
do .	. Nanaimo—Comox and Alberni	. 1893-95			110		
do .	. Ashcroft—Lillooet	. 1896	62		62	1	50

^{*} For convenience in totalling, the knots of cable are regarded as statute miles.

REPORT ON ABOVE SERVICE FOR 1895-96.

NEWFOUNDLAND.

The line between Port au Basque and Cape Ray has been maintained in good order throughout the year, under the agreement by which it has all along been operated for the Government by the Anglo-American Telegraph Company.

MARITIME PROVINCES.

All of our lines in Nova Scotia and New Brunswick have been with ordinary general repairs kept in good and continuous working order since the last annual report was submitted, excepting the Barrington-Cape Sable connection, which in that report was stated to have been interrupted but put in order in the month of September, 1895, by the partial renewal of the cable across Barrington Passage. Four months later (in January) the other cable section of that system, between the island and the lighthouse became inoperative. It was, however, restored by local repairers in March, when the ice moved off, and the line then continued uninterrupted till the 16th June, when the Barrington Passage cable was reported to have again given out; but it was also put in order by the local repairers on the 4th July. The land line sections of that system are in good condition.

In the course of some general repairs on the Mabou-Cheticamp line, after extensive damage by a sleet storm in March last, it was found the poles for most part between Margarce and Cheticamp required renewal. An item is submitted in the supplementary estimates for this purpose, and a sufficient number of new poles has been procured to patch up and keep the line in working order in the meantime.

The Escuminac line for a length of about 4 miles approaching the point, was thrown down during a heavy storm in the first week of March and the lighthouse was thus cut off. So soon as the snow and ice disappeared the reconstruction was effected and communication was re-established in May in good time for local and marine requirements.

The Bay of Fundy system since the repair of the Grand Manan-Campobello cable (on the 22nd October, 1895), mentioned in last year's report, has been maintained in good order and free from interruption.

RIVER AND GULF ST. LAWRENCE.

The St. Paul's Island cable which had been interrupted and was put in working order last November, though not wholly repaired, because of the lateness of the

season, has, as anticipated, continued so far satisfactorily operative.

The cable between Anticosti Island and Long Point on the north shore ceased working on the 28th December, 1895. The shore ends were as far as possible examined by the local linemen with boats after the ice moved off in the spring and it was concluded the break was in deep water. The steamer "Newfield" has been applied for and the repair of this cable will be made as early as practicable. In the meantime uninterrupted communication has been had with Anticosti by the cable from Gaspé to South-west Point, and the lines on the island have been maintained in good order.

During an unusually heavy storm that prevailed along the St. Lawrence at the end of December, considerable damage was done to the line between Sault au Cochon and Bersimis, and on the 30th it was found the cable between Bersimis and Point aux Outardes had given out. In consequence of this and of the interruption of the Anticosti-Long Point cable at the same time, the whole of the north shore line below Bersimis was cut off during the greater part of January; but a messenger service between Bersimis and Manicouagan was established in the interval for the exchange of telegrams. On the 29th January the cable was got at and found to be

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considerably damaged on the shore at Point aux Outardes. It was temporarily repaired by the local agent, and later on (in April) was overhauled and put in good condition by the regular lineman, who at the same time examined the Manicouagan-Godbout section, and found it badly wasted away for a length of about $\frac{3}{4}$ mile at the Godbout end. To replace this a reserve length of the same type of cable (Ozokerited I. R.) that was on hand in Halifax was brought up to Rimouski and subsequently taken over on a small schooner and placed in position by our local agent, Mr. N. A. Comeau. The land line on the north shore has lately been gone over and generally repaired, a few pole renewals being made where found needful and the whole is now in first rate condition from Bersimis to Point Esquimaux.

The St. François-Isle Réaux cable of the quarantine telegraph system was subjected to another interruption from the 4th February till the 17th May, 1896, the earliest date at which it could be properly examined, owing to running ice followed by stormy weather. The cable was found to have been torn out of the cemented groove provided for it and badly crushed by ice. In fact, part of the shore ground including the groove had been scooped up and carried away under an unusually heavy pressure of ice, above low water mark and higher up than the new length of special type of cable put in last year. The damaged portion was replaced by a piece of good cable and as thus repaired the section was secured in its former

position which is about as good as is afforded at that spot.

The telephone system installed at the quarantine station in 1894 continues in reliable operation and has been found in every way satisfactory.

ONTARIO.

The Pelee Island connection was rendered inoperative during the past winter in consequence of a vessel's anchor having dragged into it during a heavy gale on the 26th November, 1895. An attempt was made forthwith to effect repairs, but the formation of heavy ice interfered with the work and operations had to be abandoned on the 6th December. On the 3rd May following, the connection was re-established, but in the course of repair the cable was found to have been very badly damaged in many places by vessels' anchors running foul of it and by ice crushing upon it in the vicinity of the middle ground. It needs to be overhauled and all bad spots cut out as early as practicable; and as, with a view to its greater security, an item has been placed in the estimates to provide for an additional length wherewith to change the route of the cable from its present position to the east side of Point Pelee and the middle ground, it will probably be convenient to effect the whole improvement at one time.

The repoling of the island section was completed early in the spring and the land line is now in first rate condition. As the operation of the circuit embracing in all 8 telephone stations, has never been as satisfactory as is desirable, it has been decided to change the present equipment for improved instruments operated on the plan that has been found so satisfactory in the case of the Grosse Isle quarantine system and this improvement will be effected as soon as practicable after the appropriations

for the ensuing year are made available.

NORTH-WEST.

The lines in the North-west have been maintained satisfactorily throughout the year with the provision that was made in the way of pole renewals mentioned in last year's report.

On the 9th September, 1895, an office was established at Bresaylor, 27 miles north-west of Battleford, with Mr. H. McCleneghan in charge as agent-operator.

The Edmonton-St. Albert telephone line (9 miles), which was constructed in 1885, and latterly embraced 4 stations, was leased from the 24th October, 1895, to the Edmonton District Telephone Co., for a yearly rental of \$1.00. The lease is terminable at any time on six months' notice.

On an application from the residents of Morinville for the establishment of telephonic connection with St. Albert, the department agreed to grant assistance in the shape of the requisite material, which was already on hand and for which there was no prospective use elsewhere. There was accordingly delivered in July, 1895, to a representative of the residents of Morinville by our agent at Edmonton, the following quantities of materials to be used in the construction and equipment of the line: 11 miles line wire, 380 insulators and 2 sets telephone apparatus; the supply of poles and work of construction was left to be provided for by the parties concerned.

BRITISH COLUMBIA.

The general repair and resetting of the poles on the Barkerville line last season was completed in the month of August, and is reported to have been thoroughly well done, all poor joints cut out, etc., and the whole put in first class condition.

The new line to Lillooet mentioned in last year's report was completed in December, and an office was opened at Lillooet for business on the 5th January, 1896, with Mr. S. A. Macfarlane in charge as agent-operator. It is operated as a branch from Ashcroft in conjunction with the Barkerville line.

The Comox line has been satisfactorily maintained as heretofore; and to increase the facilities for traffic, the Nanaimo agency has been established in the Canadian Pacific Telegraph Office at that place; and a telegraph operator has been appointed

at Comox, the telephone (as formerly) being continued between Union and Courtney. In consequence of the coast line to Cape Beale having been thrown down during a heavy storm in January, and thereby rendered inoperative at a time when there happened to be especial need for it; the desirability of seeking another and more promising route for an alternative connection was taken into consideration, and an item has been placed in the estimates for a proposed extension to Cape Beale from Alberni. In further pursuance of the same object an examination of the intervening country is now being made to determine the practicability of an all year round maintenance of a telegraph in that locality.

SERVICE GENERALLY.

As a matter of precaution, and with a view to obviating a repetition of causes for complaint received from several different districts, the following notice, in the form of a linen poster, has been issued in sufficient quantities to the respective district superintendents for distribution along the lines as opportunities offer:—

"Notice.—Notice is hereby given that any person found unlawfully destroying or removing telegraph poles, wire, insulators, brackets or spikes; or any boats or boathouses, or shelter huts or the contents thereof, pertaining to the Government telegraph, will be prosecuted under "Cap. 168, sec. 40, Revised Statutes of Canada," which declares every such person to be guilty of misdemeanour and liable to imprisonment.

"The Government offers \$100 reward for the arrest and sufficient evidence to secure the conviction of any person guilty of the misdemeanour above defined.

D. H. KEELEY.

"General Superintendent.

"GOVERNMENT TELEGRAPH SERVICE,
"Department of Public Works,
"OTTAWA, ONT., 1st January, 1896."

REVENUE AND EXPENDITURE.

The revenue and expenditure figures for each of the lines in the several districts hereinbefore mentioned are given in the following table:—

Telegraph Service.	Expenditure.	Revenue.	Remarks
	\$ cts.	\$ cts.	es- 8re
ower St. Lawrence and Maritime Province:—			Meteorological Service mes- nd Fisheries bulletins are
Anticosti Island lines	2,305 45	268 34	9 29
Bay of Fundy do	3,854 82	430 51	ė, iž
Cape Ray do	250 00		Service bulletins
Cape Sable do	812 60	5 81	2 2.52
Cheticamp do	841 10	343 36	7
Escuminac do	705 01	171 77	sorologic Fisheries
Low Point agency	50 00	· ····	86,5
Magdalen Island lines	4,095 56	468 47	ृ
Meat Cove do (including St. Paul's Island)	2,292 15	677 24	8:5
North Shore St. Lawrence (East of Bersimis)	5,496 95	808 49	***
do (West of Bersimis)	3,385 98	950 54	and Me
Quarantine line		284 62	జ్ జే .
to the appropriation for Gulf lines	3,979 95	· · · · · · · · · · · · · · · · · · ·	message reports, of tolls
	29,499 64	4,409 15	≘ £ 0
ntario: Pelee Island line	1,360 90	121 80	ice u free
orth-West telegraph lines	14,062 22	1,381 24	Service es and idled fre
ritish Columbia: Comox line, including Alberni branch	4,029 32	1,518 28	P _ 7
*Barkerville line	3,957 62	1,010 20	
*Cape Beale line		1	nal Servi sages ar handled
Oupo Douto mao	5,151 00		E
Total	58,334 28	7,430 47	Signal sag har

^{*} The company operating these two lines retains the revenue and the Government reimburses them the excess of expenditure over revenue.

APPENDED TABLES.

The usual tabular statements of the lines and offices, staff, etc., appended to this report will be found to contain whatever additions or changes have been made up to the 30th June last.

D. H. KEELEY, General Superintendent.

OTTAWA, 13th August, 1896.

GOVERNMENT TELEGRAPH SERVICE.

SYSTEM.	
TELEGRAPH	
NEWFOUNDLAND	

.oV	Stations.	Intermediate Distances.	Operators.	Salaries per Annum.	Date of Appointment.	Memo.
1 2	1 Port au Basque	Miles. 0 14		\$ cts. 50 00 or com'n 50 00 do		N. B.—The commission is 25 per cent upon all business to and from the office; said commission guaranteed not to be less than at the rate of \$50 per annum.
23	Total.	14		100 00 do		
Tele	N.B.—The above short line is con Telegraph Company.	nstructed in conn	ection with the Signal Serv	vice, and connects a	t Port au Basqu	nstructed in connection with the Signal Service, and connects at Port au Basque with the land line system of the Anglo-American

GOVERNMENT TELEGRAPH SERVICE—Continued.

ANTICOSTI TELEGRAPH SYSTEM. ANTICOSTI ISLAND SERVICE.

.oN	Stations,	Intermediate Distances.	Agent and Operators.	Salaries per Annum.	Date of Appointment.	Memo.
1	* Fox Bay	Miles.	J. Stubbert	\$ cts. 50 00 or com'n	Nov. 1, 1888.	\$ cts. \$ 0.00 or com'n Nov. 1, 1888. The commission is 25 per cent on all business to and from the office in each instance; and commission guaranteed not to be less than at the rate of \$50
	Heath Point Lighthouse South Point Lighthouse * Shallop Creek	23 324 174	T. Gagné A. Nadeau B. Bradley Z. Reandin remirer	20 00 do 20 do 30 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40 do 40	July 20, 1881. Oct. 1, 1888. July 7, 1881. May 6, 1896.	20, 1881. 1, 1888. 7, 1881. 7, 1881. 8, 1896. (Genera) repairer. Plus \$1 per day when absent on duty.
က မ	5 Salt Lake6 South-west Point Lighthouse.	52 <u>\$</u>	A. Beaudin, operator Miss G. Pope (H. Pope	888	May 12, 1896. Oct. 18, 1880. July 21, 1893.	Chief operator since 1st August, 1882. District superintendent. Plus \$1 per day when absent
	Jupiter River Otter River * Becseie River Cane Fazele (Ellis Bay)	$\frac{7}{17\frac{1}{2}}$		20 00 do 20 00 20 00 00 00 00 00 00 00 00 00 00		Becseie River closed 30th May, 1896.
1222	West Point Lighthouse English Bay. Mechastic Bay	9 3 141	A. Malouin. F. Cabot	: 88	Aug. 1, 1881. July 1, 1382.	1, 1881 1, 1882 Norre—A special allowance for maintenance of office, \$50 per annum, has been added to the commission for offices marked *, since September, 1887.
	Totals	223		1,535 (0		

South-west Point connects with l'Anse à Fougère, Gaspé, by cable 44‡ knots; and from Mechastic Bay connection is made with Long Point of Mingan by cable 21 knots. Special allowance for the cable terminus. A testing station only.

Oct. 16, 1881. Transfer office. Connection with G. N. W. telegraph GASPÉ SECTION. 17 00 240 00 257 00 J. J. Annett N. Bernier.... 8 88 1 L'Anse à Fougère. 2 Gaspé Basin

MAGDALEN ISLANDS TELEGRAPH SYSTEM. MAGDALEN ISLANDS SECTION.

Memo.	1, 1882 The commission is 25 per cent on all business to and from the office in each instance; said commission guaranteed to be not less than at the rate of \$50 per annum.	ne 11, 1881 c. 1, 1891 Plus \$20 per annum for rent. General line repairer. bt. 1, 1891 Plus \$1 per day when absent on duty. bt. 15, 1898 Plus \$1 per day when absent on duty. c. 15, 1898 conditions and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second
Date of Appointment.		June 11, 1881 Dec. 1, 1891 Sept. 1, 1891 Aug. 17, 1889 June 1, 1888 Feb. 18, 1888
Salaries per Annum.	\$ cts. 50 00 or com'n Oct.	\$5 00 00 and do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550 00 or do 1,550
Agents and Operators.	Miss J. Shea	Wm. Cormier P. Pelletier Mrs. A. Binet N. Arsensult A. LeBourdais, DSpt M. S. E. Bourdais, op P. L. Jonoss N. Clark Mrs. F. Aikins
Intermediate Distances.	Miles.	884 111 111 111
Stations.	1 Amherst	2 Amherst Lighthouse 3 Etang du Nord village 4 Etang du Nord lighthouse 5 Grindstone Island 7 Wolfe Island 8 Grosse Isle 9 Grand Entry Totals
.oV	-	81 82 4 70 40 70 40 40

GOVERNMENT TELEGRAPH SERVICE—Continued.

MAGDALEN ISLANDS TELEGRAPH SYSTEM.

CAPE BRETON SECTION.

No.	Stations.	Intermediate Distances.	Agents and Operators.	Salaries per Annum.	Date of Appointment.	Мето.
H	1 Meat Cove (Cable Station)	Miles.	A. B. McDonald	\$ cts. 500 00	Nov. 7, 1890.	Nov. 7, 1880. The commission is 25 per cent upon all business to and from the office in each instance said com-
98 4 VOF	Aspy Bay. White Point (7‡ miles, loop). Neil's Harbour. († way house. Ingonish, North Bay. South Ingonish. French River (‡ knot cable)	94441 e 95 8	I. Y. Nichols. M. McLeod. J. M. Burke. F. C. Brower.	ia 8	April 1, 1894. April 1, 1897. April 1, 1892. Aug. 1, 1891. April 1, 1889.	n. July 1, 1894. April 1, 1897. April 1, 1882. April 1, 1889. April 1, 1889. April 1, 1889. April 1, 1889. April 1, 1889.
8 6 5 1 5 E 4	8 Englishtown (‡ knot cable) 9 South Gut, St. Ann's (on loop) 10 Baddeck (on loop) 11 Port Bevis (2‡ miles, looped off Baddeck line) 12 Kelley's Cove (N. Campbellton) 13 Big Bras d'Or (‡ knot cable) 14 North Sydney.	11 22 23 23	W. Bingham (agent) W. J. McRitchne (rep'r) Miss C. Morrison. U. Dunlop. Miss M. Campbell Mrs. E. Livingston. W. U. Tel. Co.	do do do or cou	July 19, 1884. May 1, 1884. Jan 1, 1892. Jy April 1, 1885. Jan 1, 1885.	Construction of this loop line completed June, 1895.
	Totals	157		1,450 00		

Meat Cove station connects with the Magdalen Islands system by a cable to Old Harry Head, 55 knots, and with St. Paul's Island by a cable of 20 knots. latter is operated with telephones.

NOVA SCOTIA TELEGRAPH SYSTEM. CAPE SABLE SECTION.

Memo.		50 00 or com'n. Dec. 18, 1883. The commission is 25 per cent upon all business to	mission guaranteed to be not less than at the rate of \$50 per annum.			
Date of Appointment.		Dec. 18, 1883.	April 1, 1889.	Dec. 18, 1883.		
Salaries per Annuio.	e ctr.		50 00 do April 1, 1889.	50 00 do Dec. 16, 1883.	150 00	•
Agents and Operators.		W. U. Tel. Co.'s Agent.	Miss. E. A. Smith	I. K. Doane		
Intermediate Distances.	Miles.	0	п	₩.	173	
Sections.	•	Barrington	2 Newellton (including 1½ knots cable	3 Cape Sable Island lighthouse (including 14 mile cable)	Totals	
"oN		7	87	.		

EAST COAST SECTION.

N.B.-In connection with the Signal Service, a land line, 208 miles in length was erected in 1881, between Canso and Halifax, for a bonus of \$16,000, and is maintained and operated by the Western Union Telegraph Company, without further cost to the Government.

GOVERNMENT TELEGRAPH SERVICE—Continued.

MABOU-CHETICAMP, C.B., TELEGRAPH SYSTEM.

	A MILE OF CONTRACTOR AND AND AND AND AND AND AND AND AND AND					
.oN	Stations.	Intermediate Distances.	Agents and Operators.	Salaries per Annum.	Date of Appointment.	Memo.
_ოოთადი 240	Mabou Broad Cove S. W. Margaree N. E. Margaree (loop line wire) Grand Etang Cheticamp Totals	Miles. 0 20 20 11 5 5 6 8 8 8 8 8	Mrs. M. McDonald. Mrs. Annie McLellan. Angus Collins. J. F. McFarlane Miss B. M. Ross Joseph Doucette Mrs. M. Fiset	\$120 per annum \$50 or commission. Com'n 50 per ceut. \$50 or commission. do Com'n 50 per cent. \$50 or commission.	April 1, 1887. March 1, 1892. do 3, 1893. May 18, 1896. Jan. 1, 1889 April 23, 1893. do 1, 1887.	Mrs. M. McDonald\$120 per annum April 1, 1887. The commission is 25 p. c. of the Government line Angus Collins\$50 or commission. March 1, 1892. tariff receipts, and is guaranteed to amount to not Com'n 50 per cent. do 3, 1893. less than \$50 per annum. Where 50 p. c. commission. Miss B. M. Ross
ļ		CHAT	CHATHAM-ESCUMINAC, N.B., TELEGRAPH SYSTEM.	N.B., TELEG	RAPH SYS	ТЕМ.
-	Chatham	o	Great North-western \$185 00 or com'n.	\$185 00 or com'n.		This amount is paid for supervision of the line and
0360	2 Black Brook 3 Baie du Vin	ig is	Miss M. Williston	20 60 20 60 30 60 30 60	March 1, 1885.	50 00 do March 1, 1885. tariff receipts in each instance, and is guaranteed

-	1 Chatham	O.	Great North-western Flegraph Co \$185 00 or com'n.	\$185 00 or com'n.		This amount is paid for supervision of the line and
63 60 44 TC	2 Black Brook. 3 Baie du Vin 4 Lover Hardwicke. 5 Recruming	हु है 9	Miss M. Williston Mrs. M. Brinner	22.22 22.22 23.22 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23	March 1, 1885. Aug. 1, 1891.	Once accommodation at Unatham. The commission is 25 p. co f the Government line. March 1, 1885. tariff receipts in each instance, and is guaranteed to the Aug. 1, 1891.
9	Point Escuminac lighthouse	12,	K. R. McLennan	20 00 do	Nov. 1, 1893.	1, 1893. \$12 per annum allowed for care of train battery at
	Totals	42	·	\$435 00		TOTAL TESCHILITIES.

GRAND MANAN SECTION.

BAY OF FUNDY, N.B., TELEGRAPH SYSTEM.

 Sections. Long Eddy Cable Hut, to 1 Flagg's Cove	Intermediate Distances. Miles.	Agents and Operators. Mrs. C. C. Seely (D. Supt.).	Salaries per Annum. \$ cts. 50 00 or com'n.	Date of Appointment.	
2 Woodward's Cove 3 Grand Harbour 5 Seal Cove 5 Southern Head lighthouse Branch Line. Grand Harbour 7 Whitehead Island (\$\frac{1}{4}\$ do) Totals	304470 0411 12	W. A. Fraset F. A. Newton P. Russell A. Gilmon, repairer W. Cheney E. Carroll	Com'r 50 per cent. Feb. 5 \$75 60 or com'n April 55 60 00 do May 50 00 do Dec. 60 00 or com'n. Feb. \$50 00 or com'n. Dec. \$80 00 or com'n. Dec.	Feb. 28, 1893. April 1, 1887. May 1, 1891. Dec. 1, 1894. Dec. 1, 1890.	Com'r 50 per cent. Feb. 28, 1893. 575 00 or com'n. April 1, 1887 825 p. annum is included for repeating Whitehead br. 50 00 do do Dec. 1, 1891. Commis'n 25 p.c. Feb. 1, 1891. Commis'n 25 p.c. Feb. 1, 1890.

CAMPOBELLO SECTION.

Welchpool Eastport, Maine, U. S. A	- to-to	Miss E. G. Vennell 100 00 or com'n. Sept. 1, 1895. J. Cushing 100 00	100 00 or com'n	Sept. 1, 1895. Dec. 26, 1881.	
Totals	œ		200 00		

GOVERNMENT TELEGRAPH SERVICE—Continued.

GROSSE ISLE QUARANTINE TELEGRAPH SYSTEM.

Мето.		This amount is paid for supervision of the line, and covers rent of pole line from Quebec to L'Ange Gardien, for which \$35 per annum is charged.	1, 1886 The commission is 25 per cent of the Government line tariff in each instance, and is guaranteed to amount to not less than \$50 per annum.					1, 1885 \$12 per annum allowed for care of main battery at Grosse Isle.	Note The telephone system on Grosse Isle since May, 1893, has comprised 1\frac{2}{2} mile of 2 wire line,	with 11 connections or stations.
Date of Appointment.				April 7, 1896	July 1, 1888	Mar. 1, 1895		Sept. 1, 1885		
Salaries per Annum.	& cts.	185 00	50 00 or com'n Mar.	50 00 do April 120 00 and 25 p. c.	120 00 and 25 p. c. July	50 00 or com'n. Mar.		50 00 do		625 00
Agents and Operators.		Great North-western Telegraph Co.	C. Turcott	M. Plante	P. Pouliot	M. Emond		M. Langlois		
Intermediate Distance.	Miles.	0	13 24 45	4.0	t-	6 5	ਲੋੜੀ	ਲੌੰ	34	524
Stations.		Quebec	L'Ange Gardien. (Trioans Island landing (cable) St. Pierre	Ste. Pétronille St. Laurent.	St. Jean	St. François	cable) Isle Réaux (land line)	cluding 2 knots cable)	Quarantine telephone system	-
.oV		-	24	62 4	20	9 1	- (×0		

CHICOUTIMI AND NORTH SHORE OF ST. LAWRENCE TELEGRAPH SYSTEM.

CHICOUTIMI SECTION.

Bay St. Paul Date of Annum Appointment Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of Annum Date of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One of One o		Мето.	Previous to The commission upon business is 25 per cent of the April 1, 1885 Government tolks of the line; the annum. Government tolks of the line; the annum. Government tolks of the line; the annum. Hori 1, 1887 April 1886 April 1886 Nov.		s to 1885 1886 1889 1887 1887 1887 1887 1889 1889 1889
Bay St. Paul Distance. Agents and Operators. Salaries Distance. Agents and Operators. Salaries Per Annum. 1	γ.	Date of Appointment.	Previous to The commis do do to be not do do 1, 1885 Government do do 15, 1887 Jan. 1, 1889 April 1885 Nov. 1893 Plus \$12 per	JN.	Previous April 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June 1, June
Stations. Inter-	OUTIMI SECTION	Salaries per Annum.		I SHORE SECTION	m'n'n'n'n'n'n'n'n'n'n'n'n'n'n'n'n'n'n'n
Stations. Stations. 1 Bay St. Paul 2 St. Urbain 3 La Cruche 5 St. Alexis 5 St. Alexis 6 Chicoutimi. Totals Totals Totals 1 Murray Bay Cap A L'Aigle Chicoutimi. Totals 1 St. Fidele Si. Fidele Si. Simon Baie des Rochers Chicounains St. Etienne St. Etienne St. Etienne St. Etienne St. Etienne St. Etienne St. Etienne St. Etienne St. Etienne St. Etienne St. Etienne St. Etienne St. Etienne St. Etienne St. Etienne St. Etienne St. Etienne St. Etienne St. Etienne St. Etienne St. Etienne St. Etienne St. Etienne St. Etienne St. Etienne St. Etienne St. Etienne St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St. Oorbusins St	CHICO	Agents and Operators.	(i) (i) (i) (i) (i) (i) (i) (i) (i) (i)	NORTH	E. F. Vincent. Duchesne. D. Parent. Prassard. Gaudin. Savard. Boullenne. Caron. F. Caron. B. Caron. H. Topping. Bouchard. A. Puise O. Bonenfant. Bouchard. Courbron (repairer). E. Caron. Savard. Bouchard. Ourbron (repairer). Forcett.
Station Station Station St. Paul St. Orbain St. Alexis St. Alexis St. Alexis Cap A L'Aigle Chicoutimin Totals Totals Totals Totals St. Fidele St. Fidele St. Fidele St. Etimne St. Etimne Talus an Persil St. Etimne St. Etimne Baie des Rochers Riv. aux Canards St. Etimne Baie des Bacons Baie des Bacons Baie des Bacons Baie des Bacons Baie des Bacons Pergeronnes Baie des Bacons Baie des Bacons Baie des Bacons Baie des Bacons Baie des Bacons Baie des Bacons Baie des Bacons Baie des Bacons Baie des Bacons Baie des Bacons Baie des Bacons Baie des Bacons Baie des Bacons Baie des Bacons Baie des Bacons Baie des Bacons Baie des Bacons Baie des Bacons Baie des Bacons Baie des Bacons Baie des Bacons Baie des Bacons Baie des Bacons Baie des Bacons Baie des Bacons Baie des Bacons		Inter- mediate. Distances.	Milea. 0 9 37 31 31 11 11 92		0 4 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		Stations.		,	Murray Bay Cap A L'Aigle Ste. Fidele Ste. Ridele St. Siméon Baie des Rochers Riv. aux Canards St. Etienne Tadousac (14 knot Bergeronnes Escounains Baie des Baons Mille Vaches Portneuf Mills Portneuf light Sault au Cochon.
	i¦ 9-	,		 3	884555788888888888888888888888888888888

GOVERNMENT TELEGRAPH SERVICE-Continued.

CHICOUTIMI AND NORTH SHORE OF ST. LAWRENCE TELEGRAPH SYSTEM—Concluded.

NORTH SHORE SECTION—Concluded.

Мето.	21, 1898 15, 1883 16, 1884 1, 1889 1, 1889 1, 1889 1, 1889 1, 1889 1, 1889 1, 1889 1, 1889 1, 1889 1, 1889 1, 1889 1, 1889 1, 1889 1, 1889 1, 1889 1, 1889 1, 1889 1, 1889 1, 1889 1, 1889 1, 1889 1, 1889 21, 1893 The c nmission at Pointe aux Esquinaux is 50 per cent, without guarantee as to amount.
Date of Appointment.	
Salaries per Annum.	\$ cts. 500 00-per annum May 50 00 or com'n Oct 50 00 do May Accommodation of do do May 90 00 per month Nov 180 00 per annum July 180 00 do April 50 00 do April 50 00 or com'n Feb 50 00 do Oct 50 00 do Oct 50 00 do Oct 50 00 do Oct 50 00 com'n Feb 50 00 com'n Oct 50 00 or com'n Oct 50 00 or com'n Oct 50 00 or com'n Oct 50 00 or com'n Oct 50 00 or com'n Oct 50 00 or com'n Oct 50 00 or com'n Oct 50 00 or com'n Oct 50 00 or com'n Oct
Agents and Operators.	A. Lausier N. A. Comeau L. A. Fafard Z. Poulin. A. Bioleau E. H. Têtu, D. Supt A. Therrault P. E. Vignault, opr. P. Gallieme, lineman D. Porlier Mrs. H. Cody Geo. Molloy. B. Chambers. E. S. Vibert. M. J. Maloney. D. Cormier
Internediate Distances.	Miles
Stations.	18 Pointe aux Outardes (cable). 19 Pointe Paradis, Manicouagan. 20 River Godbout (cable). 22 Trinity Bay West. 23 Trinity Bay West. 24 Caribou Islands. 25 Penterous River. 26 St. Marguerite. 27 Seven Islands. 28 River Moisie. 39 Thunder River. 31 Magpie. 32 St. John's River. 34 Mingan. 35 Pointe aux Esquimaux.
No.	244

Norg. -- In the estimates the maintenance of the Chicoutimi and North Shore lines is provided under head of North Shore Line. They are operated conjointly.

ONTARIO-PELEE ISLAND TELEGRAPH SYSTEM.

Мето.		J. McR. Selkirk D. Supt 50 00	J. E. Quick	
Date of Appointment.		Nov. 1, 1888 Ap'il 1, 1889 Nov. 1, 1888	Dec. 1, 1890 Nov. 1, 1883 do 9, 1888 do 1, 1888	•
Salaries per Annum.	\$ cts.	50 00	\$50 00 and Com'n. Comsn. 25 p.c do	
Agents.		J. McR. Selkirk D. Supt C. Harrison	J. E. Quick. C. B. Quick. A. M. McCornick. F. B. McCornick.	
Intermediate Distances.	Miles.	2000	, <u>பா</u> ம்.	\$75
Stations.		1 Leamington 2 Club House 3 Point Pelee Cable to Island	North Point Lighthouse (‡ mile loop) North dock West dock South dock	Total
.oV		∺ ⊗⊛	4 29-	

Norg.—This line is operated with telephones.

GOVERNMENT TELEGRAPH SERVICE—Continued.

LINES IN THE NORTH-WEST TERRITORY.

QU'APPELLE-EDMONTON SECTION.

And the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s		Humboldt office was closed 20th August, 1893. The repairer formerly stationed at Battleford was transferred to Humboldt, in November, 1892, and thence to Moose Jaw, in May, 1893. The office at Edmonton has been operated jointly with the C.P.R. Tel. Co. since 1st January, 1892.	*The St. Albert branch line is operated with telephones. It was leased to the Edmonton District Telephone Co., from 24th October, 1895.
	Date of Appointment.	Jan. — 1883. Mar. 1, 1885. Mov. 1, 1885. Jan. 1, 1889. Jan. 1, 1898. Oct. 1, 1896. Aug. 1, 1890. Jan. 2, 1890. Jan. 1, 1891. Jan. 1, 1892. Jan. 1, 1892. Jan. 1, 1892. Jan. 1, 1892. Jan. 1, 1897. Mar. 1, 1896. Mar. 1, 1896.	
	Salaries per Annum.	# cts. 729 00 650 00 650 00 729 00 729 00 729 00 729 00 729 00 729 00 729 00 729 00 729 00 729 00 729 00 729 00 729 00	
	Agents.	E. W. Warner Miss E. Johnston A. On Lindeburg C.P. R. Tel. Co's J. Harrington, repairer W. Salsbury, repairer L. P. O. Noël, H. McClenegan J. F. Lake, repairer G. G. Mann, oper & agt, A. W. Campbell L. Picard, repairer W. C. Gillis, repairer W. C. Gillis, repairer W. C. Gillis, repairer G. M. Grabam G. Voyer W. McKay, repairer	
	Inter- mediate Distances.	Miles. 10 17 17 18 52 52 52 52 53 53 54 54 54 54 55 54 56 54 56 57 58 58 58 58 58 58 58 58 58 58 58 58 58	9 9
A COMPANY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE P	Stations.	Cu'Appelle. Fort Qu'Appelle Touchwood Humboldt Saskatzon (14 miles loop). Henrietta do Battleford Bastleford Fort Pitt. Onion Lake Onion Lake Victoria Sadole Lake Victoria Edmonton Edmonton	Branch Line— *Edmonton St. Albert Total
ĺ	.oN	246 1884 r 0 - 80511212 4 r	16

NORTH-WEST TELEGRAPH LINES-WOOD MOUNTAIN AND FORT MACLEOD SECTION.

No.	Stations.	Intermediate Distances.	Staff.	Salaries per Annum.	Date of Appointment.	Memo.
		Miles.		& cts.		
-	Fort Macleod Line— Galt Junction (Dunmore)	0	:		1	The Dunnore-Lethbridge section of this line has been sold to the Alberta Railway Co. and the
61 to 4	Lethbridge	107 284 2				Lethbridge-Fort Maclead section has been transferred to the Mounted Police (August, 1896).
	Total	136				
	Wood Mountain Linc Moose Jaw	0	A. Wilcox, agent H. Sikes, repairer	240 00 600 00	Dec. 1, 1891 do 1, 1893	240 00 Dec. 1, 1891 Moose Jaw office is operated jointly with the Cana- 600 00 do 1, 1893 dian Pacific Telegraph Co.
∾ 247	Wood Mountain	1 06	904 J. H. Thompson, agent	180 00	do 1, 1890	

GOVERNMENT TELEGRAPH SERVICE IN BRITISH COLUMBIA.

ASHCROFT-BARKERVILLE.

Мето.		These lines are operated by the Canadian Pacific Railway Co. for the Government, the arrangement being terminable at any time.	
Salaries Date of the Month. Appointment.		50 00 Feb. 16, 1883 60 00 April 13, 1894. 75 00 Nov. , 1896. 47 00 83 33 Feb. 17, 1873.	50 00 Jan. 3, 1896.
Salaries per Month.	e cts.	55 56 56 56 56 56 56 56 56 56 56 56 56 5	96 92 92
Positions.		Agent and repairer do Agent and operator Agent and repairer do Agent and repairer do	Agent and operator
Agents, etc.		Canadian Pac. Ry. Co. A. LeBourdais. C. H. Timeley. W. Jamieson. G. H. Smith. J. E. Bowron. J. E. Bowron. Agent and repairer do do J. S. Stone.	S. A. Macfarlane Agent and operator
Inter- mediate Distances.	Miles.	28 24 2 2 3 3 8 4 5 3 3 8 4 5 3 3 8 4 5 3 3 8 4 5 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	276 1 .62
Office.		Ashcroft Station Clainto Clainto Bridge Creek 150-Mile House Soda Creek Quesnelle Stanley Barkerville	Branch. Ashcroft Station Lillooet
No.		= 984700 F∞	

VICTORIA-CAPE BEALE.

		I Wilson (Voncouver) District Sunt	District Sunt	_00 %	PC 23 1891	This line is operated by the Canadian Pacific Railway
1 Victoria	_	E. Houghton.	Houghton. Agentand operator	88	Nov. 1, 1891.	Co. for the Government, the arrangement being
2 Sooke	32	M. Milne	qo g	n'n	pril 21, 1896.	terminable at any time.
3 Otter Point		E. Gordon	. Agent and repairer 6	8	ec. —, 1891.	
4 Jordan River	91	L. Desbiens	-: op	8	ov. 1, 1891.	
5 Port San Juan.		J. W. Williams	-: op	8	ct. 25, 1892.	
		W. P. Daykin	Agent and operator	2 8 8	ov. 1, 1891.	
6 Carmanagh Lighthouse	24	E. B. Daykin	Repairer	45 00	lo 1, 1891.	
)	_	R, McDonald	op	45 80 W	ept, 1894.	
7 Cape Beale	88	M. Patterson.	Agent and operator	10 00	do -, 1895.	
-	118		<u>- · </u>			
_			1			

GOVERNMENT TELEGRAPH SERVICE IN BRITISH COLUMBIA.

NANAIMO-COMOX AND ALBERNI.

No.	ОЖее.	Inter- mediate Distances.	Agents, etc.	Positions.	Salaries per Month.	Salaries Date Per of Month. Appointment.	Мето.
Hel & 470.00 € 80	Nansimo. Wellington. Parksville Fanny Bay. Union (wharf) do (mines) Courtney	Miles. Miles. 23 2 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Joint with C.P.R. E. & N. Ry. Co A. McMillan D. R. O'Hanley. J. Dunsmuir do M. McDonald	B. & Joint with C.P.R. Agent and operator. E. & N. Ry. Co. do do A. McMillan Repairer. B. D. R. O'Hanley do J. Dunsmuir Agent do M. McDonald Agent and operator.	\$ cts. 10 00 Commission. 20 00 47 50 65 00 Commission. do	\$ cts. 10 00 March 1, 1896, 1 nission. April 1, 1893. 20 0 June 26, 1895. 65 00 May 22, 1896. 65 00 May 22, 1896. 10 00 Nov. 1, 1893.	Sects
6	1 otal. Branch. Parksville. Alberni		C. T. Haslam	C. T. Haslam Agent and operator		50 00 June 27, 1896.	

GOVERNMENT TELEGRAPH LINES.

SPECIAL TARIFF.

Cable messages.—The rate for transatlantic messages passing over the Government lines is the same as for ordinary through messages, excepting where the ordinary tariff is more than 25 cts.; in such cases the Government line rate is 4 cts. per word, with a minimum charge of 25 cts. For example:—

For a message of 6 words or less the charge is 25 cts. for Government line.

" " 7 " the charge is (7 x 4 c.) 28 c. " "

" " 12 " " (12 x 4 c.) 48 c. " "

In every case the counting of words includes the address and signature in the same way as for transatlantic cable tolls.

Press despatches.—The rate for press despatches on the Government lines is a quarter cent per word, but no single message loss than 15 cts., where that is the regular rate; or less than 25 cts., where the regular rate is 25 cts. or over.

REGULAR TARIFF.

NOVA SCOTIA.

Line from North Sydney to Meat Cove-Local rate 25-1. (13 offices).

Big Bras d'Or	Through	rate 25-1 from North Sydney, W. U. Office.
New Campbellton (Kelly's Cove)		do
Port Bevis	do	do
Englishtown	do	do
Baddeck	do	d o
St. Anne, South Gut		do
French River	do	do
South Ingonish	do	d o
Ingonish		do
Neil's Harbour	do	do
White Point	do	d o
Aspy Bay	do	do
Meat Cove		, do

Line from Mabou to Cheticamp—Local rate 25-2 (6 offices).

Broad Cove	Through rate	15-1 from Mabou.	W. U. Office.
S. W. Margaree	do	do	/
Margaree Harbour	do	do	
North East Margaree	do	do	
Grand Etang	do	do	
Cheticamp	do	do	

Line from Barrington to Cape Sable-Local rate 12-1 (2 offices).

Newellton	Through rate	12-1 from Barrington,	W. U. O.
Cape Sable Lt. House	do ¯	do	

NEW BRUNSWICK.

Line from Chatham to Point Escuminac-Local rate 25-1 (4 offices).

Bay du Vin	Through rate 15-1	from Chatham, G. N.	w.o.
Lower Hardwicke	do	do	
Escuminac	do	do	
Pt. Escuminac Lt. House	do	do	

Line from Eastport, Me., to Campo Bello, Grand Manan, and Whitehead Island (8 offices).— Local rates between offices on Grand Manan, and Whitehead Islands 15-1: Grand Manan and Campo Bello Island 25-2: The Islands and Eastport, Me. 25-2. W. U. O.

Welchpool, Campo Bello	Through	rate 25-2 from	Eastport, M	ſe., \	w. u	. O.
Flagg's Cove. Grand Manan	do		do	•		
Woodward's Cove			do			
Grand Harbour	do		do			
Seal Cove			do			
Southern Head		•	do			
Cheney's Island	do		do			
Whitehead Island	do		do			

QUEBEC.

Line from Gaspé to Anticosti Island, Q. (9 offices)—Local rates between offices on the Island 25-1: Gaspé and the Island offices 50-2.

South-west Point	Through	rate	50-2	from	Gaspé,	G.	N.	W.	office.
Salt Lake					do				
Shallop Creek	do				do				
South Point	do				do				
Heath Point	do				do				
Fox Bay	do				do				
Becscie River					do				
West Point	do				do				
English Bay	do				do				

Line from Meat Cove, C.B., N.S., to Magdalen Islands, Q. (8 offices)—Local rates between offices on the Islands 25-1: Meat Cove and the Islands 50-2; Offices on the Meat Cove Line and the Islands 50-2.

Amherst Island	Through	rate 50-2 fr	om N. Sydney	N.S.,	w. u	r. O.
Amherst Lt. House	' do '		, do	•		
Etang du Nord Village	do		do			
Etang du Nord Lt. House	do		do			
Cap aux Meules, (Grindstone)	do		do			
House Harbour	do		do			
Grosse Isle	do		do			
Grand Entry	do		do			

Line from Meat Cove, C.B., N.S., to St. Paul's Island, Q.—Local rate between offices on Meat Cove Line and St. Paul's 50-2 (1 office).

St. Paul's Island Lt. House...... 50-2 from North Sydney, N.S., W.U. Office.

Line from Quebec to Grosse Isle Quarantine station (7 offices)—Local rates between offices on Orleans Island and Isle Réaux 15-1: on Orleans Island, Isle Réaux and Quebec 15-1; on Orleans Island and Grosse Isle 25-1; on Isle Réaux and Grosse Isle 15-1.

St. Pierre, Orleans Island	Through	rate	15-1	from	Quebec,	G.	N.	W.	0.
Ste. Pétropille	do				do				
St. Laurent	do				do				
St. Jean	do				do				
St. François	do				do				
Isle Réaux					do				
Grosse Isle	do		2	5-1	do				

Line from Baie St. Paul to Chicoutimi-Local rate 15-1 (5 offices).

For business with offices west of Baie St. Paul, and terminating at Quebec, add 15c. and 1c. to the Government line tariff.

For business with offices west of Baie St. Paul, beyond Quebec, add the full rate of the Great North-western Telegraph Company to the Government line tariff.

St. Urbain	15-1 from	Baie St. Paul (Ck Que.)	G. N.	w.o.
Lacruche	do	`do ´		
St. Alexis	dο	do		
St. Alphonse de Bagotville		do		
Chicoutimi		do		

Line from Murray Bay to Point Esquimaux with branch to Anticosti—Local rates between offices not more than 100 miles apart 15-1; more than 100 miles apart 25-1; on main land and Anticosti 50-2.

For business with offices west of Murray Bay and terminating at Quebec, add 15c. and 1c. to the Government line tariff.

For business with offices west of Murray Bay beyond Quebec, add the full rate of the Grent North-western Telegraph Company to the Government line (ariff.

Cap à l'Aigle	15-1 from	Murray Ba	ay (Ck. Que.)	G. N. W.	Office
Ste. Fidèle	do	•	do		
Port au Persil	do		dø		
St. Siméon	do		qo ,		
Baie des Rochers	do		do		
Rivière aux Canards	do		do		
St. Etienne	do		do		
Tadousac	do		do		
Bergeronnes	do		do		
Escoumains	do		- do		
Baie des Bacons	do		do		
Mille Vaches	25-1 do	1	do		
Portneuf Mills	do		do		
Port Neuf Light	do		do		
Sault au Cochon	do		do		
Betsiamits (Bersimis)	do	3	do		
Manicouagan	do		do		
River Godbout.	do		do		
Pointe de Monts			do		
Trinity Bay, West	do		фo		
Trinity Bay, East	do		do		
Caribou Islands	do	•	do		
Pentecost			do		
Ste. Marguerite		V	. do		
Seven Islands	do		do		

River Moisie	25-1 from	Murray Bay (Ck.	Que.) G. N. W. Office.
Sheldrake	dφ	do	•
Thunder River	do	do	
Magpie	do	do	
St. John's River	\ do	do	
Long Point	do	, do	
Mingan		do	
Point Esquimaux		do	
Anticosti Island, via Long Point.	50-2 do	do	

ONTARIO.

Line from Learnington to Pelee Island (Telephone Circuit—Local rates between Learnington and Point Pelée 15-1; Mainland and Island Offices, 25-1: Offices on the Island, 15-1. (6 offices.)

Gun Club House,	Mainland	15-1 (thio'	' business) from Leamington, G. N. W	V.
Point Pelev	do		do	
North Point Lt. H	lse, Pelee Island	i do	do	
North Dock, Pel-			do	
West Dock	do	. do	do	
South Dock	do	. do	do	

NORTH-WEST TERRITORY.

Line from Qu'Appelle (C.P.R. Stn.) to Edmonton, Alberta—Local rates 15-1, 25-2 and 50-3 for distances 10 to 600 miles. (13 offices.)

Fort Qu'Appelle	25-2	Qu'Appelle	or Saskato	on	
Touchwood		do	do		
Saskatoon (Trans. Office C.P.R. Tel.)		do	do		
Henrietta		do	do		
Battleford		do	do		
Bresnylor	25-2	Saskatoon;	50-3 Qu'A	ppelle or	Edmonton.
Pitt		do	do		
Onion Lake		do	do		
Moose	50.3	Saskatoon,	Qu'A	pelle or	Edmonton
Saddle Lake		do	do	-	do
Victoria	$25\ 2$	Edmonton;	; 50-3 Qu'A	appelle or	r Saskatoon
Fort Saskatchewan		do	do	• -	do
Edmonton (Trans. office C.P.R. Tel.)		do	do		do

Line from Moose Jaw (C.P.R. Stn.) to Wood Mountain-Local rates 25-2 (1 office).

Wood Mountain...... 25-2 from Moose Jaw.

BRITISH COLUMBIA.

Line from Ashcroft (C.P.R. Stn.) to Barkerville-Local rates 25, 50, 75 (8 offices).

Office

Clinton	25-2	from	Ashcroft C.P.R. Tel.
Bridge Creek			do
150-Mile House			do
Soda Creek		do	do
Quesnelle		do	do
Stanley	75-5	do	do
Barkerville	75-5	do	do
Lillooet (branch)			do
(/		253	

Line from Victoria C.P.R. Tel. to Cape Beale-Local rate 50-3 (6 offices).

Sooke	50-3 from	Victoria, C.P.R. Tel. Office
Otter Point	do	do
Jordan River	do	do .
Port San Juan	do	do
Carmanah Lt. House	do	do .
Cape Beale	do	do

Line from Nanaimo to Comox-Local rate 25-2 (8 offices).

Wellington/(C.P.R. & E. & N. Ry).	25-2 from	Nanaimo or Wellington	
Parksville		do	
Fanny Bay	do	do	
Union (wharf)	do	do	
Union mines		do	
Courtney	. do	do	
Comox	do	do	
Alberni (branch)	do	do	
Offices on Government line	s as listed.	,	1

Offices on Government lines as listed	140
Offices at transfer points with connecting lines	15

Total number embraced by the service...... 155

N.B.—When the tariff rate is entered as 25-1 or 50-2, etc., the meaning is that the rate is 25 cents or 50 cents for ten words and 1 cent or 2 cents for each additional word.

APPENDIX No. 13

NATIONAL ART GALLERY

CURATOR'S REPORT

FOR THE FISCAL YEAR ENDED 30TH JUNE, 1896

NATIONAL ART GALLERY.

CHIEF ARCHITECT'S OFFICE,
OTTAWA, August 18, 1896.

Sir,—I have the honour to report that the following additions have been made to the Gallery during the fiscal year ended 30th June, 1896:—

Oil painting "The Photographer," by F. Brownell, R.C.A. This painting was presented to the Gallery by the Royal Canadian Academy in accordance with the Act of incorporation requiring diploma pictures to be sent to the National Gallery.

A large oil painting "Death of Nelson," by George Phillip Reinagle, R.A., has been purchased by the Government for the sum of \$1,000.00.

During the fiscal year, 22,961 visitors have registered their names, showing an increase of 3,815 over the number of visitors in the preceding year.

I have the honour to be, sir,

Your obedient servant,

JOHN W. H. WATTS, Curator.

E. F. E. Roy, Esq.,
Secretary,
Department of Public Works.

APPENDIX No. 14

OFFICIAL CORRESPONDENCE

DEPARTMENT OF PUBLIC WORKS

FROM 1st JULY, 1867, TO 30th JUNE, 1896

OFFICIAL CORRESPONDENCE.

LETTERS Received and Sent from 1st July, 1867, to 30th June, 1896.

	Years.					Sent.
867.	From	1st July to	31st December.		2,075	1 51
868	do		to 31st December.		3,498	1,511 2,317
869	do	do	do	61	3,448	2,317
870	do	do	do	***************************************	4,961	3.18
871	do	do	do	*** * *********************************	6.268	3,98
872	do	do	do	• • • • • • • • • • • • • • • • • • • •	8,333	4.42
873	do	do	do	** ************************************	10,072	5.707
874	do	do	do	***************************************	9,800	5,04
875	do	do	do		9,006	5.000
876	do	do	do		7,971	4.77
877	do	do	do	***************************************	7.517	4.42
378	do	do	do		6.886	4.02
379	do	do	to 6th October.		7.186	4.54
879	do		r to 31st Decemb		2,033	810
880	do	1st Januar			8,451	4.41
881	do	do	do		9,599	5,52
882	do	do	ďo		10,505	5,69
383	do	do	do		11.633	6,22
884	do	do	do		13,114	6,90
885	do	do	do		8.977	5.32
886	do	do	go		9,644	5.35
387	do	do	to 30th June		4.866	2,73
887	do	1st July		88	10,493	6.34
888	do	do		89	10,522	7.04
889	do	do		90	10,098	7,44
890	do	do		91	10,576	7.28
891	do	do		92	11,637	6,70
392	do	do		93	11,720	6,22
893	do	do		94	9.517	6.02
894	do	do		95	10,190	5.14
895	do	do	do 18		10,223	5,57

Number of Cheques sent by Accountant's to Secretary's Branch and Mailed, from 1882 to 1896.

Year.					No.
882	From	22nd Septem	ber to 30th June,	1883	1.566
883	do	1st July	do	1884	3,366
384	do	do	do	1885	3,298
385	do	do	do	1886	3,46
386	do	do	do	1887	4,198
387	do	do	do	1888	4,692
388	do	do	do	1889	4,960
389	do	do	do	1890	4,819
390	do	do	do	1891	5,376
391	do	do	do	1892.	5,400
92	do	do	do	1893	7,174
93	do	do	do	1894	7.79
94	do	do	do	1894	
395	do	do	do	1895. 1896.	8,746 9,849

CHEQUES issued by Finance Department and Mailed from Secretary's Branch.

Year.			-		No.
885	From	1st April to	30th June,	1885	24
885			do	1886	95
886	do	do	dο	1887	1.18
887	do	do	do	1888	´91
888	đo	do	do	1889	88
889	do	do	do	1890	90
890	do	do	do	1891	79
891	do	do	do ·	1892	82
892	do	do	do	1893	82
893	do	do	do .	1894	86
394	do	do	do	1895	59
895	do	do	do	1896	26

LETTERS Received and Sent, Chief Architect's Office, from 1st January, 1880, to 30th June, 1896.

		Received.	Sent.			
1880	From	1st January	to 30th Ju	ine		1,27
1880	do	1st July	do	1881		2,94
881	do	do	do	1882		2,85
882	do	do	do	1883	3,538	4,60
883	do	do	do	1884	3,860	6,00
884	do	do	do	1885	4,500	6,71
885	do	do	do	1886	6,075	6,45
886	do	do	do	1887	6,816	6,38
887	do	do	do	1888	6,947	6,87
888	do	do	do	1889	6.484	7,66
889	do	do	do	1890	7,448	6,57
890	do	do	do	1891	1,120	7.75
891	do	do	do	1892	6.113	4,26
892	do	do	do	1893	7,428	6.45
893	do	do	do	1894	6,900	†4,51
894	do	do	do	1895	7,538	15,32
895	do	do	do	1896	7,843	5.78

^{*} The exact number of letters received cannot be accurately given, but would bear about the same

proportion to letters sent as last year.

† The decrease in the number of letters sent, is due to a change made on 1st January, 1894, in the manner of transmitting accounts to the secretary. Previous to that date a letter accompanied each account, but now a bundle of accounts goes with each letter.

LETTERS Sent from Chief Engineer's Office, from January, 1880, to 30th June, 1896.

Year.					No.
380			to 30th Ju	ne	41
380	do	1st July	do	1881	1,79
381	do	do	do	1882	2,30
382	do	do	do	1883	2,6
883	do	do	do	1884	3,6
84	do	do	do	1885	3,1
85	do	do	do	1886	2,86
86	do	do	do	1887	3,28
87	do	do	do	1888	3,5
88	do	do	do	1889	4,2
89	do	do	do	1890	3,3
90	do	do	do	1891	3,9
91	do	do	do	1892	4.0
92	do	do	do	1893.	4.2
93	do	do	do	1894.	3,9
94	do	do	do	1895	4.6
95	do	do	do	1896.	4.2

Note—The letters, including returns, received in the Chief Engineer's Office may be estimated at the rate of two received to one sent.

APPENDIX No. 15

DETAILED STATEMENT OF EXPENDITURE

ON ACCOUNT OF

REPAIRS, Etc., TO PUBLIC BUILDINGS, CANADA

FOR THE FISCAL YEAR ENDED 30TH JUNE, 1896

В¥

O. DIONNE, Esq., Accountant

REPAIRS TO PUBLIC BUILDINGS.

DETAILED STATEMENT of Expenditure on account of "Public Buildings-Repairs, &c.," for Fiscul Year ended 30th June, 1896.

	.oV	cts.	254 31 110 12 1 75 1 75 1 75 1 49 1 40		990 89 320 90	92 30 10	824	2 8 8 1 8 8 1 8 8 1 8 8 1 8 8 1 8 1 8 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1	នខន	ន្តន
	Grand total.	49		<u>–</u>		1,292		•		
plind	Maintenance of l ings, &c.	es cts.	1 00	2 05	13 50	2 00		2: : 2: 2: : 2:		: 82 : 82 : 40
,038	Furniture, carpeta,	es cts.		98 8	81 62	:				20 E
	Rents.	e cts.		1,200 00	320 00	1,207 00	0 24			
	Wages.	cts.								
	eriseqer rol ladoT	es cts.	254 31 109 12 1 75 1 21 49 135 44	5 00	895 77	83 30	94 35	0 49 8 97 16 00	232 20 236 03 62 93	
	Sundries.	e cts.	28 78 31 14 4 31	2 00	147 17	15 75	32 90	16 00	23 03 23 03 62 92	
	Travelling expen- ses, telegrams,	e cts.				:				
	Extraordinary repairs.	& cts.								
REPAIRS	Painting, glazing, &c.	cts.	412 00	:	22	49 05	61 45	0 49		
	Brick and atone- work, plaster- ing, &c.	e cts.	25	<u> </u>	: :	:				101 44
	Lumber, &c.	s cts.	8 90	:	25 25					
	Repairing roofs, chimney tops, &c.	e cts.		:	: :	:				
	Hardware, metal work, plumbing, &c.	e cts.	42 35 223 17 104 81 1 75 119 39 89 62	:	699 35	18 50		8 97	30 20	4 7 92
	Name of Building.	Nova Scotia.	Amherst post office Annapolis do Antigonish do Aridonish do Aridhat do Badedek do Dardmouth do	Halifax assistant receiver general's office.		M	Lawlor's Island quarant. station penitentiary	Lunenburg post office New Glasgow do North Sydney do Parrsboro' savings banks	Pictou custom-house do quarantine station. Point Edward do Sydney nost office	Springhill custom-house Truro post office
	ž		Amherst p Annapolis Antigonish Arichat Baddeck Dartmouth	Halifa	දු දි.	දි .	육 육,	Luner New (North Parrst	Pictor do Point Sydne	Springhil Fruro po

Department of Public Works.

ď	Prince Edward Island.		_													
25 Cha by 27 Sun	Charlottetown Dominion building	6 6 8 8 88 8 88		9 9		10 00	407 80		302 97 4 00 0 50	787 08 10 93 19 86			99 : : 8 : :	3 85	790 10 28 17 28	885
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	Million custom nouse Moncton post office Newcastle do Partridge Island quaran- tine station Portland post office	56 20 177 65 200 68			24 00		1,544 67		243 55 150 50 44 95	80 20 1,965 87 150 50 245 63		130 90		28 00		
883 ±3	St. Andrew's do St. John custom-house do inland revenue do post office do savings bank	136 89 161 16 8 45	17 86 35 85	104 91	827 32	00 09						22 00	813 25 85 00 126 48	116 92		
		22 83 22 83 23 83			598 00	191 00		9 65	0 75 20 00 16 00	0 75 812 97 44 33 18 20					0 75 812 97 44 33 18 20	3 433
	Aaritime	2,560 66	83 70	176 81	2,014 41	822 52	2,244 97	535 10	41 62 2,483 15	576 72 10,897 97	575 00	2,880 14	1,224 77	150 00	1,301 72	47
1 2 2 2 3 3 3 4 4 3 4 4 4 4 4 4 4 4 4 4 4	Yuebec. Aylmer post office. Costicook do Grosse Isle quar station. Hull post office. Joliette do Lachme do	109 44 43 33 			135	7 75			7 60 6 55 437 06 8 50 188 75	117 04 49 88 437 06 8 50 188 75 154 75				8 8 8 7 8 2 4 5 0 6 4 5 0 6 1 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	117 04 58 28 437 06 8 80 22 87 213 26 164 50	161674567
	Montreal civil service exa- mination office. do custom-house do exam. warehouse.	167 38 10 00		10 50		7 75			131 35			8 8		56 00	25 00 223 38 171 85 1,422 03	8 0 10
a. D	a. Drain. b. New letter boxes.	6	Repairing masonry	masonry,										1		

Expendings on account of "Public Buildings, Repairs," &c.—Continued.

				-	REPAIRS.			,				.ozo	-bline		
NAME OF BUILDING.	Hardware, metal work, plumbing, &c.	Repairing roofs, chimney tope, &c.	Lumber, &c.	Brick and stone work, plastering, &c.	Psinting, glazing,	Extraordinary repairs.	Travelling expen- ses, telegrams, &c.	Sundries.	sriager repairs.	Wages.	Rents.	Furniture, carpets,	Maintenance of b ings, &c.	.latoT bnar.	.oN
Quebec—Concluded. Brought forward.	s cts.	cts.	s cts.	s cts. 135 00	\$ cts.	ces.	cts.	\$ cts.	\$ cts.	cts.	25 00	cts.	\$ cts.	\$ cts. 1,422 03	
<u> </u>	34 22 442 28 51 85 16 79 14 56	156 31 134 55 26 25	68		88 55 55 55 55 55 55 55 55 55 55 55 55 5		19 50 188 00 00	28 75 40 18 40 18 40 20 84 87 80 80 80 80 80 80 80 80 80 80 80 80 80	23 25 25 25 25 25 25 25 25 25 25 25 25 25	99 16	466 60 144 00	28 50 198 50 198 50 198 50 198 50 198 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199 50 199	3,094 53 186 80 9 00 12 00	466 69 3,189 48 28 1,315 49 231 41 232 62 124 63 230 74 230 84 230 84 230 84 230 84 230 84 230 84 230 84	11224 1224 1224 1234 1244 1254 1264 1274 1274 1274 1274 1274 1274 1274 127
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EXPENDITURE on account of "Public Buildings, Repairs," &c .- Continued.

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	Extraordinary re- pairs,	\$ cts.	00 008	2,703 00	4 969 70
REPAIRS	Painting, glazing,	\$ cts. 2,716 86 5 00		1,301 00	41 31
	Brick and stone work, plaster- ing, &c	\$ cts. 1,513 66			
	Lumber, etc.	\$ cts.	8		11 00
	Repairing roots, chimney tops, &c.	s cts. 161 60	9	7 10	7 25
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f. New furnace. g. Flooring, car	g, car	penter work and painting.	and pain	rting.											

EXPENDITURE on account of "Public Buildings, Repairs, &c."-Concluded.

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.038	Furniture, carpets,	e cts.	70 75 139 75 45 29 9 15
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	Wages.	es cts.	172 00 56 00 228 00
	Total for repairs.	e cts.	73 00 88 00 85 00 1,45 80 1,467 03 8 99 2,212 68
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	Lumber, &c.	e cts.	8 93
	Repairing roofs, chimney tops, cc.	cts.	8 00 116 06 8 00 8 00 8 00 8 00
-	Hardware, metal work, plumbing, &c.	e cts.	207 15 16 40 16 315 261 75 288 45
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h. Making road to wharf.

DOMINION OF CANADA

ANNUAL REPORT

OF THE

DEPARTMENT OF RAILWAYS AND CANALS

FOR THE PAST FISCAL YEAR

FROM 1st JULY, 1895, TO 30TH JUNE, 1896

SUBMITTED IN ACCORDANCE WITH THE PROVISIONS OF THE REVISED STATUTES OF CANADA, CHAPTER 37, SECTION 28

PRINTED BY ORDER OF PARLIAMENT



OTTAWA

PRINTED BY S. E. DAWSON, PRINTER TO THE QUEEN'S MOST EXCELLENT MAJESTY

1897

[No. 10—1897.]

To His Excellency the Right Honourable Sir John Campbell Hamilton-Gordon, Earl of Aberdeen, &c., &c., &c., Governor General of Canada, &c., &c., &c.

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 the 1st of July, 1895, to the 30th June, 1896.

All of which is respectfully submitted,

ANDREW G. BLAIR,

Minister of Railways and Canals.

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of General Manager of Government Railways and Superintendents of Canals	I	
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ACCOMPANYING REPORT OF THE MINISTER.

RAILWAY SYSTEM.

- 1. General map of the Dominion.
- 2. Nova Scotia, Cape Breton, Prince Edward Island and part of New Brunswick.
- 3. New Brunswick and parts of Maine and Quebec.
- 4. do do do taking in Montreal.
- 5. Eastern Ontario and part of Quebec.
- 6. Western Ontario.
- 7. North of Lake Superior.
- 8. Lake Superior to Manitoba.
- 9. Manitoba and Assiniboia.
- 10. Assiniboia and Saskatchewan.
- 11. Assiniboia and Alberta to the Rocky Mountains.
- 12. British Columbia

CANAL SYSTEM.

- 13. St. Lawrence, Ottawa, Rideau and Richelieu Canals.
- 14. Welland Canal.
- 15. Trent Navigation and Murray Canal.
- 16. Sault Ste. Marie Ship Canal, also St. Mary's Falls Canal, Michigan.

REPORT

1895-96.

To His Excellency
The Earl of Aberdeen,
Governor General.

MAY IT PLEASE YOUR EXCELLENCY,—I have the honour to submit the annual Report of the Department of Railways and Canals for the fiscal year ended on the 30th of June, 1896.

The annual reports of the engineers, together with general and special reports from superintendents, both of railways and canals, and from other officers of the department, are given in appendices.

Attached hereto (Appendices Part No. 2) will be found statements showing the amounts expended during the past fiscal year in construction, repairs and maintenance of the several works under the department; also statements showing total expenditure on each canal since its construction, on each of the Government railways, and on the Canadian Pacific Railway so far as the Government is concerned; also a statement showing the payments made, year by year, to subsidized railways, with the aggregates of such payments.

RAILWAYS.

The present report deals with those railways of the Dominion directly controlled by the Federal Government, and others towards the construction of which subsidies have been authorized.*

In an appendix will be found a special statistical report, embodying returns for the fiscal year ended on the 30th June, 1896, made by Canadian railway companies, as required by statute. This report gives information as to railroad operations in Canada, including the Government roads.

The following general facts gathered from the compilation will be of interest.

The number of railways in actual operation, including the two Government roads, the Intercolonial and the Prince Edward Island Railways, was 130, some of these, however, are amalgamated or leased; making the total number of controlling companies 77, not including the Government railways.

10-в

^{*}It should be observed that while the usual reports furnished by the superintending officers, and to be found in the appendices hereto, deal with the fiscal year only, the Chief Engineer of Government Railways has reported, dealing with certain matters under his charge up to November, 1896. Information on points relating to subsidized lines of railway has, in previous years, been brought down in the general report to the end of December, thus giving the results of the season's work. This year, however, it has been found necessary to confine statements to the operations of the fiscal year.

The number of miles of completed railway was 16,387, an increase of 296 miles. besides 2.106 miles of sidings. The number of miles laid with steel rails was 16.137. The number of miles in operation was 16,270.

The paid up capital amounted to \$899,817,900, an increase of \$5,177,341. In this connection, however, it is necessary to draw attention to the foot note on page 32 of the appendices part I., page 32. The gross earnings amounted to \$50,545,569, an increase of \$3,760,082, and the working expenses aggregated \$35,042,655, an increase of \$2,292,986 compared with those of the previous year, leaving the net earnings \$15,502,914, an increase of \$1,467,096. The number of passengers carried was 14.810.407, an increase of 822,827, and the freight traffic amounted to 24.266.825 tons. an increase of 2.742.404 tons. The total number of miles run by trains was 44.500.602. an increase of 3.838.712. The accident returns show 11 passengers killed, of which number not one death was due to collision or derailment.

RAILWAY CONSTRUCTION EXPENDITURE

BEFORE AND SINCE CONFEDERATION.

The following shows the total amount expended by the Government for construction of railway works, or granted in aid of such construction: embracing the period prior to confederation and extending down to the 30th of June, 1896.

EXPENDITURE BY THE GOVERNMENT OTHER THAN SUBSIDY.

(a.) Intercolonial Railway system, as established by the Act 54-55 Vic., ch. 50 (1891)	\$55.967.044	62
Prince Edward Island Railway		
	3,750,565	
Montreal and European Short Line Railway	333,942	72
(b.) Carleton Branch Railway	48,410	48
Canadian Pacific Railway-Works built by the Gov-		
ernment and transferred to the Canadian Pacific		
Railway Company, including payments made		
under award for works in B.C	31,079,833	27
Canadian Pacific Railway-Other expenditure on	•	
surveys, explorations, telegraph lines, Dawson		
Route, Fort Frances Lock, &c	6,639,581	43
(c.) Annapolis and Digby Railway	119,225	80
Total expended by the Government itself on		
railway works	\$97,238,603	71

⁽a.) Certain amounts, total \$296,872.90, originally charged to "Capital," expended prior to confederation on railways which became part of the Intercolonial, were subsequently transferred to "Consolidated Fund" (see the accountant's note Part II, p. 32). They are not included in the above.

(b.) Being the difference between \$88,410.48, expended by the Government, and the sum of \$40,000, paid to it in March, 1893, by the Corporation of St. John, to whom this road was transferred.

(c.) Being the expenditure over and above the sum of \$500,000 voted as a subsidy by the special act 52 Vic., ch. 8 (1889), which sum is included in the "subsidies to railways" under the heading "Western Counties Railway" (see accountant's statement Part II., p. 47), this section having been transferred to that countant. transferred to that company.

PAID AS SUBSIDIES TO RAILWAYS.

Canadian Pacific Railway	\$25,000,000	00
(d) Canadian Pacific Railway Extension to Quebec	1,500,000	00
(e) Canada Central Railway	1,525,250	00
Western Counties Railway (Annapolis and Digby).	500,000	00
(f) Other railways	13,135,282	03
Total paid as subsidy	\$41,660,532	03
Total expenditure on railway construction	\$138,899,13 5	74

This amount does not include the annual subsidy of \$186,600 payable half yearly for twenty years, dating from the 1st of July, 1889, to the Atlantic and North-west Railway Company; nor 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 granted by 47 Vic., ch. 8 (1884), for the line between Ottawa and Quebec, which sum has now been transferred to the public debt as a liability. (See Public Accounts 1895-96, p. X.) These items are dealt with by the Finance Department.

The expenditure for each year is shown in the accountant's statement, part II.

CANADIAN TRANSCONTINENTAL RAILWAY COMMUNICATION

HALIFAX OR ST. JOHN TO MONTREAL.

The routes available between Halifax and Montreal are four in number; in all of which the Intercolonial is used, either in whole or in part, as follows; (the names adopted are those of the dominating roads):-

Mila

Intercolonial Railway Route-

·	miles.	
By Intercolonial Railway to Point Lévis	675	
Grand Trunk Railway to Montreal	173	
•		848
(Or by ferry across the St. Lawrence to Quebec, thence		
by North Shore Railway, C.P.R., also 173 miles.)		
Canadian Pacific Railway Route—		
By Intercolonial Railway to St. John, N.B	275	
New Brunswick Railway and Maine Central Rail-		
way to Mattawamkeag	146	
Canadian Pacific Railway to Montreal		
		775

 ⁽d) Of this, \$970,000 was expended in the purchase of bonds of the road, which were subsequently cancelled under the Act 54-55 Vic., ch. 11.
 (e) Including \$85,250 refunded to the town of Pembroke.

⁽f) Including value of old rails transferred.

Grand Trunk Railway Route-		
•	Miles.	
By Intercolonial Railway to St. John, N.B	275	
New Brunswick Railway	90	
Maine Central Railway	224	
Total up to Danville Junction	589	
By Grand Trunk Railway to Montreal	270	
		859
Témiscouata Railway Route—		
By Intercolonial Railway to St. John	. 275	
New Brunswick Railway to Edmundston	170	
Témiscouata Railway to Rivière du Loup	. 81	
Intercolonial Railway to Lévis	. 115	
Grand Trunk Railway to Montreal	. 173	
•		814

MONTREAL TO THE PACIFIC COAST.

CANADIAN PACIFIC RAILWAY.

Note.—A somewhat detailed statement of the Government transactions with the company will be found in the Annual Report of this department for the year 1887.

	$Trunk \ Line$.		
	Quebec to St. Martin's Junction (13 miles north of Mon	treal)	Miles. 159
	Montreal (at the head of Atlantic Ocean Navigation	to St.	
	Martin's Junction)		13
	St. Martin's Junction to Callander		331
a	Callander to Port Arthur	649	
tion sany izec der	Port Arthur to Red River (opposite Winnipeg)	428	
por osid on n	Red River to Savona's Ferry	1,257	
r this the comerces were subdirect	Savona's Ferry to the waters of the Pacific Ocean		
	at Port Moody	213	
H Q t → ≱G t	_		2,547
	Port Moody to Vancouver	15	
	Total, Montreal to Vancouver	2,906	

This railway was opened for through traffic on the 28th of June, 1886.

By the Act 51 Vic., ch. 32, approval and ratification was given to a certain agreement, dated the 18th of April, 1888, provisionally made between the Government and the Company, whereby the restrictions contained in Article 15 of the original agreement for the construction of the road, barring the Dominion Parliament for twenty years from authorizing the construction of railways south of the Canadian Pacific Railway from any point at or near that road, except those running south-west, were removed. By this agreement, the Government undertook to guarantee the payment of interest at $3\frac{1}{2}$ per cent on an issue of the company's bonds,

to the extent of fifteen million dollars, running for a term not exceeding fifty years; the unsold lands of the company's subsidy, estimated at nearly fifty million acres, to form the security for such bonds. The arrangements contemplated by this agreement are being carried out by the Department of Finance. A deed of mortgage in favour of special trustees, one of whom is the Minister of Finance, has been executed under date the 2nd of June, 1888, having previously been approved by an Order in Council of the 1st of that month, being a mortgage of the said unsold lands of the company's subsidy, amounting to 14,934,238 acres, and constitutes the said security.

By the Act passed in 1891, 54-55 Vic., c. 11, respecting the North Shore section of the Canadian Pacific Railway, authority was given, subject to certain provisions, for the cancellation of the mortgage bonds of the North Shore Railway, which to the value of \$1,108,626, had been purchased by the Government for the sum of \$970,000 (part of a sum of \$1,500,000 voted by Parliament in the years 1884 and 1885, to secure to the port of Quebec free access for the trains and traffic of the Canadian Pacific Railway) and for discharging that company from all liability in respect of such bonds. The conditions under which this action might be taken were, as stated in the Act, that the company should execute a deed of agreement binding itself to complete and provide, with all due diligence, the following works and improvements, namely:-

"Rolling stock, including sleeping cars, day coaches, baggage, mail, and express cars, locomotives and freight cars, of a standard equal to that used on other portions of the company's railway system, involving an outlay of about three hundred and fifty thousand dollars.

"Improvements over the whole line between St. Martin's Junction and the city of Quebec, of such a character as to bring that section up to the highest standard of the other Canadian Pacific stations, including additional accommodation for passengers at nearly every station, and increased space for the handling of freight, the lengthening of platforms and sidings, the furnishing of new sidings for the development of stone, lumber and other traffic, the substitution of iron for wooden bridges on the line of the North Shore Railway, and the construction of the following specific works, that is to say:-

- (1.) In the city of Quebec:
 - (a.) One grain elevator;

(b.) One flour shed;

- (c.) Such local improvements and facilities as are necessary for the handling of the traffic of that city.
- (2.) In Three Rivers:

(a.) One grain elevator;

(b.) Improvements over the loop line;(c.) Improvements on the Piles Branch;

"The said improvements over the whole line involving an outlay of about \$300,000, in addition to the said outlay on rolling stock;

"The whole to be completed to the satisfaction of the Minister of Railways and Canals."

In pursuance of this Act, and on application by the company, an Order in Council was passed on the 14th of December, 1891, reciting the facts of the case, and approving of the execution of a draft agreement, by which the company binds xiii

itself to carry out the improvements called for by the Act; expending the money thereon as follows:—

"At least two hundred thousand dollars (\$200,000) during the year ending on the first day of April, A.D. 1893; an aggregate of at least three hundred and fifty thousand dollars (\$350,000) to the end of the year ending on the first day of April, A.D. 1894; and an aggregate of at least five hundred thousand dollars (\$500,000) to the end of the year ending on the first day of April, A.D. 1895, and an aggregate of at least six hundred and fifty thousand dollars (\$650,000) to the end of the year ending on the first day of April, 1896, subject to such extension in respect of any repairs or renewals for which the necessity has not arisen as may be granted by His Excellency the Governor in Council."

On the 22nd of December, 1891, the agreement so authorized was duly signed.

The works are in progress, but no inspection has yet been made.

In the agreement dated the 20th of November, 1886, and executed under an Order in Council of the 2nd of that month, which constituted the basis of the final settlement of matters between the Government and the company prior to the transfer of the road to them, a special provision was inserted, in view of dispute as to the condition in which the work in British Columbia executed by the Government should be handed over. The company accepted the same, "subject to the adjustment and correction by the Government of any defects or deficiencies in the construction thereof, if any, according to the specifications and conditions of the contracts therefor, except in so far as the same were modified by the Government prior to 21st of October, 1880."*

For the determination of the questions covered by the foregoing, a special arbitration was authorized by an Order in Council of the 5th of January, 1888. The arbitrators duly made their award, dated the 6th of July, 1891, and it was furnished to the Government in October, 1891, the amount fixed thereby as payable by the Government to the company being \$579,255.20. The amount claimed by the company was \$12,000,000. This award, in effect, represents the value of work which the arbitrators find the Government should have performed on the sections of the road in British Columbia constructed by it. The amount awarded was to be expended, under the supervision of an officer of the Government, for the improvement of the railway in certain specified directions.

The total value of the work so executed up to the 1st of October, 1896, as returned by the Government officer in charge is \$568,006.15, which includes the expenditure, \$202,675.20, prior to the date of the award, leaving still to be expended the sum of \$11,249.05. A detailed report from the Inspecting Engineer on the work executed will be found in the Appendices, part I., p. 95.

It should be noted that for the year ended on the 30th June, 1896, the company had under traffic, in Canada, 6,211 miles of railway, including leased lines—and that its gross earnings were \$20,175,384.99 (as against 6,159 miles of railway and earnings \$17,912,273.60 the previous year). The total expenditure for working expenses was \$12,202,360.50, making the net earnings \$7,973,024.49, an increase of \$1,343,256.89 over the net earnings of the previous year. The company carried 3,036,619 passengers and 4,576,632 tons of freight. These figures, which apply only to the traffic in Canada, are taken from the sworn statements of the company, furnished in accordance with the Railway Act. (See Railway Statistics Part VI).

^{*}The date of the company's contract.

GOVERNMENT RAILWAYS IN OPERATION

The several lines maintained by the Government are: The Intercolonial, the Windsor Branch (maintained only), and the Prince Edward Island Railway, making a total of 1,397½ miles.

Details respecting these railways and their operations will be found in the Appendices part I., containing reports from the Chief Engineer of the department, the General Manager of Government Railways, and the officials of these roads.

The general revenue accounts for 1895-96 show the following as the financial position of these roads for the fiscal year.

The Intercolonial Railway system, 1,142 miles in operation, earned \$2,957,640.10 and the working expenses aggregated \$3,012,827.62, the loss on the year's operations being \$55,187.52.

The Windsor Branch is maintained, but not operated by the Government, which takes one-third of the entire receipts. Its length is 32 miles. The Government earnings amounted to \$36,561.83, and the expenditure on maintenance was \$16,476.46, leaving a profit of \$20,085.37.

The Prince Edward Island Railway is 211 miles long. Its earnings amounted to \$146,476.54, and the working expenses were \$225,138.56; the loss on the year's operation being \$78,662.02.

The gross earnings of all the Government roads for the past fiscal year amounted to \$3,140,678.47, and compared with those of the preceding year show an increase of \$11,228.10. The gross working expenses amounted to \$3,254,442.64, an increase of \$69,994.64. The repairs and renewals of wharfs on the Intercolonial, particularly those at Halifax and Richmond, destroyed by fire as stated in last year's report, were responsible for a large share of this increase, this item of expenditure aggregating \$72,080.28 as against \$7,824.78 the previous year.

The net loss on the operations of the year was \$113,764.17.

INTERCOLONIAL RAILWAY.

The Intercolonial Railway touches six Atlantic Ocean ports, namely Pointe du Chêne, Pictou, Halifax, St. John, Sydney and North Sydney. Connection is made with the Grand Trunk Railway at Chaudière Junction and with the Canadian Pacific Railway at Quebec (by ferry from Lévis).

The total length of the road is 1,142 miles, to which is to be added for freight branches $12\frac{1}{2}$ miles, making a total of $1,154\frac{1}{2}$ miles.

The following are the through distances:-

Lévis (opposite Quebec) via St. Joseph and St. Charles Junction	Miles.
(14 miles) to Halifax	675
Lévis to St. John	578 827
Lévis via Truro { to Sydney	820

Note.—At Lévis, passengers make connection with the Canadian Pacific Railway with the Grand Trunk Railway. Freight is carried direct along the old main line between Chaudière Junction and St. Charles Junction (17 miles), instead of round by Lévis to St. Charles Junction, a total distance of 24 miles.

CAPITAL ACCOUNT.

During the fiscal year there was an addition of \$259,423.42 to the Capital Account expenditure, making the total expenditure chargeable to "Capital," on the whole road as amalgamated under the Act 54-55 Vic., ch. 50 (1891), up to the 30th June, 1896, \$55,267,362.82, less refund of previous year's expenditure, \$318.19, or a total of \$55,-267,044.63.

The additions made during the year included \$124,910.03 for increased accommodation at Halifax, \$107,402.17 on the construction of the branch line from Windsor Junction to Dartmouth, \$11,374.41 for increased accommodation at Sydney, and \$10,000 on rolling stock.

REVENUE ACCOUNT.

The gross earnings of the year amounted to \$2,957,640.10, and the working expenses to \$3,012,827.62, making the excess of expenditure \$55,187.52. The expenditure exceeded that of the previous year by \$75,924.88, and the earnings by \$16,922.15.

Comparing the earnings with those of the previous year, the passenger traffic produced \$971,426.26, an increase of \$7,511.82; the freight traffic amounted to \$1,788,813.18, an increase of \$6,204.64, and the carriage of mails and sundries produced \$197,400.66, an increase of \$3,205.69.

The value of stores, including fuel and steel rails, on hand at the close of the fiscal year was \$765,848.89.

The cost per mile of railway was \$2,638.20 against \$2,571.71 the previous year, and the cost per mile run by trains was 78.41 cents against 73.43 cents the previous year.

GENERAL OBSERVATIONS.

In comparing the traffic of the past fiscal year with that of the previous year, the following features will be of interest:—

The total number of passengers carried was 1,471,866, an increase of 119,199. The local passenger traffic increased by 114,519, and the through traffic by 4,680. The freight traffic amounted to 1,379,618 tons, an increase of 111,802. Of this increase, 1,947 tons were through and 109,855 tons local freight.

Of flour there were carried 822,097 barrels, a decrease of 116,254. Of grain there were carried 1,064,385 bushels, an increase of 28,001. No portion of this was for shipment at Halifax. Lumber showed an increase of 24,085,446 superficial feet, the total quantity transported being 226,332,715 feet. There was a decrease of 8,055 in the number of live stock carried, the number being 64,051. Coal showed an increase of 47,313 tons, the quantity being 432,513 tons. Of raw sugar 9,824 tons were carried, a decrease of 518 tons, the whole quantity being for local stations. Of refined sugar 40,181 tons were carried, an increase of 6,316 tons; of this all but 11,309 tons was for points west of the road. A total of 6,344 tons of fresh fish, a decrease of 548 tons, and a total of 5,741 tons of salt fish, a decrease of 4,468 tons, were carried.

Of ocean borne goods to and from Europe via Halifax the aggregate amounted to 20,829 tons, an increase of 3,468 tons; of this 16,748 tons were local traffic of the road.

Forty-five miles of track were relaid with the heavier steel rail, 67 pounds to the yard, in place of the 56 pounds rail. This work was charged to revenue.

By a fire which occurred at the Halifax deep water terminus on the 27th February, 1895, railway property was destroyed to the value of \$202,100, the wharf and the grain elevator being the principal losses. The work of rebuilding has been carried on during the year, as also the rebuilding of the wharf at Richmond, destroyed by fire on the 19th of May, 1895, entailing a loss to the extent of \$100,000.

The old railway crossing of the Narrows at Halifax harbour, giving communication with Dartmouth, having been practically destroyed by storms, and abandoned, a branch line, $10\frac{1}{2}$ miles in length, between Windsor Junction and Dartmouth has been constructed, and was sufficiently completed to admit of its being opened for traffic in June, 1896.

The winter of 1895-96 was not severe, and the cost of the removal of snow and ice was only \$42,554.17, being about \$10,000 below the average cost.

All necessary repairs were made to structures, buildings, wharfs, and other works; and the whole road, with its rolling stock, has been efficiently maintained.

Various statistical and comparative tables and other detailed information will be found in the appended reports of the Chief Engineer of the department, and of the General Manager and other officers of the Intercolonial Railway.

WINDSOR BRANCH.

This road is 32 miles in length. It extends from Windsor Junction, on the Intercolonial Railway, to Windsor.

This railway is operated by the Windsor and Annapolis Railway Company, now called the Dominion Atlantic Railway Company. The company pay all charges in connection with the working of the traffic, two-thirds of the gross earnings being allowed them, the Government taking the remaining one-third, and assuming all costs of maintenance of the road and works. This arrangement is carried out under an agreement dated the 13th of December, 1892, which extends, for a further term of 21 years, arrangements similar to those made in 1871.

All charges for superintendence and supervision of maintenance of works are borne by the Government, the duty of supervision being performed by the chief officers of the Intercolonial Railway.

The gross earnings of the Government (one-third of gross receipts) amounted to \$36,561.83, a decrease of \$2,515.81. The expenses of maintenance amounted to \$16,476.46, an increase of \$1,836.39, leaving the profit to the Government \$20,085.37.

The road has been maintained in good order. Details will be found in the appendices. (See part I, p. 72.)

PRINCE EDWARD ISLAND RAILWAY.

LENGTH OF LINE.

	Miles.
Souris to Tignish	
Mount Stewart to Georgetown	. 24
Charlottetown to Royalty Junction	. 5
Emerald Junction to Cape Traverse	13
Alberton to Cascumpec Wharf	. 1
	211

The railway was first opened for traffic on the 12th of May, 1875.

CAPITAL ACCOUNT.

The total cost of the road and equipment chargeable to capital account at the close of the fiscal year 1894-95 was \$3,750,565.38. There was no addition during the fiscal year 1895-96.

REVENUE ACCOUNT.

On revenue account the gross earnings amounted to \$146,476.54, and the working expenses to \$225,138.56, the over expenditure being \$78,662.02.

Compared with the previous year the gross earnings show a decrease of \$3,178,24. The railway carried 122,586 passengers, a decrease of 2,503, producing \$62,358.12, an increase of \$118.75. Of freight there were carried 46,395 tons, a decrease of 1,930 tons, producing \$65,391.92, a decrease of \$2,669.19. The transport of mails and sundries produced \$18,726.50, a decrease of \$627.80.

Compared with the previous year, the expenditure was greater by the sum of \$7,766.63.

The cost per mile run by trains was 91.60 cents, a reduction of 3.75 cents; and per mile of railway \$1,072.19, a decrease of \$36.98.

The value of stores on hand at the close of the fiscal year was \$115,228,03.

The road, with its buildings and rolling stock has been maintained in a satisfactory condition.

Details of operations will be found in the Appendices part I., p. 76.

Communication between the Prince Edward Island Railway and the Intercolonial is afforded in summer by steamer between Summerside and Point du Chêne, between Charlottetown and Pictou, and between Georgetown and Pictou, and in winter by the specially-built steamer "Stanley" between Georgetown and Pictou and between Charlottetown and Pictou; there is also further provision made for communication by iceboats from Cape Traverse. These cross the Strait to Cape Tormentine, on the mainland, a distance of about 9 miles. Here, by the line of the New Brunswick and Prince Edward Railway, about 40 miles in length, connection is made with the Intercolonial Railway at Sackville. This winter service is conducted by the Marine Department, the mails being taken to and met at Cape Traverse by special trains, whenever required by the Post Office Department.

GOVERNMENT ACTION AS TO SUBSIDIZED LINES.

Note.—The numbers within brackets after the title of the company refer to the lists of railways subsidized by Parliament in part III.

With regard to the several lines of railway subsidized by the Dominion, the following represents the action taken and the progress made, in so far as the Dominion Government is concerned; only those lines and companies being mentioned as to which definite steps, other than merely preliminary, have been taken towards securing the subsidy. Information has been brought down to the end of the fiscal year, the 30th of June, 1896, only.

The following shows the aggregate of the payments made on ordinary subsidy account since the system of subsidy of railway enterprise was commenced.

For the fiscal	year 1883-84,	ended on June 3	30, 1884	\$ 208,000	00
do	1884-85,	do	1885	403,245	00
do	1885-86,	do	1886	2,171,249	00
do	1886-87,	do	1887	1,406,533	00
do	1887-88,	do	1888	1,027,041	92
do	1888-89,	do	1889	846,721	83
do	1889-90,	do	1890	1,491,595	72
do	1890-91,	do	1891	1,079,105	87
do	1891-92,	\mathbf{do}	1892	1,061,615	93
\mathbf{do}	1892-93,	do	1893	624,794	07
do	1893-94,	do	1894	1,043,285	10
do	1894-95,	do	1895	1,123,949	10
$^{\mathrm{ob}}$	1895-96,	do	1896	648,145	49
				\$13,135,282	03

To the above there have to be added the following exceptional subsidies:

Canada Cent	ral Railwa	y	\$ 1,525,250	00
Canadian Pa	cific Railw	ay	25,000,000	00
"	"			
Western Cou	500,000	00		

Total subsidies paid up to the 30th of June, 1896. \$40,660,532 03

The above does not include the annual subsidy payable to the Atlantic and Northwest Railway Company, nor the amount due to the province of Quebec for the railway between Ottawa and Quebec which has now been transferred to the public debt.

The following pages show, in alphabetical sequence, the position of those companies whose dealings with the Government in respect of subsidies are not yet closed. Reports of previous years give information as to companies whose subsidies have been fully earned and paid prior to the 1st of July, 1895.

A tabulated statement of payments will be found in Part II., page 44, and a list of subsidy agreements entered into during the fiscal year in Part IV., p. 10.

The several Subsidy Acts passed in each year from 1882 will be found in Part III., p. 7 No subsidies were authorized in the sessions of 1895 and 1896.

Albert Southern Railway Company.

(See Annual Report of 1891-92.)

Atlantic and North-west Railway Company.

(See Annual Report of 1889-90.)

Baie des Chaleurs Railway Company.

(See Nos. 6, 42 and 158.)

This company was incorporated by the Quebec Provincial Act, 43 Vic., ch. 53, (1880).

The Dominion Act 47 Vic., ch. 8, authorized the expenditure of \$300,000 (revoted in the year 1885), for the construction of a branch of the Intercolonial Railway, to extend for a distance of 20 miles eastward from Metapediac towards Paspebiac.

Tenders for the works were received, but none of them coming within the limit of expenditure authorized by Parliament, an offer made by the Baie des Chaleurs Railway Company to build and operate this section as a part of their own road from Metapediac to Paspebiac for the amount, was accepted by an Order in Council of the 18th of September, 1885, and a provisional contract was entered into with them on the 7th of November, the section to be finished by the 1st of July, 1888; plans being furnished and the work supervised by the department.

By the Act 46 Vic., ch. 25 (1883), a subsidy had been authorized in favour of this company towards the construction of their said road: the limit fixed by the Act being \$3,200 a mile, for 100 miles, or a total of \$320,000.

Provision, however, having been made, as above stated, for the building of the first 20 miles of this distance, the contract entered into with the company, also on the 7th of November, 1885, as authorized by an Order in Council, also dated the 18th of September, for the work under this subsidy, dealt with the construction of the last 80 miles only. It contained a clause under which, subject to authorization from Parliament to that end, the portion, namely, \$3,200 a mile, applicable to the first 20 mile section of the road under the 100-mile subsidy of 1883, should be transferred to the second 20-mile section as an additional subsidy therefor, making the grant for such section \$6,400 a mile.

To this arrangement approval of Parliament was given, the two agreements above mentioned being ratified and confirmed by the special Act 49 Vic., ch. 17; the date for the completion of the road being fixed by the Act as the 1st of December, 1888, in place of the 25th of May, 1887, as contemplated by the agreements.

By the Railway Subsidy Act of 1889, 52 Vic., ch. 3, the balance, \$244,500, remaining unpaid of the subsidy mentioned in the Act 49 Vic., ch. 17, was granted to the company.

By authority of the same Act, the subsidy applicable to the 30 miles between the 70th and 100th mile was transferred to the section between the 40th and the 70th, making the grant for this section also \$6,400 a mile. The company undertook to construct the section from the 70th to 100th mile without subsidy, and have deposited bonds to the value of £83,000 stg. as security to that effect.

Under date the 1st of June, 1891, an Order in Council was passed approving of the location of the section between the 60th and the 80th miles, and under date the 26th of October, 1891, a copy was furnished to the department of a contract made by the company for the construction of this section of road.

By the Act 54-55 Vic., ch. 97 (1891), the company was declared to be a corporation under the Parliament of Canada, and the time for completion of its railway was extended for charter purposes, namely, up to Paspebiac, to the 30th September, 1893, and up to Gaspé Basin to the 30th of September, 1895.

The total subsidy for this road, covering the first 70 miles, was \$620,000.

Up to the close of the fiscal year 1889-90, payments had been made aggregating \$524,175. During the fiscal year 1893-94, there was paid the balance, \$95,825, covering the 70 miles subsidized and completed. Some further work has been done on the remainder of the road, for which no subsidy is payable.

Beauharnois Junction Railway Company.

(See Nos. 102 and 302.)

By the Railway Subsidy Act, 50-51 Vic., ch. 24, the grant of a subsidy not exceeding \$96,000 was authorized in favour of the Beauharnois Junction Railway Company from St. Martin towards St. Anicet, the estimated distance being 30 miles.

On the 21st of November, 1887, and under the authority of Orders in Council of the 1st October and 2nd of November, a contract for the work was made with the company, namely, from St. Martin to Valleyfield, towards St. Anicet, the road to be completed by the 1st of December, 1888. By the Order first named, approval was also given to the location of the road from its junction with the Montreal and Champlain Junction Railway, at St. Martin, to Valleyfield, $19 \, \frac{69}{100} \, \text{miles}$. Up to the close of the fiscal year 1889-90, the total payments amounted to \$58,900. By the Act 56 Vic., ch. 2 (1893), the unpaid balance, \$3,500, was revoted, and was paid during the past fiscal year, making the total payments \$62,400.

Belleville and North Hastings Railway Company.

(See Annual Report of 1888-89.)

Boston and Nova Scotia Coal Company.

(Nos. 251 and 356.)

The company was incorporated by the Act of the province of Nova Scotia, 56 Vic., ch. 147 (1893), with general powers for railway purchase or construction.

By the Dominion Subsidy Act, 57-58 Vic., ch. 4 (1894) a subsidy to this company, limited to \$113,600 (in lieu of one previously granted in 1892) was authorized for the construction of 35½ miles of railway from a point on the Cape Breton Railway at or near Orangedale to Broad Cove, on the western side of the Island, and under date the 16th of November, 1894, a contract was entered into with the company for the work subsidized, the date for completion being fixed as the 1st August, 1896.

No payments have been made up to the 30th of June, 1896.

Brockville, Westport and Sault Ste. Marie Railway Company.

(See Nos. 48, 181, 193, 240, 267 and 316.)

By the Act 48-49 Vic., ch. 59 (1885), aid was granted to an extent not exceeding \$128,000 towards the construction of the portion between Brockville and Westport, about 40 miles, of the line of the Brockville, Westport and Sault Ste. Marie Railway.

Under the authority of an Order in Council of the 28th of April, 1886, a contract was made with the company on the 16th of July, 1886, the subsidized road to be finished by the 1st of August, 1889.

Under an Order in Council of the 26th of November, 1888, the sum of \$45,000 was paid. The balance of the subsidy lapsed on the 1st of August, 1889, but was revoted by the Act 53 Vic., ch. 2 (1890).

By the Act 53 Vic., ch. 2 (1890), the grant of a subsidy to the extent of \$64,000 was authorized for 20 miles of railway from Newboro' towards Palmer's Rapids. For this subsidy there was substituted, by Act 54-55 Vic., ch. 8, one for the same amount, and for the same distance, 20 miles, but from a point "at or near Newboro' towards Palmer's Rapids," payment to be made on completion of each section of the railway as follows:—from, at, or near Newboro' to Westport, 4 miles, and from Westport towards Palmer's Rapids, 16 miles.

By the Subsidy Act 55-56 Vic., ch. 5 (1892), the unpaid balances granted by 52 Vic. and 53 Vic., were revoted, and were further revoted by the Act 57-58 Vic., ch. 4, (1894), the amount not to exceed \$86,800.

Up to the close of the fiscal year, 1891-92, payment has been made to the extent of \$105,200. Nothing further has been paid up to the 30th June, 1896.

Brantford, Waterloo and Lake Erie Railway Company.

(See Nos. 104 and 318.)

By the Act 50-51 Vic., ch. 24 (1887), authority was given for the grant of a subsidy of \$57,600 to the above company, for 18 miles of their railway from Brantford to Hagersville or Waterford, or some intermediate point on the Canada Southern Railway.

Under an Order in Council of the 4th of August, 1888, a contract was made with the company, on the 31st, for a line from Brantford to Waterford. An Order of the same date approved of the location, the actual distance being 16\frac{3}{4} miles. Up to the close of the fiscal year 1890-91, the payments amounted to \$52,810, the amount of subsidy applicable being \$53,600. This company has now become amalgamated with the Toronto, Hamilton and Buffalo Railway Company, the agreement for amalgamation being approved by an Order in Council of the 16th of December, 1892.

By the Subsidy Act of 1894, 57-58 Vic., ch. 4, the unpaid balance of the previous subsidy, not exceeding \$4,790, was revoted, and was paid during the past fiscal year, making the total amount \$57,600.

Buctouche and Moncton Railway Company.

(See Annual Report for 1893-94.)

Canada Atlantic Railway Company,

(See Annual Report for 1888-89.)

Canada Eastern Railway Company.

(See Annual Report for 1894-95.)

Canadian Pacific Bailway Company.

(See No. 243.)

By the Subsidy Act 55-56 Vic., ch. 5 (1892), the grant of a subsidy limited to \$80,000 was authorized for 25 miles of a railway from a point on the Canadian Pacific Railway at or near Revelstoke to the head of Arrow Lake.

Under date the 24th of October, 1893, a contract has been made with the Canadian Pacific Railway Company for this work, the date for completion being the 1st of August, 1896. During the fiscal year 1894-95 the sum of \$28,000, covering the first 10 miles from Revelstoke, was paid. No further payments were made during the past fiscal year.

Cap de la Madeleine Railway Company.

(See No. 369.)

This company, was incorporated by the Quebec Act, 58 Vic., ch. 63 (1895) with powers to build a railway from some point on the Canadian Pacific Railway in the parish of Ste. Marie Madeleine to the River St. Lawrence in that parish.

By the Dominion Subsidy Act 57-58 Vic., ch. 4 (1894) authority was given for the grant of aid to the extent of \$9,600 for three miles of railway from Cap de la Madeleine to connect with the Piles Branch of the Canadian Pacific Railway.

The above company applied and were admitted to contract for the work on the 26th of June, 1896.

No payments have been made during the fiscal year.

Cape Breton Railway Extension Company.

(See No. 366.)

This company was incorporated by the Provincial Act of 1890, ch. 72, with powers for the construction of a line of railway from the Gut of Canso to Sydney or Louisbourg, with branches to any other railway.

By the Subsidy Act 57-58 Vic., ch. 4 (1894), assistance was authorized to the extent of \$96,000 for 30 miles of the company's railway from Port Hawkesbury to St. Peter's on their line of railway from Hawkesbury to Louisbourg, and on the 21st of September, 1894, a contract was entered into with them for the work, the date for completion being fixed as the 1st of October, 1895.

No portion of the subsidy has been paid up to the 30th of June, 1896.

Caraquet Railway Company.

(See Annual Report of 1888-89.)

Central Railway Company of New Brunswick.

(See Nos. 40, 143, 156, 205 and 353.)

By the Act of 1884, 47 Vic., ch. 8, a subsidy not exceeding \$128,000 was granted in aid of the construction of about 40 miles of the Central Railway, from the head of the Grand Lake to a point on the Intercolonial Railway between Sussex and St. John, N.B.

Under the authority of an Order in Council of the 5th of June, 1886, a contract was made with the Central Railway Company, on the 7th July, 1886, for a line from Salmon River, at the head of Grand Lake, to Norton, on the Intercolonial Railway, work to be completed by the 1st of July, 1888. Certain work has been executed, but the contract obligations had not been carried out, and no portion of the subsidy was paid. The subsidy lapsed, but was revived by the Subsidy Act, 52 Vic., ch. 3 (1889).

On the 1st of December, 1890, a new contract was made with the company for this work under the Subsidy Act of 1889, the limit of subsidy being \$128,000: this contract covering also a subsidy for $4\frac{1}{2}$ miles, the limit of which was \$14,400, authorized by the Act, 53 Vic., ch. 2, making a total subsidy of \$142,400; the total length of road subsidized being $44\frac{1}{2}$ miles. The date for completion was fixed as the 1st of December, 1891.

By the Act 51 Vic., ch. 3, a grant as a subsidy to this company was authorized of used iron rails to the value of \$83,612.54, loaned to the St. Martin's and Upham Railway Company (which railway has been acquired by the Central Railway Company; the sale being approved by an Order in Council of the 15th of November, 1887), the condition of the grant being that such rails should first be replaced by new steel rails. The new steel rails were substituted, and an Order in Council of the 18th of October, 1889, authorized the transfer of the rails to the company.

By the Subsidy Act of 1894, 57-58 Vic., ch. 4, the grant of a subsidy, not exceeding \$48,000, to this company was authorized for 15 miles of their railway from Chipman station to the Newcastle coal fields, and a contract for the work was made with the company on the 7th of September, 1895.

Up to the end of the fiscal year 1891-92, there had been paid, including the value of the said rails, the sum of \$159,251.54; no payments have since been made up to the 30th of June, 1896.

Chatham Branch Railway Company.

(See Annual Report of 1893-94.)

Chignecto Marine Transport Company.

(See Annual report for 1894-95.)

Cobourg, Northumberland and Pacific Railway Company.

(See Nos. 301, 249 and 275).

This company was incorporated by the Act 52 Vic., ch. 62 (1889), for the construction of a line of railway from Cobourg Harbour to the River Trent, to the Ontario and Quebec Railway, and to the mining regions of Marmora and Belmont.

By subsequent legislation in 1891, 1892 and 1894, the company's charter has been revived, and powers given for extension to the mineral lands of the county of Hastings, and for leasing the road to the Canadian Pacific Railway Company; the time for completion being extended to the 9th of July, 1898.

By the Subsidy Act of 1890, assistance to the extent of \$96,000 was authorized for 30 miles of the company's railway from Cobourg to the Ontario and Quebec Railway, and by the Subsidy Act of 1892, an additional subsidy of \$60,800 was authorized for 19 miles. By the same Act the subsidy voted in 1890, was revoted.

A contract for the construction of the 49 miles subsidized was entered into with the company on the 16th of June, 1894, the date for completion being fixed as the 1st of August, 1896.

By an Order in Council of the 28th of December, 1894, approval has been given to an agreement between the company and the Canadian Pacific Railway Company, dated the 30th of June, 1894, for the lease of the road to the latter company, when completed, for a term of 999 years.

No payments have been made up to the 30th of June, 1896.

Columbia and Kootenay Railway and Navigation Company.

(Leased to the Canadian Pacific Railway Company.)

(See Annual Report for 1891-92.)

Cornwallis Valley Railway Company.

(See Annual Report for 1891-92.)

Cumberland Railway and Coal Company.

(See Annual Report for 1894-95.)

Dominion Atlantic Railway Company.

(See Western Counties Railway Company.)

Dominion Lime Company.

(See Annual Report for 1888-89.)

Dominion Coal Company.

(See No. 262.)

This company was incorporated by the Nova Scotia Act, 56 Vic., ch. 145 and 146. By the Subsidy Act, 55-56 Vic., ch. 5 (1892), a subsidy, limited to \$89,600, was authorized for 28 miles of a railway to complete connection between Sydney and Louisbourg, Cape Breton.

On the 26th January, 1894, a contract was entered into with the above company for the work from Bridgeport to Louisbourg Harbour. The railway is completed, the total distance being 27.44 miles. During the fiscal year the sum of \$55,808 has been paid, making a total of \$87,808, the full amount applicable.

Drummond County Railway Company.

(See Nos. 99, 175, 214 and 339.)

By the Railway Subsidy Act of 1888, 50-51 Vic., ch. 24, the grant of aid to an extent not exceeding \$96,000 was authorized to the Drummond County Railway Company for 30 miles of their railway from Drummondville towards Nicolet, Quebec.

Under the authority of an Order in Council of the 12th of November, 1887, a contract was made with the company on the 1st of December, 1887, covering a line from the Scuth-eastern Railway, at the village of Drummondville, to the south-west branch of the River Nicolet; the road to be completed by the 1st of August, 1891.

On the 2nd of May, 1889, the company were admitted to contract for the balance, $17\frac{1}{2}$ miles, of the 30 miles subsidized.

By the Subsidy Act of 1889, 52 Vic., ch. 3, the company were further subsidized for $4\frac{1}{2}$ miles from the end of the line already subsidized, to Ball's wharf, on the River St. Lawrence, to the extent of \$14,400, and were admitted to contract on the 21st of January, 1890.

By the Subsidy Act 53 Vic., ch. 2 (1890), authority was given for the grant of a subsidy, the limit of which was \$76,000, for 24 miles of the railway of the company from Drummondville to Ste. Rosalie. Under date the 2nd of February, 1891, the company were admitted to contract for this work.

By the Subsidy Act 57-58 Vic., ch. 4 (1894), authority was given for the grant of a subsidy to this company for 30 miles of railway from St. Leonard westerly towards a junction with the Intercolonial at Chaudière Junction; the limit being fixed at \$96,000, and a contract for the work was made with the company on the 14th of November, 1894.

Up to the close of the fiscal year 1892.93, there had been paid to the company the sum of \$195,840, and during the fiscal year 1894-95 the further sum of \$92,096 was paid, making the total payments \$287,936 up to the 30th of June, 1895. No payments were made during the past fiscal year.

Elgin, Petitcodiac and Havelock Railway Company.

(See Annual Report for 1885-86 and 1890-91.)

Erie and Huron Railway Company,

(See Annual Report for 1886-87.)

Esquimalt and Nanaimo Railway Company.

(See Annual Report for 1886-87.)

Fredericton and St. Mary's Bridge Company.

(See Annual Report for 1888-89.)

Grand Trunk, Georgian Bay and Lake Erie Railway Company.

(See Annual Report for 1893-94.)

Great Eastern Railway Company.

(See Nos. 88, 114, 174, 213, 235 and 296,)

By the Act 49 Vic., ch. 10, authority was given for the grant of a subsidy to an extent not exceeding \$32,000, on an estimated distance of 10 miles, towards the construction of a line from Yamaska to the River St. Francis, Que.; and the Great Eastern Railway Company having applied, a contract was made with them on the 12th of October, 1886, under the authority of an Order in Council of the 9th of that month, the time of completion being fixed as the 1st October, 1887.

The road having been completed and inspected, the whole of the subsidy due for its actual distance, 6 miles, namely \$19,200, was paid under an Order in Council of the 27th of March, 1887.

By the Act 50-51 Vic., ch. 24, authority was given for the grant of a subsidy to the company to an extent not exceeding \$96,000, for 30 miles of their railway from the River St. Francis to the Arthabaska (Grand Trunk) Railway at St. Grégoire, and under an Order in Council an agreement was entered into with them for the work, the date being 16th March, 1888. During the fiscal year 1890-91 the sum of \$16,300 was paid from this subsidy for 6 66 miles from the east bank of the River Nicolet to the Grand Trunk Railway at St. Grégoire.

By the Act 52 Vic., ch. 3, a subsidy was authorized to the extent of \$64,000 for a further distance of 20 miles from St. Grégoire. This subsidy was, in effect, revoted by the Act 56 Vic., ch. 2 (1893).

Authority has been given for entry into contract for this work, but the contract has not yet been signed.

By the Act 53 Vic., ch. 2 (1890), a subsidy of 15 per cent on the value of two bridges, one over the River Nicolet, the other over the River St. Francis, not exceeding \$37,500, was authorized. On the 20th of June, 1891, a contract was entered into with the company for the work. During that fiscal year there was paid the sum of \$4,845 for work on the Nicolet bridge.

By the Subsidy Act 54-55 Vic., ch. 8, there was revoted the balance unpaid, \$79,700, of the subsidy granted by the Act 50-51 Vic., ch. 26, which had lapsed, for a railway from the River St. Francis to the Arthabaska Railway at St. Grégoire.

The total amount paid the company up to the 30th of June 1892 is \$40,345. There has been no further payment up to the 30th of June, 1896.

Great Northern Railway Company.

(See Nos. 33, 37, 72, 79, 154, 215, 231, 308, 309 and 371.)

By the Act 47 Vic., ch. 8 (1884), a subsidy not exceeding \$32,000 was granted to this company for the construction of a line from St. Jérôme to New Glasgow, Que., the estimated length being 10 miles.

Under the authority of an Order in Council of the 3rd February, 1885, a contract for the work was entered into with the company on the 14th of that month, the road to be completed by the 1st of July, 1885.

The line was duly completed and inspected. Under an Order in Council of the 2nd of March, 1895, payment was made therefor, namely 7.84 miles, \$25,088.

By the Act 49 Vic., ch. 10 (1886), a subsidy not exceeding \$57,600 was authorized for a line from New Glasgow to Montcalm, a distance of about 18 miles. The Great Northern Railway Company having applied for it, it was granted to them by an Order in Council of the 18th July, 1887, which also approved of the location. The contract was made on the 19th of August, 1887, the road to be completed by the 1st of August, 1890.

By the Act 49 Vic., ch. 10, a subsidy not exceeding \$22,400 was granted for a line from St. Andrews to Lachute, Que., 7 miles. For this subsidy the above named company applied, but no contract was made. The same subsidy was again voted by the Act of 1889, 52 Vic., ch. 3, and under date the 8th of October, 1890, a contract was entered into with them for the work, calling for completion by the 1st of August, 1891. The road was built and allowed to be opened for public traffic in January, 1892.

By the Act 53 Vic., ch. 2 (1890), the grant of a subsidy was authorized, limited to \$48,000, for a line from at or near Montcalm to the Canadian Pacific Railway, between Joliette and St. Félix de Valois, fifteen miles.

By the Act 54-55 Vic., ch. 8 (1891), the unpaid balance, \$28,100, of the subsidy granted in 1886 was revoted.

By the Act 56 Vic., ch. 2 (1893), the unpaid balance, \$25,600 of the subsidy granted in 1891, was revoted, and a new contract for this work was entered into with the company on the 16th of June, 1894.

Also, by the same Act, the subsidy not exceeding \$48,000 granted to the company for 15 miles of their railway from Montcalm to the Canadian Pacific Railway, between Joliette and St. Félix de Valois, by 53 Vic., ch. 2, was revoted, and a contract for this work was entered into with them on the 16th of June, 1894.

By the Subsidy Act 57-58 Vic., ch. 4 (1894), the grant to this company of a subsidy limited to \$96,000, was authorized for 30 miles of railway from a junction with the Lower Laurentian Railway near St. Tite, westwards, in lieu of a subsidy previously granted to the Maskinongé and Nipissing Railway Company. A contract was entered into with the company for this work on the 16th September, 1895, the railway to be completed by the 30th of November, 1896.

During the fiscal year 1894-95 there was paid the sum of \$32,000 for a ten mile section between the 18th and 28th mile from St. Jérôme, and during the past fiscal year \$32,000 was paid for 10 miles westwards from St. Tite, making the total payments to this company \$142,688 up to the 30th June, 1896.

Gulf Shore Railway Company of New Brunswick.

(See No. 374.)

This company was incorporated by the New Brunswick Act 48 Vic., ch. 49 (1885) with powers to construct a railway from some point on the Caraquet Railway to the xxviii

village of Tracadie or to some point in the parish of Sumarey, county Gloucester. The Charter Act was revived by the Act 57 Vic., ch. 73 (1894)

By the Dominion Subsidy Act 57-58 Vic., ch. 4 (1894) assistance was authorized to the extent of \$38,400 for a railway from a point on the Caraquet Railway at or near Pokemouche siding towards Tracadie village, 12 miles.

The above company having applied they were admitted to contract for the work on the 22nd of April, 1896. No payment has been made up to the 30th of June, 1896.

Guelph Junction Railway Company.

(See Annual Report of 1888-89.)

Harvey Branch Railway Company.

(See Annual Report for 1889-90.)

Hereford Railway Company (formerly Hereford Branch Railway Company.)

(See Annual Report for 1891-92.)

International Railway Company.

(See Annual Reports for 1887-88 and 1889-90.)

Inverness and Richmond Railway Company.

(See No. 357.)

This company was incorporated by the Act of the province of Nova Scotia, 50 Vic., ch. 60 (1887), with powers for the construction of a line of railway between Hawkesbury and a point in the district of Margaree. By the Act of 1888, ch. 79, the location of the line was authorized as from Port Hawkesbury, through Port Hastings, Judique, Port Hood, Mabou and Margaree, to a point at Eastern Harbour, Cheticamp.

By the Subsidy Act 57-58 Vic., ch. 4 (1894), assistance to the extent of \$80,000 was authorized for 25 miles of railway from Port Hawkesbury towards Cheticamp, and the above company was admitted to contract for the work on the 23rd of November, 1894, the time for completion being fixed at the first of December, 1896.

No payments have been made up to the 30th of June, 1896.

Irondale, Bancroft and Ottawa Railway Company.

(See Nos. 24, 159 and 301.)

By the Act 47 Vic., ch. 8 (1894), the Irondale, Bancroft and Ottawa Railway Company were subsidized, to an extent not exceeding \$160,000, for a line, about 50 miles long, to connect the Victoria Branch of the Midland Railway with the village of Bancroft.

With the sanction of an Order in Council of the 10th July, 1886, a contract was made with the company on the 19th of August, 1886.

The unpaid balance of subsidy, \$145,000, which had lapsed, was revoted by the Act 52 Vic., ch. 3 (1889), and was again revoted by the Act 56 Vic., ch. 2 (1893).

During the fiscal year 1894.5, the sum of \$32,000 was paid, making the total payments, \$96,000. No payments were made during the past fiscal year.

Joggins Railway Company.

(See Annual Report for 1891-92.)

Kingston, Napanee and Western Railway Company.

(See Napanee, Tamworth and Quebec Railway.)

Kingston and Pembroke Railway Company.

(See Annual Report for 1884-85.)

Lake Erie and Detroit River Railway Company.

Formerly "the Lake Erie, Essex and Detroit Railway Company," name changed by Dominion Act, 54-55 Vic., ch. 88 (1891).

(See Annual Report for 1893-94.)

L'Assomption Railway Company.

(See Annual Report of 1886-87.)

Leamington and St. Clair Railway Company.

(See Annual Report of 1888-89.)

Lake Temiscamingue Colonization Railway Company.

(See Nos. 55, 84, 119, 122, 169, 216, 278, 282 and 324.)

By the Act 48-49 Vic., ch. 59, a subsidy was authorized in aid of the construction of a line of railway from Long Sault to the foot of Lake Temiscamingue, surmounting certain rapids on the Ottawa River. The limit of the amount was \$25,600, covering a total distance of 8 miles. A contract was entered into on the 25th of November, 1885, for the construction of 6 miles, to be completed by the 1st of January, 1887.

In conformity with an express provision to that effect in clause 2 of the Act 49 Vic., ch. 10, letters patent were issued under an Order in Council of the 20th of July, 1886, published in the Canada Gazette of the 24th, granting a charter for the construction of this railway to the "Lake Temiscamingue Colonization Railway Company."

By the Subsidy Act 49 Vic., ch 10, a further subsidy of \$6,000 was authorized for the building of wharfs and landing stages in connection with this line. This was subsequently cancelled, and by the Act 50-51 Vic., ch. 24 (1887), the definition of portions of the road to which the preceding Acts had granted subsidies was corrected, the amount of the subsidy, however, remaining the same, namely, a total of \$31,600.

By the Act 50-51 Vic., ch. 24, the grant of subsidy to the extent of \$33,600, was authorized for $10\frac{1}{2}$ miles of this company's line from Long Sault to Lake Kippewa. The contract for this subsidy was entered into on the 27th of June, 1888.

By the Act 52 Vic., ch. 3 (1889), a subsidy was authorized, not exceeding \$48,000, for 15 miles from Mattawa station, C.P.R., towards the Long Sault, or vice versa.

By the Act 53 Vic., ch. 2 (1890), a subsidy was authorized, not exceeding \$64,000 for 20 miles from the northern end of the line subsidized by 52 Vic., ch. 3.

By the Act 55-56 Vic., ch. 5 (1892), in lieu of the above named subsidies of 1889 and 1890, a subsidy was authorized to this company not exceeding \$112,000 for 35 miles of their railway from Mattawa to the Long Sault.

By the same Act a subsidy was granted to the company, namely, for 15 miles of their railway from the Long Sault to the crossing of the Kippewa River, and 15 per cent on the value of a wooden truss bridge over the Ottawa River, near Mattawa, not exceeding \$15,000, and not exceeding in all \$63,000.

Under date the 31st of August, 1893, a contract was entered into with the company for the construction of the section between Mattawa and the Long Sault Rapids under the subsidy granted in 1892.

By the special Act 54-55 Vic., ch. 94 (1891), the company were empowered to convey or lease their road to the Canadian Pacific Railway Company, and also to extend the railway to the head of Lake Temiscamingue; the company's works to be completed by the 10th of July, 1896. The road is now controlled by the Canadian Pacific Railway Company.

By the Subsidy Act 57-58 Vic., ch. 4 (1894), the subsidies previously granted were revised, balances unpaid were revoted, and additional subsidy was granted; the whole of the subsidies not to exceed \$274,940. Under date the 12th of September, 1894, a new contract was entered into with the company for the work, embracing the distance between Mattawa and Lake Kippewa.

By a separate contract, dated the 1st of June, 1894, the company undertook to build a truss bridge over the Ottawa, at Mattawa.

Up to the end of the fiscal year of 1888-89, the sum of \$52,760 had been paid. No further payment was made until the fiscal year 1894-95, when \$233,198.95 was paid. During the past fiscal year the payments aggregated \$17,900.75, making the total \$303,-859.70 up to the 30th June, 1896, and leaving a balance of subsidy available of \$6,476.25.

Lotbinière and Mégantic Railway Company.

(See Nos. 253 and 338.)

This company was incorporated by the Quebec Act, 52 Vic., ch. 89 (1889), for the construction of a railway from some point at or near the parish church of St. Jean Deschaillons, in the county of Lotbinière, to a point at or near Glen Lloyd, in the county of Mégantic.

By the Subsidy Act 55-56 Vic., ch. 5 (1892), a subsidy to the extent of \$48,000 was authorized for 15 miles of railway from a point at or near St. Jean Deschaillons toward Glen Lloyd.

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On the 17th of July, 1893, a contract was entered into with the company for the work so subsidized, for which was substituted one dated the 27th of February, 1894, covering the distance from St. Jean Deschaillons to Lyster Station on the Grand Trunk Railway.

By the Subsidy Act 57-58 Vic., ch. 4 (1894), a subsidy for a further distance of 15 miles was authorized, the limit being \$48,000.

A contract was entered into with the company on the 19th of November, 1894, covering the distance from Lyster Station to Lyster, $2\frac{1}{2}$ miles, and $12\frac{1}{2}$ miles from the end of the 15 miles built.

Up to the end of the fiscal year 1894-95, the sum of \$73,600 had been paid. There were no payments during the past fiscal year.

Montfort Colonization Railway Company.

(See Nos. 245, 310 and 373.)

This company was incorporated by the Quebec Act, 53 Vic., ch. 107 (1890), for the construction of a railway from a point on the Canadian Pacific Railway, or the Montreal and Occidental Railway, either from Lachute, St. Jérôme or St. Sauveur, or near the same, to Montfort, and for the continuation of the road to a point on the Rivière Rouge, in the township of Arundel.

By the Subsidy Act 55-56 Vic., ch. 5 (1892), the grant of a subsidy to this company to the extent of \$67,200 was authorized for 21 miles of railway from Lachute, St. Jérôme, or a point at or near St. Sauveur, on the line of the Montreal and Western Railway to Montfort.

By the Subsidy Act 55-56 Vic., (1893), this subsidy was revoted with an addition, specifying the gauge as "three feet."

On the 16th May, 1893, a contract was entered into with this company for the construction of 21 miles of railway from St. Sauveur to Montfort and westward, the road to be completed by the 1st of September, 1895.

By the Subsidy Act 57-58 Vic., ch. 4 (1894), a subsidy to the company was authorized to the extent of \$38,400 for 12 miles from the end of the 21 miles previously subsidized.

Up to the 30th June, 1895, the sum of \$67,200 had been paid. There have been no further payments during the past fiscal year.

Montreal and Champlain Junction Railway Company.

(See Annual Report for 1892-93.)

Montreal and Lake Maskinongé Railway Company.

(See Annual Report for 1890-91.)

Montreal and Sorel Railway Company.

(See Annual Report for 1892-93.)

Montreal and Western Railway Company.

(See Annual Report for 1893-94.)

Montreal and Ottawa Railway Company.

(Formerly the Vaudreuil and Prescott Railway Company.)

Name changed by 53 Vic., ch. 58.

(See Nos. 97, 186, 237 and 320.)

By the Railway Subsidy Act of 1887, 50-51 Vic., ch. 24, the grant of a subsidy to the above company was authorized for 30 miles of their railway from Vandreuil towards Hawkesbury, the extent of such subsidy being \$96,000.

A contract was made with the company on the 11th of February, 1889, for the distance named, starting from the Grand Trunk Railway at Vaudreuil. The date for completion was fixed as the 1st August, 1891.

The company, on the 4th October, 1890, were authorized to open the portion of their road between Vaudreuil and Rigaud, 16 miles, for public traffic.

By the Act 53 Vic., ch. 2 (1890), a subsidy for a further distance of 30 miles towards Ottawa, \$96,000, was authorized.

By the Act 54-55 Vic., ch. 8 (1891), the unpaid balance, \$46,040, of the subsidy granted in 1887, was revoted.

In September, 1892, after inspection, permission was given to open for traffic the portion of the road between Vaudreuil and Pointe Fortune, $23\frac{1}{2}$ miles.

By the Subsidy Act 57-58 Vic., ch. 4 (1894) the unpaid balances of subsidies granted in 1887 and 1890 were revoted, and a contract under this Act was made with the company dated the 26th June, 1896, the date for completion being fixed as the 1st of August, 1898.

No payments were made during the past fiscal year; the total payments up to the 30th of June, 1896, remaining, as last year, at \$73,600.

This railway has been leased in perpetuity to the Canadian Pacific Railway Company.

Napanee, Tamworth and Quebec Railway Company.

(Name changed to the Kingston, Napanee and Western Railway Company by the Act 53 Vic., ch. 62.

(See Nos. 13, 27, 57, 94, 107, 166, 256, and 273.)

In 1883 Parliament authorized a subsidy of \$89,600 to this company, covering their road from Napanee to Tamworth.

A contract, dated the 31st of December, 1883, was entered into with the company for this work, and upon completion, inspection, and approval of the road, the subsidy was all paid under Orders in Council, the last dated the 28th of July, 1884.

In the session of that year Parliament authorized the grant of a further subsidy, not exceeding \$3,200 a mile, or a total of \$70,406, for an extension of this company's xxxii

road from Tamworth to Bogart and Bridgewater. In 1885, however, in substitution for this subsidy, Parliament authorized the grant to the company of a subsidy of \$70,000 for a line "from Tamworth towards Bogart and Bridgewater, 16 miles." This, again, was cancelled by the Act 49 Vic., ch. 10 (1886), a subsidy of \$70,000 being granted to the company for 18 miles of their railway from Tamworth to Tweed.

By the Act 50-51 Vic., ch. 24 (1887), a further subsidy to this company, not exceeding \$12,800, was authorized for 4 miles of their road to Tweed.

Under date the 25th of July, 1888, an Order in Council authorized entry into contract, and approved the location plans from Tamworth to Tweed, 20 miles. The contract was signed on the 31st of July, 1888, covering both subsidies.

By the Act 52 Vic., ch. 3 (1889), the grant of a further subsidy to this company was authorized for 7 miles of their railway from Yarker to Harrowsmith, and also a grant to a company for 3 miles of railway from Harrowsmith to Sydenham, the total being \$32,000. Under date the 4th of September, 1889, the company were admitted to contract for 3 miles of railway, and under date the 26th of December, for the distance of 63 miles, from a point near Yarker to or near Harrowsmith.

By the Act 55-56 Vic., ch. 5 (1892), in lieu of the subsidy granted by the above Act for 3 miles, a subsidy not exceeding \$9,600 was granted for 3 miles from a point at or near Harrowsmith to a point at or near Sydenham. A contract was made with the company for this work on the 18th September, 1893.

By the Act 55-56 Vic., ch. 5 (1892), a subsidy not exceeding \$64,000 was granted to this company for 20 miles of their railway, being for branches to be built to certain iron deposits. A contract was made with the company for one of these branches (to Lake Sydenham) on the 11th of December, 1893, the distance being $1\frac{3750}{1000}$ miles. Under date the 30th of November, 1889, the company were allowed to open for traffic between Tamworth and Tweed, and between Yarker and Harrowsmith; and from Harrowsmith to Sydenham in November, 1893. During the past fiscal year no payments were made, the total payments up to the 30th of June, 1896, being \$208,732.80.

Nakusp and Slocan Railway Company.

(See Annual Report for 1894-95.)

New Brunswick and Prince Edward Island Railway Company.

(See Annual Report for 1888-89.)

New Glasgow Iron, Coal and Railway Company.

(See No. 268.)

By the Subsidy Act 55-56 Vic., ch. 5, the grant of assistance to the above company for 12½ miles of railway from Eureka Junction on the Intercolonial Railway, to a point at or near Sunnybrae, including a branch line to the charcoal iron furnace at Bridgeville, was authorized, the limit of aid being \$40,000.

Under date the 23rd of November, 1892, the company were admitted to contract for this work.

During the fiscal year \$1,440 was paid, making the total payments up to the 30th of June, 1896, \$39,840, covering the whole line subsidized.

Northern and Pacific Junction Railway Company.

(See Annual Report of 1890-91.)

Northern and Western Railway Company.

(See Annual Report of 1889-90.)

Also under head "Canada Eastern Railway," in present report.

Nova Scotia Central Railway Company.

(See Nos. 129, 135 and 307.)

By the Subsidy Act of 1887, 50-51 Vic., ch. 24, the Nova Scotia Central Railway Company were subsidized for 34 miles of their railway, to an extent not exceeding \$108,800. Under an Order in Council of the 16th of September, 1887, the company were admitted to contract on the 17th of October, 1887, the works to be executed being a line of railway from Lunenburg, on the east coast of Nova Scotia, westward to a point in the district of New Germany, together with a spur, about \(\frac{3}{4} \) mile long, to Bridgewater Railway wharf, the whole to be completed by the 31st of December, 1889.

By the Act 51 Vic., ch. 3 (1888), the grant of further subsidy, not exceeding \$147,200, was authorized for 46 miles of the company's railway, and under an Order in Council of the 9th of October, 1888, a contract, dated the 15th of October, 1888, was executed, covering a line of railway, $39\frac{1}{2}$ miles, starting from a point $33\frac{1}{2}$ miles from Lunenburg, and running to Middleton, on the Windsor and Annapolis Railway; the work to be completed by the 31st of December, 1890.

By the Subsidy Act 56 Vic., ch. 2 (1893), the unpaid balance, \$4,500, was revoted. Up to the close of the fiscal year 1891-92, the total payments to this company amounted to \$230,700, covering the distance from Lunenburg to Middleton and the spur to Bridgewater, a total of $73\frac{1}{2}$ miles. Authority for payment of the said balance of \$4,500 has been given by an Order in Council dated the 2nd of July, 1894, but no further payment has been made up to the 30th of June, 1896, pending decision on certain matters in litigation.

Nova Scotia Southern Railway Company.

(See Nos. 207 and 272.)

This company was incorporated by the Nova Scotia Act, 51 Vic., ch. 82, as the "Annapolis and Atlantic Railway Company." The name was changed as above by the Act 57 Vic., ch. 65.

By the Dominion Subsidy Act 55-56 Vic., ch. 5 (1892), a subsidy (taking the place of one previously granted), was authorized for 75 miles of railway from Sand Point, Shelburne Harbour, N.S., to Annapolis Royal, and to a point of junction with the Nova Scotia Central Railway, at or near New Germany, the subsidy limit being \$240,000.

The above company having applied for the subsidy, a contract, dated the 12th of January, 1894, has been entered into with them for the work of building a line from

Sand Point towards New Germany, and approval has been given by an Order in Council dated the 25th of August, 1894, to the location of the railway for the whole distance, 75 miles.

No payment has been made up to the 30th of June, 1896.

Ontario and Pacific Railway Company.

(See Nos. 31, 115, 150 and 288.)

By the Act 47 Vic., ch. 8 (1884), the grant of a subsidy to the Ontario and Pacific Railway Company was authorized, namely, to the extent of \$262,400, on an estimated distance of \$2 miles, for a line from Cornwall to Perth, and on the 27th of July, 1886, a contract was made with the company, under the authority of an Order in Council of the first day of that month, for the construction of such line, via Newington, Chrysler, Manotick and Franktown, the road to be completed by the 1st of July, 1888. This subsidy lapsed on the 1st of July, 1888.

By the Act 50-51 Vic., ch. 24, a further subsidy of \$19,200 for a further distance of 6 miles was granted.

By the Act 52 Vic., ch. 3 (1889), a subsidy not exceeding \$172,400 was authorized to this company for a line from Cornwall to Ottawa.

By the Subsidy Act of 1892, 55-56 Vic., ch. 5, the subsidy granted in 1889 was revoted, the length being set down as 53_{100}^{87} miles. Under date the 1st of June, 1895, a contract was entered into with the company for the construction of this line from Cornwall to Ottawa, 53.87 miles, the work to be completed by the 1st of August, 1896.

No payment has been made up to the 30th of June, 1896.

Ontario and Quebec Railway Company.

(See West Ontario Pacific Railway Company, and Annual Report for 1891-92.)

Ontario, Belmont and Northern Company.

(See No. 246 and 298.)

This company was incorporated by the Ontario Act, 54 Vic., ch. 90 (1891), for the construction of a railway from the Midland Railway of Canada at either Hastings or Campbellford to some point on the Central Ontario Railway within the township of Marmora, county of Hastings.

By the Subsidy Act 55-56 Vic., ch. 5 (1892), the grant of a subsidy to this company to the extent of \$32,000, was authorized for 10 miles of railway from the Belmont iron mines to the Canadian Pacific and the Central Ontario Railway.

On the 9th of March, 1893, a contract was entered into with the company for this work, namely, from the Belmont mines to the junction of the two railways named. This contract was superseded by one, dated the 23rd of April, 1896, under the subsidy granted by 56 Vic., ch. 2, 1893, for the same amount, but payable on two sections, from the Belmont iron mines to Marmora, and from Marmora to the Ontario Central Railway.

No portion of this subsidy has been paid up to the 30th June, 1896.

Orford Mountain Railway Company.

(See Annual Reports for 1893-94 and 1894-95.)

Ottawa, Arnprior and Parry Sound Railway Company.

(See Nos. 92, 134, 199, 242, 276 and 277.)

This company was formed by the amalgamation, under the Act 54-55 Vic., ch. 93, of the Ottawa and Parry Sound Railway Company, incorporated by the Act 51 Vic., ch. 35, and the Ottawa, Arnprior and Renfrew Railway Company, incorporated by the Act 51 Vic., ch. 71. The company has powers to build a line of railway from the city of Ottawa through Arnprior, Renfrew, Eganville and Killaloe, to a point on the Georgian Bay at or near the village of Parry Sound.

By the Subsidy Act 55-56 Vic., ch. 5 (1892), there were granted to this company the following subsidies (in lieu of subsidies previously granted but not utilized):—

- (a.) For 22 miles of railway from a point on the Canadian Pacific Railway to Eganville, a subsidy limited to \$70,400.
- (b.) For 30 miles of railway from Eganville to Barry's Bay, a subsidy limited to \$96,000.
- (c.) For 55 miles of railway from Barry's Bay towards the Northern Pacific Junction Railway, a subsidy limited to \$6,400 a mile on the first half of that division, and to \$3,200 a mile on the second half, not exceeding in the whole \$264,000.

The first two subsidies were covered by a contract dated the 29th of September, 1892; the starting point on the Canadian Pacific Railway being Renfrew, and the date for completion being fixed as the 1st of August, 1896.

The third subsidy, from Barry's Bay towards the Northern Pacific Junction Railway, was covered by a contract with the company dated the 8th of November, 1892, for which was substituted a contract dated the 20th of September, 1894.

The sections between Ottawa and Renfrew, were opened for traffic in September and December, 1893.

During the past fiscal year, payments have been made to the extent of \$80,000, making the total payments to the company \$430,400, the whole amount of the subsidies. The distance covered thereby is to the end of the 55th mile west from Barry's Bay, or a total of 107 miles west from Renfrew, the whole distance subsidized.

By the Act 60 Vic., ch. 8 (1896) the company became amalgamated, under its own name, with the Parry Sound Colonization Railway Company.

 Λ portion, the westerly $47\frac{3}{4}$ miles of the amalgamated company's railway to Parry Sound, is subsidized under the name of the Parry Sound Colonization Railway Company, which see.

Ottawa and Gatineau Valley Railway Company.

Name changed to the Ottawa and Gatineau Railway Company (by the Act 57-58, Vic. ch. 87, which consolidated and amended Acts relating to the Company).

(See Nos. 8, 26, 58, 151, 305 and 349).

By the Act 48-49 Vic., ch. 29 (1885), the grant of a subsidy to this company was authorized (in lieu of subsidies granted in previous years), namely, for a line of xxxvii

railway from Hull station towards the village of Le Désert, 62 miles, the amount being \$320,000. The subsidy having lapsed, it was revoted by the Act 52 Vic., ch. 3 (1889).

Under authority of an Order in Council of the 10th of July, 1889, a contract with the company for the work in question, 62 miles, was signed on the 19th of August.

By the Subsidy Act 56 Vic., ch. 2 (1883), the unpaid balance, \$89,248, was revoted.

By the Subsidy Act 57-58 Vic., ch. 6 (1894), authority was given for subsidizing to the extent of \$64,000, a further distance of 20 miles from the end of the 62 miles already subsidized, and a contract for the work was entered into with the company on the 7th of October, 1895.

The total payments up to the 30th of June, 1894, amounted to \$284,128. No further payments have been made up to the 30th of June, 1896.

Oshawa Railway and Navigation Company.

Name changed to the Oshawa Railway Company, by 54-55 Vic., ch. 91.

(See Nos. 112, 233 and 314.)

By the Act 50.51 Vic., ch. 24 (1887), the grant of a subsidy, to the extent of \$22,400, was authorized for seven miles of this company's railway, extending from Port Oshawa towards Raglan; they were admitted to contract on the 20th of July, 1889. This subsidy was renewed by the Act 54.55 Vic., ch. 8; and by the Act 56 Vic., ch. 2, 1893, it was revoted in such form as to admit of payment on completion of named sections. A contract for the work was entered into with the company on the 5th of August, 1895.

By the special Act 54-55 Vic., ch. 91, the corporate powers of the company were revived, and its name was changed as above.

During the past fiscal year the sum of \$22,400 has been paid.

Parry Sound Colonization Railway Company.

(See Nos. 153, 312, 342.)

By the Subsidy Act of 1889, 52 Vic., ch. 3, authority was given for the grant of a subsidy to this company, not exceeding \$128,000, for 40 miles of a railway from the village of Parry Sound to the village of Sundridge, or some other point on the line of the Northern and Pacific Junction Railway.

On the 21st of July, 1890, the company were admitted to contract accordingly, the line to run from the village of Parry Sound through the townships of Foley, Christie, Monteith, McMurrich and Parry, joining the line of the Northern and Pacific Railway at Scotia, or a point about two miles from Elmsdale station. The date for completion has been extended to the 1st of August, 1897. The location for 50 miles has been approved by Order in Council, covering the distance between the Northern Pacific Junction Railway and Parry Sound.

By the Act 56 Vic., ch. 2 (1893), the unpaid balance of subsidy, \$97,600, was revoted.

By the Act 57-58 Vic., ch. 4 (1894), the grant of a further subsidy, limited to \$64,000, was authorized, for 20 miles of this company's railway east from Parry Sound.

During the past fiscal year there was paid the sum of \$24,800, making the total payments up to the 30th of June, 1896, \$152,800, covering the distance, $47\frac{3}{4}$ miles, up to Parry Sound.

By the Act 60 Vic., ch. 8 (1896), the company became amalgamated with the Ottawa, Arnprior and Parry Sound Railway Company under the name of that company.

Philipsburg Junction Railway and Quarry Company.

(See Annual Report for 1894-95.)

Port Arthur, Duluth and Western Railway Company.

(Formerly the Thunder Bay Colonization Railway Company.)

(See Annual Report for 1892-93.)

Pontiac and Renfrew Railway Company.

(See Annual Report for 1889-90.)

Pontiac Pacific Junction Railway Company.

(See Nos. 25, 137, 211, 329, 330 and 331.)

This company was incorporated by the Dominion Act, 43 Vic., ch. 55 (1880), with powers to construct a railway from a point on the line of the Quebec, Montreal, Ottawa and Occidental Railway, at or near Hull or Aylmer, to a point in the county of Pontiac, suitable for crossing the River Ottawa, thence to Pembroke to connect with the Canada Central Railway.

The Act 45 Vic., ch. 69, gave authority for the construction of a bridge across the River Ottawa.

This line was subsidized by Parliament in 1884, by 49 Vic., ch. 8, to the extent of \$3,200 a mile, not exceeding \$272,000.

Under authority of an Order in Council, dated the 12th of December, 1884, a contract, dated the 22nd of that month, was made with this company for the building of the line subsidized, namely, from Aylmer, Quebec, to Pembroke, crossing the River Ottawa at a point "not east of Lapasse"; the first twenty-seven miles to be completed by the 1st of September, 1885, (extended to the 15th of December by Order in Council of the 13th of August, 1885), the second twenty-seven miles by the 1st of July, 1886, and the whole road, estimated at eighty-five miles west of Aylmer, by the 1st of July, 1887.

By the Act 51 Vic., ch. 3 (1888), a subsidy to this company of \$31,500 was authorized for the bridging of the River Ottawa at Culbute; also a subsidy of \$9,600 for 3 miles of their railway from a point 3 miles east of Pembroke to Pembroke, provided xxxix

that the entire work subsidized on this railway be completed within four years from the 22nd of May, 1888.

By the Act 53 Vic., ch. 2 (1890), a subsidy limited to \$24,000 was authorized for $7\frac{1}{2}$ miles of this railway, between Hull and Aylmer.

By the Act 53 Vic., ch. 68 (1890), the time for completion of the railway to the town of Pembroke, and of the bridge over the River Ottawa, at or near the city of Ottawa, which the company were empowered to construct by the Act 45 Vic., ch. 69, was extended to the 22nd of May, 1892. The same Act gave the company power to extend their line from the said bridge to the canal basin in the city of Ottawa.

The Act 53 Vic., ch. 69 (1890), gave to this company power to purchase from the Canadian Pacific Railway Company the section between Hull and Aylmer, or any part thereof.

By the Subsidy Act 55-56 Vic., ch. 5, clause 4 (1892), the balance unpaid of the subsidy voted in 1884 was revoted; and by the special Act of 1892, ch. 56, the time for the commencement of the bridge over the River Ottawa, at or near Ottawa, was extended for two years, and its completion for five years from the 9th of July, 1892. The time for the completion of the line to Pembroke was also extended for four years from that date.

By the Subsidy Act 57-58 Vic., ch. 4 (1894), the subsidies voted in 1888 were revoted, subject to the condition that the entire work subsidized on this railway should be completed within four years. The time for completion is thus extended, so far as subsidy is concerned, to the 23rd of July, 1898.

By the same Act the unpaid balance of the subsidy voted by ch. 8 of the Act of 1884, less \$24,000 for the 7½ miles from Hull to Aylmer, was revoted, namely \$73,172.

By the same Act the sum of \$24,000, voted for the road from Hull to Aylmer in 1890, was, in effect, revoted.

Up to the close of the fiscal year 1887-88, a total of \$174,828 had been paid out of the subsidy voted in 1884. During the fiscal year 1894-95 the sum of \$18,750 was paid, making a total of \$193,578. No payments were made during the past fiscal year.

Quebec Central Railway Company.

(See Nos. 22, 142, 219 and 321.)

This company was subsidized in 1884, to the extent of \$211,200, in aid of the construction of 66 miles of their railway from Beauce Junction to the International Boundary.

Under the authority of an Order in Council, dated the 2nd of August, 1884, a contract was made with the company on that date for the construction of a line from Beauce Junction on their trunk line, thence up the valley of the River Chaudière to the frontier, the line to be completed by the 2nd of February, 1888.

The location of the first 23 miles was approved of by an Order in Council of the 8th of May, 1885. The amount of the subsidy paid up to the end of the fiscal year 1885-86, under an Order in Council of the 14th of August, 1885, was \$60,342, covering 15½ miles of road inspected, starting from Beauce Junction.

In lieu of the balance of this subsidy, which lapsed on the 1st of July, 1888, authority was given by the Act 51 Vic., ch. 3 (1888), for the grant of a subsidy to this company of \$21,191.54 a year, for 20 years, equivalent to a cash grant of \$288,000, for a line of railway from St. Francis station to a point on the Atlantic and North-west Railway, near Moose River, 90 miles. No contract was made for this work.

By the Act 53 Vic., ch. 2 (1890), in lieu of the subsidy so granted, the company may receive the same amount for a similar term of years, or a guarantee of interest on bonds for a like sum, for 90 miles of their railway from St. Francis station on their line to a point on the Atlantic and North-western Railway near Moose River, or from a point on their line between the Chaudière River and Tring station to a point on the International Railway at or near Lake Megantic; the first annual payment to be made at the end of twelve months from the date of the certificate of completion. A contract was entered into for this subsidy on the 30th of June, 1892, the work to be completed by the 1st of July, 1894.

By the Subsidy Act 57-58 Vic., ch. 4 (1894), authority was given for the payment of the subsidy granted by the Act of 1890, as a cash subsidy, at the present value, \$288,000: payment to be made on completion, inspection and acceptance of the railway.

In September, 1895, a final inspection was made of the section of railway so subsidized, which is known as the Tring and Megantic Branch, extending from Tring Junction to a point of junction with the Canadian Pacific Railway at Lake Megantic, a distance of 59:36 miles, and such inspection showing the road to have been substantially built and according to contract, payment was made of the full amount of subsidy, \$288,000, under authority of an Order in Council dated the 16th of October, 1895. The total of the subsidies received by the company amounts to \$348,342.

Quebec and Lake St. John Railway Company.

(See Nos. 2, 14, 40, 82, 126, 140, 177, 220, 232, 300 and 347.)

By the Subsidy Act of 1882, a subsidy of \$384,000 was granted for a line from St. Raymond to Lake St. John. By the Act of 1883, the Quebec and Lake St. John Railway Company, engaged in the work of constructing the line, was permitted to receive a further subsidy of \$80,000. By the Act of 1885, a subsidy of \$96,000 was authorized for a line extending from the point of their junction with the North Shore Railway (4 miles from Quebec) up to St. Raymond (36 miles from Quebec), conditionally upon the construction of their line to a point 50 miles north of St. Raymond; and by the Act of 1886, a subsidy was authorized, not exceeding \$186,295, for the portion, 95 miles, extending from a point 50 miles north of St. Raymond, to Lake St. John.

By the Act 50-51 Vic., ch. 24 (1887), an additional subsidy, not exceeding \$28,800, was authorized for a distance of 9 miles, the distance which previous subsidies granted were short of covering from the city of Quebec to Lake St. John. By this Act authority was given for payment up to the 23rd of June, 1888 (under the usual conditions) of balances available from the subsidies granted in 1882 and 1883. The aggregate of the subsidies granted to this company for the whole distance from Quebec to Lake St. John was \$775,095, the number of miles subsidized being 186.

An agreement was duly entered into on the 4th of September, 1883, in respect of the two subsidies first named, under which this line was to be completed by the 25th of May, 1887, the portion up to Lake Edward to be completed by the 31st of December, 1885; and on the 10th of February, 1886, an agreement was signed covering the third subsidy, namely, that of 1885. For the subsidies granted in 1886 and 1887, no further contracts were required, these subsidies being applicable to works embraced in the previous contracts.

By the Act 51 Vic., ch. 3, a subsidy to the extent of \$96,000, previously granted to the Saguenay and Lake St. John Railway Company, for 30 miles of their railway from Lake St. John towards Chicoutimi, was transferred to this company, and under authority of an Order in Council of the 17th of November, 1888, a contract was made with them on the 5th of December for this work, which starts from Chambord Junction near Lake St. John, on the main line; the work to be completed by the 1st of August, 1890.

By the Act 52 Vic., ch. 3 (1889), a further subsidy of \$64,000 was granted for an additional 20 miles, making the total subsidy for this branch \$160,000. Under date the 17th of October, 1892, a contract was entered with the company for this work.

By the Act 53 Vic., ch. 2 (1890), a subsidy to this company to an extent not exceeding \$30,000 was authorized for a railway bridge over the River St. Charles; also a subsidy limited to \$38,400, for 12 miles of railway from Lorette via Charlesbourg to Quebec. Under date the 2nd of December, 1890, both these subsidies were covered by one contract, the work to be completed by the 1st of October, 1891.

By the Act 54-55 Vic., ch. 8, there was expressly voted the difference, \$5,250, between the \$30,000 mentioned in the above subsidy for the St. Charles bridge and the amount actually paid the company.

By the Act 55-56 Vic., ch. 5, clause 5 (1892), authority was given for the payment of the unpaid balance of the subsidy granted in 1889, and also for the payment of the unpaid balance, \$12,800, of the subsidy granted in 1887. This last, representing 4 miles of railway built towards Roberval, was covered by a contract made on the 17th of October, 1892.

By the Subsidy Act 56 Vic., ch. 2 (1893), the unpaid balance, \$81,040, of the subsidy granted by 51 Vic., ch. 3, was revoted.

By the Subsidy Act 57-58 Vic., ch. 4 (1894), a subsidy was voted to this company for 2 miles of their Chicoutimi branch to deep water at Chicoutimi, also for a further distance of 12 miles from the 52nd mile of that branch to Ha! Ha! Bay, in all \$44,800. A contract was made with the company for the 2 miles extension on the 13th of July, 1895.

During the past fiscal year the sum of \$3,744 was paid. The total payments to the company up to 30th June, 1896, amount to \$1,006,743.50, covering the main line, the 1.17 mile to deep water at Chicoutimi, and 50 miles of the Chicoutimi Branch.

Quebec, Montmorency and Charlevoix Bailway Company.

(See Annual Report of 1894-95.)

Shuswap and Okanagan Railway Company.

(See Annual Report of 1894-95.)

South Norfolk Railway Company.

(See Annual Report of 1888-89.)

South Shore Railway Company.

(See No. 365.)

This company, incorporated by chap. 130 of the Statutes of Nova Scotia of 1892, received a Dominion charter by the Act 58-59 Vic., ch. 64 (1895), with powers to construct a line of railway from a point near the harbour of Yarmouth, N.S., passing through the counties of Yarmouth, Shelburne, Queen's, Lunenburg and Halifax to a point in or near the city of Halifax; also a branch line to Lockeport and Caledonia.

By the Subsidy Act 57-58 Vic., ch. 4 (1894), the grant of a subsidy to this company of \$3,200 a mile, limited to \$112,000, was authorized for 35 miles of railway from Yarmouth towards Shelburne and Lockeport.

Under date the 28th February, 1895, a contract was entered into with the company for the work so subsidized, the time for completion being fixed as the 1st of August, 1897. The location plans for the whole distance have been approved by an Order in Council dated the 14th of February, 1895.

No portion of the subsidy has been paid up to the 30th June, 1896.

St. Catharines and Niagara Central Railway Company,

(See Nos. 96, 176, 190, 265 and 319.)

By the Act 50-51 Vic., ch. 24 (1887), the grant of a subsidy to the extent of \$38,400 to the above company was authorized for 12 miles of their railway from St. Catharines to the bridge over the river Niagara.

The company were admitted to contract on the 5th March, 1888, under an Order in Council of the 12th of April, the location being approved by an Order of the same date.

On the 20th December, 1888, the road having been built and inspected, the company were permitted to open it for traffic. The sum of \$26,640 was paid to the company in the fiscal year 1888-89.

By the Act 52 Vic., ch. 3 (1889), a subsidy for 20 miles of this road was authorized, limited to \$64,000, and on the 1st of August, 1890, the contract was signed, the extension being from their present terminus at St. Catharines towards Hamilton.

By the Act 53 Vic., ch. 7 (1890), a subsidy, limited to \$44,800, was authorized for a distance of 14 miles.

By the Act 50-51 Vic., ch. 5 (1892) in lieu of the subsidies granted in 1889 and 1890, there was granted an annual subsidy for 20 years, calculated on the basis of $3\frac{1}{2}$ per cent of the amount, not to exceed \$108,000, granted for the 34 miles in question; payment of the first half-yearly instalment to be made 6 months after the date of the Chief Engineer's certificate of completion.

By the Subsidy Act 57-58 Vic., ch. 4 (1894), the grant of a subsidy to this company for 34 miles of their railway from St. Catharines to Hamilton was authorized, the amount not to exceed \$108,800.

During the fiscal year 1890-91, the sum of \$11,760 was paid, covering the distance, 12 miles, between St. Catharines and Niagara River, making a total of \$38,400 paid to this company. No further payments have been made up to the 30th of June, 1896.

St. Clair Frontier Tunnel Company.

(See Annual Reports of 1890-91 and 1891-92.)

St. John Valley and Rivière du Loup Railway Company.

(See Annual Report of 1893-94.)

St. Stephen and Milltown Railway Company.

(See Nos. 202 and 303.)

This company was incorporated by an Act of the Legislature of New Brunswick, 49 Vic., ch. 17 (1886), with power to construct a railway from Milltown to a point on the New Brunswick (now Canadian Pacific) Railway or the Grand Southern (now Shore Line) Railway.

By the Dominion Subsidy Act 56 Vic., ch. 2 (1893) in lieu of a previous subsidy, the grant was authorized of assistance to the company to the limit of \$11,200 for $3\frac{1}{2}$ miles of railway from St. Stephen to Milltown, and the company were admitted to contract for the work on the 5th of August, 1895.

During the past fiscal year the sum of \$9,635.89 has been paid.

Stewiacke Valley and Lansdowne Railway Company.

(See Nos. 87, 232, 254 and 258.)

By the Act 49 Vic., ch. 18 (1886), a subsidy was authorized for a railway from a point on the Intercolonial Railway through the Stewiacke Valley, affording communication with the Iron Mines, Spring Side, Upper Stewiacke and Musquodoboit settlements, 25 miles, the extent of aid not exceeding \$80,000. The Stewiacke Valley and Lansdowne Railway Company having applied for this subsidy, a contract was made with them on the 17th of December, 1886, the line to be completed by the 1st of December, 1889.

By the Act 53 Vic., ch. 2 (1890), the above subsidy was, in effect, revoted, and the old contract having been cancelled, a new contract with this company was entered into on the 30th of August, 1890. Completion was called for by the 1st of September, 1892.

By the Act 55-56 Vic., ch. 5 (1892), the same subsidy was, in effect, revoted.

By the Act 52 Vic., ch. 3 (1889), a subsidy was granted for a railway from Truro or a point between Truro and Stewiacke to Newport or Windsor, 49 miles, the limit being \$156,800. A contract was made with this company on the 30th of August, 1890, for the work; the line to run from Brockville station, on the Intercolonial, to Newport station, on the Windsor Branch Railway; the line to be completed by the first of September, 1893.

By the Act 55-56 Vic., ch. 5 (1892), this subsidy was, in effect, revoted.

The location plans have been approved for this distance.

No portion of any of the above subsidies has been paid up to the 30th of June, 1896.

St. Lawrence and Adirondack Railway Company.

(See Annual Report for 1893-94.

St. Lawrence, Lower Laurentian and Saguenay Railway Company.

(Name changed to "The Laurentian Railway Company" by Provincial Act 51-52 Vic., ch. 108.

(See Annual Report for 1891-92.)

St. Louis and Richibucto Railway Company.

(See Annual Report of 1884-85.)

Témiscouata Railway Company-Rivière du Loup to Edmundston.

(See Annual Report for 1892-93.)

Thousand Islands Railway Company.

(See Nos 182 and 269.)

By the Subsidy Act 52 Vic., ch. 3 (1889), the grant of a subsidy to the extent of \$54,400 to the above company, for 4 miles of their railway from a point near the River St. Lawrence, in the village of Gananoque Junction, on the Grand Trunk Railway, and for 13 miles of their railway from Gananoque Junction to a point of junction with the Brockville, Westport and Sault Ste. Marie Railway, was authorized.

A contract was made with the company for this work on the 24th of October, 1889, the 4-mile section to be built by the 1st of July, 1890, and the 13-mile section by the 1st of August, 1893. In the fiscal year 1889-90, the sum of \$10,400 was paid for the section, 3½ miles, from Gananoque to the Grand Trunk Railway, completed.

By the Act 55-56 Vic., ch. 5 (1892), in lieu of the unpaid balance, \$44,000, of the above subsidy, there were granted railway subsidies for the extension of the railway, one, the northern, to connect with the Brockville, Westport and Sault Ste. Marie Railway, the Kingston, Napanee and Western Railway, the Kingston, Smith's Falls and Ottawa Railway, or the waters of the Rideau Canal, for which the limit is \$30,000; the other, the southern, and across the mouth of Gananoque River, for which the limit is \$14,000.

Under date the 30th of November, 1892, a contract was entered into with the company for this work; the date for completion being fixed as the 1st of August, 1896.

During the fiscal year 1893-94 the sum of \$14,000 was paid. No further payment has been made. The total paid up to the 30th of June, 1896, is \$24,400.

Tilsonburg, Lake Erie and Pacific Railway Company.

(See Nos. 280 and 317.)

This company was incorporated by the Dominion Act 53 Vic., ch. 56 (1890) with powers to build a railway from a point on Lake Erie in or near the village of Port Burwell through Tilsonburg to the Canadian Pacific Railway at or near Woodstock.

By the Subsidy Act 57-58 Vic., ch. 4 (1894) authority was given for the grant of a subsidy to this company, limited to \$51,200, for 16 miles of railway from Port Burwell to Tilsonburg (in lieu of a subsidy granted in 1892) and under date the 16th of July, 1895, the company were admitted to contract for this work.

During the past fiscal year the whole amount of this subsidy, \$51,200, has been paid, the road being completed.

Tobique Valley Railway Company.

(See Annual Report for 1893-94.)

Toronto, Grey and Bruce Railway Company.

(See Annual Report for 1887-88.)

United Counties Railway Company.

(See Nos. 297 and 344.)

This company was incorporated by the Quebec Act 46 Vic., ch. 90 (1883), for the construction of a railway from a point on the line of the Montreal, Portland, and Boston Railway, at Richelieu, to a point on the River Richelieu and the River St. Lawrence.

By the Subsidy Act 56 Vic., ch. 2 (1893), a subsidy to the extent of \$102,400 for 32 miles between Iberville and St. Hyacinthe, and beyond towards Sorel, was authorized.

On the 19th of August, 1893, a contract was entered into with the company for this work.

By the Subsidy Act 57-58 Vic., ch. 4 (1894), a subsidy, limited to \$102,400, was authorized for a further distance of 32 miles, and on the 23rd of October, 1894, a contract was made with the company for the work, covering the whole distance from St. Hyacinthe to Sorel.

During the past fiscal year, the sum of \$52,926.85 was paid, making the total payments \$184,628.

Vaudreuil and Prescott Railway Company.

(See Montreal and Ottawa Railway Company.)

Waterloo Junction Railway Company,

(See Annual Report for 1891-92.)

Western Counties Railway Company.

(Name changed to "The Yarmouth and Annapolis Railway Company" by 56 Vic., ch. 63.)
(Name further changed to "The Dominion Atlantic Railway Company" by 57-58 Vic., ch. 69.)

(See Annual Report for 1894-95.)

West Outario Pacific Railway Company.

(Leased to the Ontario and Quebec Railway Company-C. P. R.)

(See Annual Report of 1890-91.)

Woodstock and Centreville Railway Company.

(See Nos. 131, 203, 266, 281 and 335.)

By the Act 50-51 Vic., ch. 24 (1887), the grant of a subsidy to the extent of \$64,000 was authorized for a railway from Woodstock towards Centreville, 20 miles.

The above railway company having applied and being approved, a contract was made with them on the 6th of May, 1889, for the distance named; the line to start from Upper Woodstock station, on the New Brunswick Railway; the work to be completed by the 1st October, 1890, the date being subsequently extended to the 1st of October, 1893.

By the Act 53 Vic., ch. 2 (1890), a subsidy, limited to \$19,200, was authorized for a further distance of 6 miles to the International Boundary.

By the Act 55-56 Vic., ch. 5 (1892), the subsidy granted in 1887 was, in effect, revoted.

By the same Act, the subsidy granted in 1890, for the further distance to the boundary was in effect revoted.

A contract, dated the 16th of September, 1892, was made with the company, to construct the 26 miles so subsidized, the date for completion being fixed as the 1st January, 1894.

By the Subsidy Act 57-58 Vic., ch. 4 (1894), the two subsidies granted in 1887 and 1890 were revoted, namely, for 26 miles of railway from Woodstock to the International Boundary, \$83,200.

By an Order in Council of the 24th of July, 1894, the contract time was extended to the 1st of August, 1896.

No portion of the subsidy has been paid up to the 30th of June, 1896.

Yarmouth and Annapolis Railway Company.

(See Western Counties Railway Company.)

LAND SUBSIDIES.

The following companies have been aided by subsidies in land, duly authorized by Parliament and granted by the Department of the Interior:—

They are enumerated here because the engineering details have been dealt with by this department, the certificate of whose officer is required prior to handing over to the company concerned any part of the subsidy. (The numbers given refer to the special "Land subsidies" list. See Appendix part III., p. 48.)

Alberta and Athabasca Railway Company.

(Name changed by 52 Vic., ch. 65, to the North-west Railway Company of Canada," which see.)

Alberta Railway and Coal Company.

(See Annual Report for 1892-93.)

(See also "North-western Coal and Navigation Company," in Annual Report of 1891-92.)

Brandon and South-western Railway Company.

(See No. 19, Land subsidies.)

By an Order in Council, dated the 23rd of November, 1889, but subject to the approval of Parliament and contingent on their obtaining an Act of incorporation from the Dominion, this company has been granted a subsidy of 6,400 acres per mile in aid of a railway from a point in Township I, in either Range 23 or 24, west of the 1st Principal Meridian, to Deloraine, Manitoba, about 17 miles. The subsidy was confirmed by the Act 53 Vic., ch. 4. The company was incorporated under a provincial Act, but received a Dominion charter by the Act 53 Vic., ch. 86 (1890). Under the said Order in Council, the subsidized section was to be completed and running by the 1st of May, 1891. Location plans and profiles have been approved by an Order in Council, dated the 19th of February, 1892, showing the proposed line from a point of junction with the Souris Branch of the Canadian Pacific Railway to the Turtle Mountain coal fields. A revised location was approved by an Order in Council of the 3rd of October, 1894.

By the special Act 57-58 Vic., ch. 65, the company's charter was revived.

By the Land Subsidies Act 57-58 Vic., ch. 6 (1894), the subsidy authorized in 1890 was revoted.

Calgary and Edmonton Railway Company.

(See Annual Report for 1892-93.)

Canadian Pacific Railway Company.

(See Annual Report for 1892-93.)

Great North-west Central Railway Company.

(See No. 7, Land Subsidies.)

The construction of a line of railway to extend from Brandon on the Canadian Pacific Railway, to Battleford, in the provisional district of Saskatchewan, a distance of about 450 miles, was contemplated by the North-west Central Railway Company (formerly the Souris and Rocky Mountain Railway Company); and under an Order in Council of the 29th of July, 1885, the privilege of purchasing land at the rate of \$1.06 per acre, to the extent of 6,400 acres per mile, previously accorded, was converted into a free grant of such land (subject to a charge of 10 cents per acre for survey), the grant being contingent on the due completion of the work in stated sections.

This concession did not result in the construction of any section of the road; and difficulties arising, and other applications being put forward for the work, the Act 49 Vic., ch. 11 (1886), granting aid to the extent of 6,400 acres per mile for the same, was made applicable either to the company named or to such other company as might undertake the construction of the road. The Great North-west Central Railway Company was incorporated by an Order in Council of the 22nd of July, 1889, in conformity with the provisions of the Act; a second Order, of the 3rd of August amending such charter, and the whole being confirmed and ratified by the Act 51 Vic., ch. 85 (1888). A section of such charter giving running powers to the Canadian Pacific Railway was repealed by 52 Vic., ch. 67 (1889).

By an Order in Council, also of the 22nd July, 1886, the subsidy referred to was granted to this company, the contract itself being signed on the 12th of September, 1887. Under successive Orders in Council the time for completion has been extended.

On the 3rd of September, 1890, an Order in Council was passed accepting as completed the first 50-mile section.

By an Order in Council, dated the 7th of December, 1891, extension of time was accorded—subject to the condition that the first 50 miles should be effectively operated and maintained on and after the 15th of that month, as follows:—100 miles from the end of the first 50 miles by the 30th November, 1892, and 300 miles further (or whatever distance may be required to complete the road to Battleford) by the 30th of November, 1893.

The company reported the first 50 miles as having been opened for traffic on the 16th of December, 1891.

On the 20th of June, 1892, an Order in Council was passed approving of the proposed location for the second 50-mile section.

By the special Act 58-59 Vic., ch. 48 (1894), the charter time for completing this railway to the Rocky Mountains was extended to the 22nd of May, 1902, provided that before the end of 1897, and each year thereafter, not less than 20 miles be completed. The land subsidy has elapsed.

Lac Seul Railway Company.

(See Annual Report of 1891-92.)

Lake Manitoba Railway and Canal Company.

(See Land Subsidies Nos. 16 and 23.)

This company was originally incorporated by the Dominior. Act 52 Vic., ch. 57 (1889). It was reincorporated in 1892 by the Act 55-56 Vic., ch. 41. By this Act powers were given for building a standard gauge railway from Portage la Prairie to the southerly boundary of Lake Manitoba; also from some point on the said line, or from a point on the line of the Manitoba and North-western Railway at or near Gladstone, running west of Lake Dauphin to Lake Winnipegosis at or near Meadow Portage.

This Act was revived by the Act 58-59 Vic., ch. 52, (1895), and additional powers of construction were given allowing the company to begin their line from Arden on the line of the Manitoba and North-western Railway and to extend to Lake Dauphin, and thence to a point not more than 100 miles from Gladstone or Arden. The time for completion was fixed as the 22nd of July, 1900.

Authority having been given by the Land Subsidy Act of 1890, 53 Vic., ch. 4, for the grant to the company of land to the extent of 6,400 acres a mile for a line of railway from Portage la Prairie to Lake Winnipegosis, at or near Meadow Portage, about 125 miles, an Order in Council of the 22nd of July, 1891, granted this aid accordingly. By a further order of the 6th of June, 1892, the lands so reserved were defined by maps. A subsequent order of the 1st of February, 1896, citing the company's special Act of 1895, above mentioned, made the provisions of the Land Subsidy order of the 6th of June, 1892, applicable thereunder.

Under the authority of an Order in Council of the 1st of February, 1896, and in pursuance of the Act 58-59 Vic., ch. 8—providing for the division of the transport subvention originally granted to the Winnipeg and Hudson Bay Railway Company—a transport agreement has been entered into on the 5th of February, 1896, with the Lake Manitoba Building and Land Company for the term of 20 years at \$40,000 a year. The portion of railway covered being that between Portage la Prairie or Gladstone near a point half way to the River Saskatchewan, which the company bind themselves to complete by the 1st of February, 1898.

Manitoba and North-western Railway Company.

(See Land subsidies Nos. 4 and 6, and also Money subsidies No. 358.)

This company was incorporated by the Provincial Act 43 Vic., ch. 35 (1880), under the name of the Westburne and North-western Railway Company, and received a Dominion charter by the Act 45 Vic., ch. 80 (1882). In 1883 its name was changed to the Manitoba and North-western Railway Company. Various Acts followed in subsequent years, defining and extending the company's powers.

In 1893, however, these were all repealed, being consolidated in an Act 56 Vic., ch. 52. This Act gave specific powers for the construction of (a) an extension of the main line from the terminus at Yorkton, to, or near to, Prince Albert: (b) an extension of the Shell River Branch to the northern or western boundary of the province, and other branches from the main line. The company was required to construct not less than 20 miles a year, but by a subsequent Act, chap. 79, of 1894, nine years have been allowed for the completion of the extension authorized, such portion, not exceeding 20 miles a year, to be built each year as may be prescribed by the Governor in Council.

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By the Act 48-49 Vic., ch. 60, authority was given for the grant of aid for a line from Portage la Prairie to the crossing of the south branch of the River Saskatchewan, 20 miles from Prince Albert, about 430 miles, 6,400 acres per mile.

Such grant was made to the company by Order in Council of the 4th October, 1884, cancelling previous Orders. The time for completion was fixed by Order in Council of the 6th of May, 1885, as at a rate of 50 miles a year.

By the 1st of December, 1885, the company had built and equipped 131 miles of road.

By the Act 49 Vic., ch. 11 (1886), authority was given for the grant of aid for a branch of this railway from a point on the main line at or near Todburn to the River Assiniboine, near Shellmouth, about 25 miles, 6,400 acres per mile.

This grant was made to the company by Order in Council of the 24th of May, 1886. Under Orders in Council of the 10th and 21st of September, 1886, the line was permitted to start from Binscarth, the Order first named approving the location to Russell, up to which point the road has been built. This branch, 11½ miles long, is in operation.

By the Subsidy Act of 1894, 57-58 Vic., ch. 4, the grant of a subsidy to this company, limited to \$320,000, was authorized for the construction of 100 miles of an extension of the main line towards Prince Albert, the company relinquishing 3,200 acres per mile of their land grant.

The main line is in operation from Portage la Prair e to Yorkton, 223 miles.

Manitoba and South-eastern Railway Company.

(See Annual Report for 1893-94.)

Manitoba South-western Colonization Railway Company.

(Leased to the Canadian Pacific Railway Company.)

(See Annual Report for 1890-91.)

Medicine Hat Railway and Coal Company.

(See No. 12, Land subsidies.)

By the Act 50-51 Vic., ch. 23 (1887), authority was given for the grant to the above company of Dominion lands to the extent of 6,400 acres per mile, for a railway from a point at or near Medicine Hat, on the line of the Canadian Pacific Railway, to the coal fields in or near Townships Nos. 12 and 13, Range 6, west of the 4th Principal Meridian, a distance of about 8 miles.

By an Order in Council of the 6th of July, 1887, the grant was made to the company accordingly, it being provided that the road should be completed and in operation by the 31st of December, 1888.

By an Order in Council of the 24th of January, 1889, approval was given to a draft of a formal contract with the company, and an extension of time to the 2nd of June, 1890, was granted for completion of the road. A contract was signed on the 14th of February, 1890, for this work.

By the special Act 54-55 Vic., ch. 79 (1891), the charter of the company was revived and its powers were extended, and by the special Act 57-58 Vic., ch. 80, the time limit for completion was further extended to the 1st of January, 1898.

The land subsidy has lapsed.

North-western Coal and Navigation Company.

(Purchased by the Alberta Railway and Coal Company.)

(See Annual Report for 1891-92.)

North-western Railway Company of Canada.

(Formerly the Alberta and Athabasca Railway Company.)

(See Annual Report for 1891-92.)

Qu'Appelle, Long Lake and Saskatchewan Railroad and Steamboat Company.

(Leased to the Canadian Pacific Railway Company.)

(See Annual Report for 1891.)

Red Deer Valley Rallway and Coal Company.

(See Nos. 14 and 26, Land subsidies).

This company was incorporated by the Act 52 Vic., ch. 52 for the construction of a railway from a point near Calgary, N.W.T., to a point on the Red Deer River, in Township 32, Range 21, west of the 4th Principal Meridian, the route being defined; also from a point at or near Cheadle station, on the Canadian Pacific Railway northerly to a point of junction with the line from Calgary, in or near Township 26, Range 25, west of the 4th Principal Meridian, with other branches indicated.

On the 28th of November, 1888, an Order in Council authorized the grant, subject to approval by Parliament, of a subsidy in land to the extent of 6,400 acres per mile for the line from Cheadle station to a point in or near Township 29, Range 23, west of the 4th Meridian, a distance of about 55 miles. This was confirmed by the Land Subsidy Act, 52 Vic., ch. 4 (1889).

By the Act 54-55 Vic., ch. 9, the above subsidy was cancelled, and in lieu thereof there was granted a subsidy, not exceeding 6,400 acres per mile, for the company's railway from Calgary to a point in or near Township 29, Range 23, west of the 4th Meridian, a distance of about 55 miles.

On the 17th of June, 1893, a contract was entered into with the company for the lines so subsidized, the work to be completed by the 1st of November, 1894.

By an Order in Council of the 28th February, 1894, the time for completion was extended to the 1st of November, 1895.

The land subsidy has lapsed.

Winnipeg and Hudson Bay Railway and Steamship Company.

Name changed to Winnipeg Great Northern Railway Company by the Act 57-58 Vic., ch. 94 (1894).]

(See No. 1, Land subsidies, and Special Act, 54-55 Vic., ch. 81.)

By 47 Vic., ch. 25, clause 7 (1884), authority was given for the grant of aid for a line from some point on the Canadian Pacific Railway to Hudson Bay, viz., for each mile in Manitoba, 6,400 acres, and in the North-west Territories, 12,800 acres.

In the year 1880, by Act 43 Vic., ch. 59, there was incorporated the "Winnipeg and Hudson's Bay Railway and Steamship Company," with powers for the construction of a line from Winnipeg to or near Port Nelson, Hudson's Bay.

In 1884 this Act was amended (by chapter 70), and the company were authorized to commence their line either from Winnipeg or from some point between Selkirk and Portage la Prairie, extending to Port Nelson and Churchill, or some other point on Hudson's Bay; also to construct a branch from any point on their main line to the Canadian Pacific Railway, west of Lake Winnipegosis, construction to be carried on at the rate of at least 50 miles a year.

By the same Act, a previous Act authorizing the amalgamation of this company with the Nelson Valley Railway and Transportation Company was repealed, and authorization was given for the winding up of the company last named, and the transfer to the Winnipeg and Hudson's Bay Company of all its property and interests.

By an Act passed in 1886 (49 Vic., ch. 73), the date for completion was fixed as the 2nd of June, 1890.

By an Order in Council of the 11th of May, 1885, all previous Orders in this connection were cancelled, and there was granted to the Winnipeg and Hudson's Bay Railway and Steamship Company a subsidy in land, as follows:—

	Acres.
Division A.—From the Canadian Pacific Railway to the northern boundary of Manitoba—estimated distance, 225 miles	1,440,000
Division B.—From the boundary to the terminus near the mouth	
of the Nelson River, Hudson's Bay—estimated distance, 425	
miles	5,440,000
Division C.—The Branch, from a point on the main line, near the northern extremity of Lake Winnipeg, to intersection with the Manitoba and North-western Railway—estimated distance not to exceed 250 miles (grant to be subject to approval by	
Parliament)	1,600,000

The time for completion was fixed by this Order as 50 miles on division A or B by the 19th of April, 1887, and 50 miles a year thereafter until completion of main line; but if the main line was not completed by the 11th of May, 1890, they were to forfeit their right to a grant for their branch line, which must itself be completed by the 11th May, 1893.

In April, 1888, the Chief Engineer of Government Railways reported, showing that 40 miles of road were completed, with the exception of certain station buildings, &c.

By an Order in Council dated the 16th of September, 1891, the dates for the completion of the company's road have been extended as follows:-

From the end of the 40 miles already built to a point on the south shore of the River Saskatchewan, near the western end of Cedar Lake, or between Cedar Lake and Grand Rapids, a distance of about 250 miles, by the 21st of June, 1894 (the limit allowed by their charter as amended by 53 Vic., ch. 80). This Order in Council approved of the draft of a definite agreement to be made with the company for the work, and the agreement was duly signed on the 18th of September, 1891.

By the special Act 54-55 Vic., ch. 81, the entry into a contract with this company was authorized for the conveyance of men, supplies, materials and mails over the portion of this line between Winnipeg and the River Saskatchewan for an annual payment of \$80,000 a year for 20 years. Under authority of an Order in Council, an agreement was made with the company, accordingly, on the 18th of September, 1891.

Under date the 8th of November, 1893, an Order in Council was passed extending the time for the completion of the main line to the River Saskatchewan to the 21st of December, 1896.

By the special Act 57-58 Vic., ch. 24 (1894), the name of the company was changed, as above, and an extension of time to the 31st of December, 1896, was granted for the completion of the main line to the River Saskatchewan. By the special Act 59 Vic., ch. 40 (1896) the time for completion has been extended to the 31st of December, 1898.

By the special Act 58-59 Vic., ch. 8, the transport subsidy Act, 54-55 Vic., ch. 81, was amended to such effect as to enable one-half of the annual subsidy to be paid on completion of one-half of the railway between Winnipeg and the River Saskatchewan, and the balance on completion of the remainder; amendment of the transport contract of the 18th of September, 1891, accordingly, being authorized. Failing this action, the Governor in Council was authorized to transfer the said one-half of the subsidy to some other company. The transfer has now been carried out, in favour of the Lake Manitoba Railway and Canal Company (which see) who will build up to the half way point between Gladstone or Portage la Prairie and the River Saskatchewan.

By an Order in Council of the 1st of February, 1896, the transport agreement of the 18th of September, 1891, was cancelled accordingly, and under authority of an Order in Council dated the 7th of May, 1896, a new transport agreement was entered into with the company, dated the 12th of that month, to apply to a railway to be built from Lake Dauphin (or a point half way from Portage la Prairie or Gladstone) to the River Saskatchewan: the Government subvention to be \$40,000 a year for 20 years; the railway to be completed by the 31st of December, 1898.

By the same Order in Council of the 7th of May, 1896, the time for completion fixed by the company's land subsidy contract of the 18th of September, 1891, has also been extended to the 31st of December, 1898.

Wood Mountain and Qu'Appelle Railway Company.

(See No. 8, Land subsidies.)

By the Act 40 Vic., ch. 11 (1886), the grant of aid was authorized for a railway from a point in Township 4, Runge 30, west of the 2nd Meridian, passing through Fort

Qu'Appelle, to the Manitoba and North-western Railway, about 240 miles, 6,500 acres per mile.

A grant was made to the company by Order in Council of the 24th May, 1886, for the portion between Fort Qu'Appelle and the Canadian Pacific Railway: to be completed by the 1st November, 1887, and 50 miles a year thereafter.

This Order was amended by an Order of the 7th of July, 1887, the company being allowed one year from the 1st of January, 1887, for the completion of the first 50-mile section (after completion by the 1st of November, 1887, of the portion between the Canadian Pacific and Fort Qu'Appelle), the rate of construction to be 50 miles each year, subsequently, until completion of the road.

By a further amending Order in Council of the 22nd of November, 1887, the company was granted an extension of time for the completion of the portion between Fort Qu'Appelle and the Canadian Pacific Railway, namely, up to the 31st of July, 1888; 100 miles of the road to be completed and in operation by the 31st of December, 1888, as required by the preceding order.

By the special Act, 52 Vic., ch. 66 (1889), the section of a previous Act giving this company power to construct a railway on the route above indicated was repealed, and they were empowered to construct a line from a point on the International Boundary line, at or near Range 16, west of the 2nd Principal Meridian, in a northerly direction by Qu'Appelle station to Fort Qu'Appelle, thence in a north-easterly direction to a point at or near the North-west corner of Lake Winnipegosis; the portion between the point of intersection with the Canadian Pacific Railway and Fort Qu'Appelle to be completed by the 1st August, 1890, and the whole road by the 16th of April, 1896.

By the Land Subsidy Act of 1889, 52 Vic., ch. 4, the subsidy provided by the Act 49 Vic., ch 11, was made available for this new line.

By the Act 53 Vic., ch. 83 (1890) the statutory time for the construction of the portion of this railway between the Canadian Pacific Railway at Fort Qu'Appelle was extended to the 1st of August, 1892—the balance of the road to be completed at the rate of 50 miles a year thereafter.

This Act was repealed by the Act 55-56 Vic., ch. 63 (1892), and the time for the completion of the railway between the point of intersection with the Canadian Pacific Railway and Fort Qu'Appelle was extended to the 30th of October, 1894, the railway to be completed at the rate of 20 miles each year thereafter.

Powers were given to convey or lease the road to the Canadian Pacific Railway Company, the Manitoba and North-western Railway Company, the Great North-west Central Railway Company, or the Winnipeg and the Hudson Bay Railway Company.

By the special Act of 1894, 57-58 Vic., ch. 96, the time for completion of the section of railway between the Canadian Pacific Railway and Fort Qu'Appelle was extended to the 30th of October, 1896. The remainder of the road was to be completed at the rate of 20 miles a year thereafter.

The land subsidy has lapsed.

CANALS.

The canal systems of the Dominion, under Government control, in connection with akes and navigable rivers, are as follows:—

- 1. The River St. Lawrence.
- 2. The Welland Canal.
- 3. The Sault Ste. Marie Canal.
- 4. The Richelieu navigation, from the St. Lawrence to Lake Champlain.
- 5. The River Ottawa.
- 6. The Rideau navigation, from Ottawa to Kingston,
- 7. The Trent navigation.
- 8. St. Peter's Canal, Cape Breton.

EXPENDITURE ON CANAL WORKS.

The following list shows the total amount charged to capital account, expended by the Government for original construction and enlargement of the canals of the Dominion; embracing the period prior to Confederation and extending down to the 30th of June, 1896:—

Lachine Canal	\$10,125,972	26
Beauharnois Canal	1,611,690	26
Soulanges Canal (under construction)	2,275,908	55
Williamsburg Canals (being enlarged)	4,228,419	71
Cornwall Canal (being enlarged)	5,953,662	53
St. Lawrence River and Canals, surveys, &c	1,147,132	82
Lake St. Louis	54,662	45
Murray Canal	1,247,470	26
Welland Canal	23,769,353	41
Sault Ste. Marie Canal	3,448,011	83
Ste. Anne Canal	1,170,215	63
Carillon and Grenville Canals	4,029,788	86
Culbute Canal	379,494	46
Rideau Canal (including the Perth Branch, or Tay		
Canal)	4,560,285	60
Trent Canal	1,538,779	97
St. Ours Lock	121,537	65
Chambly Canal	637,206	76
St. Peter's Canal	648,755	64
Baie Verte Canal survey	44,387	53
Total charged to capital	66.948.348	65

In addition to the above there has been expended during the same period on the maintenance, repairs, and operation of these several works, but not charged to capital..... 13,932,785 89

Making a total expenditure on canals of \$80,881,134 54

The total revenue derived from the canals, including tolls and rentals of lands and water powers of the Dominion during the said period amounted to \$10,917,796.74.

TOTAL EXPENDITURE AND RECEIPTS FOR THE YEAR.

EXPENDITURE.

The total expenditure in connection with construction, maintenance, and operation of the several canals for the fiscal year ended on the 30th of June, 1896, and other expenditure under canal appropriations was as follows:-

Construction (charged to Capital)		\$2	2,258,778	97
Renewals, (charged to Income)	\$121,908	10		
Ordinary repairs (charged to Revenue)	226,328	40		
Staff (operating and collecting) do	345,454	47		
			693,690	97*

\$2,952,469 94

REVENUE.

The total revenue for the fiscal year was \$341,503.09, less refunds of canal tolls \$1,964.37, leaving the net revenue \$339,538.72, a decrease compared with the net revenue of the previous year of \$351.77, the net canal tolls amounted to \$268,838.67, a decrease of \$12,297.41, and the rents received to \$51,414.01.an increase of \$10,807.11.

The system of granting refunds on through shipments of grain and other food products was discontinued at the beginning of 1893, the through rate being fixed at ten cents a ton by an Order in Council of the 13th of February, 1893, a rate continued in subsequent years. The refunds above referred to are detailed in the accountant's statement, part II. page 31, and were for over payments, and for material carried for government works.

The total expenditure on staff and maintenance, repairs and renewals, amounted for the year to \$693,690.97, decrease of \$52,085.07; and the total net receipts amounting as above to \$339,538.72, the amount of expenditure in excess of receipts was \$354,152.25.

^{*} The above figures are those of the "total on canals" in the accountant's statement part I, p. 3), the last five items of which, though representing expenditure under the canal appropriations, are not directly chargeable to those works: their aggregate amounts to \$30,194.21, charged to "income." They are not included in the statement of the Chief Engineer, Part I, p. 29, which gives the total for maintenance and operation as \$663,496.76.

The following statement shows the amount collected on each canal for canal Revenue proper, and hydraulic rents, etc., during the fiscal year ended on the 30th of June, 1896.

Name of Canal.	Tolls.	Wharfage and Storage.	Fines	Other Receipts.	Hydraulic and other Rents.	Total.
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Welland St. Lawrence Chambly Ottawa Rideau St. Peters Murray Trent Valley Sault Ste. Marie	1,248 38 522 12 1,066 11	51 94	130 00 80 00 9 00	275 70 166 75		151,944 07 120,256 30 27,006 01 32,157 13 7,068 22 1,248 38 526 12 1,286 86 10 00
	270,802 04	3,085 08	219 00	15,982 96	51,414 01	341,503 09
Less Refunds						1,964 37
						339,538 72

Details relating to the canal revenue and various commercial statistics for the season of navigation of the year 1895 will be found in part V., "Canal Statistics."

The following features of the principal canal traffic during the season of navigation of 1895, will be found of interest:—

On the Welland Canal, 869,595 tons of freight were moved; of which 489,748 tons were agricultural products, and 121,846 tons produce of the forest, 635,712 tons passed eastward and 233,883 westward: 852,026 tons were through freight, of which 621,926 tons passed eastward through the whole length of the canal.

Canadian vessels carried 290,077 tons of through freight and United States vessels 561,949 tons.

The total freight passed eastward and westward through this canal from United States ports to United States ports was 477,105 tons; a decrease of 115,162 tons compared with the year 1894.

The quantity of grain passed down this and the St. Lawrence Canals to Montreal was 231,491 tons, a decrease of 42,160 tons compared with the previous year: of this 18,987 tons were transhipped at Ogdensburg, as against 273,651 tons carried down in 1894, of which 23,030 tons were transhipped at Ogdensburg.

On the St. Lawrence Canals a total of 828,228 tons of freight were moved: of which 469,735 were east bound through freight; and 27,209 tons were west bound through freight: 315,860 tons were agricultural products and 338,793 tons were merchandise.

Four cargoes of corn, aggregating 1,344 tons, were taken down direct to Montreal.

On the Ottawa River Canals the total quantity of freight moved was 541,220 tons, of which 532,084 tons were produce of the forest.

On the Chambly Canal 359,027 tons were moved, of which 226,197 tons were the product of the forest.

On the Rideau Canal 88,753 tons were carried, 55,563 tons being the product of the forest.

On the St. Peters Canal 9,828 tons were carried, of which 712 tons were the product of the forest.

On the Murray Canal 11,324 tons passed and 4,446 tons of this were the product of the forest.

On the Trent Valley Canal 32,266 tons were moved, of which 30,899 tons were the product of the forest.

On the Sault Ste. Marie Canal (which opened on Sept. 9th, 1895, and closed Dec. 6th, the total movement of freight for the three months was 595,837 tons, being 415,432 tons of east bound and 180,405 tons of west bound.

RIVER ST. LAWRENCE AND LAKES.

The River St. Lawrence, with the system of canals established on its course above Montreal, and the Lakes Ontario, Erie, St. Clair, Huron and Superior, with connecting canals, afford a course of water communication extending from the Straits of Belle Isle to Port Arthur, at the head of Lake Superior, a distance of 2,260 statute miles. The distance to Duluth is 2,384 miles.

From the Straits of Belle Isle at the mouth of the St. Lawrence to Montreal the distance is 986 miles. From Quebec to Montreal the distance is 160 miles. Owing to the shallowness of the waters on a portion of the river between these two places, par-. ticularly through Lake St. Peter, vessels drawing more than from ten to twelve feet were formerly barred from passage for the greater part of the season of navigation. 1826, the question of deepening the channel was first definitely mooted, but it was not until 1844, that any dredging operations were begun. In that year, the deepening of a new straight channel was commenced, but the scheme was abandoned in 1847. In 1851, the deepening of the present channel was begun. At that time the depth of the channel at low water was 10 feet 6 inches. By the year 1869, this depth had been increased to 20 feet, by 1882, to 25 feet, and by the close of 1888 the depth of 271 feet, at low water, was attained for a distance of 108 miles from Montreal to a point within tidal influence. This work is now being continued by the Government of Canada, who in 1888, under the provisions of the Act 51, Vic., ch. 5 of that year, assumed the indebted-The channel has a minimum width of 300 feet, extending to 550 feet at points of curvature. The channel is lighted and buoyed.

Prior to the commencement of the work of deepening the new channel, the size of vessels which could reach Montreal was limited to about 350 tons, and in the year 1853, the port was visited by only three small transatlantic steamers.

During the season of 1896 the number of sea going vessels arriving at this port was 709, having an aggregate tonnage of 1,216,468 tons, some of them being vessels of over 5,000 tons. The impetus to commerce thus given has resulted in the undertaking of very extensive works of harbour improvement at Montreal by which the present accommodation will be greatly increased. Navigation, which is closed by ice during the winter months, opens about the end of April.

Montreal has by this work been placed at the head of ocean navigation, and here the canal systems of the River St. Lawrence begin, overcoming the various rapids by which the river channel upwards is obstructed, and giving access, through the Welland Canal, the great lakes, and the Sault Ste. Marie Canal, to the head of Lake Superior.

The difference in level between the point on the St. Lawrence near Three Rivers where tidal influence ceases, and Lake Superior, is about 600 feet.

The Dominion canals, constructed between Montreal and Lake Superior, are the Lachine, Beauharnois, Cornwall, Farran's Point, Rapide Plat, Galops, Welland and Sault Ste. Marie. Their aggregate length is 71 miles; total lockage (or height directly overcome by locks) 551 feet. The number of locks through which a vessel would pass in its passage from Montreal, at the head of ocean navigation, to the head of Lake Superior is 51.

Communication between Lakes Huron and Superior is obtained by means of the Canadian Sault Ste. Marie Canal, and also by the St. Mary's Falls Canal, situated on the United States side of the River St. Mary. Both these canals are free of toll.

The American Canal is a little over a mile in length, with a bottom width of 100 feet; with it there are connected two locks—the old lock, of which the dimensions are:—length 515 feet, width 80 feet, gate openings 60 feet wide, with 16 feet of water on the sills, and a lift of about 18 feet, and the new lock, completed in the fall of 1896, of which the dimensions are, length 800 feet, width 100 feet, and 21 feet of water on the sill at medium water level.

The following indicates the main features of the works executed, in progress, and in contemplation in connection with the scheme of canal enlargement on the through line of navigation between tide water and Lake Superior.

The general enlargement scheme comprises locks of the following dimensions:—length, 270 feet between the gates; width, 45 feet; with a navigable depth of 14 feet of water over the sills. The Sault Ste. Marie lock, however, is 900 feet long, 60 feet wide, and with a depth of water more than equivalent to 21 feet in the new American lock.

Lachine Canal.—On the Lachine Canal the foundations of the permanent structures were put down to the full depth for vessels drawing 14 feet, but for about $6\frac{1}{2}$ miles the canal itself has yet to be lowered 2 feet to obtain this depth. All the work is under contract, and over one half has been executed up to the end of the working season of 1896.

Lake St. Louis.—For about four miles above the head of the Lachine Canal, Lake St. Louis is obstructed by numerous shoals, consisting principally of hard material, the removal of which is necessary to form a channel suitable to the enlarged 14 feet navigation. The work of excavating a channel 300 feet wide and 16 feet deep for a distance of about 4 miles is in progress; over one third has been executed up to the end of the working season of 1896.

Soulanges Canal.—Between Lakes St. Louis and St. Francis there is a rise of about 83 feet in the river, which is at present surmounted by the Beauharnois Canal, on the south shore of the St. Lawrence. The enlarged scale canal (the Soulanges), on the north shore of the river, will be about 14 miles in length. It is in course of construction. All works are under contract, and about one half has been executed.

Lake St. Francis.—In Lake St. Francis the obstructions to a 14 feet navigation are of minor importance, and are found chiefly near its upper or western end, where there are some shoals to be removed.

Cornwall Canal.—The works are so far advanced that they will be completed next season.

Farran's Point Canal.—Nothing has been done towards the enlargement of the canal at Farran's Point beyond the necessary surveys and the preparation of plans, but the prism of the canal has been dredged out to its original dimensions.

Rapide Plat Canal.—At the Rapide Plat the works of enlargement are practically completed.

Between the Cornwall Canal and the Galops Canal the river reaches require to be deepened or improved at certain points.

Galops Canal.—The Galops Canal, $7\frac{5}{8}$ miles in length, passes the Iroquois, the Cardinal and Galops Rapids. Of these, the Iroquois and the Cardinal are very strong currents rather than rapids.

This canal is being enlarged for a distance of about 4,000 feet from the upper entrance to a point below the Galops Rapids, where a new lift-lock and other works, now completed, give access from the river. These enlargement works are practically completed.

From the upper entrance of this canal to the Prescott reach, a distance of about three miles, the present circuitous and, in parts, shallow channel lies across what is known as "Flat Rock" shoal, and runs through American waters. The improvement and utilization of the north or Canadian channel of the river has been suggested as a part of the general scheme of enlargement, but beyond survey and the preparation of plans nothing has yet been done.

Welland Canal.—The enlargement of this canal is completed.

Sault Ste. Marie Canal.—This canal is now open for traffic. The full depth to which the canal and lock are adapted is a 20 feet navigation at the lowest known water level, but the approaches are, so far, only dredged out to a depth of 18 and $18\frac{1}{2}$ feet respectively. This, however, is of no present consequence, as the limit of navigation is fixed by the new United States channel in the river below the falls, which is not yet, in parts, taken out to the full depth contemplated.

LACHINE CANAL.

m.		Old I	Line.		New	Line.
Length of canal	8	statu	te miles.	8	statut	te miles.
Number of locks	5			5		
Dimensions of locks	200	feet by	7 45 feet.	270	feet by	45 feet.
Total rise, or lockage	45	"		45	"	
Depth of water (at two locks	16	"		18	"	
Depth of water { at two locks on sills } at three locks.	9	"		14	"	
Mean width of new canal				150	"	•

The depth of the canal between locks is at present only adapted to vessels of 12 feet draught.

The canal consists of one channel, with two distinct systems of locks, the old and the enlarged. There are two entrances at each end.

The canal extends from the city of Montreal to the town of Lachine, overcoming the St. Louis Rapids, the first of the series of rapids which bars the ascent of the River St. Lawrence. They are 986 miles distant from the Straits of Belle-Isle.

The scheme for the enlargement of this, in common with the other canals of the St. Lawrence, contemplated a navigable depth of 14 feet throughout. The improvement immediately in view, however, was only intended to furnish a navigable depth of 12 feet in the canal proper, and accordingly, on the following reaches, namely, between Lachine and Côte St. Paul, Côte St. Paul, and St. Gabriel, St. Gabriel and Wellington Basin, the channel has been adapted to navigation by vessels of 12 feet draught only. All permanent works on the canal, such as locks, bridges, side walls and culverts, have been built to afford a navigable depth of 14 feet, and on the section adjacent of Montreal their depth is sufficient to accommodate vessels having 20 feet. The works for the further deepening of the canal for the 14 feet navigation are in progress.

The canal was closed on the 30th of November, 1895, and opened on the 3rd of May, 1896.

The navigation of the canal was carried on through the season without interruption.

The report of the superintending engineer gives details of the repairs and new works executed, and shows generally the condition of the canal. (Appendices, Part I., p. 102.)

The expenditure on this canal during the past fiscal year was as follows :-

Construction, chargeable to capital	\$184,9 98	25
Renewals, chargeable to income	8,193	15
Repairs	24,950	20
Staff		96
Total	\$276,484	56

The work of dredging the new channel through certain shoals in Lake St. Louis to meet the requirements of the deepened canal, is making good progress; the expenditure of the past year on this work was \$49,909.31.

BEAUHARNOIS CANAL.

Length of canal	111	statut	miles.
Number of locks	9		
Dimensions of locks	200	feet by	45 feet.
Total rise or lockage	$82\frac{1}{2}$	feet.	
Depth of water on sills	9	"	
Breadth of canal at bottom	80	"	
Breadth of canal at water surface	120	"	

This canal commences on the south side of the St. Lawrence, 15½ miles from the head of the Lachine Canal. It connects Lakes St. Louis and St. Francis, and passes the three rapids known, respectively, as the Cascades, the Cedars and the Coteau.

The canal was closed on the 30th of November, 1895, and was reopened for traffic on the 1st May, 1896.

During the season navigation was uninterrupted.

Details of repairs, &c., will be found in the Appendices, part I., p. 104.

The expenditure on this canal for the past fiscal year was as follows:---

Construction, chargeable to capital	Nil.
Renewals, chargeable to income	Nil.
Repairs	\$15,050 85
Staff	20,725 47

CORNWALL CANAL.

Length of canal	$11\frac{1}{2}$ statute miles.
Number of locks	6
Dimensions of locks	270 by 45 feet.
Total rise or lockage	48 feet.
Depth of water on sill	14 "
Breadth of canal at bottom (except at three	
culverts)*	100 "
Breadth of canal at water surface	150 "

From the head of the Beauharnois to the foot of the Cornwall Canal there is a stretch through Lake St. Francis of $32\frac{3}{4}$ miles, which is navigable for vessels of the size at present in use.

The Cornwall Canal extends past the Long Sault Rapids from the town of Cornwall to Dickinson's Landing.

This canal was closed on the 7th December, 1895, and reopened on the 30th April, 1896.

During the months of September and October, 1895, the water supply was unusually low, rendering it necessary to shut off the water from manufacturing establishments; and during the period of lowest water, the draught of vessels was restricted to 8 feet.

The lowest water level recorded at the upper guard lock during the season was 7 feet 4 inches, and the highest 9 feet 11 inches. Detailed statements of water levels will be found in part I., p. 134.

Several accidents occurred during the year, lock gates being carried away by vessels, entailing interruption to traffic.

Details of repairs and operation will be found in the Appendices, part I., p. 129, and of enlargement works part I., p. 122.

NEW WORKS.

The work of deepening and enlarging the prism of the canal is approaching completion.

It having been decided to adopt the north channel of the River St. Lawrence between Sheik's Island and the mainland as a part of the canal, the enlargement of the existing canal at this point was abandoned. The work of constructing the necessary

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^{*}This is the bottom breadth of the old, 9 feet navigation, canal.

dams across the river channel between Sheik's Island and the mainland which was placed under contract in June, 1893, was completed in the season of 1895, and the gradual filling of the area so formed was commenced in the fall, the water being fully let in by the opening of navigation.

The estimated cost of the enlargement of this canal is \$4,300,000, of which there had been paid up to the 1st of November, 1896, \$4,049,955.

The work of the year is described in detail in the appendices to the present report. (See part I., page 122.)

The expenditure on this canal during the past fiscal year was as follows:-

Construction, chargeable to capital	\$448,408	31
Renewals, chargeable to income	2,175	00
Repairs	25,259	56
Staff and maintenance	15,472	26
Total	\$491,315	13

WILLIAMSBURG CANALS.

The Farran's Point, Rapide Plat, and Galops Canals are collectively known as the Williamsburg Canals.

The canals were closed on the 10th of December, 1895, and reopened on the 1st of May, 1896.

One accident occurred during the year, the gates of one of the locks being carried away by collision, causing delay to navigation.

The low state of the water during a portion of the season of 1895 entailed much inconvenience to navigation.

The expenditure on these canals during the past fiscal year was as follows:-

Construction, chargeable to capital	\$442,021	12
Renewals, chargeable to income	8,607	04
Repairs	9,036	00
Staff and maintenance		51
Total	\$469,252	67

For details of work see the Appendices, part I., page 124 to page 133.

FARRAN'S POINT CANAL.

Length of canal	$\frac{3}{4}$	mile.	
Number of locks			
Dimensions of lock	200 f	eet by	45 feet
Total rise, or lockage	4	feet.	
Depth of water on sills at ordinary water level	9	"	
Breadth of canal at bottom		66	
Breadth of canal at water surface	90	66	
lxiv			

From the head of the Cornwall Canal to the foot of Farran's Point Canal, the distance on the River St. Lawrence is 5 miles. The latter canal enables vessels ascending the river to avoid, if necessary, the Farran's Point rapid. Descending vessels run the rapids with ease and safety.

The prism of this canal is being restored to its original dimensions, viz., width at bottom 50 feet, depth 10 feet. (See Appendices, part I., page 124.)

RAPIDE PLAT CANAL.

Length of canal	4	miles.	
Number of locks	2		
Dimensions of locks.	270 f	eet by 4	5 feet.
Total rise, or lockage	11 1	feet.	
Depth of water on sills	14	"	
Breadth of canal at bottom	50	"	
Breadth of canal at surface of water	90	"	

From the head of Farran's Point Canal to the foot of Rapide Plat Canal there is a navigable stretch of $10\frac{1}{2}$ miles. This canal was formed to enable vessels ascending the river to pass the rapids at that place. Descending vessels run the rapids safely.

NEW WORKS.

The enlargement works of the Rapide Plat Canal consist of the enlargement of the channel way above, and for some distance below, the present guard-lock at the head of the canal, and the construction of a new guard-lock and a supply weir in connection with the old lock. The bottom of the channel, for a distance of about 1,000 feet below, and out into deep water, above the lock, about 700 feet, has been excavated to an extent sufficient to afford a navigable depth of 14 feet. The new lock was completed in 1888, and is in operation; the other works in that connection are also finished. Contracts for the enlargement of the remaining portion of the canal, including the lock at the lower outlet, were entered into in the month of January, 1891. The works are nearly completed. Up to the 1st of November, 1896, there had been paid a total of \$1,582,713 out of a total estimated cost of \$1,700,000. (See Appendices, part I., page 125.)

GALOPS CANAL.

Length of canal	7 ⁵ ⁄ ₈ miles.
Number of locks	
Dimensions of locks	1 Guard lock 270 ft. by 45 ft 1 Lift lock 270 ft. by 2 " 200 ft. by 45 ft.
Total rise, or lockage	
Depth of water on sills	14 "
Breadth of canal at bottom	50 "
Breadth of canal at surface of water	90 "

From the head of Rapide Plat Canal to Iroquois, at the foot of the Galops Canal, the St. Lawrence is navigable for 4½ miles. This canal enables vessels to overcome the capids at Pointe aux Iroquois, Point Cardinal and the Galops.

NEW WORKS.

The works for the widening and deepening of the upper entrance and for the construction of a lift-lock from the river below the Galops Rapids, about 4,000 feet from the upper entrance, together with a guard-lock and supply weir to the canal adjacent to the point were placed under contract in November, 1888. Both locks are completed, and the water was admitted to them in October, 1894. The balance of the work is in progress. Out of the estimated cost of this enlargement, \$1,650,000, there has been paid up to the 1st November, 1896, the sum of \$1,503,344.

By the use of this new lift-lock, vessels qualified to stem the currents of the Iroquois and Cardinal Rapids can dispense with about 7 miles of canal passage, traversing only the 4,000 feet between the lock and the upper entrance in order to pass the Galops Rapids; and during the season, navigation, which had been hindered by the exceptionally low stage of the water, received the benefit of the work, steps having been taken to utilize it to that end.

In view of the above, nothing has been done towards the enlargement of the 7 miles of the canal east of the lock, beyond the preliminary surveys.

During the season of 1892, a location survey was completed of what is known as the "north channel," from the head of the Galops Canal to the head of Spencer's Island a channel which, if improved, would afford a course shorter by $\frac{2}{3}$ of a mile than the southern channel in American waters now in use. (See Appendices, part I., p. 127.)

MURRAY CANAL.

Length between eastern and western pier heads	5 }	miles
Breadth at bottom	80	feet
Depth below lowest known lake level	11	"
No locks.		

This canal extends through the Isthmus of Murray, giving connection westward between the head waters of the Bay of Quinté and Lake Ontario, and thus enabling vessels to avoid the open lake navigation.

The works on this canal comprise a cut through the isthmus 4½ miles long, and improvements in the way of dredging and other work to the entrance channels at either end, covering a total distance of 9½ miles in all. There are no locks. The canal is crossed by four swing bridges.

Its western terminus is near the village of Brighton, in the harbour of Presqu'Ile; from which point to Port Dalhousie, the entrance of the Welland Canal, the distance is less than 120 miles.

The canal is 80 feet wide at the bottom, the depth being, at low water, $12\frac{1}{2}$ feet.

The entrance from the lake to Presqu'Ile Harbour has a width varying from 1,000 feet outside the main light to 200 feet at the entrance of the channel. The maximum depth at the entrance is 16 feet at low water.

The canal was closed on the 4th of December, 1895, and reopened on the 17th of April, 1896.

The highest water level recorded between May and November, 1895, was 12 feet 5 inches (in May) and the lowest, 12 feet 4 inches (in November) being the lowest highwater and the lowest low water for the past five years.

Navigation was maintained without interruption. The canal was used to the extent of 603 passages of vessels. (See Appendices, part I., p. 132.)

The expenditure on the canal, during the past fiscal year, was as follows:-

Construction, chargeable to capital	Nil.	
Renewals, chargeable to income	Nil.	
Repairs	\$5,410	33
Staff and maintenance	5,409	10
m-4-1	#10.010	49

WELLAND CANAL.

MAIN LINE FROM PORT DALHOUSIE, LAKE ONTARIO, TO PORT COLBORNE, LAKE ERIE.

	Old Line.	Enlarged or New Line.
Length of canal. Pairs of guard-gates (formerly 3). Number of locks $\begin{cases} \text{lift.} \\ \text{guard.} \end{cases}$	27½ miles.	$\begin{array}{cc} 26\frac{3}{4} \text{ miles.} \\ 2\\ 1 \text{ lift} & 25 \end{array}$
Number of locks guard	1 lock 200 x 45	guard 1
Dimensions	1 " 200 x 45 1 (tidal) 230 x 45 24 locks 150 x 45	270 feet x 45 feet.
Fotal rise, or lockage	$326\frac{3}{4}$ feet. $10\frac{1}{4}$ feet.	3263 feet. 14 "

WELLAND RIVER BRANCHES.

Length of canal—Port Robinson Cut to River	
Welland	2,622 feet.
" From the canal at Welland,	
to the river, via lock at	•
aqueduct	300 "
" Chippawa Cut to River Nia-	
gara	1,020 "
Number of locks—one at aqueduct and one at	
Port Robinson	2
Dimensions of locks	150 by $26\frac{1}{2}$ feet.
Total lockage from the canal at Welland down	•
to River Welland	10 feet.
Depth of water on sills	9 " 10 inches.

GRAND RIVER FEEDER.

Length of canal	21 miles.
Number of locks	2
Dimensions of locks {	1 of 150 by 26½ feet. 1 of 200 by 45 "
Total rise or lockage	7 to 8 feet.
Depth of water on sills	9 feet.

PORT MAITLAND BRANCH.

Length of canal	. 13 miles.
Number of locks	. 1
Dimensions of locks	
Total rise or lockage	. $7\frac{1}{2}$ feet.
Depth of water on sills	-

The Welland Canal has two entrances from Lake Ontario, at Port Dalhousie, one for the old, the other for the new canal.

From Port Dalhousie to Allanburgh, $11\frac{3}{4}$ miles, there are two distinct lines of canal in operation, the old line and the enlarged or new line.

From Allanburgh to Port Colborne, a distance of 15 miles, there is only one channel, the old canal having been enlarged.

The canal was opened in 1883 for vessels drawing 12 feet of water, and in May, 1887, for vessels drawing 14 feet.

Navigation closed on the 12th of December, 1895, and reopened on the 28th of April, 1896.

There appears to be nothing in the operations of the year calling for special notice.

Tables will be found in part I., p. 148, showing the highest and lowest depth of water of the new entrance locks at Port Dalhousie and at Port Colborne for each month throughout the past fiscal year. As affecting navigation, it may be observed that, at Port Colborne the highest water was in November, 1895, 18 feet 4 inches, and the lowest, also in November, 12 feet 2 inches.

At Port Dalhousie the highest water was in April and May, 1896, 15 feet 6 inches, and the lowest in October, 1895, 12 feet 4 inches.

Details as to repairs executed will be found in the appendices. (See part I., p. 136.) The expenditure on this canal during the past fiscal year was as follows:—

 Construction, chargeable to capital.
 \$ 1,677 67

 Renewals, chargeable to income.
 18,768 99

 Repairs
 62,542 64

87,988 11

From the head of the Welland Canal there is a deep water navigation through Lake Erie, the Detroit River, Lake St. Clair, the St. Clair River, Lake Huron and River St. Mary to within a short distance of the Sault Canal, a distance of about 394 miles. From the Sault the distance through Lake Superior to Port Arthur is 266 miles, and to Duluth 390 miles.

SAULT STE. MARIE CANAL.

Length of canal, between the extreme ends of the	
entrance piers	5,967 feet.
Number of locks	1
Dimensions of lock	900 feet by 60 feet.
Depth of water on sills (at lowest known water	-
level)	20 feet 3 inches.
Total rise or lockage	18 feet.
Breadth of canal at bottom	141 feet 8 inches.
Breadth at surface of water	150 feet

This canal has been constructed through St. Mary's Island, on the north side of the rapids of the River St. Mary, and, with that river, gives communication on Canadian territory between Lakes Huron and Superior.

At ordinary stages of the river water there is a difference of 18 feet in the levels of the water above and below this island. The length of the canal across the island is 3,500 feet. In addition, approaches have been formed at both entrances. The total length of this canal, together with its excavated channels of approach is about 18,100 feet.

For contract purposes, the work was divided into three sections, and contracts were entered into as follows:—For the lower entrance, on the 30th of January, 1889; for the upper entrance, on the 26th March, 1889, and for the canal and lift-lock on the 20th of November, 1888.

The scheme, as covered by these contracts, contemplated a lock chamber 600 feet long and 85 feet wide, with a depth of water on the sills of 16½ feet at the lowest known water level; the width of the gate entrances to the lock to be 60 feet. This lock was designed to pass two vessels at one lockage. The prism of the canal was to be 18 feet below the lowest known water level of the river above St. Mary's Island.

Representations were, however, made by parties concerned in the navigation of this work, urging that the above dimensions should be increased, and under authority of Orders in Council of 21st of May and 3rd of July, 1891, a supplemental agreement was entered into with the contractors for the canal and lock, Messrs. Hugh Ryan & Co., on the 19th of June, 1891, whereby the following dimensions were to be adopted:— Length of lock chamber, 650 feet, width 100 feet, depth of water on the sills 19 feet; the time for completion being extended from the 10th of May, 1892, to the 10th of May, 1893.

In the session of 1891, however, a discussion took place in Parliament as to the desirability of making the entrance of the lock in a straight line with the walls of the chamber, and on the 24th of December, 1891, and 1st of April, 1892, Orders in Council were passed authorizing further changes with this view. A second supplemental agreement was accordingly made with the contractors on the 5th of April, 1892, the dimensions of the lock to be as follows:—Length of chamber 900 feet, width 60 feet, throughout, with a depth of 20 feet 3 inches of water on the sills at the lowest recorded stage of the water in the river below the lock; the date for completion being fixed as the 31st of December, 1894.

Later on it became desirable that the work should be completed at an earlier date, and under authority of an Order in Council of the 10th of October, 1892, a further agreement was made with the contractors, on the 8th of November, 1892, for the execution, by the 1st July, 1894, of all the works under their contract, including the deepening of the canal prism to a further depth of 4 feet, making it 22 feet below the lowest known river level.

By the scheme, as so modified, accommodation is afforded to three vessels lying in the lock one behind the other, one of the lake type, 320 feet long, and two of the Welland Canal type, 225 feet long, with ready means of entrance and exit on a course through the gates and lock straight with the line of the canal.

The lock and the prism of the canal were completed and ready for traffic by the end of June, 1895, but it was not until the 9th of September that the channels of approach had been sufficiently cleared to admit of regular traffic. On that day, however, the canal was opened and was operated until the close of the season, December 6th. It was opened for the season of 1896 on the 7th of May. The approaches have been dredged out to the depth of 18 feet and $18\frac{1}{2}$ feet respectively. This, however, in no way affects the full use of the canal by the largest class of lake shipping, traffic being dependent on the available depth of the river below, the navigable limit of which is at present governed by certain shoals in the American channel, and at Sailor's Encampment, reducing the depth to 16 feet at mean water level. These are in process of removal.

During the season of 1896, which closed on the 10th of December, 5,136 vessels have been passed through the canal in 3,042 lockages. The aggregate tonnage of the vessels was 4,395,156 tons, carrying 4,577,397 tons of freight. The enormous extent of the traffic passing the Sault, will be seen by reference to the statements below given, in which is summarized information covering the season of 1896, one statement showing the traffic returns of the Canadian canal only, and the other of the Canadian and American canals jointly. From the latter it will be observed that the tendency to rapid increase has again been very marked: over 16,000,000 tons of freight having gone through the two canals, an increase of over a million tons. There was an increase of over 17 million bushels of wheat, and an increase of over 19 million bushels of other grain.

The expenditure on this canal during the past fiscal year was as follows:-

Construction, chargeable to capital	\$189,986	59
Renewals, chargeable to income	Nil	
Repairs	2,650	17
Staff and maintenance	16,074	70
	\$208.711	46

The total expenditure on capital account up to the 1st of November, 1896, was \$3,490,207.86. The estimated cost being \$4,000,000.

Details of the works will be found in the appendices. (See Appendices, part I., p. 97.

COMPARATIVE Statement of Freight and Passenger Traffic to and from Lake Superior for the seasons of 1895 and 1896, including Statistics of the United States and Canadian Canals at Sault Ste. Marie, Michigan and Ontario:-

_		Seasons.		Increase.		DECREASE.	
Items.	Designation.	1895.	1896.	Amount.	Per cent.	Amount.	Per
essels "A"	. Number	17,956	18,615	659	·04		
ockagesonnage, registered	. do	7,734 16,806,781	9,466	1,732	22 03		1
onnage, registered do freight	. Net tons	15,062,580	17,249,418 16,239,061	442,637 1,176,481	08		ł
assengers	Number	31,656	37,066	5,410	17		
oal, hard	Net tons	440,477	397,210			43,267	1
lo soft	. do	2,133,885	2,626,130	492,245	23	,	
lour		8,902,302	8,882,858	1		19,444	
7heat		46,218,250	63,256,463	17,038,213	37		
rain (other than wheat) [anufactured and pi		8,328,694	27,448,071	19,119,377	230		
iron	. Net tons	100,337	121,872	21,535	·21		
alt		269,919	237,515			32,404	1 .
opper		107,452	116,872	9,420	.09		1
on ore		8,062,209	7,909,250			152,959	
umber		740,700	684,986		1	55,714	
ilver ore		100	240	140	140		l
uilding stone nclassified freight "B		23,876 463,308	17,731 520,851	57,543	12	6,145	"

Note:

10.		
"A." Steamers	4,391	"B." Included in the item of "Unclassified Freight" are 2,358 tons of wool and 3 tons of hides.
Total	18,615	

	The United States canal	was open t	o navigation	during			
	do	ďо	,	do	1896	232	ďo
(Canadian	do		do	1895	87	do
	do	ďΩ		ďο	189A	218	d٥

The Canadian canal was first opened to commerce on Sept. 9, 1895.

*In reports of former years, reference has been made to certain excavation and dyke works for the improvement of the southern channel of the river below the Falls, known as the Hay Lake channel, which is in American waters, the navigable depth of which was formerly limited, practically, to vessels of six feet draught. This improved channel will be 300 feet wide and will have a navigable depth of 20 feet. These works, which commenced in 1882, and the estimated cost of which was \$2,659,115, are now so far completed that the only obstruction in the river to vessels of 20 feet draught is at one point, Neebish Island, where at present not more than 17 feet is to be had.

This improved channel leaves the navigable river channel at a point, Sugar Island Rapids, about 2½ miles below the canal and passes through these rapids into Hay Lake; thence, by way of Middle Neebish, rejoining the present navigable channel at the foot of Sugar Island; the saving in distance thus effected being 11 miles (16 miles in place of 27, the distance by the old channel which runs to the north of Sugar Island in Canadian territory).

MONTREAL, OTTAWA AND KINGSTON.

This route extends from the harbour of Montreal to the port of Kingston, passing through the Lachine Canal, the navigation section of the lower River Ottawa, and the Ottawa Canals, to the city of Ottawa; thence by the River Rideau and the Rideau Canal to Kingston, on Lake Ontario—a total distance of $245\frac{5}{8}$ miles.

After leaving the Lachine Canal the works constructed to overcome difficulties of navigation are:—

The Ste. Anne's Lock
Carillon Canal
Grenville Canal
Rideau Canal

The total lockage (not including that of the Lachine Canal) is 509 feet—(345 rise, 164 fall)—and the number of locks is 55.

The following table exhibits the intermediate distances from Montreal harbour:

Sections of Navigation.	Intermediate Distances.	Total Distances from Montreal.
	. Miles,	Miles.
The Lachine Canal From Lachine to Ste. Anne's Lock Ste. Anne's Lock and piers. From Ste. Anne's Lock to Carillon Canal The Carillon Canal From Carillon Canal to Grenville Canal. The Grenville Canal From the Grenville Canal to entrance of Rideau navigation. Rideau navigation, ending at Kingston.	$8\frac{1}{2}$ 15 27 $6\frac{1}{4}$ 56 $126\frac{1}{4}$	23 b 23 b 23 b 51 b 57 b 63 s 119 b 245 g

STE. ANNE'S LOCK.

·	Old Lock.	New Lock.
Length of canal	$rac{1}{8}$ mile.	$rac{1}{8}$ mile.
Number of locks	1	1
Dimensions of lock	190 x 45 feet.	200 x 45 feet
Total rise, or lockage	3 feet.	3 feet.
Depth of water on sill		9 "

This work, with guide piers above and below, surmounts the Ste. Anne's Rapids between Ile Perrot and the head of the Island of Montreal at the outlet of that portion of the River Ottawa which forms the Lake of Two Mountains, $23\frac{1}{2}$ miles from Montreal harbour.

This lock was closed to navigation on the 29th of November, 1895, and reopened on the 26th of April, 1896.

Navigation has been conducted without interruption during the year.

Both the old and the new locks are available. (See Appendices part I., p. 104.

The expenditure on this canal during the past fiscal year was as follows:-

Construction, chargeable to capital	Nil.	
Renewals, chargeable to income	Nil.	
Repairs	\$4,993	89
Staff and maintenance	2,495	54
Total	\$7,489	43

THE CARILLON CANAL.

Length of canal	₹ mile.
Number of locks	2
Dimensions of locks	200 by 45 feet.
Total rise, or lockage	16 feet
Depth of water on sills	9 "
Breadth of canal at bottom	100 "
Breadth of canal at water surface	110 "

This canal overcomes the Carillon Rapids.

From Ste. Anne's Lock to the foot of the Carillon Canal there is a navigable stretch of 27 miles, through the Lake of Two Mountains and the River Ottawa.

The canal was closed on the 30th of November, 1895, and reopened on the 27th of April, 1896.

By the construction of the Carillon dam across the River Ottawa the water at that point is raised 9 feet, enabling the river above to be used for navigation. (See Appendices, part I., p. 105.)

From the head of the Carillon Canal to the foot of the Grenville Canal there is a navigable stretch of 5½ miles.

GRENVILLE CANAL.

Length of canal	5¾ miles,
Number of locks	5
Dimensions of locks	200 by 45 feet
Total rise, or lockage	43¾ feet.
Depth of water on sills	9 "
Breadth of canal at bottom	40 to 50 feet.
Breadth of canal at surface of water	50 to 80 "

This canal, by which the Long Sault Rapids are avoided, is about 56 miles below the city of Ottawa.

Preliminary surveys were made for the enlargment of two reaches of the Grenville canal, but no work has been commenced.

The canal was closed on the 30th of November, 1895, and reopened on the 27th of April, 1896. (See Appendices, part I., p. 105.)

The expenditure on these two canals, the Carillon and the Grenville, during the past fiscal year was as follows :--

Construction, chargeable to capital	\$ 3,850	31
Renewals, chargeable to income	Nil	
Repairs	12,161	10
Staff and maintainance	13,995	69
Total	\$30,007	10

Tables showing the depth of water at the above canals during the past fiscal year will be found in Appendices, part I., p. 110.

RIDEAU NAVIGATION.

The Rideau system connects the River Ottawa, at the city of Ottawa, with the eastern end of Lake Ontario, at Kingston.

Length of navigation waters 1261	miles.
Number of locks going from Ottawa to Kingston. $\begin{cases} 35 \text{ a} \\ 14 \text{ d} \end{cases}$	scending. lescending.
Total lockage $446\frac{1}{4}$ feet $\left\{\begin{array}{c} 282\frac{1}{4}$ rise and 164 fall. $\left\{\begin{array}{c} at \text{ hi} \end{array}\right\}$ at hi	gh water.
Dimensions of locks	y 33 feet.
Depth of water on sills, 5 feet; navigation depth	
through the several reaches	feet.
Breadth of canal reaches at bottom $\dots $ $\begin{cases} 60 \\ 54 \end{cases}$	" in earth. " in rock.
Breadth at surface of water	" in earth.

Perth Branch.

Length of canal	6	mile	es.
Number of locks	2		
Dimensions of locks	134	feet	by 32 feet.
Total rise or lockage	26	"	
Depth of water on sills	5	"	6 inches.
Length of dam	200	"	
Breadth of canal at bottom	40	"	
Breadth of canal at surface of water $\left\{ \right.$	40	"	in rock.
Dicaduli di callal au sullace di watel	60	"	in clay.

The Perth branch on the Rideau Canal affords communication between Beveridge's Bay, on Lake Rideau, and the town of Perth.

By an Order in Council dated the 27th of September, 1890, it was declared to be a part of the Rideau Canal.

The summit level of the Rideau system is at upper Lake Rideau, but several of the descending reaches are also supplied by waters which have been made tributary to them. The following description gives the sources of supply:—

From the summit, the route towards Ottawa follows the Rideau River, and that towards Kingston follows the River Cataraqui. The supply of water for the canal is derived from the reserves given in detail below.

These may be divided into three systems, viz. :-

1. The summit level, supplied by the Wolfe Lake system. 2. The eastern descending level to Ottawa, supplied by the River Tay system, discharging into Lake Rideau. 3. The south-west descending level to Kingston, supplied by the Mud Lake system, formerly know as the Devil Lake system, discharging into Lake Openicon.

Lake Openicon receives the waters of Buck Lake and Rock Lake.

All these waters on the descending level, supplemented by those of Lake Loughboro', flow into Cranberry Lake, which, discharging through Round Tail outlet, forms the River Cataraqui. The river, rendered navigable by dams at various points, affords a line of navigation to Kingston.

The navigation stopped at Ottawa on the 30th of November, 1895, and at Kingston Mills, on the 20th, and recommenced at Ottawa on the 1st of May, 1896, and at Kingston Mills on the same day.

Extremely low water again rendered navigation difficult at certain periods of the season. The spring freshets were exceptionally heavy, but damages caused by them were promptly repaired, and navigation was not affected.

Details of repairs and other works will be found in the appendices. Part I., p. 116.

A statement of water levels will be found in the appendices, Part I., p. 121.

The expenditure on this canal for the past fiscal year was as follows:-

Construction, chargeable to capital	Nil.	
Renewals, chargeable to income		
Repairs	30,196	38
Staff and maintenance	34,052	77
Total.	\$85,701	44

RICHELIEU AND LAKE CHAMPLAIN.

This system, commencing at Sorel, at the confluence of the River St. Lawrence and Richelieu, 46 miles below Montreal, extends along the River Richelieu, through the St. Ours Lock to the basin of Chambly, thence by the Chambly Canal to St. Johns and the River Richelieu and Lake Champlain. The distance from Sorel to the boundary line is 81 miles.

At Whitehall, the southern end of Lake Champlain Canal is entered, and connection is obtained with the River Hudson, by which the city of New York is directly reached. From the boundary line to New York, the distance is 330 miles.

The following table shows the distances between Sorel and New York:

Section of Navigation.	Intermediate Distances in Miles.	Total Distances.
Sorel to St. Ours Lock St. Ours Lock to Cambly Canal Chambly Canal Chambly Canal to Boundary line Boundary line to Champlain Canal Champlain Canal to junction with Erie Canal Erie Canal, from junction to Albany Albany to New York	32 12 23 111 66 7	14 46 58 81 192 258 265 411

ST. OURS LOCK AND DAM.

Length	g mile.
Number of locks	1
Dimensions of lock	200 feet by 45 feet.
Total rise, or lockage	5 "
Depth of water on sills	7 "at low water.
Length of dam in eastern channel	300 "
" western channel	690 "

At St. Ours, 14 miles from Sorel, the River Richelieu is divided by a small island into two channels. The St. Ours Lock is the eastern channel.

There is a navigable depth in the Richelieu of 7 feet between St. Ours Lock and Chambly Basin, a distance of 32 miles.

Navigation closed on the 29th November, 1895, and reopened on the 29th of April, 1896.

Unusually high water in the spring caused some damages, but navigation was not affected. (See Appendices, part I., page 105.)

The expenditure on this work during the past fiscal year was as follows:

Construction, chargeable to capital	Ni	l.
Renewals, chargeable to income	Ni	l.
Repairs, chargeable to revenue	\$ 1,678	49
Staff and maintenance	2,094	91
Total	\$3,773	40

CHAMBLY CANAL.

	Length	of can	al				 12	miles.	
	Numbe	r of loc	ks				 9		
Di	mensions	of locks	s :						
	Guard 1	Lock, N	To. 1,	at St. Joh	ın	· · · · · · ·	 122	feet]	
	Lift	"	2 .				 124	"	From 221 to
	"	"							24 feet wide.
	"	66	7,	8, 9 com	oined		 125	"]	
	Total ri	ise, or le	ockag	e			 74	"	
	Depth o	of water	r on s	ills			 7	"	
	Breadtl	h of car	nal at	bottom			 36	"	
	"	"		surface of	water		 60	"	

This canal succeeds the 32 miles of navigable water between St. Ours Lock and Chambly Basin. The canal overcomes the rapids between Chambly and St. Johns.

The canal was closed to navigation on the 30th of November, 1895, and was reopened on the 4th of May, 1896.

Navigation was uninterrupted during the season, and the traffic of the canal showed an increase of 30 per cent.

A description of the several works of repair and improvement executed during the year, and a statement of water levels will be found in the appendices. (See Appendices, part I., pp. 105 and 108.)

The expenditure on this canal during the past fiscal year was as follows:-

Construction chargeable to capital	Nil.	
Renewals, chargeable to income	\$ 3,694	63
Repairs, chargeable to revenue	11,801	12
Staff and maintenance	19,349	65
Total	\$34,845	40

TRENT CANAL.

The term "Trent Canal" is applied to a series of water stretches, which do not, however, form a connected system of navigation, and which, in their present condition, are efficient only for local use. By various works, this local use has been extended, and by others now in progress and contemplation, this will become a through route between Lake Ontario and Lake Huron.

The series is composed of a chain of lakes and rivers, extending from Trenton, at the mouth of the River Trent, on the Bay of Quinté, Lake Ontario, to Lake Huron.

Many years ago the utilizing of these waters for the purpose of through water communication between Lake Huron and Lake Ontario was projected.

The course, as originally contemplated and modified is as follows:—

Through the River Trent, Rice Lake, the River Otonabee, and Lakes Clear, Stony, Lovesick, Deer, Buckhorn, Chemong, Pigeon, Sturgeon and Cameron to Lake Balsam, the summit water, about 165 miles from Trenton; from Lake Balsam by a canal and the River Talbot to Lake Simcoe: thence by the River Severn to Georgian

lxxvii

Bay, Lake Huron; the total distance being about 200 miles, of which only about 15 or 20 miles will be actual canal.

The full execution of the scheme, commenced by the Imperial Government in 1837, was deferred. By certain works, however, below specified, sections of these waters have been made practicable for navigation, and the whole scheme is now being carried out. A branch of the main route, extending from Sturgeon Lake south, affords communication with the town of Lindsay, and, through Lake Scugog, to Port Perry, a distance of 190 miles from Trenton.

The following table gives the distance of navigable and unnavigable reaches:—

Navigable Miles.	Unnavigable Miles.
From Trenton, Bay of Quinté, to Nine Mile Rapids	9
" Nine Mile Rapids to Percy Landing 193	
" Percy Landing to Heeley's Fall Dam	141
" Heeley's Fall Dam to Peterborough 513	•
" Peterboro' to Lakefield	91
" Lakefield to a point across Balsam Lake 61	2
$\frac{1}{132\frac{1}{4}}$	$\frac{\overline{32\frac{3}{4}}$
Total distance, Bay of Quinté to a point across	
Balsam Lake	165
From Sturgeon Point on Sturgeon Lake, 483 miles	
from Lakefield, the branch through the town	
of Lindsay to Port Perry at the head of Lake	
Seugog	$27\frac{1}{2}$

The works by which the Trent navigation has been improved comprise canals, with locks and bridges, at Burleigh Rapids, Buckhorn Rapids and Fenelon Falls; also dams at Lakefield and Young's Point. By these works there is afforded communication between Lakefield, 9½ miles from Peterborough, and Balsam Lake, the headwaters of the system; opening up a total of about 160 miles of direct and lateral navigation.

At Lakefield, 9½ miles from Peterboro', the dam, at the head of the Nine Mile Rapids of the River Otonabee, maintains navigation on Lake Katchiwannoe up to Young's Point.

At Young's Point, 5 miles from Lakefield, the dam between Lake Katchiwannoe and Clear Lake controls the water level through Clear and Stony Lakes up to the foot of the Burleigh Canal. The lock here, it should be observed, is controlled by the Provincial Government.

At Burleigh Rapids, 10 miles from Young's Point, a canal about 2½ miles in length, passes the Burleigh and Lovesick Rapids, and gives communication between Stony Lake and Deer Bay.

At Buckhorn Rapids, 7 miles from Burleigh Rapids, there is a canal about one fourth of a mile long.

At Bobcaygeon, 15³ miles from Buckhorn Rapids, a dam, 553 feet long, controls the water level up to Fenelon Falls.

At Fenelon Falls, 15 miles from Bobcaygeon, a canal about one-third of a mile in length connects Sturgeon Lake with Cameron Lake.

The following is a list of the locks, with their dimensions:—

1 lo	ck a	t Rose	dale, (maintained	by the	Ontario Go	vernme	nt)	100′ x	30′ x 4′
		6' to	6' 6" depth water	on mit	tre sill.		•		
	2 lo	cks at	Fenelon13	4′ x 33	' x 5' 0" to	7′ 6″ d	lepth water	on mitre s	ill.
	1	do	Lindsay	do	5′ 0″ to	7' 0"	do	do	
	1	do	Bobcaygeon	do	5' 8" to	7' 6"	do	do	
	1	do	Buckhorn	do	5′ 0″ to	9' 0"	do	do	
	1	do	Lovesick	do	5′ 0″ to	9′ 4″	do	do	
	2	do	Burleigh	do	2' 4" to	7′ 0″	do	do	
	1	do	Young's Point (a	Prov	vincial Gove	rnment	work.) 13	34' x 33" x	x 5′ 0″
			to 14' 0" depth wa	ater on	mitre sill.		,		
	1	do	Peterborough.134	' x 33'	" x 5' 0" to 1	10′ 0″ d	epth water	on mitre si	11.
	1	do	Hastings	do	7' 0" to 1	0' 6"	do	\mathbf{do}	
	1	do	Chisholms	do	5' 0" to	8′ 6″	do	do	
	13								

NEW WORKS.

The division between Lakefield and Peterborough, $9\frac{1}{2}$ miles, is divided into two sections. Both are under contract, and work is in progress.

On the division between Lake Balsam and Lake Simcoe, the first section, $5\frac{1}{2}$ miles, is under contract and work is progressing. Surveys and plans of the balance, about $13\frac{1}{2}$ miles, are completed. One feature of the work on this division will be a hydraulic lift-lock with a lift of 50 feet.

Navigation closed on the Central Reach, on the 21st of November, 1895, and reopened on the 20th of April, 1896; on the Lower Reach it closed on the 22nd of November, 1895, and reopened on the 18th of April, 1896.

There was no interruption to navigation, and the water level was satisfactorily maintained.

Details of the several repairs executed, and a statement of water levels will be found in the appendices, part I., pp. 112 and 115.

The expenditure on this canal system during the past fiscal year was as follows:-

Construction, chargeable to capital	\$392,976	08
Renewals, chargeable to income	6,185	75
Repairs	3,329	97
Staff and maintenance		34
Total	\$406.841	14

ST. PETER'S CANAL, CAPE BRETON.

Length of canal	About 2,400 feet.
Breadth at water line	55 feet.
Lock	One tidal lock, 4 pairs of gates
Dimensions	200 feet by 48 feet.
Depth of water on sills	18 " at lowest water.
Depth through canal	19 "
Extreme rise and fall of tide in St.	
Peter's Bay.	4 "

This canal connects St. Peter's Bay, on the southern side of Cape Breton, Nova Scotia, with the Bras d'Or Lakes. It crosses an isthmus half a mile in width, and gives access from the Atlantic.

Owing to the necessity for the execution of important repairs, this canal remained closed to navigation until the 8th of November, 1895, when traffic was resumed.

The repairs and improvements carried out are described in the appendices (See part I., p. 149.)

The expenditure on this canal during the past fiscal year was as follows:-

Total	\$20,641	79
Staff	2,182	04
Repairs	260	90
Renewals, chargeable to income	16,743	64
Construction, chargeable to capital	\$ 1,455	21

SOULANGES CANAL.

This work is being constructed on the north side of the River St. Lawrence in place of enlarging the Beauharnois Canal on the south side. It follows a line extending upwards from Cascades Point to Macdonald's Point, near Coteau Landing. The scheme contemplates a canal on a practically straight line, 14 miles long, comprising four lift-locks, overcoming a total rise of $82\frac{1}{2}$ feet. (The number of locks on the Beauharnois Canal, including the guard-locks, is nine.) The dimensions of the Soulanges locks will be those of the enlarged system, namely, length, 270 feet, width, 45 feet, depth of water on sills, 14 feet. The works of construction of the canal proper, and the bridge and lock works have been placed under contract, and are in progress. The chief engineer estimates that it will be three years before this canal is completed.

Further information as to the nature and progress of the works on the several contracts will be found in the report of the chief engineer, and in that of the engineer in charge. (See Appendices part I., p. 16 and p. 99.)

The total expenditure up to the 1st of November, 1896, was \$2,401,698.88 out of a present estimated cost of \$5,000,000.

DEEP WATERWAYS COMMISSION.

In 1895, a resolution was adopted by the United States Congress having in view the appointment of commissioners to confer with commissioners to be appointed by Great Britain and Canada, for the purpose of inquiry and report as to the feasibility of building a system of canals such as to give communication with the Great Lakes for ocean going vessels. Three commissioners were accordingly appointed by the United States Government to serve without salary, and under an Order in Council dated the 30th of November, 1895, three Canadian commissioners, also unpaid, were appointed, namely, Messrs. O. A. Howland, T. C. Keefer, C. E., and T. Monro, C. E., and an appropriation for expenses was voted by Parliament.

Joint meetings have been held, and valuable information bearing on the subject has been elicited, much of which has naturally been furnished from Dominion sources. The United States commissioners presented their first report at the close of the year and it has been printed by order of the committee on interstate and foreign commerce. In view of the importance of the matters dealt with, the main report is reproduced as an appendix hereto, part VII.

From this it will be seen that the commissioners regard the project as entirely feasible; and consider that a navigable depth of not less than 28 feet should be provided; that the first work to be undertaken should be the construction of a ship canal at Niagara (Tonawanda to Olcott) and works for controlling the level of Lake Erie, for which they recommend that complete surveys and examinations be made; also for the development of the Oswego-Oneida-Mohawk route, the St. Lawrence Champlain route, the improvement of the tidal Hudson River, and the improvement of the intermediate channels of the lakes. The cost of these surveys and investigations they estimate as not less than \$600,000, extending over some years.

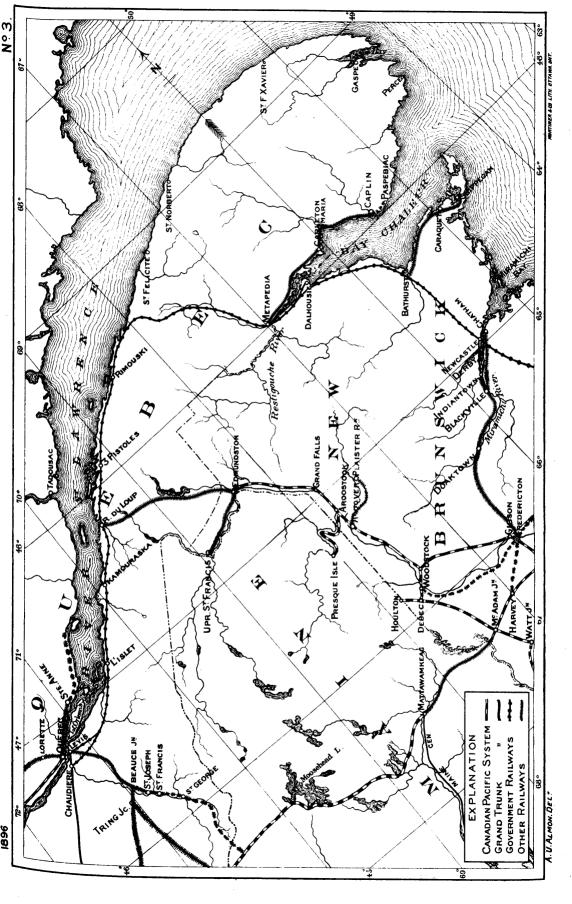
The Canadian commissioners have not yet sent in their report.

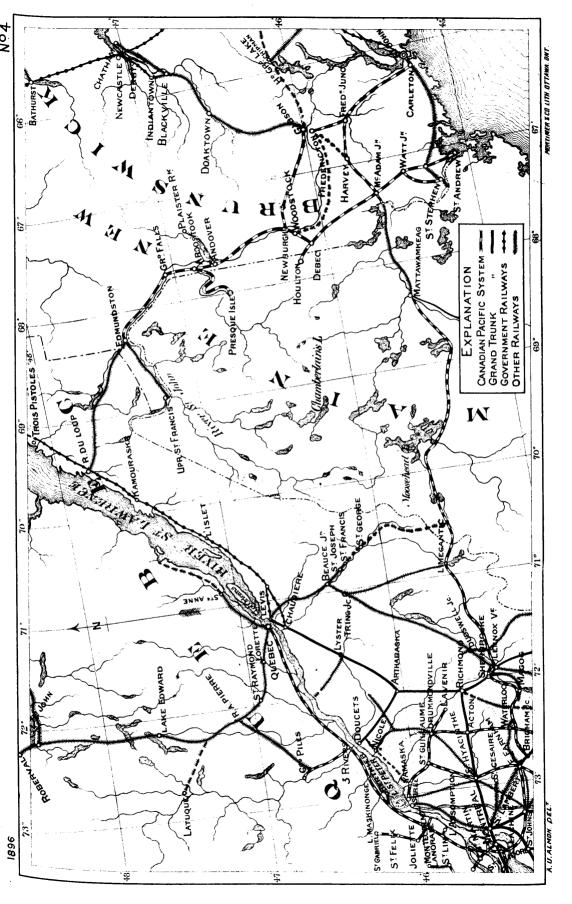
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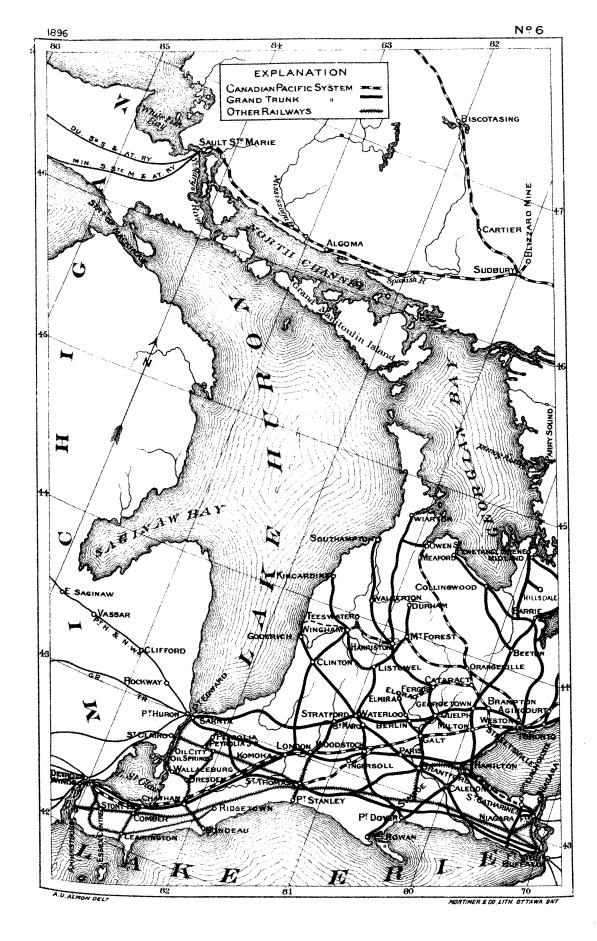
Your Excellency's most obedient servant,

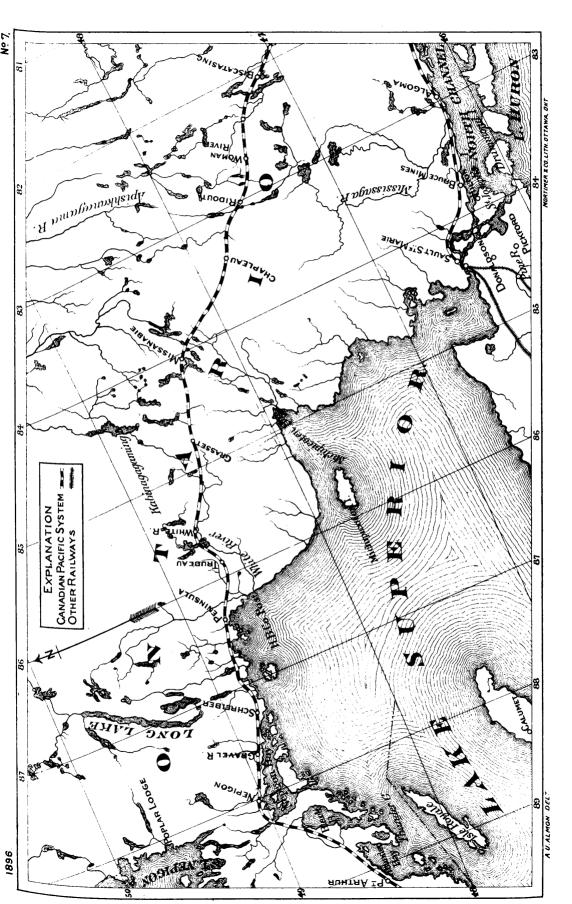
ANDREW G. BLAIR,

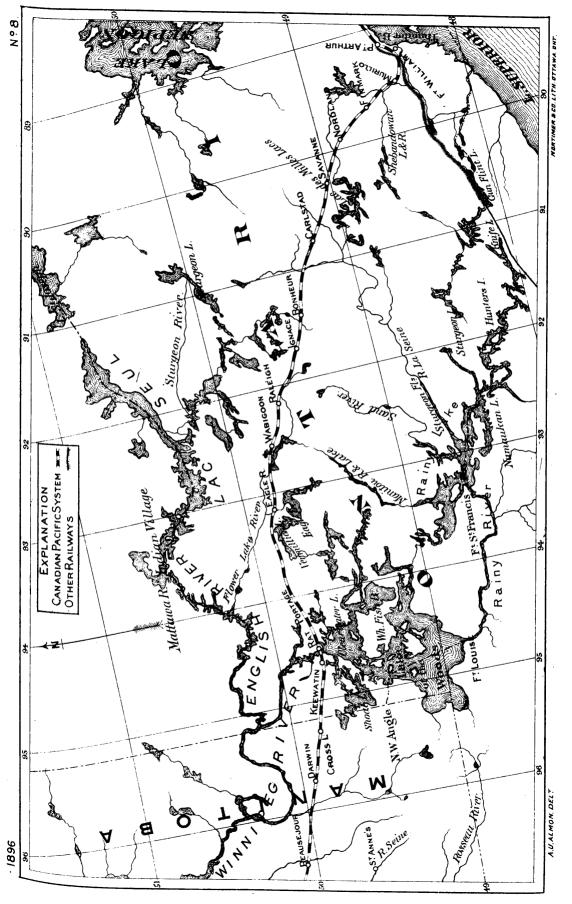
Minister of Railways and Canals.

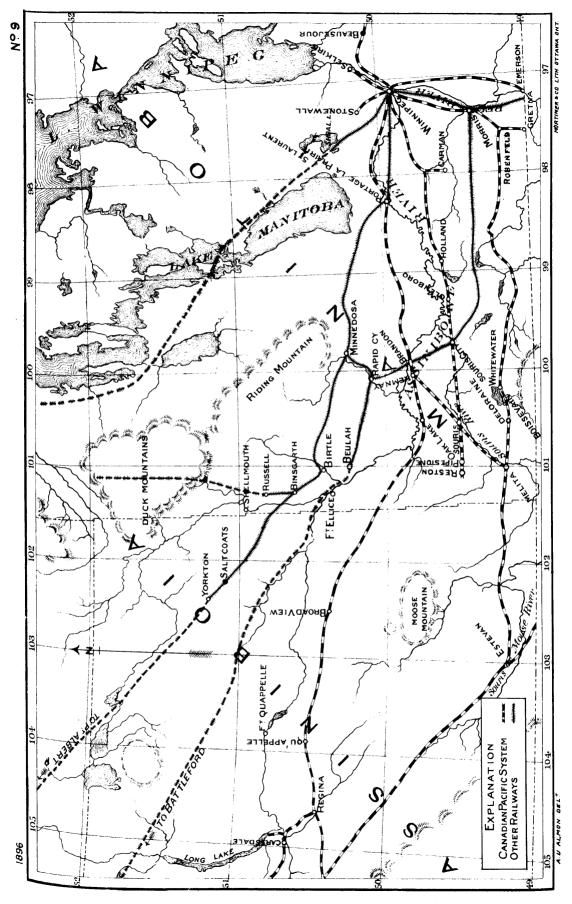


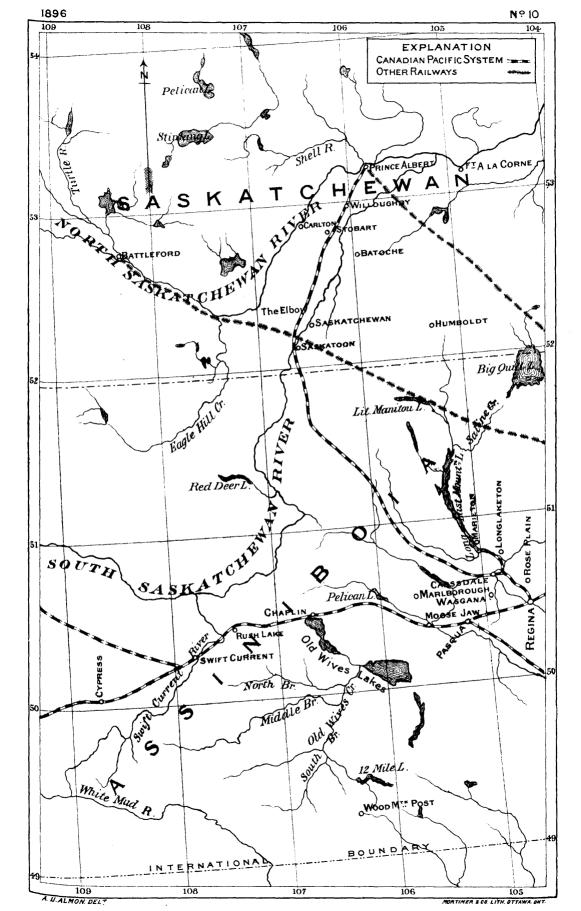


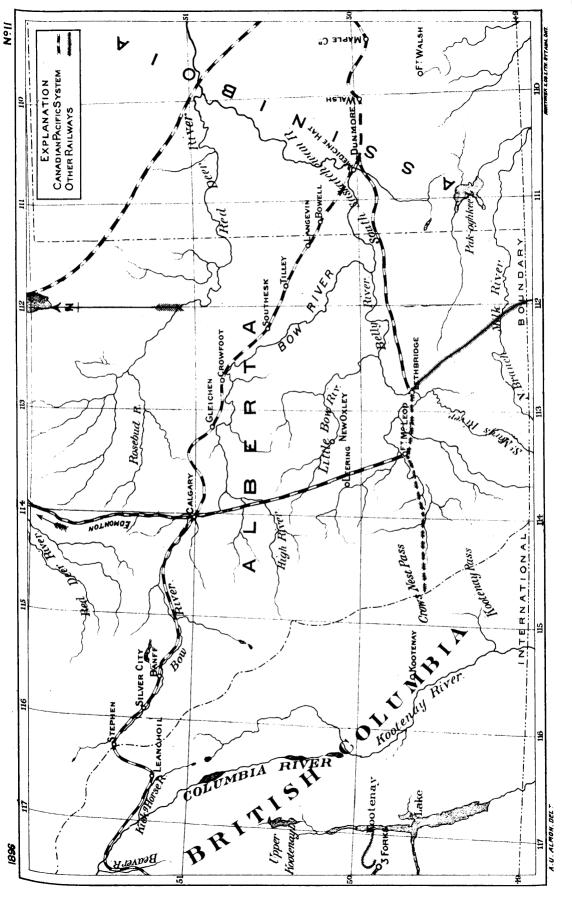


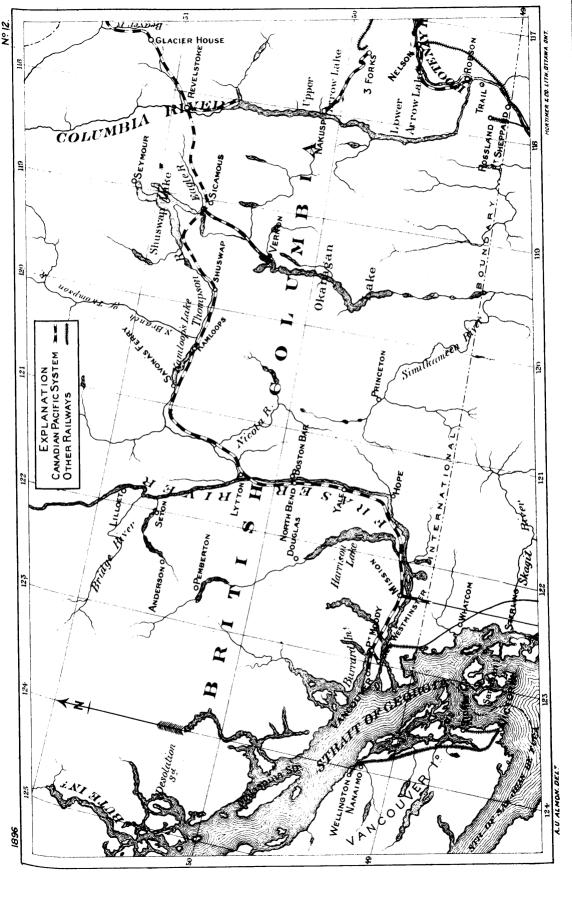


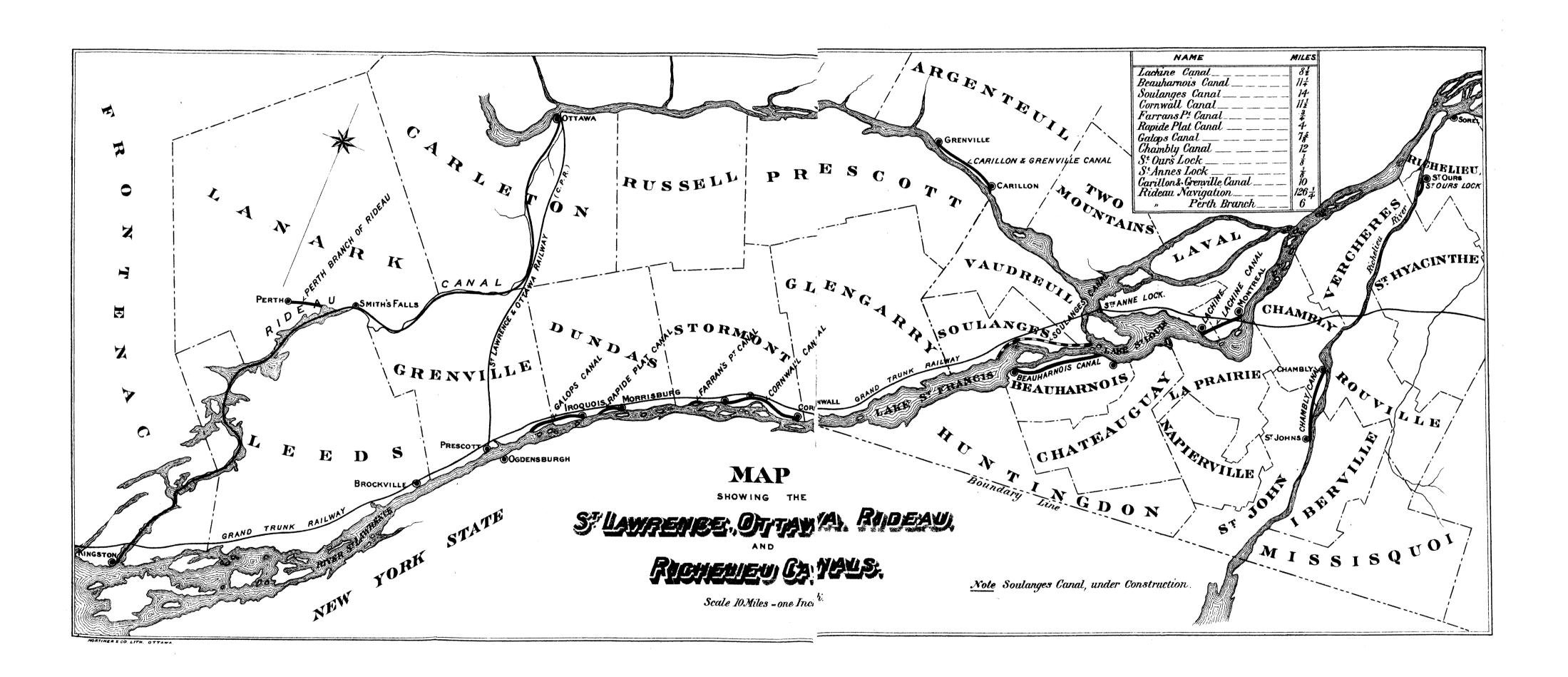


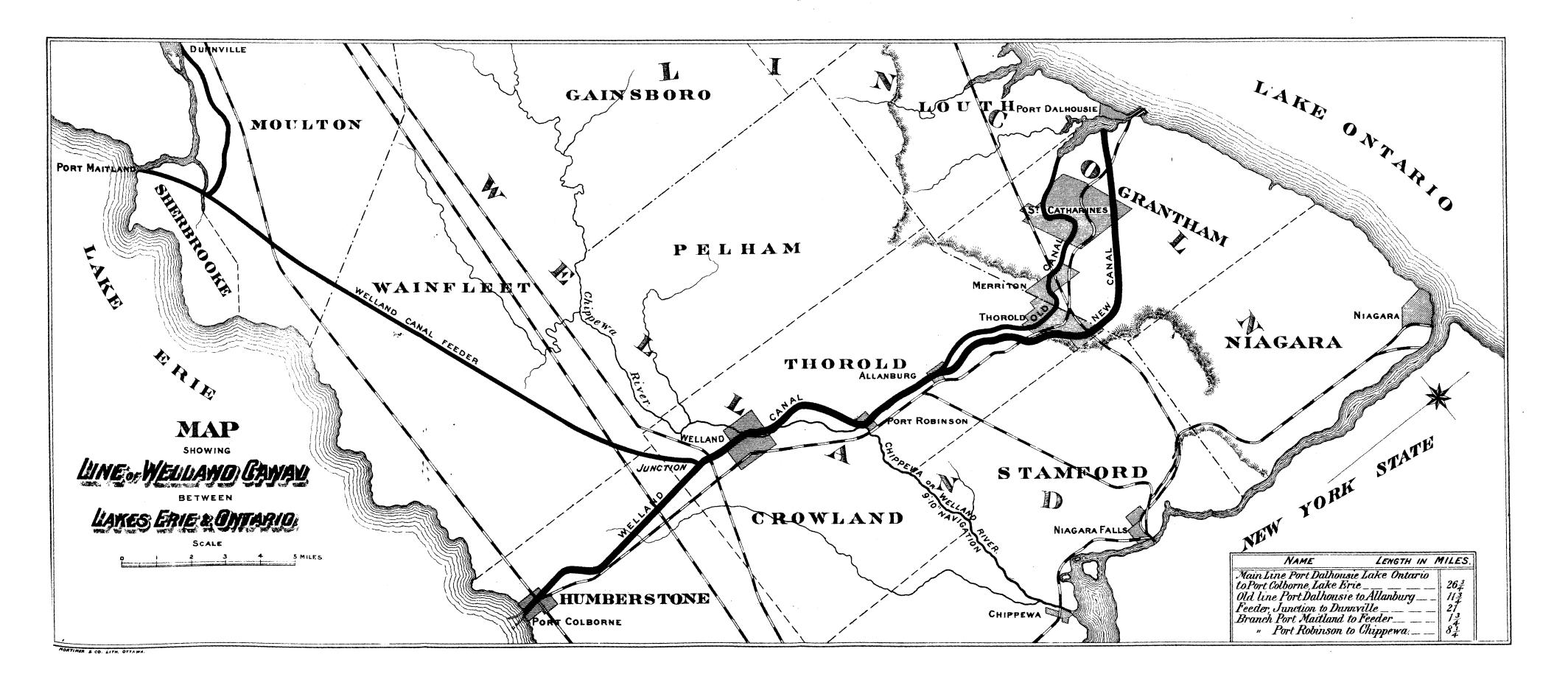


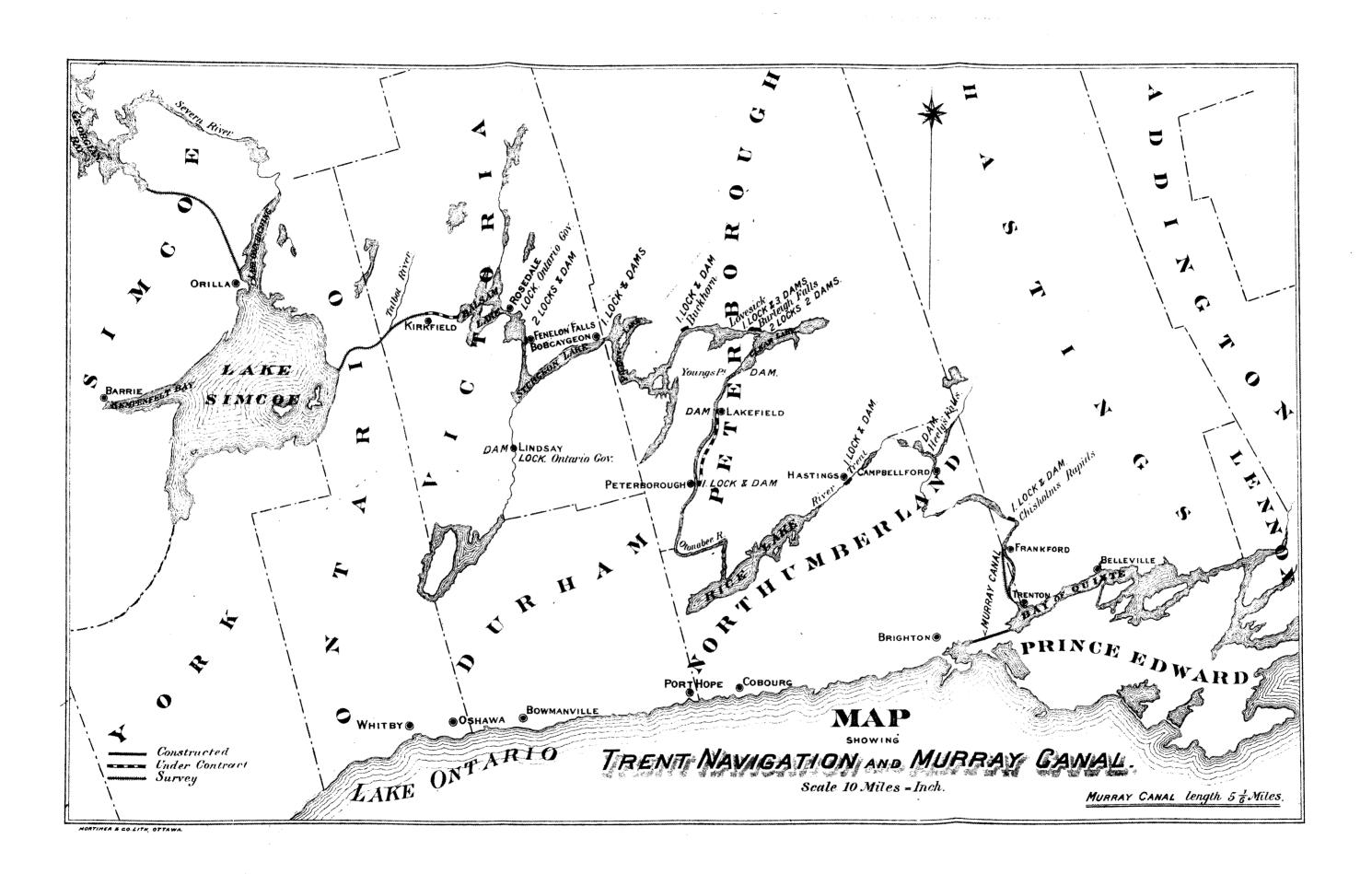


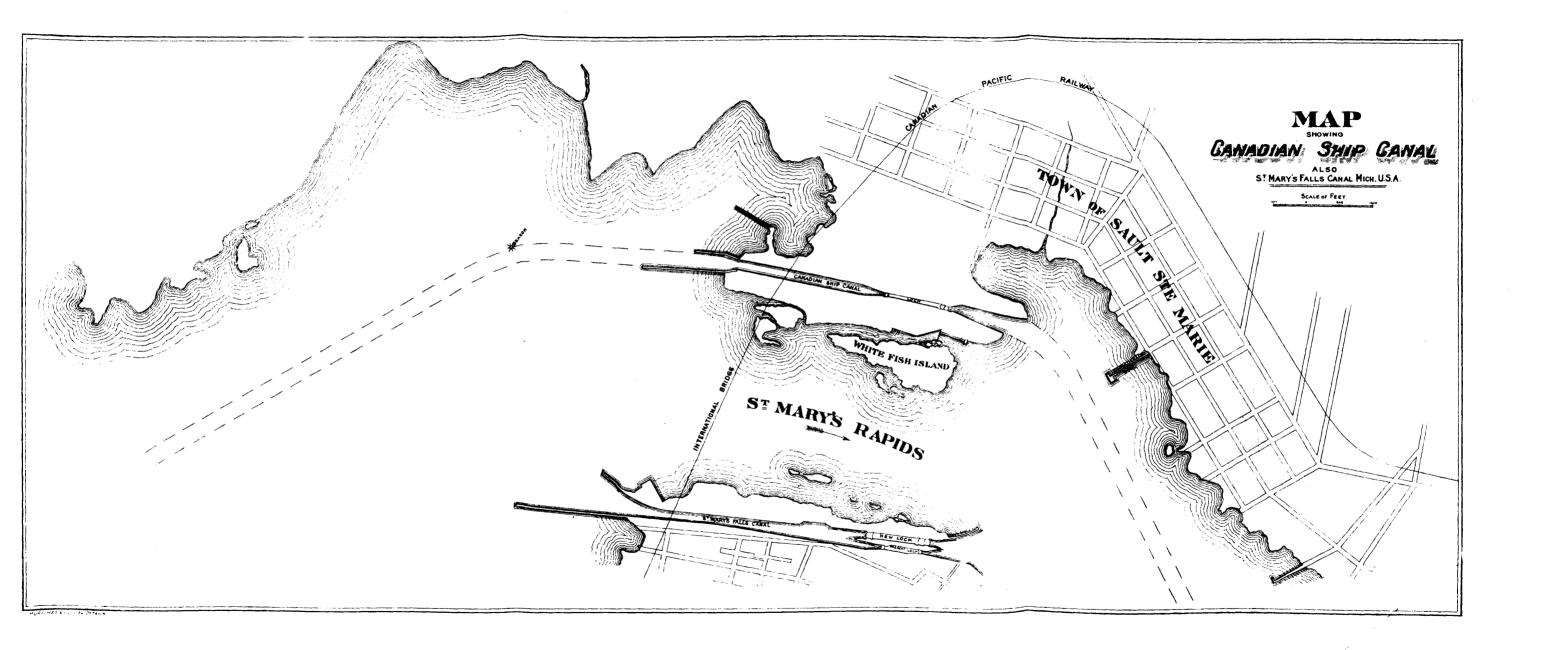












PART I

REPORT OF THE CHIEF ENGINEER

COMPRISING REPORTS OF

GENERAL MANAGER OF GOVERNMENT RAILWAYS

AND

SUPERINTENDENTS OF CANALS

CHIEF ENGINEER'S REPORT.

DEPARTMENT OF RAILWAYS AND CANALS,
OFFICE OF THE CHIEF ENGINEER,

OTTAWA, 8th November, 1896.

SIR,—I have the honour to submit my annual report for the fiscal year ended 30th June, 1896, covering, however, works of construction up to the present date; accompanying it are the following:—

First.—The annual report of the General Manager of the Government Railways, attached to which are the reports of the Chief Engineer and Mechanical Superintendent of the Intercolonial Division, and the report of the Superintendent of the Intercolonial Division, and the report of the Superintendent of the Prince Edward Island Division, with statements of accounts prepared by the Accountants of these roads. (Part I.)

Second.—The annual reports of the Superintending Engineers of the several canals, and of the Inspector of Canals Revenue. (Part I.)

Third.—The annual report of the Engineer superintending the work in British Columbia between Savona's and Yale on the Canadian Pacific Railway underthe award of the arbitrators.

Fourth.—A statement of the condition of the subsidies granted in aid of the construction of railways: also a list of Railway Subsidy Acts. (Part III.)

Fifth.—Statement of contracts intered into during the year, prepared by Mr. Doull. (Part IV.)

Sixth.—Statement of water powers and other public property leased by the department during the year, prepared by Mr. Doull. (Part IV.)

Seventh.—Statement of property purchased or damaged during the year, prepared by Mr. Doull. (Part IV.)

Eighth.—Agreements respecting subsidies in aid of construction of railways entered into during the year, prepared by Mr. Doull. (Part IV.)

Ninth.—The canal statistics for the season of navigation of 1895, compiled by Mr. Devlin. (Part V.)

Tenth.—The railway statistics for the year ended 30th June, 1896, compiled by Mr. Ridout from returns prepared by the railway companies. (Part VI.)

The following table shows the length of the Government railways in operation on the 30th June, 1896:

INTERCOLONIAL DIVISION.

INTE	RCOLONIAL DIVISION.		
		Miles.	Total miles.
Chaudière Junction to I	Halifax	678	mnes.
Moncton to St. John	89		
Truro to Sydney	217		
Oxford Junction to Pic	70		
Chaudière Junction to I	évis	8	
Lévis to St. Charles Jur	nction via Harlaka	14	
Dalhousie Junction to 1	Dalhousie	7	
Derby Junction to India	intown	14	
Painsec Junction to Ind	liantown	11	
Pugwash Junction to P	ugwash	5	
	Brown's Point	12	
North Sydney Junction	to North Sydney	5	
	Landing	7	
	****	5	
			1,142
,	FREIGHT BRANCHES.		
TO: '\ 1 T TYTE 6	D l		
•	Branch	4	
	do	2	
	do ,	2	
	do	1	
• •	do	1	
	do	$\frac{1}{2}$	
	do	1	
Halifax Cotton Factory	Branch	1	
			$12\frac{1}{2}$
Total length of the	Intercolonial Railway	• • : •	1,1541
-	. •		. 4
W	INDSOR BRANCH.		
Windsor Junction to W	indsor		32
		••••	
PRINCE EI	OWARD ISLAND DIVISION	•	
Carrie to Timish		100	
Manual Stampet to Coope	······	168	
	getown	24	
	ty Junction	5	
Albartan to Caramana	pe Traverse	13	
Alberton to Cascumpec	Wharf	1	0.7.7
	· ·		211
Total length of G	overnment railways		1,3971
3		=	=====

The result of the year's operations of the Government railways may be stated as f_{ollows} :—

Name of Railway.	Mileage in operation.		Amount.	Profit.	Loss.
Intercolonial Division	1,142	Earnings	\$ cts. 2,957,640 10	\$ ets.	\$ cts.
Windsor Branch	32	Working expenses	3,012,827 62 36,561 83 16,476 46		55,187 52
Prince Edward Island Division	211	Earnings	146,476 54 225,138 56	20,085 37	78,662 02
Total miles	1,385	Deduct profit from loss Net loss		Í	133,849 54 20,085 37 113,764 17

The maintenance of the road and rolling stock has received careful attention, and both road and rolling stock are in efficient condition, and the business of the road has been closely looked after.

The gross earnings of the Government railways for the last two years compare as follows:

				=
	1894-9	95.	1895-96	3.
	*	cts.	8	cts.
Intercolonial Division.	2,940,71	7 95	2,957,640 36,561	10
Prince Franch	39,07	7 64	36,561	83
Intercolonial Division. Windsor Branch Prince Edward Island Division.	149,65	4 78	146,476	54
Total	3,129,45	0 37	3,140,678	47

Showing an increase in the gross earning of \$12,228.10.

The gross working expenses of the Government railways for the last two years compare as follows:—

·	1894-95.	1895-96.
Intercolonial Division. Windsor Branch. Prince Edward Island Division. Total	\$ cts. 2,936,902 74 14,640 07 232,905 19 3,184,448 00	\$ cts. 3,012,827 62 16,476 46 225,138 56 3,254,442 64

Showing an increase in working expenses for the year, compared with the previous year, of \$69,994.64, which is made up of the following:—

	10010		1005.04			Diffe	rence.	
	1894-9	о.	1895-96	Ď.	Incre	ıse.	Decrea	ase.
	\$ /	cts.	*	cts.	*	cts.	*	cts.
Locomotive power	1,108,697	53	1,047,967				60,730	0 26
Car expenses	685,164		694,810		9,64			
Maintenance of way and works	795,707		890,218		94,51			
Station expenses	397,251		411,697		14,44			
General charges	197,626	98	209,748	81	12,12	L 83		
	3,184,448	00	3,254,442	64	130,72 60,73		60,73	0 26
Net increase.					69,99	4 64		

INTERCOLONIAL DIVISION.

The ocean passenger traffic via the port of Halifax shows a small increase for the winter season of 1895-96 as compared with the previous winter season, whereas its freight shows a decrease of about 33 per cent.

Comparative Statement of ocean-borne passenger business done at the port of Halifax during the winter seasons of 1894-95 and 1895-96.

Name of Steamer.	1894-95. No. of Passengers.		gers.	Name of Steamer.	1895-96. No. of Passengers.			
	1st Class.	2nd Class.	Total.		1st Class.	2nd Class.	Total.	
Carthagenian. Oregon Numidian Labrador. Assyrian Mongolian Vancouver Corean Laurentian Pomeranian. Parisian Sarnia	4 41 58 77 10 32 52 Nil. 25 3 12	45 337 457 457 344 210 168 458 15 253 69 279 126	49 378 515 421 220 200 510 15 278 72 291	Numidian Salvador Mongòlian Vancouver Laurentian Parisian Scotsman	49 61 25 66 43 21 37	479 491 297 293 502 493 570	528 552 322 359 545 514 607	
Total	332	2,761	3,093	Total	302	3,125	3,427	

Of the 3,093 passengers in 1894-95, 1,746 travelled via St. John by the Canadian Pacific Railway and 1,347 travelled via Chaudière by the Grand Trunk Railway.

Of the 3,563 passengers in 1895-96, 2,197 travelled via St. John by the Canadian Pacific Railway, and 1,366 travelled via Chaudière by the Grand Trunk Railway.

COMPARATIVE STATEMENT of ocean-borne freight traffic during the winter seasons of 1894-95 and 1895-96.

	Win	ter of 189	4-95.		Win	ter of 189	5-96.
Name of Line of Steamers.	Measure- ment tons.	Weight tons.	Total tons.	Name of Line of Steamers.	Measure- ment tons.	Weight tons.	Total tons.
Illan Line from Liver-	1.000	1.007	9 000	Allan Line from Liver-	1 101	1 400	0.000
pool	1,903	1,997	3,900	pool Dominion Line from	1,121	1,499	2,62
verpoolanada & Newfoundland	547	348	895	Liverpool	362	401	76
from Liverpool	82	223	305	land from Liverpool. Furness Line from Lon-	115	1,138	1,25
Consider Line from	1,022	457	1,479	don	601	717	1,31
Glasgow Iansa Line from Ant-	1,252	1,836	3,088	Glasgow	155	347	, 50
werp. Beaver Line from Liver-	Nil.	Nil.	Nil.	werp Beaver Line from Liv-	Nil.	Nil.	Nil
pool	Nil.	Nil.	Nil.	erpool Société Columba Belge	Nil.	Nil.	Nil
de Navigation	12	243	255	de Navigation	Nil.	Nil.	Nil
Total	4,818	5,104	9,922	Total	2,354	4,102	6,45

The above statement shows a decrease of 3,466 tons of ocean-borne freight traffic for the winter season of 1895-96 as compared with the winter season of 1894-95.

The following is a statement of the quantity and classes of the rolling stock purchased on capital account up to the 30th June, 1896:—

		Pass	enge	r Car	Stoc	k.	Vans.	:	ĺ	three ds.				hg.
	Engines.	1st Class Sleeping and Parlour.	1st Class.	2nd Class Sleeping.	2nd Class.	Baggage and Mail.	Conductors' Va	Box and Cattle Cars.	Platform Cars.	Coal Cars of thi several kinds.	Snow Ploughs.	Wing Ploughs.	Flangers.	Rotary Snow Ploughs.
	204	15 5	92	7	94	24 39		2,071 103	2,209	999 418 768	44 		21	
Total	204	20	92	 7	94	63	99	2,174	2,209	2,185	44	10	21	_

The following is a statement of the quantity and classes of rolling stock which have been rebuilt during the year ended 30th June, 1896, at the cost of revenue to maintain the stock:—

	Passe	enge	r Car	Sto	ek.	ns.	Cars.		ıree			ghs.
 Engines.	1st Class Sleeping and Parlour.	1st Class.	2nd Class Sleeping.	2nd Class.	Baggage and Mail.	Conductors' Va	Box and Cattle	Platform Cars.	Coal Cars of the several kinds.	Snow Ploughs.	Wing Ploughs.	Rotary Snow Ploughs.
			-									
9		٠					90	135	168	2	1	

The following table shows the working expenses, gross earnings, the tonnage of freight and number of passengers carried each year since 1st July, 1876, when the road was first opened as a through line to the west:—

Year.	Average Miles in Operation.	Working Expenses.	Gross Earnings.	Profit.	Loss.	Tons of Freight carried.	No. of Passengers carried.
		\$ cts.	\$ cts.	\$ cts.	\$ cts.		
1876-77 1877-78 1878-79 1879-80 1880-81 1881-82 1882-83 1883-84 1884-85 1885-86 1886-87 1887-88 1888-99 1889-90 1891-92 1892-93 1893-94 1894-95	714 714 829 840 840 887 941 946 966 971 971 1,094 1,142 1,142	1,661,673 55 1,816,273 56 2,010,183 22 1,603,429 71 1,759,851 27 2,069,657 48 2,360,873 27 2,377,433 62 2,519,751 56 2,583,999 67 2,922,369 67 2,922,369 67 3,366,781 74 3,244,647 73 3,560,575 74 3,662,341 94 3,439,377 00 3,045,317 50 2,981,671 98 2,936,902 74	1,154,445 33 1,378,946 78 1,294,009 69 1,506,298 48 1,760,393 92 2,079,262 66 2,370,910 10 2,384,414 92 2,441,203 66 2,450,093 88 2,660,116 93 2,983,336 05 2,967,801 00 3,012,739 87 2,977,395 38 2,945,441 97 3,065,499 09 2,987,510 27 2,940,717 95	542 65 9,605 18 10,547 83 6,981 30 20,181 59 5,838 29 3,815 21	78,547 90 133,905 79 262,252 69 276,846 73 547,835 87 684,946 64 493,935 03	421,327 522,710 510,861 561,924 725,777 838,966 970,961 1,009,237 989,936 1,023,788 1,143,020 1,288,823 1,218,877 1,368,819 1,304,534 1,264,575 1,388,080 1,342,710 1,267,816	613,420 618,957 640,101 581,483 631,245 7779,994 878,600 944,636 957,228 932,880 942,784 1,040,163 1,136,272 1,219,233 1,298,304 1,297,732 1,292,878 1,301,062 1,352,667

The following table shows the number of tons of coal carried over the Intercolonial Railway from the Nova Scotia collieries to Chaudière Junction and St. John for points west thereof, and to local stations in each year since the commencement of the trade in 1878-79:—

	For th	e West.	m. r	•
Year.	Via Chaudière.	Via St. John.	To Local Stations.	Total.
1876-77 1877-78 1878-79 1879-80 1880-81 1881-82 1881-82 1883-84 1884-85 1885-86 1886-87 1887-88 1888-89 1889-90 1890-91 1891-92 1892-93 1893-94 1894-95 1894-96	300 1,097 6,102 18,015 12,837 22,014 133,440 171,170 192,871 183,704 160,026 164,453 113,996 35,447 136,868 102,273 67,082	4,022 11,779 22,206 19,534 1,773 21,150 27,536 36,228 27,923 25,126 39,213 5,918 3,775 8,028 7,865 9,681	103, 420 97,043 112,232 135,369 174,483 218,364 227,380 252,014 213,791 215,272 233,178 309,727 338,538 366,967 344,829 392,441 402,653 367,390 310,253 369,708	103, 420 97, 043 112, 532 136, 466 184, 607 248, 158 262, 423 293, 562 349, 004 407, 592 453, 585 529, 659 526, 487 556, 546 498, 038 433, 806 543, 296 478, 691 385, 200 482, 513

It thus appears that the largest tonnage of coal carried over the road for the west was in the year 1886-87, when it reached 220,407, since which the through coal traffic for points west of the Intercolonial Railway has been on the decline.

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TABLE showing the number of bushels of grain carried during each year for shipment at Halifax since the road was opened as a through line to the west.

	Bush	els.			Bush	els.	
Year.	Via Chaudière.	Via St. John.	Total.	Year.	Via Chaudière.	Via St. John.	Total.
				Brought forward	794,423		794,42
876-77 877-78 878-79 879-80 880-81 881-82 882-83	21 011			1886-87. 1887-88. 1888-89. 1889-90. 1890-91. 1891-92. 1892-93.	575,880 69,021 129,725 502,012 148,803 745,997 155,306	69,534 519,500 197,669	575,880 69,021 129,728 502,013 218,337 1,265,497 352,978
883–84 884–85 885–86	79 990		73,389 300,901 389,122	1893–94. 1894–95. 1895–96.	Nil. Nil. Nil.	8,026 Nil. Nil.	8,02 Nil. Nil.
Carried forward.	794,423		794,423	Total	3,121,167	794,729	3,915,89

TABLE showing the number of barrels of flour carried during each year since the road was first opened as a through line to the west.

Year.	Barrels.	Year.	Barrels.
876-77 877-78. 877-78. 878-79. 879-80. 880-81. 881-82. 881-82. 882-83. 883-84. 883-84.	254,710 657,778 630,329 533,248 672,310 692,095 983,916 817,134 935,977 761,127	1886-87. 1887-88. 1888-89. 1889-90. 1890-91. 1891-92. 1892-93. 1893-94. 1894-95. 1895-96.	763,894 871,838 948,514 1,116,050 1,013,129 954,015 856,913 944,967 938,351 822,097

TABLE showing the number of bushels of grain carried during each year since the road was first opened as a through line to the west.

Year.	Bushels.	Year.	Bushels.	
1876-77. 1877-78. 1878-79 1879-80. 1880-81. 1881-82. 1881-82. 1882-83. 1883-84. 1883-84.	534,021 565,678 560,253 1,195,601	1886-87 1887-88 1888-89 1889-90 1890-91 1891-92 1892-93 1893-94 1894-95	1,018,395 1,219,035 1,526,158 2,610,202 2,890,921 3,776,677 1,514,619 1,304,684 1,036,384 1,064,385	

TABLE showing the quantity of lumber in feet carried during each year over the road since it was first opened for traffic as a through line to the west.

Year.	Feet. Year.		Feet.	
1876-77	58,096,474	1886-87.	161,801,763	
1877-78	56,626,547	1887-88.	197,755,272	
1878-79	55,626,696	1888-89.	199,507,777	
1879-80	55,462,654	1889-90.	210,886,071	
1880-81	72,841,388	1890-91.	184,188,324	
1881-82	78,356,418	1891-92.	175,474,340	
1882-83	104,633,417	1892-93	181,211,013	
1883-84	131,120,948	1893-94	200,507,949	
1884-85	138,493,675	1894-95	202,247,269	
1885-86	117,186,512	1895-96	226,332,715	

TABLE showing the number of live stock carried during each year over the road since it was first opened for traffic as a through line to the west.

Year.	Number.	Year.	Number.
1876 77. 1877-78. 1878-79. 1879-80. 1880-81. 1881-82. 1882-83. 1883-84. 1884-85. 1885-86.	34,414	1886-87	82,896
	46,498	1887-88	98,302
	47,584	1888-89	85,960
	70,990	1889-90	86,771
	61,574	1890-91	95,529
	73,479	1891-92	87,889
	68,338	1892-93	93,369
	60,090	1893-94	79,203
	70,785	1894-95	72,106
	74,498	1895-96	64,051

TABLE showing the number of tons of ocean-borne goods to and from Europe, via the port of Halifax, carried over the road during each year since it was first opened for traffic as a through line.

Year.	Via Chau- dière to and from the West.	Via St. John to and from the West.	To and from local Stations.	Total.
1876-77	Tons.	Tons.	Tons.	Tons.
1877-78			3,405	18,354
1878-79	21,628		2,643	24,271
1879-80	1		4,952	26,025
1880-81			3,334	18,788
1881-82			4,168	25,775
1882-83			7,911	32,786
1883-84	19,696		6,533	26,229
1884-85	22,787		8,405	31,192
1885-86			8,216	21,680
1886-87	1 -0'000		9.811	26,734
1887-88			8,878	50,742
1888-89	17,340		11.481	28,821
1889-90			11,730	21,625
1890-91	9,923		10,764	20,687
1891-92	9,719	17	23,835	33,571
1892-93	7,295	100	12,319	19,714
1893-94	3,023	204	13,455	16,682
1894–95		213	10,399	17,361
1895–96	3,767	314	16,748	20,829

TABLE showing the number of tons of raw and refined sugar carried over the road during each year since it was first opened as a through line.

		Raw	Sugar.		Refined Sugar.				
Year.	To Chaudière for the West.	To St. John for the West.	To Local Stations.	Total.	To Chaudière for the West.	To St. John for the West.	To Local Stations.	Total.	
•	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	
1876-77 1877-78	340 186			340 186					
l878~79	1,041			1,041					
1879–80 1880–81	12,220 13.872	• • • • • • • • •	• • • • • •	$12,220 \\ 13,872$	4,022	• • • • • • • • •	2,902	6,924	
LOO 1 - X2	14,256		1,290	15,546	7,146		3,607	10,753	
100Z~XX	9,465		508	9,973	11,126		5,497	16,623	
LOOD-N4	13,778		3,068	16,846	14,543		7,265	21,808	
1884-85 1885-86	10,381		3,661	14,042	18,024		8,445	26,469	
LOOD~87	4,394 20,450		3,998 8,500	8,392 28,950	7,660 15,044		5,858 8,395	13,518 23,439	
1001-XX	14,320		14,085	28,405	21,641	• • • • • • • •	7,133	28,774	
LOOM-NU	24,358		7,160	31,518	12,955		11,120	24,075	
1009-90	7,390		8,913	16,303	6,778		6,125	12,903	
10901-91	5,088	4,670	8,215	17,973	10,130	468	5,996	16,594	
1891 -92 1892-93	7,142	3,960	10,535	21,637	12,633	7,674	12,414	32,721	
LO93~94	Nil. Nil.	Nil. Nil.	10,137 6,775	$10,137 \\ 6,775$. 8,327 17,729	6,456 6,967	7,840 8,885	22,623 33,581	
LOD495	Nil.	Nil.	10.342	10.342	13,351	15,819	4,695	33,86	
1895-96	Nil.	Nil.	9,824	9,824	15,138	13,734	11,309	40,18	

TABLE showing the number of tons of fresh and salt fish carried over the road during each year since it was opened as a through line.

	1	Fresh	Fish.		Salt Fish.				
Year.	To Chaudière for the West.	To St. John for the West.	To Local Stations	Total.	To Chaudière for the West.	To St. John for the West.	To Local Stations.	Total.	
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	
376-77	530	921	527	1,978	551	1,848	802	3,201	
		1,015	474	2,085	898	1,644	805	3,347	
378-79 379-80	471	1,336	817	2,624	988	1,038	1,048	2,974	
		1,362	453	2,334	1,612	2,238	959	4,809	
		1,879	920	3,297	2,418	937	1,051	4,400	
		1,619	957	3,051	4,031	1,066	2,487	7,58	
		384	393	1,319	3,299	759	1,354	5,41	
		1,682	412	2,932	1,322	1.143	1,224	3,68	
	1,062	1,885	484	3,431	3,563	3,600	1,596	8,75	
385-86 386-87	1,669	1,645	902	4,216	1,680	2,047	3,376	7,10	
386-87 387 90		1,572	2,008	4,858	3,236	569	1,747	5,55	
	1,533	1,477	1,031	4,041	2,617	476	1,099	4,19	
388-89	2,474	2,000	1,870	6,344	3,070	7,746	2,994	13,81	
	2,235	1,787	2,111	6,223	2,449	847	3,288	6,58	
		2,788	1,848	6,665	1,953	1,917	3,236	7,10	
	1,367	1,746	547	3,660	1,946	928	1,889	4,76	
		1,875	3,340	6,898	3,262	1,811	2,176	7,24	
		2,192	2,224	6,375	2,921	1,814	2,962	7,69	
		3,726	1,160	6,892	2,075	1,849	5,285	10,20	
395-96	1,966	3,059	1,319	6,344	1,863	1,087	2,791	5,74	

Forty-five miles of the 56-lb. steel rails have been lifted and replaced at the cost of revenue by 4,728 tons of 67-lb. steel rails, and 411,083 ties have been renewed.

CAPITAL ACCOUNT.

Total cost of road and equipment up to 30th June, 1896	;	
Road, &c	\$47,469,426	82
Rolling stock		
Total	\$55,277,034	63

The Dartmouth Branch connected with the Trunk Line at Windsor Junction, a distance of 11½ miles, is nearly completed.

The freight yard and warehouse accommodation at Halifax being too limited for the local traffic, and being at an inconveniently long distance from the centre of the city, increased yard and warehouse accommodation has been provided on the east side of Water street at deep water terminus.

Both the road and rolling stock are in a high state of efficiency.

WINDSOR BRANCH.

This road is continued to be operated by the Dominion Atlantic Railway Company, formerly the Windsor and Annapolis Railway Company, the company receiving two-thirds of the gross earnings for working the traffic, and the Government one-third of the gross earnings for maintaining the way and works.

Two miles of old iron rails have been lifted and replaced by steel rails of 56 lbs. to the yard.

The road has been maintained in efficient condition.

Table showing the earnings and its division between the Windsor Branch and the Main Line of the Intercolonial Railway between Windsor and Halifax, the maintenance expenses and net earnings of the Windsor Branch for each year since 1880.

Year.	Miles in Opera- tion.	One-third Gross Earnings.	Proportion of one-third Gross Earn- ings credited to Line Wind- sor Junction to Halifax.	Proportion of one-third Gross Earn- ings credited to the Wind- sor Branch.	Maintenance Expenses.	Profit.	Loss.
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
1880-81	32	28,434 29	7,217 76	21,216 53	20,502 26	714 27	
1881-82	32	28,461 07	7,407 88	21,053 19	13,099 55	7,953 64	1
1882-83	32	32,199 77	8,085 88	24,113 89	23,103 93	1,009 96	1
1883-84	32	30,428 39	7,409 46	23,018 93	22,140 86	878 07	1
1884-85		32,246 30	7,794 95	24,451 35	18,751 96	5,699 39	1
1885-86	32	31,185 63	7,527 52	23,658 11	19,229 49	4,428 62	1
1886-87	32	33,564 58	8,237 00	25,327 58	26,042 33		714 75
1887-88	32	32,242 85	7,689 30	24,553 55	24,040 33	513 22	1,
1888-89	32	37,313 43	8,941 32	28,372 11	20,856 50	7,515 61	1
1889-90	32	39,544 19	9,381 73	30,162 46	18,982 82	11,179 64	
1890-91	32	39,519 56	9,284 43	30,235 13	28,931 71	1,303 42	1
1891-92	32	42,891 23	9,382 38	33,508 85	19,514 37	13,994 48	1
1892-93.	32	43,901 28	9,585 17	34,316 11	16,889 95	17,426 16	
1893-94.		41,834 70	8,859 23	32,975 47	17,645 09	15,330 38	
1894-95.	32	50,703 84	11,626 20	39,077 64	14,640 07	24,437 57	1
1895-96	32	47,456 74	10,894 91	36,561 83	16,476 46	20,085 37	1

PRINCE EDWARD ISLAND RAILWAY.

CAPITAL ACCOUNT.

0.11.11.12 12.00001.		
Total cost of road and rolling stock up to the 30th June, 18	396 :—	
Road, &c §	\$3,291,836	3 8
Rolling stock	458,729	00
Total	\$3,750,565	38

The rolling stock provided on capital account consists of :-

	Passenger Car Stock.									
Engines.	1st. Class Car.	2nd Class Cars.	Bag- gage and Smok- ing Cars.	Official Cars.	Box and Cattle Car.	Platform Cars.	Con- ductors' Vans.	Pay Cars.	Snow Ploughs	Flangers
21	17	16	3	1	175	125	3	1	8	7

Statement of rolling stock rebuilt during the year—1 postal and baggage cur, 1 snow plough, 1 flanger.

The following table shows the working expenses, the gross and net earnings, the tons of freight and number of persons carried each year since the 30th June, 1875, when the road was first opened for traffic:—

Year.	Miles in operation.	Working Expenses.	Gross Earnings.	Loss.	Tons of Freight carried.	No. of Passengers carried.
		S cts.	\$ cts.	S cts.	i	
1875–76	199	214,930 43	118,060 96	96,869 47	28,358	93,964
1876-77		228,595 25	130,664 92	97,930 33	41,039	93,478
1877–78.	199	221,599 49	135,899 60	85,699 89	38,923	111,428
1878-79	199	223,313 12	125,855 99	97,457 21	38,668	105,046
1879-80	199	164,640 55	113.851 11	50,789 44	37,208	90,533
1880-81		203,122 88	131,131 43	71,991 45	45,336	102,937
1881-82	199	228,259 97	137,267 54	90,922 43	48,315	118,436
1882-83	199	252,808 41	146,170 42	106,637 99	51,920	117,162
1883-84	199	236,428 13	144,504 12	91,924 01	51,841	118,988
1884-85	211	211,207 01	158,588 06	52,618 95	57,346	130,423
1885-86	211	216,744 34	155,584 36	61,159 98	57,913	120,374
1886-87	211	204,237 37	155,303 37	48,934 00	53,589	103,067
1887-88	211	229,639 95	158,363 62	71,276 33	59,603	131,246
1888-89	211	247,559 44	171,369 56	76,189 89	55,682	152,780
1889-90		266,485 85	160,971 78	105,514 07	51,604	133,099
1890-91		257,990 08	174,258 05	83,732 03	59,511	145,508
1891–92	211	289,706 38	157,442 69	132,263 69	51,065	139,389
1892-93	211	226,422 17	162,690 42	63,731 75	56,718	132,111
1893-94		226,891 06	158,533 83	68,357 23	53,577	123,727
189495	211	232,905 19	149,654 71	83,250 41	48,325	125,089
1895-96	211	225,138 56	146,476 54	78,662 02	46,395	122,586

Twelve and three-quarter miles of old iron track were renewed with steel rails weighing 50 lbs. to the yard, so that the track now stands:—

Steel rails (50 lbs. to yard)	$126\frac{1}{2}$ $84\frac{1}{2}$
Total length of road	211

One thousand tons of 50-lb. steel rails were used tor renewing the $12\frac{3}{4}$ miles of track. The road and rolling stock are in good running condition.

CAPITAL ACCOUNT.

CANADIAN PACIFIC RAILWAY.

I have recently made a trip over the Canadian Pacific Railway from Ottawa to North Bend, and examined the work done and in course of execution under the arbitrators' award.

On the division between Savona's Ferry and Emory's Bar, the award work is nearly completed, which has given permanency to the character of the road, and the alignment of the road has been greatly improved, the amount of the award having been faithfully and profitably employed.

he total award	f the arbitrators in favour of the Canadian Pa	cific Railway	
	tement shows the progress made with the work	from time to	\$579,255
	one previous to date of award, July, 1891	\$202,675 20	
mount of work	ince done:	11 000 00	
From July, 18	91, to February, 1892.	. 11,966 69	
	892		
March	"		
April			
May			
June			
July	4		
August September	"		
October	"		
November	"		
December	66		
January,	1893		
February	66		
March	"		
April	"		
May	"		
June	44		
July	44	. 6.269 49	
August	44	7,889 02	
September	44	11.954 28	
October	46	. 9,398 85	
November	"	. 1,920 40	l .
December	"		
January,	189 4		
February	44 46		
March			
April			
May			
June			'
July			
August		8,919 75	
September	**** ** ** ****************************		
October November	"	, , , , , , , ,	
December	"		
	1895	27.1	
January, February	44	****	
March	46	2711	
April	"	390 56	
May	"	4 00	
June	46		
July	46	4,689 27	
August	"	= 0	
September	"		
October	44	10,000 ==	
November	46	3,237 63	
December	"	. 777 70	
January,	1896	. Nil	
February	"		
March	"		
		. 1,800 84	
April May		. 4,983 97	

Carried forward...

	Brought forward	\$553,954	13 \$579,255	20
$egin{array}{c} \mathbf{July}' \\ \mathbf{August} \end{array}$	1896	3,553 3,183	80 96 06	3 1 5
	Balance		\$ 11,249	05

GENERAL REMARKS.

In addition to substituting solid embankments and steel bridges for a very large number of wooden trestle and truss bridges the company have equipped 3,501 freight cars, with self couplers, and 1,052 freight cars with automatic air brakes, indicating a disposition on the part of the management to meet the requirements of a transcontinental railway, in making their road bed and permanent way substantial and solid, while keeping pace with the times, by the adoption of useful modern improvements in the equipment of their rolling stock.

The following are the traffic operations of the Canadian Pacific Railway for each year ended 30th June, since the road first opened through to the Pacific Coast, for traffic, in June, 1886:

	1886-87.	1887-88.	1888-39.	1889 - 90.	1890-91.
	Miles, 4,274.	Miles, 4,662.	Miles, 4,974.	Miles, 5,086.	Miles, 5,537.
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Earnings	10,650,254 08	12,711,010 01	13,016,611 81	15,572,985 62	18,672,174 04
Working expenses	7,299,045 16	9,034,360 27	8,997,312 05	9,424,166 45	11,538,133 53
Net revenue	\$3,351,208 82	\$3,676,649 74	\$4,019,299 76	\$6,148,819 17	\$7,134,040 51
No. Passengers carried	1,949,215	2,135,735	2,457,306	2,685,730	2,971,774
Tons Freight carried	2,118,319	2,321,957	2,636,121	3,006,684	3,675,113
	1891-92.	1892-93.	1893-94.	1894–95.	1895 96.
	Miles, 5,537.	Miles, 5,782.	Miles, 6,094.	Miles, 6,159.	Miles, 6,211
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Earnings	20,789,104 17	20,795,304 66	19,357,098 05	17,912,273 60	20,175,384 99
Working expenses	12,441,126 28	12,665,587 12	12,447,808 03	11,282,506 00	12,202,360 50
Net revenue	\$8,347,977 89	\$8,129,717 54	\$6,909,290 02	\$6,629,767 60	\$ 7,973,024 49
No. Passengers carried	3,150,684	3,335,598	3,153,340	2,892,995	3,036,619
Tons Freight carried	1	4,266,348	4,014,915	3,720,567	4,576,632

CAPITAL ACCOUNT—CANALS.

SAULT STE. MARIE CANAL.

Construction.

The construction of this canal may now be said to have been completed, and is equipped except as to the completion of the stone residence for the superintendent and the providing of a few tools, etc., for the workshops. It may, however, be found advisable to extend the crib piers at each entrance, but the necessity for this can only be determined after some further experience in operating the canal. No doubt the appearance of the canal grounds would be much improved by having the spoil banks levelled down, and it may possibly at some future day be considered desirable to have the work undertaken.

The final estimates of the completed contracts have been prepared, with the exception of the contract for the lift-lock and prism at which the engineers are still engaged.

The lock is 900 feet long, 60 feet wide, with 20 feet 4 inches of water on the mitre sill. The entrance channels have a depth of 18 feet of water.

Probable cost of construction and equipment, including deepening approaches to 20 feet in depth of		
water	\$4,000,000	00
Amount paid up to 30th June, 1896\$3,448,011 83		
Amount paid up from 30th June to 1st		
November, 1896		
	3,490,207	86
Balance	\$ 509,792	14

SOULANGES CANAL.

Very slow progress has been made with the work on this canal during the year and up to date. The three 10-feet iron cylindrical culverts carrying the Rouge, Delisle and La Graisse Rivers under the canal have been completed, and appearances indicate that the work on Sections Nos. 3, 8, 9, 10 and 11 will be finished next summer, and that Section No. 13 will be completed during the season of 1898. The work on Section No. 12 has not been touched since 1893, and as there are about 95,000 cubic yards of rock to be shifted, it is important that necessary measures should be taken to ensure the work being prosecuted with vigour next spring. Little progress has been made with the work on Sections Nos. 4, 5, 6 and 7 during the last past season, and as there remains to be done a large amount of masonry and excavation besides other classes of work, it is indispensable to the completion of these sections within the next two or three years that steps be taken to have this work pushed forward next season with energy to completion. The cause of the delay in prosecuting this work has been largely due to the contractor failing to give effect to the orders of the engineer to form the rear of the canal banks with blue clay, which it is necessary to haul a long distance, he contending it was impossible to form the embankments of such material, whereas I am of opinion the material is of a character suitable for the purpose, and that to waste it and borrow other material with which to make up the embankments would materially

enhance the cost of the work without a corresponding benefit, and I suggest that the necessary action be taken to have the work done as required by the engineers. The advancement with the lock masonry on sections Nos. 1 and 2 is such that if greater progress is not made in the future with this work, it will be very many years before the canal can be utilized. I however must admit the fault does not altogether rest with the contractor, as he has been ready to proceed with the building of the masonry with stone from a quarry which I had approved, and authorized him to work, viz., the Rockland quarry, which produces a dark gray limestone of good quality, suitable for lock work, which opinion is not shared in by the superintending engineer, who states that it is not the stone he had in his mind when the specification was being prepared, and for that reason he refused to allow the work to be proceeded with, and hence the delay in its prosecution. The stone, however, is good, and is of equal quality to the stone used generally in the locks on the other Government canals, and will, I am satisfied, be used in this work. However, there should be no unnecessary time lost in settling the matter, as it is very important that no further delay in prosecuting this work should arise. If upon the opening of the working season of 1897 the works on this canal are properly handled, with a reasonable degree of energy and are carried through to completion with spirit, I am of opinion that the canal may be completed and in running order within three years, a result much to be desired.

In compliance with instructions from the Honourable Minister, I am arranging for a reduction of the staff employed upon this canal, at the close of the present month, the condition of the work being such as to call for such reduction.

The following statement will give a general idea of the progress made with the work up to 1st October, 1896.

Sections Nos. 1 and 2.—Archibald Stewart, contractor.		
Approximate value of work under contract	\$818,400	00
Amount of progress estimates up to 1st Oct., 1896	449,441	55
Balance	\$ 368,958	45
Section No. 3.—O'Leary Bros., contractors.		
Approximate value of work under contract	\$ 230,000	00
Gross amount of progress estimates up to 1st ()ct., 1896	174,747	76
Balance	\$ 55,252	24
Sections Nos. 4, 5, 6 and 7.—George Goodwin, contractor.		
Approximate value of work under contract	\$ 890,000	00
Gross amount of progress estimates up to 1st Oct., '96	309,623	40
Balance	\$ 580,376	60
Section No. 8.—Charles Raynor, contractor.		٠
Approximate value of work under contract	\$ 250,000	00
Gross amount of progress estimates up to 1st Oct., '96	202,439	18
Balance	\$ 47,560	82

0---

Section No. 9.—Randolph McDonald, contractor.		
Approximate value of work under contract	\$ 130,000	00
Gross amount of progress estimates up to 1st Oct., '96	102,754	
Balance	\$ 27,245	50
Section No. 10.—Messrs. Rogers & Taylor, contractors.		
Approximate value of work under contract	\$ 270,000	00
Gross amount of progress estimates up to 1st Oct., '96.		
Balance	\$ 53,510	57
Section No. 11.—Messrs. Poupore, Fraser & Co., contractors.		==
Approximate value of work under contract	# 910 000	00
Gross amount of progress estimates up to 1st Oct., '96.		
oross amount of progress estimates up to 18t Oct., 90.	221,413	90
Balance	\$88,586	05
Section No. 12.—George Goodwin, contractor.		
Approximate value of work under contract		
Gross amount of progress estimates up to 1st Oct., '96.	36,617	00
Balance	\$ 233,383	00
Section No. 13.—Randolph McDonald, contractor.		
Approximate value of work under contract	# F90 000	00
Gross amount of progress estimates as to let Oct 200	\$ 530,000	70
Gross amount of progress estimates up to 1st Oct., '96		
Balance	\$ 182,551	30
Bridge over Canal—Dominion Bridge Company, contractors	,	
Value of work under contract		ΛΛ
Final estimate	\$10,267 10,267	
Tallar commune	10,207	
Balance	Nil.	==
Cement—C. J. De Sola & Francis Hyde, contractors.		·
Value of cement under contract	#30 GEE	55
Final certificate	\$39,655	
Final certificate	39,655	55
Balance	Nil	
Cement—Bellhouse, Dillon & Co., contractors.		
	040 750	00
Value of cement under contract	$\$49,750 \\ \dots \ 40,243$	77
Balance	\$ 9,506	23

Summary.

Approximate value of work under contract\$3,798,072 55 Amount of estimates of work done up to 1st Oct. '96 2,151,141 79
Balance
Based on the above named contracts, the canal is
estimated to cost, including land and damages\$5,000,000 00 Total payments up to 1st November, 1896 2,401,698 88
Balance \$2,598,301 12

At the lower entrance to this canal on sections 1 and 2 it is proposed to construct three locks with a lift of 23 ft. 4in. for each lock; they are to be constructed of massive masonry face work, backed up with concrete.

LACHINE CANAL.

CONSTRUCTION AND ENLARGEMENT.

The works being carried on under the above heading are:

- 1. Dredging between the lower entrance to the Lachine Canal and St. Gabriel Basin for 22 feet of water.
- 2. The deepening of the prism of the Lachine Canal between St. Gabriel and Lachine to a depth of 16 feet.

The dredging between the lower entrance and St. Gabriel is being executed by days' labour with the Government dredge No. 2, the work is progressing favourably.

The deepening of the prism of the canal between St. Gabriel and Lachine is under contract with Messrs. McNamee & Mann. They have been working both by day and night, and are making favourable progress with the work.

The widening of the Lachine Canal on the south side between Wellington Bridge and St. Gabriel and the building of cribwork for a wharf are completed.

For full particulars of the operations up to 30th June, 1896, I refer you to the report of the Superintending Engineer.

LAKE ST. LOUIS.

The cutting of a straight channel 300 feet wide with a depth of 16 feet of water for a distance of about four miles is being executed by the Weddell Dredging Co. They have three dredges at work, all of which are doing good service; they have executed work to the value of \$86,570.54 up to the 1st November, 1896.

TRENT VALLEY CANAL

CONSTRUCTION.

The Peterborough-Lakefield Division, extending from Lakefield towards Peterborough, is under contract, $6\frac{1}{2}$ miles with Messrs. Brown, Love & Aylmer, and $3\frac{1}{2}$ miles with Messrs. Laverdure & Corry, fair progress has been made with the works.

19

This division is estimated to cost \$780,000.

A contract was entered into with Mr. Andrew Onderdonk for the first section of 6½ miles of the Balsam-Simcoe Lake Division, extending from Balsam Lake towards Lake Simcoe, the cost of which is estimated at \$600,000. The gross amount of the progress estimates up to 1st November, 1896, is \$300,035.

The surveys and plans for the balance of the division, about $17\frac{1}{2}$ miles, are completed. On this section there is a lift lock with a lift of about 60 feet; the lift is to be made by an hydraulic ram.

The locks on this canal are to be 134 feet long, 33 feet wide, with 5 feet of water on the mitre sills, and the prism of the canal will be 50 feet wide at bottom, and 53 feet wide at water level in rock and 74 feet wide at water level in earth cutting.

MURRAY CANAL,

EQUIPMENT.

No work has yet been done towards building lockmasters' houses, store or wharf, &c., for which provision was made by Parliament.

CORNWALL CANAL.

CONSTRUCTION AND ENLARGEMENT.

These works are fast drawing to a close, and the Sheiks Island Dam section of the canal is completed,

The estimated cost of the enlargement is \$ 4,300,000

Amount paid up to 1st November, 1896	4,049,955	
Balance	250,045	
The contractors have been paid the following amounts up to 1st	•	1896:
Section 2, William Davis & Sons\$	847,037 52	

Section	n 2,	William Davis &	z Sons	847,037	52
\mathbf{do}	3	\mathbf{do}		496,489	71
do	4	do		593,503	76
\mathbf{do}	5,	E. Gilbert & Son	ns	111,033	13
Sheiks	Isla	and Dams, Wm.	Davis & Sons	388,320	00
Section	n 6,	E. Gilbert & Son	ns	47,721	37
do	7	do		96,832	88
\mathbf{do}	8	do		205,743	45
do	10,	Jocks, DeLorim	ier & Co	439,854	60

CONSTRUCTION.

FARRAN'S POINT CANAL.

No work has yet been placed under contract for its enlargement, but the surveys are completed and plans prepared for the work. The work of dredging out the prism of the canal to its original dimensions has been completed.

RAPIDE PLAT CANAL.

ENLARGEMENT.

The work on section No. 1 of this canal has made favourable progress, the lock masonry of the lock at Morrisburg being far advanced towards completion, the contractors having, completely mastered the difficulties which they had encountered, and which were referred to in my report of 1894. The work of widening and deepening the canal on sections 1 and 3 is making fair progress; the work on section No. 2, which was under contract with the Weddell Dredging Company, is completed.

The estimated cost of the enlargement is	\$	1,700,000
Amount paid up to 1st November, 1896		1,582,713
-		
	₿	117,287

The following is a list of the names of the contractors, showing the amounts paid to each up to 1st November, 1896:—

uo	Total		
do	4, Wm. Broder	271,141	
do	3, Poupore, Fraser & Co	207,700	00
do	2, Weddell Dredging Co	223,419	80
Section	No. 1, Poupore & Fraser & Co\$	733,148	00

GALOPS CANAL.

ENLARGEMENT.

Messrs. Murray & Cleveland, the contractors for the work on the first $1\frac{1}{2}$ miles at the upper entrance of the canal, embracing the building of two locks, a weir and the deepening and widening of the prism, are the only persons carrying on works of enlargement on this canal, at the present time.

The work under this contract is not fully completed. The lift lock, guard lock and the weir are completed, but there remains some work in dredging to be done.

The estimated cost of this section of the enlargement is.	\$ 1,650,000
Amount paid up to 1st November, 1896	1,503,344
-	
Balance	\$ 146.656

The contractors' names and the amounts paid them up to 1st November, 1896, are as follows, viz.:—

William Allan Murray & Cleveland	
Total	\$1,406,062

GALOPS RAPID IMPROVEMENTS.

These works remain untouched since my report of last year.

Names of contractors who performed the work and amounts paid up to 1st November, 1896:—

Wm. Davis & Sons\$	22,000
E. Gilbert & Sons 6	07,629
Total \$6	29,629

There remain from 2,000 to 3,000 cubic yards of rock in the channel which require moving to give a clear navigation for 14 feet draught or 17 feet depth of water.

NORTH CHANNEL.

No work has yet been done towards straightening and deepening this channel, but the plans are prepared and in readiness to exhibit to intending contractors.

ST. PETER'S CANAL.

No work on capital account has been undertaken on this canal during the year ended 30th June, 1896.

CANALS.

OPERATION AND MAINTENANCE-GENERAL.

The canals have been operated throughtout the year without any serious delay to traffic, and the necessary repairs have been executed to maintain them in efficient working condition.

STATEMENT showing the dates of closing and opening of canals.

	T.	
<u></u>	Closed.	Opened.
Lachine	30th November, 1895	3rd May, 1896.
Beauharnois	30th November, 1895	1st May, 1896.
Cornwall	7th December, 1895	30th April, 1896.
Williamsburg	10th December, 1895	1st May, 1896.
Welland $\begin{cases} Old \\ New \end{cases}$	14th December, 1895 12th December, 1895	27th April, 1896. 28th April, 1896.
Chambly	30th November, 1895	4th May, 1896.
St. Ours	29th November, 1895	29th April, 1896.
St. Anne's	29th November, 1895	26th April, 1896.
Carillon and Grenville	30th November, 1895	27th April, 1896.
Rideau {at Kingston	20th November, 1895 30th November, 1895	1st May, 1896. 1st May, 1896.
Trent {on Central Reach	21st November, 1895 22nd November, 1895	20th April, 1896. 18th April, 1896.
Murray	4th December, 1895	17th April, 1896.
St. Peter's	5th January, 1896	30th March, 1896.

STATEMENT showing the dimensions of the locks of the canals.

				Existing System.			Under Construction.		
	No. of Locks.	Length.	Width.	Depth of water on mitre sill.	No. of Locks.	Length.	Width.	Depth of water on mitre sill.	
		Feet.	Ft. & in.	Ft. & in.		Feet.	Ft. & in.	Ft. & ir	
achine eauharnois	5 9	270 200	45 45	14 9					
hambly.	9	118-125	22.6-24	7				• • • • • •	
6 Ours	i i	200	45	7					
L. Annes' (New)	1 1	200	45	9					
Willion and Granvilla	1 7	200	45) ğ					
uloute (Ahandoned)				l		<i>.</i>			
10116	1 13	134	33	5					
ideau	49	134	33	5					
ideau, Perth Branch	. 2	134	32	5.6	· · · · · · · ·				
Iurray (no locks)	6	200	55	11 9					
ornwall (Old)	5	270	45	14			1		
ornwall (New)	-11 1	270	45	Guard					
arran's Point (Old)	i	200	45	9			· · · · · · · · · · · · · · · · · · ·		
apide Plat (Old)	î	200	45	9			1	1	
lanido Di-+ (NT)	(1	270	45	14	l <i>.</i>				
apide Plat (New)	· \ 1	270	45	Guard.	· · · · · · · · · · · · · · · · · · ·				
alops (Old)	. 2	200	45	9					
alops (New)	11	270	45	14					
Vollage 4 (3x	1	270	45	Guard.	<i></i>				
Velland (New)	26	270	45 45	14	· · <i>·</i> · · · · ·				
Velland (Old)	$\left \left\{ \begin{array}{c} 24 \\ 2 \end{array} \right. \right $	150 200	45	10.3					
(Old)	1	230	45	10.3	· · · · · · · ·	1		• • • • • •	
Volla 172 4		150	26.6	9				1	
Velland Feeder	· 1 1	200	45	9	1				
Velland Port Robinson Bronch	. 2	150	26.6	9				1	
'CHANG Maitland Branch	1	185	45	11					
wall DEP Maria	1	900	60	20.3					
oulanges t. Peter's	1	200	48	18	4	270	45	14	

LACHINE CANAL.

OPERATION.

The traffic on this canal was conducted satisfactorily during the year, and without interruption to traffic.

MAINTENANCE.

For particulars of the repairs during the year, I refer you to the Superintending Engineer's report.

The cost of these repairs for the year 1895-96 amounts to as follows:-

Ordinary repairs under head of staff and repairs \$24,950 30

Special repairs under head of income:-

Enlargement of electric light stores,

Montreal \$4,904 37

Repairs to wharfs around St. Gabriel 3,288 78

8,193 15

Total......\$33,143 35

BEAUHARNOIS CANAL.

OPERATION.

No accident occurred on this canal during the year and the traffic was uninterrupted.

MAINTENANCE.

The necessary repairs have been executed during the year, of which the following is a statement :-

The cost of repairs for the year 1895-96 amounted to as follows:-

Ordinary repairs under head of staff and repairs...... \$15,050 85

Special repairs under head of income :--

No special repairs were made.....

CHAMBLY CANAL.

OPERATION.

The traffic during the year was very active and satisfactorily conducted.

MAINTENANCE.

The canal works have received the necessary attention as regards their maintenance during the year.

The cost of the repairs executed during the year 1895-96 is as follows, viz.:— Ordinary repairs under head of staff and repairs..... \$11,801 12

Special repairs under head of income :-

Building rubble masonry wall along high-

way

\$2,494 63

3,694 63

ST. OURS LOCK.

OPERATION.

No damage to lock or delay to navigation occurred during the year.

MAINTENANCE.

The necessary repairs have been executed. The cost of the work during the year was as follows, viz.:--

Ordinary repairs under head of staff and repairs, \$1,678.49.

There were no special repairs required to be done.

ST. ANNE'S LOCK.

OPERATION.

The navigation through this lock has not been interrupted during the year.

MAINTENANCE.

The lock has been maintained in good working condition. The cost of the work during the year is as follows, viz.:—

Ordinary repairs under head of staff and repairs \$4,993 89

There were no special repairs under head of income.

Total..... \$4,993 89

CARILLON AND GRENVILLE CANALS.

OPERATION.

The navigation has been interrupted for thirteen hours only during the year, which was caused by the displacement of one of the lock gates; the canal works have received the necessary repairs.

MAINTENANCE.

The following is a statement of the works of repairs executed during the year:

The cost of the repairs amounted to as follows, viz:-

Total \$12,161 10

CULBUTE CANAL.

OPERATION.

This canal was closed and abandoned on the 2nd November, 1894, and the services of the employees dispensed with; the Grand Calumet Dam was partially removed to give a freer flow to the water.

The following is a statement of the expenditure on this canal during the year:—

Total.....Nil

- 21,452 29

TRENT CANAL.

OPERATION.

There was no interruption to navigation during the year. The canal works were well maintained.

MAINTENANCE.

The cost of the works of repairs for the year was as follows,	viz. :			
Ordinary repairs under the head of staff and repairs			\$3,329	97
Special work under head of income:				
Dredging channel and building glance pier	\$ 487	35		
do at mouth of Emily Creek	496	89		
Sluiceway in Hastings Dam	1,974	62		
Constructing two dump and one deck scow	3,226	89		
,			6,185	75
Total			\$ 9,515	72

RIDEAU CANAL.

OPERATION.

Owing to the extremely low water, the navigating of this canal with the larger craft has been attended with some difficulty, especially through the cut leading from the lake to Newboro' lock.

MAINTENANCE.

The canal has been maintained	d in efficient state of repair.
-------------------------------	---------------------------------

The cost of the repairs was as follows, viz.:—

· · · · · · · · · · · · · · · · · · ·			
Ordinary repairs under head of staff and repairs		\$30,196	38
Special repairs under head of income:			
Deepening canal at Newboro' and Merrickville\$	7,986	79	
Final estimate of A. Weddell	2,275	00	
Payment to James Cain for wages	42	00	
Paid for land damages	11,148	50	

Total	. \$51,648	67

MURRAY CANAL.

OPERATION.

This canal was operated during the year without interruption, and 603 vessels passed through.

MAINTENANCE.

The canal works have been maintained in efficient condition.

The cost of repairs was as follows:-

Ordinary repairs under head of staff and repairs.... \$5,410 33 Special repairs under head of income........... Nil

\$5,410 33

CORNWALL CANAL.

OPERATION.

Navigation was interrupted on the 28th November, 1895, to enable a dredge sunk in the canal to be raised, and again on 29th June, 1896, the grain laden barge "Bismark" was sunk near Sheiks Island interfering with navigation for a few days; with these exceptions navigation was fairly well maintained.

MAINTENANCE.

The necessary repairs to the canal works have received due attention.

The cost of repairs during the year was as follows, viz. :-

Ordinary repairs under head of staff and repairs \$25,259 56 Special repairs under head of income Nil

Total \$25,259 56

WILLIAMSBURG CANALS.

OPERATION.

On 13th June, 1896, steamer "Spartan" struck gates on lock 23, delaying navigation for thirty-six hours, no other interruption to navigation during the year occurred, and the traffic has been conducted in a fairly satisfactory manner, considering the lowness of the water in the river and notwithstanding the works of enlargement in progress.

MAINTENANCE.

The canal works have been maintained in a good state of repair. The cost of repairs during the year has been as follows, viz.:—

Total.....\$17,643 04

WELLAND CANAL.

OPERATION.

No accident of any importance occurred during the year. The canal has been worked during the year in a satisfactory manner.

MAINTENANCE.

The canal works have been maintained in an efficient state of	repair.	
The cost of repairs during the year has been as follows, viz. :-		
Ordinary repairs under head of staff and repairs	\$62,542	64
Special repairs under head of income:—		
Rebuilding in concrete superstructure Dalhousie pier	}	
south side of feeder	i	
Stromness Road bridges		99
Total	\$81,311	63

ST. PETER'S CANAL.

OPERATION.

Upon the completion of the heavy repairs the canal was opened for traffic on the 8th November, 1895.

MAINTENANCE.

The repairs of this canal were very heavy and costly, as owing to the ravages of the sea-worm, it became necessary to renew the timber floor and the lock gates, which work necessitated the formation of a dam at each end of the canal; the work was being executed under contract with Mr. Sylvester O'Donaghue, but owing to unforeseen difficulties arising in unwatering the canal, he intimated his inability to complete the work under his contract, and it was carried on by the Government.

90
64
54
6

GENERAL OBSERVATIONS RESPECTING GOVERNMENT CANALS.

The supplies and materials have, as a rule, been purchased by tender and contract, and are only issued upon requisition of the authorized officer, and books are kept of the receiving of the goods, and their issue, and of the articles in the storehouse.

\$663,496	76
339,538	72
\$323,958	04

RAILWAY SUBSIDIES.

I submit herewith a statement showing the amount of cash subsidy granted per mile available, and amount paid up to the 30th June, 1896; also the number of miles of railway on which subsidy granted per mile was available on 1st July, 1896, and the number of miles of railway for which cash subsidy per mile was granted, built up to 30th June, 1896. There will also be found the amount of subsidy paid up to 1st of November, 1896.

There also appears a statement of the cash subsidy per annum available and also paid up to 30th June, 1896, with number of miles built, also a statement showing the railways which have been granted aid in land.

Amount of cash subsidy per mile paid 30th June, 1896	
June, 1896	779,221 00
Total paid and available	\$15,012,197 83
Number of miles of railway on which cash subsidy per mile was available up to 30th June, 1896 Number of miles of railway on which cash subsidy	223
per mile was paid up to 1st June, 1896	3,226
Amount of subsidy paid up to 1st November, 1896. Cash subsidy per annum available on 30th June,	
1896	\$ 363,474 00
Cash subsidy per annum paid to 30th June, 1896	1,306,200 00
Number of miles built on cash subsidy per annum up to 30th June, 1896	252
Number of miles of railway to which aid in land has	
been authorized	4,463
Number of acres of land the grant of which in aid	
of railways has been authorized	32,257,200

The foregoing statements do not include the grants in cash and land to the Canadian Pacific Railway, the Canada Central Railway and the Esquimalt and Nanaimo Railway.

\$25,000,000
1,525,250
750,000
\$27,275,250
Acres.
. 25,000,000
1;900,000
. 26,900,000

CANAL STATISTICS.

These statistics were compiled by Mr. R. Devlin, the clerk temporarily in charge; they are for the season of navigation 1895 and contain the usual interesting information.

Table showing the tons of freight passing through each canal, the tolls collected, the number of trips of vessels passing through each canal, for the year ended 31st December, 1895.

Name of Canal.	Tons of Traffic passing through.	Tolls collected.	Number of trips of vessels passing through.
Lachine)		\$ cts.	
Beauharnois	828,228	61,143 66	8,746
Williamsburg. J Welland	869,595	138,713 64	2,222
Chambly St. Anne's.	359,027	25,929 67	3,262
Carillon Ottawa River Canals	541,220	31,959 29	2,195
Rideau	88,753	5,679 26	2,375
Murray		527 94	565
Crent	32,266	1,042 08	1,947
St. Peter's	9,828	426 63	248
* Sault Ste. Marie	595,337	Free.	1,192

^{*} This canal was opened for traffic on 9th September, 1895.

RAILWAY STATISTICS.

The hopes and expectations expressed in past years that the railway companies would in future sent in their statistical returns on or before the 1st October in each year, have not been realized, for whilst the great trunk lines and many others forwarded their returns with promptness, there are a large number who are delinquents as regards the despatching of the reports.

TABLE showing the growth of the Railways from year to year, since the opening of the first line in 1836.

Year.	Miles in Operation.	Year.	Miles in Operation
35	0	1866	2,2
00	16	1867	2,2
26	16	1868	2,2
JO	16	1869	2,5
JU	16	1870	2,6
20	16	1871	2,6
*1	16	1872	2,8
<i>Z</i>	16	1873	3.6
10 1	16	1874	3,8
* * .	16	1875	4,3
10	16	1876	4,8
* 0	16	1877	5,2
* (• • • • •	54	1878	5,7
20.	54	1879	6,1
	54	1880	6,8
50.	66	1881	7,1
J1	159	1882	7,3
52	205	1883	8,€
25	506	1884	9,5
	764	1885	10,2
JO	877	1886	10,7
	1,414	1887	11,7
	1,444	1888	12,1
58	1,863	1889	12,5
59. 60	1,994	1890	13,1
60	2,065	1891 1892	13,8
62	2,146 2,189	1892	14,5 15,0
	2,189 2,189	1894.	15,6
64	2,189	1895	15,9
65	2,189	1896	16,2

FATAL ACCIDENTS for Year ended 30th June, 1896.

	Passengers Killed.	Employees Killed.	Others Killed.	Total Killed.
Falling from cars or engines. Getting on or off trains in motion. At work making up trains. Putting heads or arms out of windows.		12 6	5 9	23 19
Collisions and derailments. Striking bridges		14		1 14 2
Walking or being on track. Explosions Other causes.	1	ь	68 22	75 27
Total	11	46	104	161

The summary of tables for the years ended 30th June, 1895, and 30th June, 1896, is as follows, viz. :—

	Comparativ	e Statement,
	30th June, 1895	30th June,1896
Miles of railway completed (track laid)	16,091	16,387
do sidings	2,054	2,106
do iron rails in main line	346	2,100
do steel do	15,745	16 137
do do do double track	533	537
Capital paid (including the four following items)		\$899,817,900
Government (Dominion and Provincial) bonuses paid	*\$158,621,646	*\$157,600,100
do do loans paid	\$21,569,149	\$21,569,149
do (Provincial only) subscription to shares paid		\$300,000
Municipal aid paid	\$14,180,686	\$14,494,757
Miles in operation		16,270
Gross earnings	\$46,785,487	\$50,545,569
Working expenses	\$32,749,669	\$35,042,655
Net earnings	\$14,035,818	\$15,502,914
Passengers carried	13,987,580	14,810,407
Freight carried (tons)	21,524,421	24,266,825
Train mileage	40,661,890	44,500,602
Passengers killed	9	11
Number of elevators	53	72
do guarded level crossings—public roads	151	166
do unguarded do do	10,430	11,000
do overhead bridges	398	413
do level crossings of other railways	218	235
do junctions with other railways		326
do do branch lines		235
do engines owned	1,948	1,980
do do hired	75	64
do sleeper and parlour cars owned	156	178
do do do hired	60	26
do first class cars owned	1,011	998
do do hired	65	44
do second class and immigrant cars owned	694	646
do do do hired	8	2
do baggage, mail and express cars owned	+1,129	†625
do do hired	25	25
do cattle and box freight cars owned	33,577	‡35,302
do do do hired	2,783	1,489
do platform cars owned	15,441	15,192
do do hired	317	401
do coal and dump cars owned	4,841	4,810
do do hired	4	2

It will be observed that the increase of mileage of road built is very small for the year ended 30th June, 1896, this I assume to be attributable to the general stringency in the money market, and also to the fact that the more pressing needs of the country in respect of railway communication have been largely met by the construction of the lines now built.

I have the honour to be, sir, your obedient servant,

COLLINGWOOD SCHREIBER,

Deputy Minister and Chief Engineer of Railways and Canals.

The Honourable A. G. Blair, Minister of Railways and Canals.

^{*} In explanation of the fact that the total of bonuses shown as paid up to the 30th June, 1896, is less than the total for the previous year, notwithstanding the payment during the year of additional bonuses, it has to be noted that the sum of \$2,394,000, interest on which has been allowed the Province of Quebec as an annual subsidy on account of the railway between Ottawa and Quebec (the capital not being paid) has now, as is shown by the public accounts, been treated as a liability, and placed as an item of the public debt. (See public accounts 1895-96, page X.) It consequently now disappears from the list of paid bonuses.

[†] Conductors' vans transferred this year from this item to that of box cars. ‡ Comprising 34,138 box freight cars, 244 refrigerator cars, 845 conductors' vans and 75 tool cars.

No. 1.

RAILWAYS.

INTERCOLONIAL RAILWAY OF CANADA, OFFICE OF THE GENERAL MANAGER, Moncton, N.B., 28th September, 1896.

SIR,-I have the honour to submit the following report on the working of the

Intercolonial Railway during the fiscal year ended 30th June, 1896.

I inclose the reports of the Chief Engineer and the Mechanical Superintendent, and the following statements prepared by the Chief Accountant and Treasurer:-

- No. 1. Capital account.
 - 2. Revenue account.
 - 3. Locomotive power.
 - 4. Car expenses.
 - 5. Maintenance of way and works.
 - 6. Station expenses.
 - 7. General charges.
 - 8. General stores account.
 - 9. General balance
 - 10. Comparative statement of averages.

The mileage of railway in operation during the year was the same as stated in last year's report, 1,142 miles.

CAPITAL ACCOUNT.

The total cost of road and equipment on the 30th June, 1895, by last report was	\$55,007,939	40
Increased accommodation at Halifax\$124,910 03		
do do at Moncton 1,000 00		
do do at Sydney 11,374 41		
Construction 1,948 35		
St. Charles Branch		
Indian Town Branch		
Dartmouth Branch		
Rolling stock 10,000 00		
Oxford and New Glasgow Railway 80 40		
	259,423	42
	\$55,267,362	82
Less refund previous year's expenditure	318	
Making the total cost on the 30th June, 1896	\$55,267,044	63

Increased accommodation at Halifax.—This expenditure was made on the land

along Water Street purchased for increased freight accommodation.

A retaining wall of timber cribwork filled with stone was built along the harbour front of the property for a distance of one thousand feet. This cribwork is thirty-five feet wide and of an average height of thirty feet, and a considerable additional area of land for tracks was made by filling in behind it.

Along the Water Street front of the property a large warehouse was built for the local freight business of the city. It is of brick with an iron framed roof covered with slates. It is seven hundred and sixty-two feet long and of an average width of fifty-five feet, and contains in one end the local freight offices. It is fitted throughout for electric lighting.

In front of the building on its Water Street side along its whole length a granite

pavement thirty-five feet wide was laid.

The ground between this building and the retaining wall along the harbour front was laid out as a railway freight yard with the necessary tracks for cars, and roads for hauling freight to and from them. A scale for weighing car loads, and cranes for lifting heavy articles were also provided. The building as soon as it was completed was opened for business on February 4th, 1896, and it has proved to be very commodious.

Increased accommodation at Moncton.—This was for the construction of a brick

building for the heating boilers of the engine houses.

Increased accommodation at Sydney.—The greater part of this expenditure was in payment for land at North Sydney, the balance was for improvements in connection with the freight business at Sydney station.

Construction.—This was for the payment of claims in connection with the original

construction of the railway and for the legal expenses of settling them.

St. Charles Branch.—This amount was paid for land under a judgment of the Exchequer Court.

Indian Town Branch.—This amount was paid for land and damages and for legal

expenses in connection with the construction of the branch.

Dartmouth Branch.—This branch forms the connection between the town of Dartmouth and the main line of the Intercolonial Railway at Windsor Junction. The expenditure was for grading, track laying, ballasting and other construction work. It was so far completed that it was opened for traffic on the 22nd June last.

Rolling Stock.—This was for the Westinghouse automatic air brake for freight cars. It was applied to one hundred and seventy-five platform cars and seventy five box cars. The total number of freight cars now equipped with this brake is one

thousand two hundred and twenty-one.

Oxford and New Glasgow Railway.—This was a small balance paid at Ottawa under a judgment of the Exchequer Court.

REVENUE ACCOUNT.

The gross earnings and working expenses for the year	com	pare	as fo	ollows :
Working expensesGross earnings				
	\$	55	,187	52
The gross earnings compare as follows with those of the	e pr	evio	ıs ye	ar :
In 1895-96	. \$2	,957	,640	10
In 1894-95	. 2	,940	,717	95
	\$	16	,922	15
The earnings from passenger traffic compare as follows	:			
In 1895-96	. \$	971	,426	26
In 1894-95		963	,914	44
	\$	7	,511	82
	=			

The earnings from freight traffic compare as follows:— In 1895-96	\$1,7 1,7	788,813 78 2,6 08	18 54	
-	\$	6,204	64	
The earnings from the carriage of mails and express freight	t co	mpare a	as fo	ollows :—
In 1895-96	\$1	197,400	66	
In 1894-95		194,194		
•	\$	3,205	69	
The earnings per mile of railway compare as follows:				
In 1895-96	\$	2,589	88	
In 1894-95	,	2,575		
	\$	14	82	
The earnings per train mile compare as follows:				
•		Ce	nts.	
In 1895-96		76	5·97	
In 1894-95		73	3.53	

It will be seen from the foregoing comparisons that there was an increase in the earnings from both passenger and freight traffic.

The number of passengers carried compares as follows:—	
In 1895-96 In 1894-95	, ,
_	119,199

There was an increase of 114,519 in the number of local passengers and an increase of 4,680 in the number of through passengers.

The weight of freight carried compares as follows:—	Tons.
In 1895-96	1,379,618 1,267,816
-	111,802

This increase was in both through and local freight: 1,947 tons being in through freight and 109,855 in local freight.

The following is a comparative statement of a few of the chief articles of freight, showing the quantity carried in this and in the previous year:—

Articles.	1894-95.	1895–96.	Increase.	Decrease.
Barrels of flour Bushels of grain Lumber in superficial feet. Head of live stock. Coal in tons. Manufactured goods in tons. All other articles in tons.	1,036,384 202,247,269 72,106 385,200 350,056	822,097 1,064,385 226,332,715 64,051 432,513 345,829 207,368	28,001 24,085,446 47,313 51,891	8,055 4,227

2,571 71

There was an increase in the quantity of the following articles carried: iron ore, building stone, lime and cement, bricks, hay and straw, butter and cheese, eggs, meat, both salted and fresh, fresh fish, and refined sugar, and a decrease in the quantity of the following: pickled, dried and canned fish, leather, raw sugar, potatoes, turnips and other roots.

WORKING EXPENSES.

The working expenses compare as follows with the previous	ıs ye	ear:
In 1895-96		012,827 62 936,902 74
	\$	75,924 88
The averages compare with those of last year as follows:-	_	
Per mile run by engines—		
•		Cents.
In 1895-96		. 63.90
In 1894-95;		
Per mile run by trains—		
In 1895-96		. 78.41
In 1894-95		
Expenditure per mile of railway		
In 1895-96		\$2,638 20

In 1894-95....

The permanent way and structures and all the works of the railway received neces-

sary repairs and are in good order.

The number of ties renewed was 411,803. One hundred and fifty miles of the track were re-ballasted. The relaying of the track with new and heavier steel rails was continued, and for a distance of forty-five miles the fifty-six pound rails were taken up and replaced with new rails weighing sixty-seven pounds to the yard. New sidings were laid at various places amounting in total length to over three miles.

The bridges on all parts of the line received necessary repairs, and on the part between New Glasgow and Mulgrave two new steel bridges were put in to replace wooden structures, one of these was one hundred and sixty feet long and the other was forty feet long. One iron bridge was taken out and a heavier and stronger new one of steel was put in its place, and other iron bridges were strengthened and improved.

The fences received necessary repairs, and forty-eight miles of new fences were

erected

The snow sheds and snow fences were repaired; 27,967 lineal feet of snow fences were rebuilt, and 10,147 lineal feet of snow fences were built at places where none had

been provided before.

The wharfs at various places received necessary repairs, and an addition was made to the wharf at Dalhousie. The work of rebuilding the wharfs at Halifax and at Richmond, which were destroyed by the fires of February 27th and May 19th, 1895, was continued during the whole year, and the expenditure was necessarily very large as the work was done in a substantial manner with creosoted piles and southern pitch pine timber.

The buildings on all parts of the line received necessary repairs, and a new station house with agent's dwelling was built to replace a smaller one destroyed by fire. At Halifax the rebuilding of the premises destroyed by the fire of February 27th, 1895, was continued, and a warehouse four hundred and eighty-five feet long and forty-six feet broad, containing suitable offices, was constructed on one of the wharfs above referred to.

The rolling stock received necessary repairs and is in good order.

Nine locomotives were rebuilt during the year, and in doing so they were made much more powerful than the engines which they replaced.

Considerable improvements were made to the sleeping and other passenger cars, so

as to make them more comfortable for travellers and more attractive to the public.

The freight cars received necessary repairs, and to maintain the stock three hundred and ninety-three new cars were provided. Of these three hundred were built by contract, and ninety-three were built in the railway shops. In the case of the box and the platform cars the carrying capacity of the new cars was increased to double that of the cars which they replaced.

Two new snow ploughs were purchased and one new wing plough was built in the

railway shops to take the place of an equal number removed from service.

The water service was efficiently maintained, and three new tanks of fifty thousand gallons capacity each were built to take the place of smaller ones.

STORES.

The value of stores purchased was	1,310,704	59
The value of stores on hand at the end of the year was:—		
Ordinary stores, including fuel\$ Iron and steel rails and fastenings Old material for sale	265,113	13
Total\$	765,848	89

There is a considerable quantity of old material on hand for sale, which has been accumulating in consequence of the low prices prevailing for some time.

GENERAL.

The winter of 1895-96 was not as severe as the previous one, the cost of clearing snow and ice being \$42,454.17 which is about ten thousand dollars below the average.

In April, 1896, freshets damaged the bridge at Etchemin, and also the cribwork

protection of the bridges at Montmagny.

On the 24th July, 1895, Beaver Brook station house was accidentally destroyed by fire and was rebuilt during the year.

I have the honour to be, sir,

Your obedient servant,

D. POTTINGER,

General Manager, Government Railways.

Collingwood Schreiber, Esq., C.M.G.,
Deputy Minister and Chief Engineer,
Railways and Canals.

INTERCOLONIAL RAILWAY OF CANADA,

OFFICE OF THE CHIEF ENGINEER,

Moncton, N. B., 16th Sept., 1896.

Sir,—I have the honour to submit my report of the Engineering Department, for the year ended 30th June, 1896.

Track.

During the year 45 miles of old 4-inch and $4\frac{1}{4}$ -inch steel rails weighing 56 lbs. to the yard have been taken up and replaced with new $4\frac{1}{2}$ -inch rails, weighing 67 lbs. to the yard.

Ties.

During the year 411,803 ordinary ties and 141 sets of switch ties were renewed.

Ballasting.

Ballasting has been carried on on all divisions of the line except between Oxford Junction and New Glasgow. About 90,000 cubic yards have been distributed on 150 miles of track.

Semaphores.

New standard semaphore signals have been erected at Enfield, Brookfield, West River, Salisbury, Shediac, Point du Chêne, Petitcodiac, Calhouns, Bathurst, Dalhousie Junction and St. Moise. An electric semaphore was erected at St. Charles.

New telegraph signals were placed at Beaver Brook and Bartibogue.

All other semaphore and station telegraph signals were overhauled, repaired and painted at a large cost. It is found necessary to paint these semaphores and signals every two or three years, as the targets become dingy from the smoke of locomotives.

Sidings.

During the past year, $4\frac{3}{4}$ miles of additional siding accommodation were provided. Of this, $1\frac{3}{4}$ miles was put in in connection with the Deep Water Terminus and at the Cotton Factory, Halifax.

Fencing.

47.91 miles of new barbed wire and woven wire fence were erected during the past year throughout the line, to replace old pole fence and post and board fence, and to protect the line at points where no fence had previously been erected. Large repairs were made to the old fences.

Snow Sheds and Fences.

During the year 615 rods of new snow fence were built on the Oxford and New Glasgow Division, and on the Northern Divisions. 1,695 rods were renewed, and large repairs were made to snow sheds and fences on Northern Divisions from 1 to 5.

Wharfs and Trestles.

At the Deep Water Terminus, Halifax, the renewal of the ocean steamship pier referred to in my last annual report was completed about the 31st December last.

A coal drop was provided on the west side of the long or coal wharf referred to in my report of last year. This coal wharf has been widened on the south side 50 feet, to make room for another freight shed and track which it is proposed to build this

Extensive repairs were made on the north wharf at this place.

At Richmond, the work of rebuilding the wharf destroyed by fire on the 19th of

May, 1895, referred to in last year's report, was completed.

The "Curved," or "Sugar Wharf" at Richmond, was practically rebuilt. The old hemlock piles having been in use 16 years, were rotten and eaten with worms, so that they were of no use. They were replaced with creosoted pine piles capped with pitched pine, and covered with 3-inch deals.

A solid cribwork approach built of round hemlock, filled with ballast, 200 feet long, 32 feet wide, and 15 feet high, was built to connect this wharf with the shore,

in place of the old pile approach.

At Truro, a new coal shed and trestle was erected near the engine-house, at the east end of the yard, to replace the high level shed and trestle at the west end of the yard, which had become rotten and unfit for service.

At Pictou Landing, heavy repairs were made to the east wharf for the accommodation of the Nova Scotia Steel Company handling ore received from Newfoundland.

At Pictou, the east wharf was overhauled, and repairs made where necessary.

At Pirate Harbour, the sills and floors of coal shed were renewed.

An elevated trestle was erected at the rear end of this shed so that coal can now be delivered on a level with the top of tenders. A large saving in labour and expense has been effected by this improvement.

At Mulgrave, the wharf was overhauled and repaired, and five new fenders placed

at the north corner of wharf.

At Point Tupper, necessary repairs were made to the wharfs where damaged by steamer.

At Amherst and Spring Hill, the coal trestles were overhauled and repaired.

Some necessary repairs were made to the wharfs at Sackville.

At St. John, the ballast wharf received necessary repairs.

At Newcastle, the whole top of the Deep Water Terminus Wharf was renewed,

and a portion of the face.

At Dalhousie, a timber crib, about 180 feet long and 15 feet wide, was built between the present railway wharf and the breakwater erected by the Public Works Department. This admits of the track now being laid to connect our present sidings with the face of the breakwater, and the railway wharf, thus increasing the accommodation for loading ships.

The wharf at this place was somewhat damaged by the heavy run of ice in the spring. Eight new fenders were provided, and the damage caused by the ice made good.

At Rimouski and Rivière du Loup, the approaches to the deep water wharfs were overhauled, and repaired at a considerable expense. Necessary repairs were made to the coal shed and trestle at the latter place. The coal shed on the west side of the river will require heavy repairs, if not renewal next year.

At St. Charles, large repairs were made to the coal shed and approach. This shed

is now 17 years old, and will require to be renewed soon.

At Levis, large repairs were made to the cribwork carrying the track along the river, between Lévis and Point Lévis.

Buildings and Platforms.

At the Deep Water Terminus, Halifax, the large brick freight shed, referred to in my annual report of last year was completed at the end of the calendar year, and has been occupied for the Halifax business since that date.

The timber cribwork across the whole face of the Deep Water Terminus, from the Marine and Fisheries wharf, referred to in my report of last year, has been completed. A portion of the space at the rear of this cribwork remains to be filled. A road-way in front of, and at either end of, the new freight shed has been paved with granite blocks, at a cost of about \$8,000. A loading platform fitted up with a 7-ton crane has been erected at the east end of the new freight shed. At the end of this loading platform, an iron gantry with the necessary hoisting gear has been provided for the purpose of handling heavy machinery and other loads too heavy for the crane on the loading platform. A new 66-ton track scale has been provided at a cost of about \$1,200.

A crib block, 156 feet long and 20 feet wide was built between the Marine and Fisheries Wharf and boat landing for the Admiralty. This was built in the shape of an L, in an average depth of water of about 15 feet. The space at the rear of this crib has been filled up, to low water, with material dredged from the approaches to the boat landings, and which the department was obliged to remove under an agreement with the naval authorities. When the space at the rear of the cribwork is filled up, to the general level of the yard, an additional area of about 4,000 square feet will be available for general purposes.

A store and tool-house, 40 by 17 feet, was put up at the Deep Water Terminus.

At North Street, necessary repairs were made to the flooring and skylights of train shed. The loading platform at the freight shed recently vacated by the department, and now occupied by the Dominion and Atlantic Railway, was renewed.

At Richmond, necessary repairs were made to the slate roof, and floor of machine shop, also to roof and flooring of roundhouse and engine shed. Five iron smokestacks were renewed in roundhouse.

The cattle shed was overhauled and repaired.

The roof of blacksmith's shop was recovered with shingles, and two ventilating shafts were provided. Two cabins for the shunters were provided at Deep Water Terminus and Richmond.

At Rockingham, the roof of station was recovered with shingles, and hardwood floors were laid in the office and waiting rooms.

At Lake View, a flag station was provided to meet the increased passenger traffic at this place.

At Grand Lake, the passenger platform, 100 feet long, was renewed, and the roof of flag station recovered with shingles.

At Sandy Cove, the loading platform, 200 feet long, was renewed.

At Enfield, a new cattle pen was provided.

At Shubenacadie, the old loading platform 250 feet long, by about 25 feet wide, was replaced with a solid ramp, having the face work built of cedar.

At Alton, new sills were placed under the tank-house, and the station overhauled

and repaired.

At Truro, the roof of oil store was recovered with shingles. A new floor was laid in the blacksmith shop, and necessary repairs made to the floor in roundhouse. New sills were placed under one side of the freight shed. The freight platform on south side was removed, and a hard pine curbing substituted and filled with cinders in its place. An extension of 100 feet was made to the passenger platform at the east end. Necessary repairs were made to the restaurant and dwelling apartments at this station. Two new hoods were placed on the roof of roundhouse.

At Valley, the floor of waiting room was renewed.

At Riversdale, the loading platform 200 feet long, was renewed.

At Lansdowne, the floor of the kitchen of dwelling apartments was renewed.

At Glengarry, the station platform was renewed.

At Eureka, a flag station was erected, and the platform extended to meet the increased traffic at this place.

At Stellarton, the passenger platform, 396 feet by 12 feet, was renewed. The old platform was taken from the rear and ends of the station, and the space filled in with coal cinders. The roof of the freight shed was repaired. Necessary repairs were made to the doors and roof of engine shed, and also to the doors and windows of tenement house at this station.

At New Glasgow, the doors and window sashes of station were painted, the doors of freight shed repaired, and the roof of freight shed and track store painted. The cattle pen was removed to a more convenient site at the west end of the freight shed.

Necessary repairs were made to the passenger platform, and the freight shed platform on the west side of the yard was renewed.

At Trenton, where the traffic is increasing rapidly, the room in the station used as a kitchen was converted into a ladies' waiting room. The partitions were rearranged and the accommodation greatly improved.

At Pictou Landing, necessary repairs were made to the roof of engine shed.

At Pictou, the freight sheds were overhauled, repaired and painted. The station platform was renewed.

At Meadowville, a kitchen 16 feet by 12 feet was erected for the accommodation

of an agent recently appointed.

At Scotsburn, the interior partitions of station were rearranged to give additional room for the agent. The interior of the station was also painted.

At Westville, the passenger and loading platforms were wholly renewed.

At Fountain Road, a new loading platform was provided.

Two new cattle guards were provided on the Oxford and New Glasgow Division, one at Westville, to keep cattle coming up the Drummond Mines track, and one north of Oxford, where a new road was opened.

At Avondale, the doors of station were overhauled, repaired and fitted with new locks.

At Barney's River, Marshy Hope, Tracadie and Harbour Bouche, the battens of outside walls were removed, the walls covered with paper, and shingled, which will make them much more comfortable in winter. The shingles on the roofs of these stations were also renewed.

At Antigonish, the doors and windows were overhauled and repaired. A new sink and connections was put in the dwelling apartments. Sixty feet of the passenger platform, and 73 feet of the freight platform were renewed. One-half of the freight shed roof was recovered with steel shingles, and the roof painted.

At Mulgrave, the verandah was overhauled and repaired, also the doors of station and freight shed. Necessary repairs were made to the roof of engine shed, and three old iron stacks were replaced with terra-cotta stacks eighteen inches in diameter. An old box car body was fitted up as a shed for storing hard coal for passenger cars.

At Point Tupper, an extension was made to the passenger platform.

New loading platforms were provided at Christmas Island, Beaver Cove and Sydney River, to meet the increasing traffic.

At Iona, the station building was overhauled and repaired.

At Leitches Creek the exterior walls of station were overhauled and repaired.

At Debert, hardwood floors were laid in the waiting room and office.

At East Mines, the walls and ceiling of kitchen were sheathed.

At Wentworth, the roofs of station and dwelling apartments were recovered with shingles.

At Greenville, one side of the roof of kitchen was recovered with shingles.

At Thomson, the walls of station master's office were sheathed.

At Oxford Junction, the roof of oil shed was re-shingled, and a new smokestack placed on engine-house.

At Spring Hill, the passenger platform was extended 40 feet.

At Maccan, the roof of freight shed and porch of dwelling apartments were recov-

ered with shingles.

At Amherst, the roofs of station building and restaurant were recovered with shingles. Necessary repairs were made to the blacksmith shop and store room, the roofs recovered with metallic shingles, and the buildings painted. The roof of freight shed was also painted.

At Rockland, a hardwood floor was laid in the waiting room.

At Memramcook, the exterior walls of station and freight shed were overhauled, repaired and painted. The wood work of the agent's office, and waiting room was also painted.

At Painsec Junction, the station building was overhauled, repaired and painted, both inside and out. The freight shed, coal shed and store room were also painted.

Necessary repairs were made to the platforms at the following stations: Debert, Londonderry, Westchester, Thomson, Oxford Junction, Spring Hill, Nappan, Amherst, Sackville, Dorchester and College Bridge.

At Shediac, the station building and freight house were overhauled, repaired and painted.

At Humphrey's Mills, the loading platform was renewed, and repairs made to the station platform.

At Moncton, a fire-proof brick boiler-house was erected between the two round-houses, into which have been moved the boilers formerly used in temporary building adjoining old roundhouse, and also boiler in machine shop. Under this arrangement, the buildings are all heated from one point, and one man's time is saved, and the risk from fire is lessened.

The brick walls of one section of the old roundhouse were renewed, and large repairs was made to the walls of other pits. A new hardwood floor was laid in the office of stores building. The old floor on the ground flat of store building, which had become very rotten, was taken out, and a cinder foundation put in for asphalt; when sufficiently solidified, this will be covered with a coating of asphalt. A heavy hail storm destroyed 3,200 panes in the sky-lights of the machine shop, paint and repair shops, these were made good. The freight house was overhauled and repaired, and a portion of the roof painted. The government cottages were overhauled, repaired and painted where necessary.

At Salisbury, the station building was overhauled, repaired and painted inside and outside.

At Petitcodiac, Anagance and Apohaqui, the loading platforms were renewed.

At Penobsquis, a hardwood floor was laid in kitchen of dwelling apartments.

At Sussex, a 1½ inch galvanized iron pipe line 1,000 feet long was put in to furnish a supply of water to the station. Modern flush closets with necessary ventilating shafts, &c., were provided in the waiting room and dwelling apartments of the agent.

At Quispamsis, the station platform was repaired.

At St. John, necessary repairs were made to the station building, train shed, baggage room and freight shed; also the shed on the ballast wharf. The coal shed at this station received extensive repairs.

The road crossings and sign boards between Shediac and St. John were painted and re-lettered where found necessary.

At Berry's Mills, a hardwood floor was laid in the agent's office, and the interior of station building painted.

At Coal Branch, the roof of station building was recovered with shingles, the walls and ceilings of waiting room and office sheathed, and the woodwork of interior of station painted.

At Harcourt, hardwood floors were laid in two rooms and hall of agent's dwelling, and the interior of station painted.

At Chatham Junction, necessary repairs were made to the floors of freight shed.

At Indiantown, the combined passenger and freight platform was renewed.

At Newcastle, the floors of roundhouse were overhauled and repaired, and a water closet provided for the fuel men.

At Beaver Brook, a new station was erected to replace the one destroyed by fire, at a cost of \$880. A new platform was also erected.

At Red Pine, a hardwood floor was laid in the waiting room of the station and a new door provided.

At Bartibogue, the roof was recovered with shingles.

At Culligan's Siding, a shelter was provided for the increased passenger accommodation at that place.

At Petite Roche, the roof of freight house was recovered with shingles.

At Nash's Creek and New Mills, necessary repairs were made to the station buildings.

At Charlo, a hardwood floor was laid in agent's office and the doors and windows repaired.

At Dalhousie Junction, the freight house and trimmings of station building were painted. New seats with iron arm partitions were placed in both the waiting rooms. A modern flush closet was also provided for the ladies' waiting room.

At Bartibogue, Bathurst, Petit Rocher, Belledune, and Jacquet River, the plat-

forms were repaired and partially renewed.

At Nash's Creek, a loading platform was provided to accommodate the heavy shingle trade at that point. A similar loading platform was provided at Hamilton's Siding, for the same purpose.

At Dalhousie and Dalhousie Junction, the platforms were partially renewed.

Twenty pairs of timber cattle guards between Newcastle and Campbellton were renewed.

At Campbellton, 250 feet of the coal shed were overhauled and repaired. Necessary repairs were also made to the floors and engine pits of roundhouse, boiler room, superintendent's dwelling and passenger platform.

At Moffatt's, the platform, 200 feet long, was renewed.

At Metapedia, the walls of agent's office were sheathed and painted, the freight

shed and platform repaired, and the cattle pen renewed.

At Amqui, the freight shed was repaired, the walls of waiting room and one room of agent's dwelling apartments were sheathed. All the sashes of this station which were bad (15) were renewed. Storm sashes were also provided.

At Cedar Hall, a new loading platform, 90 feet long, was provided, for the accom-

modation of the shingle shippers.

At Sayabec, the loading platform, was renewed.

At St. Moise, hardwood floors were laid in the station master's office and waiting

room, and 287 feet of the platform was renewed.

At Little Metis, the stone foundation walls of cellar under dwelling apartments were overhauled, repaired and pointed. The old tank-house at this station was taken

At Ste. Flavie, the interior of station was overhauled and repaired. Necessary repairs were also made to the station platform and floors of roundhouse.

At Ste. Luce, the interior of station was repaired, and four storm sashes provided.

At Rimouski, the station platform and building were overhauled and repaired.

At Bic, the station platform was lengthened 50 feet.

At St. Fabien and St. Simon, new doors were provided for the stations.

At St. Arsène, a new floor was laid in the freight shed.

At Rivière du Loup, the brick walls of six engine pits in the roundhouse were overhauled and repaired. The stone ash pit outside of the roundhouse was rebuilt, and a box drain leading from the ash pit provided.

At Old Lake Road, a new cattle pen was provided, and the platform renewed.

At St. Alexandre, the station platform was renewed.

At St. Charles, a new hardwood floor was laid in the station.

At St. Henri Junction, the station platform was renewed.

At Etchemin, the platform was renewed.

Bridges and Culverts.

A new floor was laid on the overhead bridge at the junction of Campbell Road and Water Street, Halifax.

At Shubenacadie, one of the old piers under the long span box girder bridge, was taken down and replaced with a pier built of first-class ashlar masonry, at a cost of about \$1,200. The masonry of this bridge was of a very inferior quality, and will all require to be renewed before it is satisfactory.

At Stewiacke, an old broken-down culvert, 60 feet long, was renewed with iron pipe 24 inches in diameter, set in a suitable bed of concrete, and provided with neces-

sary wing walls to retain the embankment at either end.

Between Truro and Valley, two broken down stone culverts, one 40 feet and the other 24 feet long, were replaced with 12-inch and 24-inch iron pipes, set in concrete, and provided with suitable retaining walls at either end.

A gang of masons was engaged about 5 weeks in general repairs to culverts and bridges on the eastern division, between Halifax and Stellarton.

At New Glasgow, the ties of an iron plate girder bridge were renewed.

At Pine Tree Creek, east of New Glasgow, three new pile bents were put in to replace those cut out and destroyed by the sea worms. It will be necessary to wholly renew this structure next year at a cost of between three and four thousand dollars.

The ties and floor timbers of the new through steel span at Sutherland's River

were painted.

The steel spans at Merigomish, Dewar's Mills and James River, were all scraped and painted.

Necessary repairs were made to the short spans at Murphy's Mills and Grant's

Brook.

At Sutherland's River, the old 160-feet Howe truss was taken out and replaced with a through steel Pratt truss, of 160-feet clear span, at a cost of \$9,718. The necessary ashlar masonry was built on the old abutments to accommodate the new span, at a further cost of \$500. This new span was provided with a standard top and iron guard rails.

A trestle bridge near Pomquet, damaged by fire on the 20th of June, was almost wholly renewed.

At Pomquet River, new pile bents were put in to replace those cut out and damaged by the ice.

At Monastery, an old wooden Howe truss was replaced by a 40 feet steel deck girder, covered with a standard hard pine top and iron guard rails, chocks, etc.

At Pirate Harbour, a box drain 120 feet long was put in to avoid damages caused to the public road adjoining, and to private property.

A cedar box culvert, 3 by 6 feet and 24 feet long, was put in near Forty-Mile Post,

and another of the same kind 24 feet long, at 31-Mile Post.

Three pairs of hemlock timber cattle guards between New Glasgow and Antigonish,

were renewed with heavy flatted cedar.

Four steel spans of the Grand Narrows bridge, over the Bras d'Or, were thoroughly overhauled, scraped and painted. This work was done by the day, the department furnishing the materials, as it was found that the contractors could not be relied upon to paint it by the yard. In heavy storms, the salt water spray flies over it, and it is with great difficulty that paint can be kept on the lower members of it. The timber foundation of the east abutment was badly eaten by sea worms, and a facing of creosoted piles was driven to protect it; these were afterwards covered with a body of riprap to protect them from the ice.

Heavy repairs were made to a stone culvert west of Iona, rendered necessary on account of the foundation, which is of plaster, dissolving, and allowing the masonry to

settle.

The trestle bridge at Brown's Point, near Pictou, was thoroughly overhauled and repaired. 400 ties 6 by 8 inches, 12 feet long, and 28 ties 6 by 8 inches, 28 feet long, were renewed. The bents thrown out of line by the action of the ice last winter were hauled back into place. The piles of the structure, which are of creosoted pine, have, as far as can be ascertained, not been attacked by worms. Test pieces of timber similar to the piles, have been placed at four different points along the bridge. These are hauled out annually, and examined carefully, but to date show no indications of being attacked by the worms.

At Debert River, three iron spans of 103 feet each, were carefully gone over by a

gang of rivetters and some considerable repairs made.

At Folly, one span of 100 feet was provided with a system of lateral bracing, and a new standard top of pitch pine, fitted with iron guard rails.

A gang of masons was engaged about three weeks overhauling culvert and bridge masonry between Truro and Painsec Junction.

Seven sets of hemlock timber cattle guards were renewed with cedar, between Truro and Painsec Junction.

A new cedar culvert was put in near Sackville, to take the water from the east side, and thus avoid maintaining long side ditches.

On the Western Division, a broken down culvert on the Shediac branch was Three other arch culverts on section 41, were overhauled, repaired and pointed. A new standard floor was put on Jardine's Bridge, near St. John. Necessary repairs were made to the swing-bridge at the ballast wharf, and to the over-head bridge at the foot of Dorchester Street, St. John.

On Northern Division No. I, two cedar box culverts were put in, one on section 63, and the other on section 64. The former was 150 feet long, and the latter 70 feet long.

A wing wall of Barnaby River bridge, thrown down by the frost, was rebuilt.

pairs of hemlock timber cattle guards were renewed with cedar.

At Red Pine, two 44 feet iron plate girders were replaced with heavy steel plate girders fitted with standard bridge floors and iron guard rails. These old girders had become too light for the heavy rolling stock now in use. The light girders were shipped to the Prince Edward Island Railway, for which they will be heavy enough.

The floors of the two over-head bridges near Bathurst were renewed.

The masonry of the bridges between Jacquet River and Dalhousie were thoroughly overhauled and pointed where necessary.

New cedar culverts were put in at Flat Lands, Cedar Hall and Little Metis.

At Trois Pistoles, the cedar retaining walls at the foot of the embankment were overhauled and partially renewed, the timbers being seriously damaged by the action Additional stone filling was put in this cribwork.

At River du Loup, cedar cribwork was built between the railway and the public

street, to prevent ashes from the roundhouse obstructing the street.

A gang of masons and labourers was engaged in overhauling and rebuilding the masonry on the division between River du Loup and Lévis, for about three months.

A careful examination of the stresses of the tubular bridge at Etchemin (of 156 feet clear span), showed that its members were strained to a greater degree than was prudent, and offers were invited for strengthening it. These offers showed that it would be much cheaper to put in an intermediate pier between the abutments to support the tube at the centre, and this was provided at a cost of about \$3,000. A very heavy freshet last April damaged this pier, but the repairs have been made without the necessity of taking it down. A large body of riprap has been placed about the pier to prevent a repetition of such an accident.

The following bridges were overhauled, scraped and painted during the past year:

Morrison's River Br	ridge	1	span	28	feet.
McKinnon's Harbour		1	•••	60	"
French River	"	1	"	85	"
James River		1	"	87	"
Dewar's Mill	"	1	"	84	"
Dewar's Trestle	"	5	"	20	"
"	"	1	"	28	"
"	"	1	"	23	"
Sutherland's River	"	1	"	165	"
Black River	"	1	"	101	"
	t Union	1	66	54	"
Truro over-head Brid	ge and approaches	2	"	106	"
"	"	1	"	92	"
McManus Brook	46	1	"	5 6	"
Memramcock River	"	1	"	64	"
Rimouski	•	5	"	87	"
Etchemin Over-head	"	1	"	36	"

Miscellaneous.

The road crossings and sign boards between Shediac and St. John were repainted and relettered where found necessary.

A large quantity of filling has been deposited between the new brick freight shed and the cribwork at the Deep Water Terminus, Halifax.

Four 6-ton Gurney scales were provided for the new freight shed, Halifax.

A stone retaining wall, 119 feet long and 5 feet high, was erected between the railway and Cunard's boundary, at the south end of the railway property. A retaining wall 65 feet long, and 6 feet wide, and 6 feet high, was also built to keep back the earth slope from one of the warehouses of the Marine and Fisheries Department.

A first class water supply, both for domestic and fire purposes, has been provided at the Deep Water Terminus. Stand pipes with hose attached, on swinging racks, have been fitted up and placed at three different points in the new brick freight shed for

fire protection.

A close board fence (1,856 feet long), extending from the Deep Water Terminus to North Street, and inclosing that portion of Water Street given by the city for rail-

way traffic, was wholly renewed.

Under an agreement with the Admiralty authorities, made when the land was acquired, the department was to provide and maintain suitable landing stages and platforms, at a place set apart for that purpose at the Deep Water Terminus, Halifax. Large repairs and renewals have been made to these stages and platforms to make them satisfactory to the naval authorities.

It was also necessary to dredge out the dock at this place, which has been filled in

by the discharge from the city sewer.

At Stellarton engine-house, a 9 inch terra-cotta pipe, 180 feet long, was put in to drain the engine pits and turn-table, and take the waste water from the shed and yard, in place of a small 4-inch pipe that was constantly being blocked up with ashes from the engine pits.

Between New Glasgow and Mulgrave, 16 sets of new standard switch gear, fitted with Hopper's patent safety locking bar, were put in to replace the old fashioned gear that had been in use since this division was taken over from the Nova Scotia Govern-

ment.

On the Oxford and New Glasgow, and Cape Breton Divisions, working trains were engaged about four weeks cleaning out cuttings, and widening embankments which had settled down by the action of the frost in the spring of the year. This work cost about \$6,000. It will be some years yet before the cuttings on these divisions reach their

A working train was engaged between Truro and Amherst, cleaning cuttings, about

three weeks.

Dartmouth Branch.

This branch extends from Windsor Junction to a connection of the old line at Tuft's Cove, a distance of 101 miles, thence by the old line through Dartmouth to the Woodside Sugar Refinery, a further distance of four miles.

The contracts for grading, let early in 1895, were completed on the 15th of Novvember of the same year. There was not suitable material for making the embankments between Waverley and Tuft's Cove, and it was found necessary to haul it by train, from Windsor Junction. This work was done by the department by day's labour.

It was started before the completion of the contractors' work.

A deep bog hole near Waverley and two heavy embankments across arms of Lake William, had to be made up before any work could be done at the lower end with a train. When these were got over, the season was too far advanced to finish the work. The winter set in, and it was consequently shut down until about the first of April. At this date, the work was put in hand again, and sufficiently advanced to open the branch for traffic, on the first of June. Some of the embankments had not been made up to full height, nor had more than one half of the ballasting been done. Since that date there have been no funds available, and there has been practically nothing done.

In connection with this branch, a Y was built to connect with the Windsor

Branch.

At Windsor Junction, the passenger station and freight shed were both enlarged to meet the expected increase of traffic on the branch. A water supply was carried

from the tank to the station, and modern water-closets fitted up in the ladies' waiting A one-stall engine-house, for the accommodation of the engine, was built at this place.

At Waverley, a first-class station and freight house 50 feet long, and 25 feet wide, were erected at a cost of \$3,595. A long siding and loading platform were also provided at this place, from which a large business is expected from the Acadia Powder

At Dartmouth, additional land was acquired to enlarge the station ground and make room for a new freight shed, and afford a site for an engine-house and turn-table. The freight shed and engine-house have been completed, and the turn-table is under

The old station was enlarged by converting the freight-house at the east end into a general waiting-room and baggage-room, and the former general waiting-room into a ladies' waiting room. A verandah 7 feet wide was put up on the front and south sides of the station. Hardwood floors were laid in the office and waiting room.

It was necessary to excavate about 4,000 yards of solid rock to make room for the new freight shed and the approaches thereto. This material was deposited in the embankment on the west side, and made up the site on which the engine-house was built.

A six-inch water pipe line, connecting with their service, has been laid by the town authorities to the rear of the station for which it is proposed to supply the station and also the locomotives on the branch.

Some heavy repairs and renewals have been made to the pile trestles and cribwork

on the old line, between Tuft's Cove and Woodside.

A cribwork 200 feet long, 20 feet wide, and 14 feet high, was erected on the property recently acquired from Messrs. Oland for enlarging the station ground. This was necessary to protect the embankment which was exposed to heavy seas at this point.

> I have the honour to be, sir, Your obedient servant.

> > P. S. ARCHIBALD,

Chief Engineer.

D. Pottinger, Esq., General Manager, Government Railways, Moncton, N.B.

No. 1.—INTERCOLONIAL RAILWAY.

	Dr.	CAPITAL ACCOUNT, Year ended 30th June, 1896.	Year ende	1 30th J	une, 18	.96.		CR.
	1895.		& cts.	90	cts.	1895.		s cts.
ب	une 30.	Railway to date. nsion Railway to date. lew Glasgow Railway to date. Railway to date. and Oxford and New Glasgow to date.	47,752,440 92 1,324,042 81 1,950,740 20 3,864,010 94 53,241 50 63,463 03	KE 007 090 A0		me 30.	June 30. By Dominion of Canada	55,007,939 40
<u>ب</u>	June 30.	Expenditure for current year:— Intercolonial Railway:— Increased accommodation, Halifax Increased accommodation, Moncton do do Sydneys Rolling stock Construction (criginal) St. Charles Branch Indianches Branch Branch from or near Bedford to Dartmouth	124,910 63 1,000 00 11,374 41 10,000 00 1,948 35 1,271 96 1,486 10	50, 100, 100, 100, 100, 100, 100, 100, 1				
48		Oxford and New Glasgow Section	259,343 02 80 40 259,423 42 318 19			1896.		
		Tools formed by a capture of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source of source		259,105 23 55,267,044 63		June 30.	By Dominion of Canada	55,267,044 63
1		E.	E. & O. E.				T. WILLIAMS,	

Moncron, N.B., 30th June, 1896.

Chief Accountant and Treasurer.

No. 2.—INTERCOLONIAL RAILWAY.

DR. REVENUE ACCOUNT, Year ending 30th June, 1896.

CR.

Previous Year.	Expenditure.	Year ended 30th June, 1896.	Previous Year.	Earnings.	Year ended 30th June 1896.
\$ cts.	Locomotive power, abstract 1	\$ cts. 993,801 39		Passenger traffic.	\$ cts. 971,426 26
651,031 19	Car expenses, " 2	659,525 46	1,782,608 54	Freight traffic	1,788,813 18
	Maintenance way & works " 3		194,194 97	Mails and sundries	197,400 66
	Station expenses "4 General charges "5	383,895 37 199,985 80			
	Car mileage	1.063 35			
	Cur mileage	1,000 00	·		
2,936,902 74	Total working expenses	3,012,827 62	2,940,717 95		2,957,640 10
3,815 21	Balance			Balance	55,187 52
2,940,717 95		3,012,827 62	2,940,717 95		3,012,827 62

E. & O. E.

T. WILLIAMS,

Moncton, N.B., 39th June, 1896.

Chief Accountant and Treasurer.

No. 3.—INTERCOLONIAL RAILWAY.

LOCOMOTIVE POWER—(Abstract No. 1.)

Previous Year.		Year ende 30th June 1896.	
266,207 80 427,404 50 31,216 63 250,521 48 37,458 65	Mechanical superintendent's salary, clerks, office and travelling expenses Wages: drivers, firemen and cleaners Fuel Oil, tallow, waste and small stores. Repairs to engines, tenders and engine tools. Water, including pump and tank repairs Miscellaneous.	11,573 264,604 408,861 28,224 230,257	16 78 41 00 62
1,043,656 57		993,801	39

E. & O.E.

Moncton, N.B., 30th June, 1896.

T. WILLIAMS,

Chief Accountant and Treasurer.

No. 4.—INTERCOLONIAL RAILWAY.

CAR EXPENSES—(Abstract No. 2.)

revious year.		Year endi 30th June 1896.	
22,743 41 183,153 70 8,923 27 253,802 78 18,883 41	Repairs to passenger cars Repairs to postal, express and baggage cars Repairs to freight cars and vans Repairs to snow ploughs and flangers Wages of conductors, train baggage-masters and brakemen Oil and waste for packing Small stores and fuel Miscellaneous	205,191 6,176 255,412 15,098	61 07 64 41 68 59 04
651,031 19		659,525	46

E. & O. E.

Moncron, N. B., 30th June, 1896.

T. WILLIAMS, Chief Accountant and Treasurer.

No. 5.—INTERCOLONIAL RAILWAY.

MAINTENANCE OF WAY AND WORKS-(Abstract No. 3.)

revious Year.		Year endi 30th June 1896.	
\$ cts.			ts.
6,193 93 339,826 48	Chief and assistant engineers' salaries, clerks, office and travelling expenses Wages, repairing roadway, fences, semaphores, including new sidings laid	5,858	19
•	in	353,687	70
46.868 81	in	54,041	94
38.815.90	Ties	87,920	23
102.834 65	Ties	82,451	79
7.824 78	Repairs to wharfs.	72,080	
62.816.50	Repairs to wharfs	•-,	
02,020 00	same	62,272	71
8.343 53	same. Repairs to tools	8,245	
64.122 81	Clearing snow and ice	42,454	
1,821 00	Miscellaneous	5,543	
679,468 39		774,556	25

E. & O. E.

T. WILLIAMS,

Moncton, N. B., 30th June, 1896.

Chief Accountant and Treasurer.

No. 6.—INTERCOLONIAL RAILWAY.

STATION EXPENSES - (Abstract No. 4.)

Previous Year.		Year ending 30th June, 1896.
\$ cts. 292,104 34 78,598 40	Salaries and wages of station masters, agents, clerks and telegraph operators, station baggage masters, yard masters, switchmen and labourers. Fuel, oil and light, stationery, tickets and other incidental expenses	\$ cts. 303,796 20 80,099 17
370,702 74	,	383,895 37

E. & O. E.

T. WILLIAMS.

Chief Accountant and Treasurer.

Moncton, N. B., 30th June, 1896.

No. 7.-INTERCOLONIAL RAILWAY.

GENERAL CHARGES—(Abstract No. 5.)

Previous Year.		Year end 30th Jun 1896.	
\$ cts.		*	cts.
	General manager's, district superintendents', train despatchers', general freight agent's, general passenger agent's salaries, clerks, offices and travelling expenses	82,844	i 16
26,985 66	Chief accountant and treasurer's, traffic auditor's, paymaster's and cashier's salaries, clerks, offices and travelling expenses	27,932	2 94
5,909 58	Damages to men, animals and goods	12,386	
35,236 97	Ferry service	25,959	
1,475 23	Telegraph expenses, not including pay to operators		
24.561 66	Miscellaneous, printing, advertising, &c	30,438	81
	Agency expenses	17,692	
188,488 43		199,98	5 80

E. & O. E.

Moncton, N.B., 30th June, 1896.

T. WILLIAMS, Chief Accountant and Treasurer.

DR.	GENE	RAL STORES	ACCOUNT, Y	ear ending	GENERAL STORES ACCOUNT, Year ending 30th June, 1896.		CR.	}
1895. June 30	1895. June 30 To Balance	es cts.	\$ cts.	1896. Inne 30	1896. Irmo 30 - Ry Leanes chrino year	\$ cts.	## ### ### ###########################	cts.
	To Purchases during year Charges from other departments	1,040,807 42			Sales materials, fuel, &c., to other railways, &c	29,770 37	1,423,639 63	83
	Labour, &cStaff pay rolls.	50,189 16	1,498,141 22		By Balance:— Ordinary stores, including fuel	388,029 26		
51					Iron and steel rails and fastenings	265,113 13	765,848 89	68
			2,189,488 52		•		2,189,488 52	22
10 10 11					T WILLIAMS			

T. WILLIAMS,

Chief Accountant and Treasurer.

Moncion, N.B., 30th June, 1896.

No. 8.—INTERCOLONIAL RAILWAY.

. :	1896.
ILWA)	June, 1
$\mathbf{K}\mathbf{A}$	30th
NIAL	ended
COIO	Year
-INTERCOLONIAL RAILWAY.	GENERAL BALANCE. Year ended 30th June,
No. 9.—1	GENERAL

	DR. GENERAL BA	BALANCE, Year	No. 9.—INIERCOLONIAU RAILWAI. NERAL BALANCE, Year ended 30th June, 1896.	C _R .
	nings	\$ cts. 372 35 45,685 53 765,848 89		\$ cts. 3,513 50 3,513 50 1,085 62 89 99 52 74 247 19
	Militia and Defence 2596 33 Post Office 85.94 100 Agriculture 132 00 Public Works 1,131 75 C. P. R. rolling stock 1,131 40 Quebec Central Railway Fraffic 8 5,891 09 do do general 4,651 98	39,802 34 22,446 90 4,295 76	Cumberland Railway and Coal Company	2 00 0 0 0 431 38 431 38
52	Dominion Atlantic Railway—general New Brunswick and Prince Edward Island Railway Karaquet Railway Kart Northern Railway Prince Edward Island Railway Canadian Pacific Railway—general account. 8 13,644 74 do do N.B. Division. 7,656 15	715 51 7 03 441 81 5 94 591 95 21,300 89		
	Buctouche and Moncton Railway Bay Chaleur Railway Egin and Havelock Kailway Egin and Maine Railway Boston and Maine Railway New York, New Haven and Hartford Railway Michigan Central Railway Cincinnati, Hamilton and Dayton Railway Central Vermont Railway St. John Street Railway Western Counties Railway Accentral Railway St. John Street Railway St. John Street Railway St. John Street Railway St. John Street Railway St. John Street Railway St. John Street Railway St. John Street Railway	25. 25. 26. 27. 28. 28. 28. 28. 28. 28. 28. 28. 28. 28		
	sboro' Railway reton Railway way way	15,957 92 3,161 99 1,151 42 726 10 2 35 150 00		

	1,002,504 23	Treasurer.
	Total	T. WILLIAMS, Chief Accountant and Treasurer.
8.88 8.88 8.89 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.80 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00	1,002,504 23	
To Moncton Street Railwav Rents Canadian Express Company Allan SS. Line International SS. Company SS. "Admiral" SS. "Admiral" SS. "Admiral" SS. "Company SS. "Admiral" SS. "Company Intercolonial Coal Company V. U. Telegraph Company V. U. Telegraph Company V. U. Telegraph Company V. U. Telegraph Company V. U. Intercolonial Coal Company V. U. Telegraph Company V. U. Telegraph Company V. U. Telegraph Company V. U. Or Rearing Company V. U. Or Rearing Company V. U. Or Rearing Company V. U. Telegraph Company V. U. Telegraph Company V. U. Telegraph Company V. U. Telegraph Company V. U. Telegraph Company V. U. Telegraph Company V. U. Telegraph Company V. U. Telegraph V. U. Telegraph V. U. Telegraph V. U. Telegraph V. U. Telegraph V. U. Telegraph V. U. Telegraph V. U. Telegraph V. V. U. Telegraph V. V. U. Telegraph V. V. U. Telegraph V. V. U. Telegraph V. V. U. Telegraph V. V. U. Telegraph V. V. U. Telegraph V. V. U. Telegraph V. V. U. Telegraph V. V. U. Telegraph V. V. U. Telegraph V. V. U. Telegraph V. V. U. Telegraph V. V. U. Telegraph V. V. U. Telegraph V. V. U. Telegraph V. V. U. Telegraph V. V. U. Telegraph V. V. U. Telegraph V. V. U. Telegraph V. V. U. V. V. V. V. V. V. V. V. V. V. V. V. V.	Total	E. & O.E. Moncroy, N.B., 30th June, 1896.

No. 10.—INTERCOLONIAL RAILWAY.

COMPARATIVE STATEMENT of Averages, Year ended 30th June, 1896.

	1896.	1895.
Mileage of railway. Engine mileage Train mileage Car mileage	1,142 4,714,661 3,842,502 43,005,684	1,142 4,879,981 3,919,242 45,277,909
Receipts per engine mile	62·73 2,589 88	60 · 24 2,575 06
Percentage of passenger earnings to gross earnings do freight do do do other do do	32·85 60·48 6·67	32·77 60·63 6·60
Expenses per engine mile:— Drivers', firemen and cleaners' wages	5·61 8·67 ·60 4·88 ·67 ·40	5·46 8·76 64 5·13 ·77
Total	20 83	21 15 24
Total	21.08	21 · 39
Locomotive power per engine mile Cents Car expenses per engine mile do Maintenance way and works per engine mile do Station expenses do do General charges do do Car mileage do do	21 · 08 13 · 99 16 · 43 8 · 14 4 · 24 · 02	21 · 39 13 · 84 13 · 92 7 · 60 3 · 84 · 07
Total per engine mile	63.90	60.10
Locomotive power per train mile	25·86 17·16 20·16 9·99 5·21	26 09 16 28 16 99 9 27 4 77
Total per train mile	78.41	73.4
Working expenses per mile of railwayDollars.	2,638 20	2,571 7

E. & O. E.

T. WILLIAMS,

Moncton, N.B., 30th June, 1896.

Chief Accountant and Treasurer.

Intercolonial Railway of Canada, Office of the Mechanical Superintendent, Moncton, N.B., 10th August, 1896.

SIR,—I beg to submit for your information the following statements :—

A.—Statement showing the number of locomotives and of the various classes of cars.

B.—Statement showing the locomotive and car mileage, and the number of passenger and freight cars hauled per mile run by engines.

C.—Abstract of locomotive returns.

D.—Statement of the cost of locomotive power for each month during the year.

E.—General statement of the expenses of the mechanical department during the

Eighty-seven box cars, 195 platform cars, 101 hopper cars, 3 refrigerator cars, 7 large coal cars, and 3 snow ploughs were taken out of service, and replaced by the same number of new ones.

The following is a summary of the principal work done:

DRAWING OFFICE.

New extended wagon top boiler designed for B 7 class, also new framings for B 7 and 11 classes, new cabs for B 9 and 14 classes.

Drawings made of standard 3,500 gallons tender tank, standard piston crossheads and springs for various classes.

General drawings made for new refrigerator cars, new 6-ton hopper cars, and new

snow ploughs.

Detail drawings made for locomotive repairs, swing crane, traveller, hand power drilling machine, foundation and shafting for Moncton stationary engine, arrangement of boilers and house for heating Moncton roundhouses, floor plans and internal fittings of various cars.

Registers of locomotive repairs, and water service kept. New materials supplied on specifications, tested and reported on.

MONCTON LOCOMOTIVE SHOPS.

Five passenger locomotives, Nos. 148, 152, 153, 163 and 164 were "rebuilt" at a cost of \$6,540 each, with new boilers complete. All boiler mountings and injectors new. Frames strengthened up. New cylinders, crossheads, and guides complete. New driving wheels, tires, axles, crank pins, and axle boxes. New underhung driving springs and gear. New fluted side rods. New cabs, heavy C. I. foot plates, and C. I. running boards. New engine trucks complete. New improved Westinghouse air brake complete.

Two passenger locomotives Nos. 55 and 66 were "rebuilt" at a cost of \$5,500 each, with new boilers complete. All boiler mountings and injectors new. New front and back ends on frames. New cylinders, crossheads and guides complete. New driving tires, axles and crank pins. New springs and gear. New fluted side rods. New cabs,

foot plates, and running boards. Westinghouse brake improved.

Two freight locomotives, Nos. 109 and 111, have been "rebuilt" at a cost of \$5,900 each, with new boilers complete. All boiler mountings and injectors new. New ends on front frames. Back frames strengthened up. New cylinders, crossheads and guides complete. New driving tires, axles, crank pins and axle boxes. New springs and gear. New fluted side rods. New cabs, foot plates, and running boards. Westinghouse brake improved.

One passenger locomotive No. 130 repaired at a cost of \$4,280 with large second hand repaired boiler. New set boiler tubes. New smoke box and stack. Frames cut,

lengthened, and strengthened up. I new injector. New driving tires. New fluted side

rods. Westinghouse brake improved.

Forty-six locomotives received heavy repairs and 56 had specific repairs, the following new parts being supplied: -2 new inside fire boxes, 1 new tube sheet, 6 new fire box half side sheets, 1,075 new tubes, 1 new cylinder, 8 new driving wheels, 70 new driving tires, 3 new driving axles, 7 new engine truck axles, 8 new main rods, 34 new fluted side rods, 68 new crank pins, 2 new cabs. 19 new pilots, 2 new piston crossheads.

Fifthty-six locomotive boilers were tested, 31 fire boxes were patched, 5,084 tubes

were pieced.

Five locomotives were equipped with steam heaters.

One hundred and fourteen pair driving tires were turned, 57 truck wheels were re-tired, and 14 truck tires bored out. .

Fifty engines and tenders were repainted and varnished, 6 engines and tenders were renovated and varnished.

One new boiler built complete for water service.

One new tube sheet, and new set of tubes put in water service boiler.

Two old locomotive boilers patched and repaired for heating Campbellton round-

One old locomotive boiler patched and repaired for Moncton shop boiler-house.

MONCTON BRASS FOUNDRY.

58,264 lbs. brass castings. 131,830 " " bearings.

MONCTON CAR SHOPS.

Three refrigerator cars were built of Douglass fir complete, and equipped with Westinghouse air brake, "Moore" burglar proof doors, and automatic couplers.

Ninety freight cars were "rebuilt" and 1 wing plough.

The following received heavy repairs: — Governor General's car "Victoria," official car "Ottawa," 10 sleepers, 4 parlours, 3 second-class sleepers, 32 first-class cars, 34 second-class cars, 17 postal cars, 24 baggage cars, 12 vans, 582 freight cars.

The following received medium repairs:—1 first class car, 4 second-class cars, 1

postal car, 1 baggage car, 9 snow ploughs, 5 flangers.

The following received light repairs: -2 sleepers, 8 second-class sleepers, 46 fiirstclass cars, 61 second-class cars, 12 postal cars, 6 baggage cars, 41 vans, 12 snow ploughs, 4 flangers, 3,602 freight cars.

The following were repainted or stained, and varnished:—Governor General's car "Victoria," 2 sleepers, 2 second-class sleepers, 19 first-class cars, 24 second-class cars, 7

postal cars, 14 baggage cars.

The following were renovated and varnished: -Official car "Ottawa," 8 sleepers, 4 parlours, 1 second-class sleeper, 13 first-class cars, 11 second-class cars, 9 postal cars, 11 baggage cars.

595 freight cars, 14 vans, 8 snow ploughs, and 2 flangers were repainted.

Special work was done as follows:

Sleeper "Halifax."—Lavatory and water-closet added to the state-room. fittings of white Ajax metal. All windows fitted with new "Acme" blinds.

Sleeper "Amherst."—State room converted into a smoking room, and fitted with side

doors. Gentlemen's toilet arrangements and W. C. altered and rearranged.

Sleeper "Metapedia."—All seats fitted with new high backs and re-upholstered throughout with new plush. All lamps and fittings replated. Windows all fitted with Lavatory and W. C. added to the state-room. New fittings of new "Acme" blinds. white Ajax metal.

Sleeper Miramichi."—Lavatory and W. C. added to the state room. of white Ajax metal. All lamps and fittings replated. Windows all fitted with new "Acme" blinds.

Sleepers "Restigouche" and "St. John."—Lavatory added to state-room. Men's lavatory altered to open out of smoking room. All lavatory fittings new throughout of white Ajax metal. All hoppers renewed with flushing water-closets.

Two hundred and nineteen freight car trucks were built.

Three hundred and fifty-six pair steel tired wheels were turned.

One hundred and forty-two new axles were turned.

One thousand four hundred and thirty-three old axles were trued up.

Two thousand eight hundred and thirty-two new wheels were pressed on axles.

One thousand four hundred and twelve second-hand chilled wheels were pressed or

One thousand four hundred and twelve second-hand chilled wheels were pressed on axles.

Three hundred and twenty-eight second hand steel wheels were pressed on axles.

Three freight cars were equipped with the Westinghouse air brake.

A large amount of work was done to freight and baggage trucks, chairs, safes, ticket cases, footboards, and other articles for out stations.

RIVIÈRE DU LOUP SHOPS.

Seventeen locomotives received heavy repairs, and 22 had specific repairs, the

following new parts being supplied:-

One new driving wheel, 16 new driving tires, 3 new driving axles, 4 new crank pins, 15 new driving boxes and brasses, 2 new pistons, 3 new crossheads, 2 new cylinder saddles, 2 new heavy footplates, 2 new extension smoke boxes, 5 new smoke stacks, 1,281 new tubes, 5 new pilots, 2 new tender trucks, 2 new tender frames.

Sixteen locomotive boilers were tested; 10 fire boxes were patched.

Thirty-three pair of driving tires were turned.

Sixteen engines and tenders were repainted and varnished, and I engine and tender renovated and varnished.

RICHMOND SHOPS.

Eight locomotives received heavy repairs, and 40 had specific repairs, the following

new parts being supplied :-

One new smokebox with extension, 120 new tubes, 4 new smoke stacks, 6 new driving boxes, 2 C.I. running boards, 12 new crank pins, 4 new slide valves, 2 new valve rods, 2 new pilots, 1 new tender frame, 6 new tender trucks, 1 new injector.

Seven locomotive boilers were tested, 7 fire boxes were patched.

Sixteen pair of driving tires were turned, 8 engines and tenders were repainted and varnished, and 1 engine and tender was renovated and varnished.

PLANT AND MACHINERY.

"Corliss" stationary engine 17x42 from Halifax elevator, rebuilt throughout at Moncton, and placed in Moncton machine shop, fixed with new shaft and driving pulley, new plummer block, brasses, and W. I. cap. New steam pipes and connections. Engine painted and railing fitted round it.

One new section of shafting with new pulley erected over stationary engine.

Overhead travelling crane built out of old rails, and erected in boiler shop for use of boiler rolls and punches.

Large new driving wheel lathe made by the London Tool Co. repaired.

Belt trip hammer in blacksmith's shop given a general repair.

Bolt heading machine in blacksmith's shop thoroughly overhauled and repaired.

One new pneumatic hammer purchased for boilermakers, for beading and caulking tubes, etc.

Three second-hand boilers from the car shops at Moncton repaired, and bricked up in new boiler-house, to heat both roundhouses and to hoist coal.

TURNTABLE REPAIRS.

Newcastle.—Broken arm repaired with 4 heavy 1-in. W. I. plates. Remaining 3 arms strengthened with W. I. plates.

Mulgrave.—One wheel and tin supplied.

St. John.—One second hand girder complete supplied.

Stellarton.—Two new wheels bored and fitted.

Pictou.—One new heavy centre bolt 3-in. diameter put in with new nuts.

Richmond.—Defective end girder removed and replaced with spare one. New heavier centre bolts.

Hadlow.—New set centre bolts 13-in. diameter. Centre case of roller bearings repaired.

WATER SERVICE.

Richmond.—New 50,000 gall. tank with stone foundations built complete. 120 ft. 6-in. cast-iron pipe laid. Old tanks in engine house removed.

Truro.—New 50,000 gall. tank with stone foundations built complete. 300 ft. 4-in. cast-iron pipe laid. Old tanks in round house removed.

Rimouski.—New 50,000 gall. tank with stone foundations built complete.

Amherst.—New 6-in. water gate in crane. New crane pipe.

Antigonish.—New trestle under tank. Hoops cut and shortened. Tank repainted.

Assametquaghan.—Reservoir cleaned and repaired.

Bathurst.—Steam pump repaired. Boiler changed. New smoke pipe. cleaned and repaired.

Bayfield Road.—New trestle under tank. Hoops cut and shortened. Tank repainted. New stove.

Boisdale.—Twelve new sails in windmill.

Canaan-Boiler repaired. New smoke pipe.

Campbellton.—Reservoir and pipe repaired. Fire hydrant repaired.

Chaudière.--Pump repaired.

Dalhousie.—Reservoir cleaned and repaired. Crane repaired.

Dalhousie Junction.—Tank pipe repaired. Reservoir cleaned and repaired.

Hadlow-Steam pump repaired.

Jacquet River.—Reservoir cleaned and repaired. Pipes repaired.

L'Islet. - Boiler tested. New boiler mountings. Furnace repaired. New smoke stack.

Metapedia.—Reservoir cleaned and repaired.

Millerton.—New trestle under tank. Reservoir cleaned.

Millstream.—Repaired and cleaned reservoir. New smoke pipe.

Moncton.—New fire hydrant opposite passenger station.

Mulgrave.—New tank trestle. Hoops cut and shortened. Repainted tank. Cleaned out reservoir.

North Sydney.—4 new sails in windmill. Oxford Junction.—Steam pump repaired.

Piedmont.—New trestle under tank. Hoops cut and shortened. Tank repainted. Reservoir cleaned out and repaired. New stove.

Point Tupper.—Ditch from spring to windmill cleaned out a distance of 500 feet.

Pugwash.—Windmill tower removed. Casing and piping removed from bore hole.

Pugwash Junction.—Temporary boiler put in during dry season.

Portage Ballast Pit.—New hand pump and tank pipe.

River John.—Windmill and pump repaired. Rogersville.—Pump and tank pipes repaired.

Rivière du Loup.—Reservoir cleaned out. Station water pipes repaired.

Sacré Cœur.—New crane pipe. Reservoir cleaned and repaired. Sussex.—Station water pipes connected to tank. New smoke pipe.

Springhill Junction.—Boiler changed. New smoke and tank pipes.

St. Fabien.—New trestle under tank. Hoops cut and shortened. Tank repainted. Steam pump repaired. New smoke pipe. Boiler feed pipes and gauge repaired.

St. Valier.—Steam pump repaired. Ste. Luce.—Windmill pump repaired.

St. Pierre.—New smoke pipe. Boiler feed pipes and stove repaired.

Ste. Flavie.—New trestle under tank. Hoops cut and shortened. Tank repainted. Put in 24 feet 6-in. cast iron pipe and 6-in. water gate. Steam pump repaired.

St. Paschal.—Crane repaired.

St. Charles.—New tank pipe. Boiler feed and exhaust pipes repaired.

Sydney.—Took down and stored windmill tower. Tank repaired.

Trois Pistoles.—Reservoir cleaned. New smoke pipe in tank. Westbay Road.—Windmill repaired.

I hereby certify the rolling stock to be in good condition.

I have the honour to be, sir,

Your obedient servant,

FRANCIS R. F. BROWN,

Mechanical Superintendent.

D. Pottinger, Esq., General Manager, Government Railways, Moncton, N.B.

A.—INTERCOLONIAL RAILWAY.

STATEMENT showing the number of Locomotives and of the various classes of Cars on the 1st July, 1895, and on the 30th of June, 1896.

JOHN SUTTON,
Mechanical Accountant.

Moncron, 30th June, 1896.

B.—INTERCOLONIAL RAILWAY.

STATEMENT of Locomotive and Car Mileage year ended 30th June, 1896.

	LOCOMOTIVE MILEAGE.	MILEAGE.		CAR MILEAGE.	LEAGE.				
Момтнв.	Passenger.	Freight.	Passenger.	Express, Postal and Baggage.	Freight.	Tetal.	Snow Ploughs.	Average Passenger	Average Freight.
1895—July	123,777	196,459	594,642	284,052	2,630,902	3,509,596	851	7.01	13.39
	. 126,152	186,470	589,772	276,371	2,506,095	3,372,238	82	28.9	13.44
September	. 106,471	200,323	509,418	258,334	2,731,004	3,498,756	:	7.21	13.63
	107,028	229,578	477,517	261,293	3,148,277	3,887,087	292	06.9	13.70
November	101,327	225,790	431,174	247,413	3,314,559	3,993,146	2,616	69.9	14.69
:	102,070	226,898	447,546	248,965	3,136,825	3,833,336	2,177	6.72	13.82
96- January	109,054	207,751	441,449	242,341	2,753,273	3,437,063	7,235	6 27	13.25
	101,184	211,910	410,961	223,775	2,690,506	3,325,242	26,375	6.27	12.69
March	106,833	214,418	428,246	239,294	2,770,231	3,437,771	23,795	6.24	12.92
April	. 106,610	228,338	455,384	244,211	3,193,295	3,892,890	4,221	92.9	13.93
May	103,461	212,553	437,307	235,784	2,843,020	3,516,111	184	6.20	13.37
June	110,690	197,357	478,623	254,278	2,569,547	3,302,448	:	6.62	13.02
	1,304,657	2,537,845	5,702,039	3,016,111	34,287,534	43,005,684	67,794	89.9	13.51

JOHN SUTTON,
Mechanical Accountant.

Moncron, N.B., 30th June, 1896,

C.—INTERCOLONIAL RAILWAY.

ABSTRACT of Locomotive Returns for Year ended 30th June, 1896.

	Hours	ļ		Consur	Consumption.			Average Con	Average Consumption per 100 Miles.	r 100 Miles.	
Months.	in Steam.	Mileage.	Tons of Coal.	Pints of Oil.	Pints of Valve Oil and Tallow.	Pounds of Waste.	Miles Run to 1 hour in Steam.	Pounds of Coal.	Pints of Oil, etc.	Pints of Valve Oil and Tallow.	Pounds of Waste.
1895—July	37,126	395,568	11,573	24,520	23,035	9,640	10.65	6,553	6.20	5.82	2 · 43
August	36,228	387,009	11,271	23,915	21,737	9,487	10.68	6,524	6.18	2.61	2.45
September	34,668	375,340	11,382	22,768	19,384	9,163	10.82	6,793	20.9	5.16	2.44
October	38,265	410,157	13,215	24,344	19,495	10,271	10.72	7,313	5.94	4.75	2.20
November	37,088	397,711	13,194	24,464	19,493	266'6	10.72	7,430	6.15	4.90	2.51
December	37,275	400,255	13,542	25,260	19,754	10,009	10.73	7,578	6.31	4.93	2.50
1896-January	35,914	386,444	13,197	25,077	19,178	9,950	10.76	7,649	6.49	96.9	2.57
February	36,770	386,201	13,364	26,818	19,582	9,936	10.20	7,751	6.94	20.9	2.52
March	37,520	394,737	13,601	27,853	20,872	118'6	10.24	7,713	90.2	2.28	2.49
April	38,366	408,900	13,087	28,120	21,056	10,238	10.65	7,169	88.9	5.14	2.50
. Мау	36,397	389,573	11,445	24,819	19,406	9,748	10 70	6,580	28.9	26. F	2.50
June	35,971	382,766	10,936	23,801	20,086	689'6	10.64	6,399	6.22	2.54	2.52
Totals	441,588	4,714,661	149,807	301,759	243,078	117,919	10.67	7,118	6.40	5.16	2.50

JOHN SUTTON,
Mechanical Accountant.

Moncron, N.B., 30th June, 1896.

STATEMENT of the cost of Locomotive Power for each month from 1st July, 1895, to 30th June, 1896.

D.—INTERCOLONIAL RAILWAY.

	Total	66	25 22 65	45 22 24	48 22 . 77	44 22 · 89	22.58	22.26	23.70	21.58	8.89	3.15	.34	.85	21.08
nî.	Enghouses & Turntab.	66	.22	.452	.48	.44	.67 2	.64	.63	.562	.19 18 89	.30 18.15	.02 17 34	.10 17 .85	30.5
Average per 100 miles.	Water.	66	.	.62	34	.71	86.	8	. 27	46	.18	.56	.27	12	129
100	Repairs.	69	9.92	71 6.62	69 6 07 1	70 6.54	6.43	68 4 · 63 1	.54	75 4 16	-74	47 2 . 72	2.77	<u>\$</u>	88.4
e bei	wolls, Tallow and Waste.	₩.	.74	77	69.	02.	.72 5.	-89	.73 6.54	.75	26 2 74	. 47 2	.43	.30 3·48	.594
verag	Fuel.	669	8.12	26.2	23.	98.8	46 9 10	86.8	9.31	05.	09.6	8.70	7.92	62.2	38
V	Wages.	6	2.20	25 5 67 7 92	2.298	2.42	2.46	2.30	2.21	5.439.30	2.69	22 5 48 8	2.89.9	2.22.9	25 5 62 8 68
	Mechanical Suly.	₩	97	53	97	23	.22	23	97.	25	83	27	22	-63	25.55
	Total.	e cts.	89,616 43	86,105 14	85,469 75	93,883 95	89,972 77	89,090 15	91,592 73	83,357 78	74,605 17	74,218 55	67,562 42	68,326 55	993,801 39
	Engine- houses and Turntables.	s cts.	09 626	1,743 19	1,786 83	1,797 79	2,686 14	2,530 30	2,451 71	2,161 51	762 98	1,241 19	59 51	384 72	18,585 47
~	Water.	sto &	2,507 72	2,371 44	5,438 38	2,930 39	3,912 28	4,809 74	2,776 01	3,638 28	720 01	1,075 17	1,062 59	452 61	31,694 62
Renaire	Engines, Tenders and Tools.	e cts.	27,506 67	25,617 95	22,800 20	26,832 56	21,609 54	18,540 69	25,261 01	16,054 45	10,810 21	11,115 34	10,796 72	13,311 66	230,257 00
	Oil, Tallow and Waste.	sto &	2,912 85	2,755 71	2,584 69	2,858 66	2,875 09	2,732 50	2,827 19	2,903 64	1,022 73	1,936 14	1,657 16	1,158 05	28,224 41
	Fuel.	sto &	32,123 11	30,750 63	30,906 88	36,085 15	36,246 90	35,920 90	35,986 38	36,685 01	37,895 32	35,558 53	30,889 45	29,813 52	408,861 78
,	Engine- men's Wages.	e cts.	22,542 78	21,927 54	20,985 74	22,456 39	21,751 36	23,631 16	21,288 86	20,975 08	22,454 39	22,377 35	22,117 50	22,096 01	264,604 16
Machani.	cal Supt.'s Salary, Clerks and Office Expenses.	es cts.	1,043 70	89 886	967 03	923 01	891 46	924 86	1,001 57	939 81	939 53	914 83	979 49	1,109 98	11,573 95
	Miles run by Engines.		395,568	387,009	375,340	410,157	397,711	400,255	386,444	386,201	394,737	408,900	389,573	382,766	Totals 4,714,661
	Months.	,	1895- July	Aug.	Sept.	Oct.	oN	Dec	1896—Jan	Feb	Mar	April.	May.	June.	Totals

JOHN SUTTON,
Mechanical Accountant.

Moncron, N.B., 30th June, 1896.

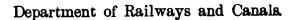
E.—INTERCOLONIAL RAILWAY.

GENERAL STATEMENT of the Expenses of the Mechanical Department, for the Year ended 30th June, 1896.

The miles run b	y trains were				. 3	,842,502
do	engines			• • • • • • • • • • • • • • • • • • • •	. 4	,714,661
do	cars				. 43	,005,684
do	snow ploughs		. ,			67,794
Cost of locomot	ive power				\$ 993	ets 3,801 39
Cost of car repa	airs :				8	cts
Repairs to	passenger cars				. 6	5,534 63
do 1	oostal, express and b	aggage			19	0,133 07
do f	reight cars and vans	3. <i>.</i>			208	5,191 6
do s	now ploughs and fla	ngers		· · · · · · · · · · · · · · · · · · ·		3,176 41
Oil and was	ste for packing				. 18	5,098 59
					311,	134 32
The cost of loca	omotive power per 10	00 miles run t	oy trai	ns	. 8	cts 25 80
do	do	do	eng	ines		21 08
do	do	do	cars			2 3
he cost of rep	airs to cars and plou	ghs per 100 m	iles ru	n by trains.	\$, ets
do	do		do	engines		6 2
do	do		dο	cars and ploughs		0 69
he cost of oil	and waste for packin	g per 100 mil	es run	by trains		ets 0 39
Ċ	lo do	do)	engines		0 33
Ċ	lo do	do)	cars and ploughs		0 0
he cost of repa	irs to cars per 100 m	iles run by tł	enı:		\$	ets
Passenger	• • • • • • • • • • • • • • • • • • • •					1 1
Postal, exp	ress and baggage					0 6
					1	
Freight car	s and vans				•	0 59

JOHN SUTTON,

Mechanical Accountant.



RETURN OF ACCIDENTS AND CASUALTIES

INTERCOLONIAL

RETURN of Accidents and Casualties which have occurred in Canada on the

	===		1			'	<u>.</u>
Da	te.	Time of Day.	No. of Train.	Description of Train.	Name of Conductor.	Name of Driver.	No. of Engine
189	 95.						
July	2						· · · · · ·
do do	5 6	11.00 16.30	Special	Working Freight	W. F. Fergusson E. Herrett	E. KeanP. Fraser	114 19
do do	9 9	8.00 17.05	16 22	do	J. B. Pollock D. McIntosh	Geo. Feetham J. H. Campbell	78 41
do do	10 11	7.00 22.25	Special	Freightdo	Alph. Gamache	W. F. Duncan E. B. Price	176 30
do	12	16.30	Special	Working	E. Crowe	T. Hennessy	124
do	17	12.10	25	Express	C. J. Rhodes	Geo. Kentley	161
do do	18 26	10.00 2.15	24 Special	Freightdo	Geo. C. Keys	P. Peterson F. H. Moore	40 205
Aug.	1	19.05			••••	1	112
do do	2 7	24.30 8.05	83	Accommodation	John Berry.	Jas. McAuley	56
do do	7 8			Shunting		W. A. Lovitt	
do do	28 30	5.20 6.10	Special	Freight	B. McLellan	W. Appleton W. F. Smallwood	110 178
Sept.	2	14.10	Special	do	B. McLellan	J. Stockall	43
do do	10 11	10.00 20.15	Special	Shunting Freight	J. R. Fisher	H. Como J. McLellan	191 40
do	12	17.35	98	Express "D. A. Ry".	D. Muir	J. Leitch	12
do	13	20.00		Shunting		J. Phinney	166
do	2 6	16.10	Special	Working	C. A. Atkinson	W. F. Smallwood	80
Oct.	3	11.17	33	Express	Is. Couturier	Ed. Parsons	125
do	4	8.00	Special	Working.	C. A. Atkinson	W. F. Smallwood	80
do	6	3.25	39	Freight	H. Barreau	W. H. Anderson	141
do do	18 22	13.30 18.35	48	Shunting	M. Marchessault	A. McDonald Geo. Findley	19 193

RAILWAY.

line of the Intercolonial Railway during the year ended the 30th June, 1896.

***************************************				[
Place of Accident.	Name of person injured.	Whether Passenger or Employee.	Particulars of Accident.	Extent of Injury.	Verdict of Coroner's Jury.
SS. "St. Pierre," Strait of Canso Ferry.	- Barclay	Passenger	After shock on steamer giving way.	Slightly injured.	
Bartibogue Conn's Mill's	Jos. Arsenault Chas. Whooten	Employee do	While loading ties	Hand injured Face injured	
Near New Glas-	P. Sutherland Alln. McEachran	do Neither	ping from engine. Slipped while coupling cars Walking on track	Ankle injured Fatal	Accidental.
gow. St. Octave Mill Stream	Alph. Gamache. Jos. Tynan, "Indian".	Employee Neither	While shunting Fell off top of box car while stealing a ride.	Leg injured Considerably injured.	
Bible Hill	Thos. Crockett	Employee	While coupling cars	Hand injured	
Near Dorchester.	A. Stiles	do	While standing alongside of track No. 25 train struck a claw-bar, which hit him	jured	
Sackville Windsor Junct'n	J. V. McDonald. J. Halliday	do do	While unloading iron Tank of gasolene exploding.	Face and hands	
Near New Glas- gow.	Chas. Muse, "Indian".	Neither	Lying on track	burned. Fatal	do
Little Métis Sackville	Jos. Nadeau W. R. Edwards.	do Employee	Fell into a culvert	do	do
Truro	E. Johnston J. Currie	do do	and cars. While handling freight Thrown off car by hopper running off track	Foot injured Back and shoul- ders injured.	
	R. McDonald Wm. Ford	do do	Fell while shunting While loading ballast, carth caved in.	Hand injured Considerably injured.	
Ballast Pit, Windsor Jtn.	Geo. Sullivan	l	While coupling cars	Hand injured	
St. John	J. Budd Hy. Morrison	do Neither	do Fell off train while stealing	do do Fatal	do
Prince's Lodge, Halifax.	L. Foote	Passenger	a ride. Fell out of baggage car door	Leg broken	
	Len. Murray	Employee	While turning switch	Hand injured	
1½ m. W. of New Castle.	Thos. Murphy	do	While loading stone	Finger injured	
	Pierre Dorion	Neither.,	Attempting to jump on train in motion.	Fatal	do
2 miles E. of Red Pine.	J. P. Lavigne	Employee	While loading timber	Back and chest injured.	
New Castle	J. Black	do	Struck by a coupling link which the driver attempted to throw on tender.	Head slightly injured.	
Pictou St. Valier	C. E. Graham Laurent Bosse	do Passenger	While coupling cars Fell off train in motion	Hand injured Fatal	do

INTERCOLONIAL

RETURN of Accidents and Casualties which occurred in Canada on the

				•			===
Dat	te.	Time of Day.	No. of Train.	Description of Train.	Name of Conductor.	Name of Driver.	No. of Engine.
1898 Nov.	1	7.00	Special	Freight	H. D. Fraser	M. White	135
do	5	10.17	3	Express	D. McQuarry	R. Carr	61
do	7	14.00	24	Freight	J. Buchanan	R. Wilson	180
do	7	15.00		1		1	
do	8 14 16 18	3.40 17.30 9.20 8.55	Special 5 Special.	Freight	L. Bélanger R. A. Rainnie H. D. Fraser.	A. Matthews. W. F. Duncan J. J. Irvine. L. Starratt.	183 209 115 146
do	20	15.00	do	do	J. Buchanan	L. Starratt	146
do do	22 30	$\frac{9.00}{9.00}$	do	do	do	P. O. Toole	135
Dec. do do	5 20 25	15·30 12·00 1·50	Special 6 Special	do	J. Buchanan R. A. Rainnie J. L. Chisholm	J. McLellan J. J. Irvine J. Dean	114 115 9
Jan. do do	10 16 25	9·45 6·00 15·40	do Special	do Shunting Freight	G. C. Keys H. McDorman	P. Peterson F, Cloutier H. Stewart	79 ⁻ 120 7
Feb.	8	14:40	do	do	S. Bernier	T. Matheson	176
do do	17 21	7·20 11·13	59	Shunting	E. S. Vye	T. O'Brien A. McCabe	127 60
do	26. .	13.00	Special		J. Buchanan	1	9
do Mar.	28 13	10·30 13·50	do	doShunting	T. C. Ayer	D. Taylor	$182 \} 25 \} 127$
do	14	24 30	ì	1	J. Paradis		38
do do	18 26	11·50 16·30	do	do Shunting	J. Pollock	P. Peterson Geo. Currie	79 121
do April	27 5	16·40 9·40	1	E .	M. Letarte	I C. D. Dawyer	157 36 130
-	11	15·46	1		Jas. Millican	l .	164
do do do do	13 16 22 27	7·30 14·40 15·10 18·00	Special. do	Accommodation	J. Holmes J. T. McGinn W. Power J. Buchanan	A. Donald N. McMullen A. McDonald	107 139 144 115
May do	6 6	10·10 19·50	Special.	Light engine	J. R. Fisher	A. Probert	35 128

RAILWAY.

line of the Intercolonial Railway during the year ended the 30th June, 1896.

•					
Place of Accident.	Name of person injured.	Whether Passenger or Employee.	Particulars of Accident.	Extent of injury.	Verdict of Coroner's Jury.
Spring Hill Jtn.	E. Mattatal	Employee	Fell through hatch of coal trestle while attempting		
			to get on car.	injureu.	
•		-	Attempting to get on train in motion.	_	
Oxford Junction.	R. Doyle	Employee	While leading freight	Foot injured	
Red Pine Bdge	Thos. Sefton E. Steeves	do)	While loading bridge gir- { der on car.	Arm broken	į
St. Moise	A. Deschamplain	do	While uncoupling cars	Finger injured	
Ste. Flavie	Alfd. Malcomber	do	While taking coal	_do do	!
Petitcodiac	Wm. McManus.	do	While coupling cars	Hand do	i I
1 m. W. of	F. Fowlie	do	While opening brake valve	Leg do	!
Greenville.		-	between cars.		
	E. Crowe	do	While coupling engine and car draw bar fell on his foot		
minus, Halifax Richmond	S. Thomas	do	Fell off car in motion	Wrist sprained	
Moneton	J. Strong	do	While lighting semaphore	Shoulder injured	
	İ		lamp the post gave way.	!	
	J. D. McDonald.	do do	While coupling eng. and car	Hand injured	
Redford	Geo. Boyce C. Doyle	do	Jumped off train in motion. While coupling engine to car	Considerably in-	}
Deniora	o. Doyle	uo	slipped from pilot of engine	iured.	
Ferrona Junct'n	J. D. McDonald	do	While coupling cars	Thumb injured.	i
Chaudière	H. Camiré	do	do do	Arm injured	
New Glasgow,	Mr. Douglass.	ļ (While driving in a sleigh.	1	1
George Street	Mr. Douglass. Miss McGregor.	Neither	ran into rear car of train which was going into	Slightly injured.	
Crossing. (gor.)		New Glasgow.	uo .	
Amqui	H. Ouellette	Employee	Attempting to get on train	Ĭ	
North St., H'fax	Jno. Morley	do	While coupling cars	Chest injured	
Newcastle	P. Bannister	do	While turning the switch	Head cut	
Ferrona Junc	Jno. McLellan	do	the lamp fell on his head. Attempting to jump on train	Head and back	
Campbellton	Geo. Crowser	do	in motion. While coupling engines	injured. Foot minred	
<u>-</u>					
_	Wm. Lochart	İ	Assisting to put car on track.		
	Alph. Roy		Train started while he was oiling snow plough.	l	
Stellarton	Angus Chisholm	do	While coupling cars	Finger injured	
	Thos. Hinch	do	While shunting fell off top of box car.	ratai	No inquest.
Siding, Halifax.	Xavier Dumas	Neither	Walking on track	do	Accidental.
Levis.	Pierre Ruel	do	do do	Considerably in-	
Truro	Graham Logan, deaf and dumb.	do		jured.	
Name (J. Stephenson	do	Crossing track in team	do	do
		do	do do	do	do
Brook.	Allan Carson	do	do do	Considerably in	•
Antigonich	MaDonald	do	Walking on track	jured.	
Chatham Tune	McDonald	do	While loading baggage	Foot injured	1
West Bay Road	Rory McNeil	do		Arm injured	
Near Glengarry	B. Ripley		Fell while attempting to		
	1	1	get on train in motion.	injured.	
Near Loch Broom	John Sark (Ind.)	Neither	Walking on track	Fatal	do
wenarion	Mrs. Daley	do	Crossing track in yard	ι αο) do

INTERCOLONIAL

RETURN of Accidents and Casualties which have occurred in Canada on the

Da	te.	Time of Day.	No. of Train.	Description of Train.	Name of Conductor.	Name ot Driver.	No. of Engine.
189	5.						
May	9	9.18	2 5	Express	J. Millican	S. Trider	199
do	12	9.00	Special	Freight	M. C. Daley	J. Stewart, jr	146
do	12			***	· · · · · · · · · · · · · · · · · · ·		
do do do	14 27 28	12 · 20 21 · 15 5 · 00	Special	Freight	W. Foster	A. Sutherland E. Rushton J. H. Phinney	7 135 122
do	29	18.00	23	Freight	T. W. Johnson	R. Kennedy	180
June do	1 4	10·00 23·40	Special 48	do	J. Pollock L. Proulx	P. Peterson Geo. Cameron	115 2
do do	12 16	8·37 9·40	46 29	do	B. Walker J. McFadzer	A. ShickleJ. H. Moore	104 21
do do	23 27	16·39 10·45	45 Pilot	Express	A. Bouchard	H. A. Turner L. Dutil	151 116

RAILWAY.

line of the Intercolonial Railway during the year ended the 30th June, 1896.

Place of Accident.	Name of person injured.	Whether Passenger or Employee.	Particulars of Accident.	Extent of Injury.	Verdict of Coroner's Jury.
- · · · · · · · · · · · · · · · · · · ·	McCully	Neither	Crossing track in team	Very slightly in-	
Debert	McCully	do	do do	jured.	
Spring Hill June	J. Stockford	Employee	While uncoupling engine from cars.	Hand injured	
Near Rimouski	Jos. Pratte	Neither	Found unconscious along-	Face bruised	
Pieton	Ino McKinnon	Employee	side of track. While coupling cars	Hand injured	
Spring Hill June	Chas. Green	do	do do	do	
Bible Hill Bal- last Pit.	Chas. Green J. H. Phinney	do	While shunting, run into by No. 16 train.	Head injured	
	H. Murray	do	Jumped off train in motion	Ankle sprained.	
Stellarton	F. Fowlie	do	While coupling cars	Hand injured	
Near Old Lake Road.	C. Lemieux	Neither	Attempting to get on train in motion.	Fatal	No inquest.
St. Charles June	Alph. Dionne	Employee		Foot injured	
Dorchester Road	John Casey	Passenger	While shunting Struck by train while sit- ting on edge of platform.	Head injured	
St. Arsène	H. C. Kennedy.	Neither	Crossing track in team	Fatal	do
Levis, "Beau- lieu's Wharf.	H. Bernier	Employee	Fell while uncoupling cars.	Leg crushed	

WINDSOR BRANCH RAILWAY.

OFFICE OF THE GENERAL MANAGER OF GOVERNMENT RAILWAYS, Moncron, N. B., 28th September, 1896.

Sir,—I have the honour to submit the following statements showing the results of the working of the Windsor Branch Railway for the year ended the 30th June, 1896:—
No. 1. Revenue account.

- 2. Maintenance of way and works.
- 3. General balance.
- 4. Statement of earnings.

I also send you the report of the Chief Engineer on the condition of the permanent

way and works.

This line, 32 miles in length, was operated during the year by the Windsor and Annapolis Railway Company, now called the Dominion Atlantic Railway Company, on the same terms as last year, the company being allowed to retain two-thirds of the gross earnings, the balance, one-third, being paid over to the Government, the latter maintaining the line.

There was a decrease in the earnings accruing to the Government when compared with last year, as follows :--

1894-95		
	\$ 2,515	81

The earnings from passenger traffic decreased seven hundred dollars, and from freight traffic eighteen hundred dollars.

There was an increase in the expense of maintenance as follows:—

	\$ 1,836	

This was caused by the relaying of a portion of the track with new steel rails.

The earnings and expenses compare as follows:-

Expenses	\$36,561 16,476	83 46
Net earnings	\$20,085	37

The necessary repairs and renewals were made, and the permanent way and works are in good order.

> I have the honour to be, sir, Your obedient servant,

> > D. POTTINGER.

General Manager, Government Railways.

COLLINGWOOD SCHREIBER, Esq., C. M. G., Deputy Minister and Chief Engineer, Railways and Canals.

Intercolonial Railway of Canada,
()ffice of the Chief Engineer,
Moncton, N.B., 16th September, 1896.

SIR,—I have the honour to submit my report of the maintenance of the Windsor Branch for the year ending 30th of June, 1896.

TRACK

Two miles of old worn 4 inch steel rails were taken up and replaced with new $4\frac{1}{4}$ inch 56 pound rails. 2,000 feet of these steel rails were laid in Windsor yard in the place of a similar quantity of old iron rails taken up.

Two new steel frogs were also provided, one in Windsor yard, and the other at

Windsor Junction.

TIES.

During the year, 13,212 ordinary hemlock ties, and three sets of switch ties have been renewed.

FENCING.

Two hundred and seventy-six rods of new barbed and woven wire fence were erected at points where no fence existed before. Large repairs were made to existing fences.

WHARFS AND TRESTLES.

Large repairs were made to the wharf at Windsor which had been damaged by the ice, and which required to be in first class shape to accommodate the large shipment of plaster now being made at this place.

BUILDINGS AND PLATFORMS.

At Windsor, general repairs were made to the station and freight house. Platforms were built at Stillwater, Three Mile Plains and St. Croix.

At Newport, the platform was partially renewed.

At Beaver Bank, the freight platform was renewed.

BRIDGES AND CULVERTS.

The masonry of Sackville and Jordans Bridges, was thoroughly overhauled, repaired and pointed.

Two sets of cattle guards were renewed.

GENERAL.

All the freight houses, tool houses, cattle pens and approaches to publics crossings

were overhauled, repaired and whitewashed.

At Newport, it was found necessary to enlarge the water supply, and for this purpose 1,000 feet of 4-inch cast iron pipe were put in to connect the old and new services. The old reservoir was cleaned out and repaired, and a full supply is now available.

At Mount Uniacke, the old tank was raised 16 inches, and the tub put in repair.

The track on this branch, is in good order throughout its whole length.

I have the honour to be, sir,

Your obedient servant.

P. S. ARCHIBALD, Chief Engineer.

D. Pottinger, Esq.,

General Manager, Government Railways, Moncton.

No. 1.—WINDSOR BRANCH RAILWAY.

REVENUE Account for year ended 30th June, 1896.

Previous Year.	Expenditure.	Year ended 30th June, 1896.	Previous Year.	Earnings.	Year ended 30th June, 1896.
	Maintenance way and works, Balance	\$ cts. 16,476 46 20,085 37	\$ cts. 13,581 18 24,348 30 1,148 16 39,077 64	Passenger trafficFreight traffic	\$ cts. 12,878 28 22,528 03 1,155 52 36,561 83

E. & O. E.

THOS. WILLIAMS, Chief Accountant and Treasurer.

MONCTON, N.B., 30th June, 1896.

No. 2.—WINDSOR BRANCH RAILWAY.

MAINTENANCE of Way and Works-(Abstract No. 1).

Previous Year.	Particulars.	Year ending 3 June, 18	Oth
\$ cts.		\$	ets
7,823 83 1,139 28 2,848 80 64 46 79 83	Repairs of track. Rails and fastenings Ties. Bridges. Signals	3,869 2,696 47 28	15 20 20 07
1 20 35 40 35 50 640 60	Switch locks Culverts and cattle guards Wharf at Windsor Buildings and platforms.	541 543	58 61 30
72 46 439 66 212 37 320 76	Hand cars and trollies. Removing snow and ice. Tools and repairs of same. Fencing.	346 145 433	13
912 41 13 51	Accountant's office and expenses. Miscellaneous.	408	95 16

E. & O. E.

THOS. WILLIAMS. Chief Accountant and Treasurer.

Moncton, N.B., 30th June, 1896.

No. 3.—WINDSOR BRANCH RAILWAY.

D_R. GENERAL BALANCE, year ended 30th June, 1896. CR.

1896.	*	cts.	1896.	•	\$ cts.
June 30 To old rails				By Dominion account	11,640 53
	11,640	53			11,640 53

E. & O. E.

THOS. WILLIAMS, Chief Accountant and Treasurer.

Moncton, N.B., 30th June, 1896.

No. 4.—WINDSOR BRANCH RAILWAY.

MONTHLY STATEMENT OF RECEIPTS-One-third Earnings.

Month.	Passenge Traffic		Mails. Freight Traffic.			Totals.		
	\$	cts.	\$	cts.	\$	cts.	8	cts.
1895—July August September October November December 1896—January February March April May June	1,654 1,147 888 898 615 554 660 737 874	32 22 81 92 02 78 67 69 15 47		96 91 96 91 96 90 96 91 96 90 95 68 95 68 95 68 95 68 95 68 95 68	1,557 1,799 2,256 2,800 2,732 1,994 1,864 1,642 1,445 1,453 1,403	9 97 9 26 9 20 6 60 8 52 8 41 2 95 5 93 1 90 6 53 3 52	3, 262 3, 949 4, 001 4, 044 3, 712 2, 989 2, 579 2, 293 2, 202 2, 284 2, 556 2, 684	20 38 38 92 43 94 987 30 44 987 30 45 668 461

E. & O. E.

THOS. WILLIAMS,

Chief Accountant and Treasurer.

Moncton, N.B., 30th June, 1896.

PRINCE EDWARD ISLAND RAILWAY.

Office of the General Manager of Government Railways, Moncton, N.B., 28th September, 1896.

SIR,—I have the honour to submit the following report on the working of the Prince Edward Island Railway, for the fiscal year ended 30th June, 1896.

I inclose the report of the superintendent including statements of the various

accounts.

The mileage of railway in operation was the same as last year, 210 miles.

There was no expenditure on capital account during the year, the total cost of the railway on the 30th June, 1896 being \$3,750,565.38.

The working expenses for the year were	
	\$ 78,662 02

In comparison with the previous year, there was a decrease in the working expenses of \$7,766.63, and a decrease of earnings of \$3,178.24.

The decrease of earnings was chiefly in freight traffic, which fell off \$2,669.19.

The weight of freight carried decreased 1,930 tons, and this decrease was in potatoes and other roots.

The earnings from passenger traffic increased \$118.75, although the number of passengers carried decreased 2,503.

The work of relaying the track with steel rails was continued, and twelve and three-quarter miles of track were relaid; the iron rails weighing forty pounds to the yard were replaced with new steel rails weighing fifty pounds to the yard.

A wooden bridge of forty-four feet span was taken out of the track and a steel one

was put in its place.

A track scale for weighing cars was put in.

All these improvements were charged to working expenses.

The necessary repairs and renewals were made, and the railway and rolling stock are in a state of efficiency.

I have the honour to be, sir, Your obedient servant,

> D. POTTINGER, General Manager Government Railways.

COLLINGWOOD SCHREIBER, Esq., C.M.G.,
Deputy Minister and Chief Engineer
Railways and Canals.

Prince Edward Island Railway, Superintendent's Office. Charlottetown, P.E.I., 22nd September, 1896.

Sir,—I have the honour to submit the following report on the working of the

Prince Edward Island Railway for the fiscal year ended 30th June, 1896.

I also inclose the following statements prepared by the Accountant, Auditor and Mechanical Accountant:—

- 1. Capital account.
- 2. Revenue account.
- 3. Locomotive power (abstract No. 1).
- 4. Car expenses (abstract No. 2).
- 5. Maintenance of way and works (abstract No. 3).
- 6. Station expenses (abstract No. 4).
- 7. General charges (abstract No. 5).
- 8. General stores account.
- 9. General balance.
- 10. Comparative statement of averages.
- A. Monthly statement of the cost of locomotive power.
- B. Statement of performance and consumption of locomotives.
- C. Monthly statement of car mileage.
- D. Statement showing number of locomotives, cars, snow ploughs and flangers.
- E. Comparative statement of expenses of the mechanical department.

The mileage of railway in operation during the year was the same as stated in last year's report—210 miles.

CAPITAL ACCOUNT.

The total expenditure on capital account to 30th		
June, 1895, was	\$3,750,565	38
No additions being made during the year, the total	, ,	
expenditure to 30th June, 1896, was the same		
as the previous year		3 8

REVENUE ACCOUNT.

Freight traffic during the year has not been satisfactory. There was practically no market for potatoes, and but little demand for oats. The rapid extension of the dairy industry throughout the province is calculated to lessen the exportation of field products, and thus affect our traffic prejudicially.

The gross earnings and working expenses for the year compare as follows:-

 Gross earnings
 \$146,476
 54

 Working expenses
 225,138
 56

\$ 78,662 02

The gross earnings compare as follows with the previous year	ar :
In 1895–96	
	\$ 3,178 24
The earnings from passenger traffic compare as follows:—	
In 1895–96	· · · · ·
	\$ 118 75
The earnings from freight traffic compare as follows:—	
In 1895–96	\$ 65,391 92 68,061 11
•	\$ 2,669 19
The earnings from mails and sundries compare as follows:-	-
In 1895–96	\$ 18,726 50 19,354 30
	\$ 627 80
The number of passengers carried compare as follows:—	
In 1895–96	122,586 125,089
	2,503
The weight of freight carried compares as follows:—	,
In 1895–96	$\begin{array}{c} \textbf{Tons.} \\ \textbf{46,395} \end{array}$
1894-95.	48,325
	1,930
. WORKING EXPENSES.	
The working expenses are less by \$7,766.63 than in the pre	ceding year.
The working expenses compare as follows with the previous	year :
In 1895–96	
	\$ 7,766 63

The averages compare with the previous year as follows:-

Per mile run by engines:—	
,	Cents.
In 1895-96	$59 \cdot 38$
1894-95	70.43
Per mile run by trains:—	
In 1895-96	91.60
1894-95	95.35
Per mile of railway:—	
In 1895-96	\$1,072 09
1894-95	1,109 07

TRACK.

Twelve and three quarter miles of track were relaid by steel rails, during the year, 1,000 tons having been used for this purpose. One mile of the new rails was laid at Mount Stewart and $11\frac{3}{4}$ miles between Coleman and Piusville. At the end of the year $126\frac{1}{4}$ miles of track had been relaid with steel rails.

A new track scale was put down at Alberton, and the foundation of track scale at

Charlottetown was rebuilt.

TIES.

Seventy-three thousand ordinary ties were renewed during the year, and 2,500 culled ties were used in yards and sidings; 34 sets switch ties and 30 head-blocks and frames were renewed.

BALLASTING.

12,212 cubic yards of ballast were distributed during the year.

FENCING.

37,123 feet of woven wire and 26,200 feet barbed wire fence were built during the year, replacing 12 miles of old fence.

10,385 feet snow fence were rebuilt and 1,129 feet repaired. 100 old farm gates

were replaced by woven wire gates.

BRIDGES AND CULVERTS.

A pile bent was put under centre span of bridge at Peakes; also a new top.

The old wooden bridge at St. Peter's was replaced by a 44 foot steel girder, with new standard top.

Two new stringers were put in bridge west of Bradalbane, and new standard deck

put on.

Sixteen new floor beams were put in Midgell and Marie bridges.

One of the two arches in the breastwork at Charlettotown was closed up, and two new stringers put in the other, also a standard deck laid.

Several other bridges have had necessary repairs.

Thirty cattle guards and 8 timber culverts were rebuilt.

Stone culvert on Cape Traverse Branch, carried away by a spring freshet, was rebuilt.

Thirty-five stone culverts were re-pointed with cement.

BUILDINGS AND PLATFORMS.

O'Leary station was raised three feet, and timber foundation put under it. The platform was renewed; new floors laid in office and waiting room; the interior of station painted, and roof reshingled.

Cattle pen at O'Leary was rebuilt.

The coal shed at Tignish was extended 40 feet.

Station and platform at Harper's were rebuilt.

Station and platform at DeBlois rebuilt.

At St. Louis station and platform were rebuilt.

Station and platform rebuilt at Alma.

At Alberton platform was renewed.

Platform was renewed at Northam.

Platform renewed at Hunter River.

At Cardigan platform was renewed.

At Cemetery platform was renewed.

One side of roof of Port Hill station was reshingled. One side of freight shed at Summerside was reshingled.

A new pitch and gravel roof was put on freight house at Bradalbane, and necessary repairs made to dwelling, which was also painted inside.

The iron house at Charlottetown was raised, the foundation renewed and other necessary repairs made to the building.

The roof of blacksmith shop was reshingled.

A new plank floor was laid in the carpenter's shop.

The roof of warehouse on Georgetown wharf was reshingled, 45 M. shingles being used for this purpose.

At St. Peter's roof of coal shed was reshingled.

A new plank floor was put in warehouse on Souris wharf. The office in same building was sheathed, and new floor laid.

Roof of coal shed at Mount Stewart was reshingled.

WHARFS.

One hundred tons hemlock timber, 30,000 feet hemlock plank, 100 tons stone, 10 piles 40 feet long, 25 cars ballast and 6 cars brush were used in repairing Summerside wharf.

In repairing wharf at Charlottetown 3,000 feet hemlock plank, 10 tons timber and 25 tons stone were used.

Two hundred tons stone, 15 tons timber and 10 cars ballast were used in repairing Souris wharf.

Georgetown wharf received necessary repairs, 25 tons stone and 2 cars brush being used.

ROLLING STOCK.

Following is a summary of the principal work done in the shops during the year:-

Locomotive repairs.

Nine engines received general repairs, and six received specific repairs, the following new parts being supplied: 1 driving axle, 12 tires, 4 crank pins, 2 pistons, 4 guides, 3 quadrants, 3 reversing levers, 1 sight feed lubricator, 1 set cast-iron running boards, 2 cabs, 250 tubes, 3 tender frames, 6 tender trucks, 6 pilots and 6 smoke stacks.

Fifteen boilers were tested, five fire boxes patched, 200 tubes pieced, 5 water tanks

patched, and the capacity of three tender tanks increased.

Car repairs.

One combined baggage and postal car, one snow plough and one flanger car were rebuilt.

Four first-class cars received a thorough overhauling. In three of these new heaters were placed, new seat ends were supplied and seats re-upholstered.

Two first-class cars received general repairs, new standard trucks were put under them, and the seats re-upholstered.

Six second-class cars received general repairs, new standard trucks being put under two of them.

Eleven box and 20 platform cars received general repairs; 6 box car roofs were renewed, and 20 freight car trucks were rebuilt.

Considerable work was done for the road and transportation departments.

Paint shop.

Eight locomotives, 3 first-class cars, 1 second-class car and three postal cars were painted and varnished.

Two locomotives, 4 fi st-class cars, 7 second-class cars and 2 postal cars were cleaned and varnished.

Eleven box cars and 20 box car roofs were painted.

Fifty-four platform cars, 2 snow ploughs and 2 flangers were painted; also 10 switch frames.

Blacksmith's shop.

All iron work in connection with the repairs of engines, and the rebuilding and repairing of cars, snow ploughs and flangers, besides a large amount of work for the road and traffic departments, was done in this shop.

Brass foundry.

Output for the year: 2,750 lbs. bearings, 2,266 lbs. brass castings, and 200 battery zincs.

All passenger cars have been equipped with a new vacuum hose coupling, made under the direction of the mechanical foreman, who reports that it has given entire satisfaction.

STORES.

On the 30th June, 1896, the value of stores on hand was :-

General stores\$	43,287	31
Fuel	7,111	44
Rails and fastenings	61,467	14
Old material serviceable	3,362	14
-		
Total\$1	15,228	03

Stores to the value of \$89,159.04 were purchased during the year.

GENERAL.

The rolling stock, roadbed and buildings have been maintained in a state of efficiency.

I inclose a return of accidents and casualties which have occurred on the railway during the year.

I have the honour to be, sir, Your obedient servant,

D. Pottinger, Esq., General Manager Government Railways, Moncton, N.B.

A. McDONALD, Superintendent.

No. 1.—PRINCE EDWARD ISLAND RAILWAY.

Di	₹.	CAPITAL	Accoun	NT.	_	Cr.	
1895. June 30. 1896.	To cost of road and equip- ment to date	\$ et	June 30.	By Dominion of	Canada	\$ 3,750,560	ets.
June 30.	To expenditure, year ended 30th June, 1896	3,750,565 38		do	do	3,750,565	38

W. T. HUGGAN,

CHARLOTTETOWN, P.E.I., 30th June, 1896.

Accountant and Auditor.

No. 2.—PRINCE EDWARD ISLAND RAILWAY.

DR. REVENUE ACCOUNT for year ended 30th June, 1896. Cr.

Previous Year.	Expenditure.	Year ended 30th June, 1896.		Previ Yea		Receipts.	Year en 30th Ju 1896	ne,
\$ cts.		\$	cts.	8	cts.		*	cts.
34,133 09 101,599 30	Locomotive power. Car expenses. Maintenance of way and works.	99,186	54 00	62,239 68,06 19,35	1 11 4 30	Passenger traffic. Freight traffic. Mails and sundries.	65,391 18,726	92
	Station expensesGeneral charges	$ \begin{array}{r} 27,802 \\ 9,763 \\ \hline 225,138 \end{array} $	01	149,65 83,25 232,90	0 41	Total receiptsBalance	78,662	02

W. T. HUGGAN.

Accountant and Auditor.

No. 3.—PRINCE EDWARD ISLAND RAILWAY.

LOCOMOTIVE POWER—(Abstract No. 1).

Previous Year.	revious		ded ie,
\$ cts		\$	cts
845 63	Mechanical superintendent's salary, clerks, office and travelling expenses	754	
16,515 30	Wages of drivers, firemen and cleaners Fuel Oil, tallow, waste and small stores	16,768	
17,097 77	(vil tallout maste and small stores	13,355 $2,203$	
2,400 04 91 449 09	Repairs to engines, tenders and engine tools	19,329	
1.294 37	Water, including pump and tank repairs		62
1.253 75	Miscellaneous	1.136	
61,485 54	Totals	54,165	88

W. T. HUGGAN,

Accountant and Auditor.

CHARLOTTETOWN, P.E.I., 30th June, 1896.

No. 4.—PRINCE EDWARD ISLAND RAILWAY.

CAR EXPENSES—(Abstract No. 2).

Previous Year.	Details.	Year end 30th Jun 1896.	
\$ cts.		\$	cts
6,959 55	Repairs to passenger carsdo postal and baggage cars	9,397	
2,734 28	do postal and baggage cars	2,436	
4.841 80	do freight cars and vans	3,858	
2,481 96	do snow ploughs and flangers	863	
13,419 46	Wages of conductors, train baggage-masters and brakesmen	14,076	
537 84	Oil and waste for packing	517	
2, 109 21	Small stores and fuel	2,368	
748 99	Miscellaneous	704	30
24 122 00		34,221	54

W. T. HUGGAN,

Accountant and Auditor.

No. 5.—PRINCE EDWARD ISLAND RAILWAY.

MAINTENANCE OF WAY AND WORKS-(Abstract No. 3).

Previous Year.	Details.	Year ended 30 June, 189	
\$ cts.		*	ct
293 27	Engineer's salary, clerks, office and travelling expenses,	296	84
30,843 88	Engineer's salary, clerks, office and travelling expenses. Wages in repairing roadway, fences and semaphores	36,593	80
19,353 64	Rails, chairs and spikes	17,671	
19,028 67	Timber and lumber for repairs to bridges, cattle guards, fences, &c	24,540	
7,217 67	Timber and lumber for repairs to bridges, cattle guards, fences, &c	8,109	
	Repairs to wharfs	1,904	
8,199 10	Repairs to buildings and platforms	7,078	
877 49	Repairs to tools	1,099	
13,568 67	Clearing ice and snow	2,491	76
101 500 30		99,186	00

W. T. HUGGAN,
Accountant and Auditor.

CHARLOTTETOWN, P.E.I., 30th June, 1896.

No. 6.-PRINCE EDWARD ISLAND RAILWAY,

STATION EXPENSES—(Abstract No. 4).

Previous Year.	Details.	Year ended 30th June, 189	
\$ ets.		. \$ (cts.
19,636 02	Salaries and wages of station-masters, agents, clerks, telegraph operators, station baggage-masters, yard-masters, switchmen, watchmen, and labourers	20,999	74
6,912 69	Fuel, oil, light, stationery and other incidental expenses	6,802	
26,548 71		27,802	13

W. T. HUGGAN,
Accountant and Auditor,

No. 7.—PRINCE EDWARD ISLAND RAILWAY.

GENERAL CHARGES—(Abstract No. 5).

Previo Year		Details.	Year end 30th Ju 1896	ne,
*	cts.		\$	cts
3,497		Superintendent's and train despatchers' salaries, clerks, office and travelling expenses	3,836	86
4,553	49	Accountant and auditor's, paymaster's and cashier's salaries, clerks, office and travelling expenses		63
627	23	Advertising.	301	50
71	23	Damages to men, animals and goods	295	
339	96		319	
49	39 .	Miscellaneous.	244	84
9.138	55		9,763	01

W. T. HUGGAN,

Accountant and Auditor.

CHARLOTTETOWN, P.E.I., 30th June, 1896.

No. 8.—PRINCE EDWARD ISLAND RAILWAY.

STATEMENT of General Stores Account, year ended 30th June, 1896.

1895.	DR. \$ cts	. \$ cts.
June 30	To Balance brought forward	. 106,791 62
1896.		1
June 30	To Purchase during the year, including rails. Charges from other departments Pay-rolls. 89,159 04 16,770 09 1,946 96	
1896.	CR.	214,667 71
June 30	By Issues during the year.	. 99,439 68
	Balance { Ordinary stores	. 115,228 03

W. T. HUGGAN,

Accountant and Auditor.

No. 9.—PRINCE EDWARD ISLAND RAILWAY.

Dr.	GENERAL BALANCE.	Cr.
General stores Cash Post Office Department. Stations Militia Department. Anglo-American Telegraph Co Judge Weatherbie. Sidney (frey Railway extension, Charlottetown. Belfast Branch Railway Total	\$ cts. 115,228 03 1,914 81 4,153 50 9: 6 03 58 24 46 43 30 00 25 00 812 83 187 19 123,452 06	3,000 33

W. T. HUGGAN,
Accountant and Auditor.

No. 10.—PRINCE EDWARD ISLAND RAILWAY.

Comparative Statement of Averages, for Years ended 30th June, 1895 and 1896.

Details.	1896.	1895.
Mileage of railway open. Engine mileage Train do Car do	210 324,522 245,766 1,225,772	210 330,661 244,249 1,197,529
Receipts per engine mile. Cents. do mile of railway. Dollars.	45·14 697 51	45·26 712 64
Percentage of passenger earnings to gross receipts. do freight do do do other do do	42·57 44·64 12·79	41 · 59 45 · 47 12 · 94
Expenses per engine mile— Drivers, firemen and cleaners' wages. Fuel Oil, tallow, waste and small stores. Repairs to engines Water and tank repairs. Miscellaneous.	5·16 4 12 0·68 5·96 0·19 0·35	4 99 5 36 0 74 6 48 0 39 0 37
Mechanical superintendent's salary, office and travelling expenses	16·46 0·23	18·33 0·26
Total	16.69	18.59
Locomotive power per engine mile Car expenses do Maintenance of way and works do Station expenses do General charges do	16 · 69 10 · 54 30 · 57 8 · 57 3 · 01	18 59 10 33 30 72 8 03 2 76
Total per engine mile Cents.	69.38	70.43
Locomotive power per train mile Car expenses do Maintenance of ways and works per train mile Station expenses General charges	22 · 04 13 · 92 40 · 36 11 · 31 3 · 97	25·17 13·97 41·59 10·87 3·75
Total per train mile	91 · 60	95.35
Working expenses per mile of railway	1,072 09	1,109 07

W. T. HUGGAN,

Accountant and Auditor.

A.—PRINCE EDWARD

MECHANICAL

STATEMENT of Cost of Locomotive Power

		Cost of									
Months.	Miles run by Engines, less Ballasting.	Enginemen's Wages.	Fuel.	Oil, Tallow, Waste, &c.	Repairs.	Water, including Tank and Pump Repairs.					
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.					
1895—July	33,664	1,326 13	1,495 28	205 12	1,635 68	22 50					
August	31,572	1,378 11	1,224 28	211 79	1,378 21	41 27					
September,	30,238	1,305 27	1,224 53	182 96	1,336 32	82 21					
October	30,331	1,309 67	1,187 72	502 69	1,405 69	2 53					
November	30,147	1,204 65	1,265 86	198 94	1,696 92	47 87					
December	20,912	1,227 40	1,032 89	161 69	1,787 23	219 45					
1896—January	22,827	1,373 56	1,119 10	173 97	1,690 51	13 55					
February	24,796	1,860 84	1,271 60	195 69	1,972 10	13 76					
March	25,689	1,627 33	1,163 70	213 69	2,033 93	5 84					
April	21,635	1,393 63	691 73	125 42	1,505 90	13 80					
May	22,294	1,258 73	648 50	119 12	1,171 61	2 00					
June	30,417	1,502 77	1,030 74	212 14	1,710 86	152 84					
Totals	324,522	16,768 09	13,355 93	2,203 22	19,329 96	617 62					

ISLAND RAILWAY.

DEPARTMENT.

for the year ended 30th June, 1896.

		Average per Mile run.									
Miscellaneous, including Office and Engine House.	Total.	Engine- men.	Fuel.	Oil, Tallow, &c.	Repairs.	Water.	Miscella- neous.	Total.			
\$ cts.	\$ cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.			
123 74	4,808 45	3.94	4 · 44	0.60	4.86	0.07	0.37	14.28			
99 72	4,333 38	4 36	3.88	0.67	4.36	0.13	0.32	13.72			
109 98	4,241 27	4.32	4.05	0.60	4.42	0.27	0.36	14.02			
199 63	4,307 93	4 32	3.92	0.67	4.63		0.66	14.20			
111 67	4,525 91	3.99	4.19	0.66	5.63	0.16	0.38	15.01			
181 81	4,610 47	5.86	4.94	0.78	8.54	1.05	0.87	22.04			
159 29	4,529 98	6.01	4 90	0.77	7.40	0.06	0.70	19.84			
206 82	5,520 81	7.50	5 13	0.79	7 · 95	0.06	0.83	22 · 26			
186 84	5,236 33	6.33	4.52	0.84	7.94	0.03	0.72	20.38			
154 14	3,884 62	6 44	3.19	0.58	6.96	0.06	0.71	17 · 94			
184 28	3,384 24	5.65	2.90	0.23	5.26		0.83	15.17			
173 14	4,782 49	4.94	3.39	0.69	5.63	0.20	0 57	15.72			
1,891 06	54,165 88	5.16	4.12	0.68	5.96	0.19	0.58	16.69			

J. J. CHAPPELL,

Mechanical Accountant.

B.—PRINCE EDWARD

MECHANICAL
STATEMENT of the Performance and Consumption

			Train M	Iileage.		Mileage by Engines.					
Month.	Hours in steam.	Passenger.	Freight and Mixed.	Ballasting.	Piloting.	With train.	Light.	Shunting.	Total.		
1895—July	3,976	13,483	12,109	229	369	26,200	117	7,586	33,903		
August	3,949	12,691	11,566	2,524		26,781	113	7,387	34,281		
September	3,710	11,964	11,068	3,348	234	26,614	184	6,873	33,671		
October	3,855	11,567	11,892	3,420	32	26,911	17	6,823	33,751		
November	3,223	10,207	12,914	321		23,442		7,056	30,498		
December	2,818	1,841	13,577	72	44	15,534	192	5,258	20,984		
1896-January	3,123	2,218	14,454		22	16,694	16	6,117	22,827		
February	3,389	2,653	12,936		2,978	18,607	216	5,973	24,796		
March	3,546	3,431	14,171		1,976	19,578	282	5,829	25,689		
April	2,839	1,650	13,733	132	117	15,632	86	6,049	21,767		
May.,	3,379	2,706	13,361	3,698	83	19,848	329	5,855	26,032		
June	3,535	10,825	12,377	2,334	467	26,003	168	6,635	32,806		
Totals	41,342	85,276	154,158	16,078	6,322	261,844	1,720	77,441	341,005		

ISLAND RAILWAY.

DEPARTMENT.

of Locomotives for the year ended 30th June, 1896.

Total M	lileage.	per Mile			Average Consumption.					Consum 100 mile Engir	s run l	ру
Cars.	Snow Ploughs.	Average of cars run with train.	Miles to one hour in Steam.	Of cars to one of Engine.	Bushels of Coal.	Pints of Oil.	Pounds of Tallow.	Pounds of Waste.	Bushels of Coal.	Pints of Oil.	Pounds of Tallow.	Pounds of Waste.
									•			
133,161		5.15	18.52	3.92	14,136	2,564	275	634	41.69	7:56	·81	1.87
137,661		5.14	8.68	4·15	14,116	2,760	337	650	41.00	7.48	.80	1.84
136,836		5.18	9 07	4.06	14,072	2,444	247	625	42.08	7.26	.73	1.88
136,687		5 08	8.75	4.03	14,226	2,706	234	729	42.00	8.01	.69	2.16
119,976		5.11	10.47	3.93	13,949	2,404	231	601	45.70	7.88	.75	1 97
84,200	408	5.43	7:44	4.01	10,402	1,676	174	484	49.56	7.98	.83	2 30
77,347	3,308	4.60	7:31	3.39	11,208	1,956	169	594	49.05	8.56	·74	2.60
74,470	12,856	4.77	7:31	3.00	12,744	2,356	207	486	51.39	9.50	-83	1.96
94,167	2,848	5.35	7 · 21	3.66	11,651	2,534	267	544	45.35	9.74	1.04	2.12
87,078		5.61	7 · 67	4.00	8,325	1,820	194	451	38.70	11 · 17	.89	2.07
121,407		6.24	7.70	4.79	10,930	2,204	276	530	41.98	8.22	.88	2.03
128,841		5.04	9 · 23	3.92	12,306	2,696	349	642	37 · 51	8.21	1.06	1.65
1,334,831	19,420	5.22	8 24	3.91	148,065	28,120	3,060	6,970	43.42	8.24	.91	2.04

J. J. CHAPPELL,

Mechanical Accountant.

C.—PRINCE EDWARD ISLAND RAILWAY.

MECHANICAL DEPARTMENT.

MONTHLY STATEMENT of Car Mileage for year ended 30th June, 1896.

Month.	First Class.	Second Class and Baggage.	Postal and Smoking.	Box and Stock.	Platform.	Total.
1895—July	31,690	24,397	22,706	37,578	16,790	133,161
August		22,789	23,099	35,521	28,696	137,661
September	27,938	21,929	21,737	35,396	29,836	136,836
October	23,831	22,667	21,573	39,448	29,168	136,687
November	21,415	20,892	18,820	46,871	11,978	119,976
December	16,406	15,026	14,211	31,990	6,567	84,200
1896—January	17,282	15,804	13,468	24,854	5,939	77,347
February	15,579	12,220	13,507	24,474	8,690	74,470
March	17.298	15,904	13.094	31.928	15,943	94,167
April	16,035	14,265	14,420	36,379	8.979	87,078
May	16,656	16,343	16,062	44,589	30,757	124,407
June	24,637	21,440	23,157	35,697	23,910	128,841
Total		223,676	213,854	424,725	217,253	1,331,831
Less ballasting.			13,109	700	85,250	99,059
Balance	256,323	223,676	199,745	424,025	132,003	1,235,772

J. J. CHAPPELL, Mechanical Accountant.

D.—PRINCE EDWARD ISLAND RAILWAY.

MECHANICAL DEPARTMENT.

STATEMENT showing the number of Locomotives, and of the various classes of Cars and other Rolling stock, on the 30th June, 1896.

												==				=	
					(Clas	ssifica	tio	n (of (Cars.						
	Locomotives.	First Class.	Second Class.	Combined, First, Second and Enggage.	ed, S	Postal & Smoking.	35 50	Baggage,	Pay Car.	Vans.	Box Freight.	Stock.	Platform.	Total.	Snow Ploughs.	Flangers.	Total.
On record, 30th June, 1895, serviceable do do condemned	20 1	16	6	1	6	1	3	2	1	3	165	10 	125	339	8	5 2	13 2
Total	21	16	6	1	6	1	3	2	1	3	165	10	125	339	8	7	15
Condemned on hand, 1st July, 1895. do during the year	1						i						<u>6</u>	7	·i	2	2 2
Less rebuilt	1						1						6	7	1	3	4 2
Add serviceable and repairing	1 20	16	6	1	6	1	3	2	- 1	3	165	io	6 119	333		2 5	2 13
Total on record, 30th June, 1896.	21	16	6	1	6	1	3	2	1	3	165	10	125	339	8	7	15

J. J. CHAPPELL,

Mechanical Accountant.

E.—PRINCE EDWARD ISLAND RAILWAY.

MECHANICAL DEPARTMENT.

Comparative Statement of the Expenses of the Mechanical Department for the year ended 30th June, 1896.

·	1896.	1895.
The miles run by trains were do do engines were do do cars were do do snow ploughs were do do snow ploughs were do do snow ploughs were do do snow ploughs were do do do snow ploughs were do do snow ploughs were do do do snow ploughs were do do do snow ploughs were do do do do do snow ploughs were do do do do do do do snow ploughs were do do do do do do do do do do do do do	245,766 324,522 1,235,772 19,420	244,249 330,661 1,197,529 21,158
The cost of locomotive power was do repairs to cars was do do passenger cars was do do postal and smoking cars was do do freight cars and vans was do labour, oil and waste for packing was do repairs to snow ploughs and flangers was	\$ cts. 54,165 88 15,691 39 9,397 04 2,436 17 3,858 18 517 61 863 63	\$ cts. 61,485 54 14,535 63 6,959 55 2,734 28 4,841 80 537 84 2,481 96
The cost of locomotive power per 100 miles run by train was	\$ cts. 22 04 16 69 4 38	\$ cts 25 17 18 59 5 13
The cost of repairs to cars per 100 miles run by trains was	\$ cts. 6 38 4 83 1 27	\$ cts 5 95 4 39 1 21
The cost of labour, oil and water for packing per 100 miles run by trains was, do do do do engines was, do do do do cars was	\$ cts. 0 21 0 16 0 04	\$ cts 0 21 0 16 0 04
Repairs to passenger cars per 100 miles run by train were do postal and smoking cars were	\$ cts. 3 82 0 99 1 57	\$ cts 2 84 1 11 1 98

J. J. CHAPPELL,

Mechanical Accountant.

PRINCE EDWARD ISLAND RAILWAY.

RETURN of Accidents and Casualties which have occurred in Canada on the line of the Prince Edward Island Railway during the year ended 30th June, 1896.

Place Name Passenger Particulars Extent of Person of or Accident. Employee.	Side F. McDonald. Employee Jamined between en-Breast bruised and gine and coach internally injured while in act of coupling.	d. Sweeney do	J. McAuslan. doW	on draw-par, doWhile unloading cash Toe broken box it fell on foot. doCar door closed on Hand injured
No. of Engine.	2 South	16 Albany .	21 Colem	16 Emerald 7 Alberton.
Name of Driver.	McArthur 2 South Side	. Good.	Armour 21 Coleman	. Good . Hunter
Name of Conductor,		no-Stanley	:	
Description of Train.		6 Accommo-s	Accommo-McKee dation.	9 Accommo-Stanley dation. 1 Accommo-Kelly
No. of Train.	Sh'nt- ing	9	<u>r-</u>	ъ н
Time of Day.		7.18 a.m.	Oct. 24 2.30 p.m.	Nov. 13 5.40 p.m. Dec. 13 4.30 p.m.
Date.	1895. Nov. 19	Mar. 5 1895.	t. 24	v. 13

No. 2.

CANADIAN PACIFIC RAILWAY.

NORTH BEND, B.C., 31st Oct., 1896.

SIR,—I have the honour to report on the work done by the Canadian Pacific Railway Co. between Emory and Savonas under the award of the Hon. John A. Boyd and Thos. C. Keefer, Esq., during the fiscal year 1895-96 and up to the 30th September, 1896.

The amount of the award unexpended on July 1st, 1895, was \$68,992.35; during the year 1895-96 the expenditure was \$47,823.45 leaving a balance of \$21,168.90 on the 30th June, 1896.

This expenditure was divided among the four contracts as shown below:

No. of Contract.	Amount of Award.	To June 30th, 1895.	From June 30th, 1895 to June 30th, 1896.	Total to June 30th, 1896.	Balance unexpended June 30th, 1896.
	\$ cts.	\$ cts.	\$ ets.	\$ cts.	\$ cts.
60	39,389 00	37,639 92	941 48	38,581 40	807 60
61	190,889 00	179,835 45	8.127 86	187,963 31	2,925 69
62	94,331 00	77,510 67	13,475 62	90,986 29	3,344 71
63	51,971 00	121,601 61	25,278 49	37,880 10	14,090 90
Total.	376,580 00	307,587 65	47,823,45	355,411 10	21,168 90

From July 1st to September 30th, 1896, the amount expended was \$9,910.85, leaving an unexpended balance on October 1st of \$11,258.05.

This expenditure was as follows:

No. of Contract.	Amount of Award.	To July 1st, 1896.	From July 1st to September 30th, 1896.	Total to September 30th, 1896.	Balance unexpended October 1st, 1896.
	\$ cts.	\$ cts.	\$ ets.	\$ ets.	\$ cts.
60	39,389 00	38,581 40	678 58	39,259 98	129 02
61	190,889 00	187,963 31	2,679 42	190,642 73	246 27
62	94,331 00	90,986 29	2,267 33	93,253 62	1,077 38
63	51,971 00	37,880 10	4,285 52	42,165 62	9,805 38
Total.	376,580 00	355,411 10	9,910 85	365,321 95	11,258 05

Work last season was continued till the middle of December, the steam shovels closing down about the 15th of November and a few sloping gangs working till the later date.

This spring work began about the middle of March, the steam shovels beginning work at the end of the month.

During this season 4 steam shovels worked within the limits of the award. Two of these were moved to the Selkirk section about the middle of the summer. The number of men employed averaged about 200. About one-half of this force was generally employed on award work, the other half being employed on improvements to the line which were charged to company appropriations.

95

Much less work was down on this section this year than the preceding years. This was largely due to the fact that the company did a good deal of work on the Selkirk section this year and for this purpose took some of their plant from this section.

The principal work done during this year was as follows:-

CONTRACT 60.

The award work on this contract consisted of a little slope trimming and of a stream diversion at structure 340, the stream being taken through a track culvert with a cover of steel rails.

The filling of structure 350 was completed this year.

At White's Creek, structure 327, work is in progress on the first of the masonry piers to replace the wooden towers and support the steel spans erected last year.

CONTRACT 61.

The principal award work on this contract was a heavy shovel cut at Kanaka Bar, station 1089-1110, where shovel 3975 worked four months reducing the slope; there was

also some trimming of slopes by hand on this contract.

At structure 371 a culvert was built 4 feet by 2½ feet, and the trestle was partly filled. Structures 372, 423 and 438 were filled. At Quoi Eek Creek, structure 405, the 25 foot arch culvert was completed, and the structure was filled from the award at Kanaka Bar. Two small pipe culverts were put in the banks five miles west of Lytton.

Work at the hydraulic fill at structure 374 was continued this year, but the fill is

not yet completed.

The alignment was straightened at a couple of points on this contract.

CONTRACT 62.

The award work on this contract consisted of a shovel cut at station 916-932, a

couple of changes of alignment and some trimming of slopes.

At structure 512 the part of the culvert which was washed out in 1894 was rebuilt and the structure refilled. At structure 542 a culvert 4 feet by $2\frac{1}{2}$ feet was built, and the structure filled. Structure 488 was also filled and structure 594 was half filled.

CONTRACT 63.

Several shovel cuts were taken on the award, on this contract, generally for the purpose of improving the alignment. A large crib was built at station 854 to hold a crumbling bank and a number of slopes were trimmed.

At structure 658 a vitrified pipe culvert was built, and at structure 669 a cedar box culvert was put in. Structures 657, 656, 658, 667, and 668 were filled, and structure

647 was half filled.

The Black Cañon slide gave a good deal of trouble this year. During July, August and September the track had to be lifted constantly.

There is not much work now left to be done on the award, and the work still to be done this season will still further reduce it. By the end of the season the award on contract 60 will all be spent, and contract 61 will probably also be finished. On contract 62 a few hundred dollars will be left over, and contract 63 is the only one on which any large award will remain unexpended. The total amount remaining for next year will probably not exceed \$7,000.

I have the honour to be, sir, Your obedient servant,

G. J. DESBARATS,

Inspecting Engineer.

COLLINWOOD SCHREIBER, Esq., C. M. G., Chief Engineer Dept. Railways & Canals, Ottawa.

No. 3.

CANALS.

SAULT STE. MARIE CANAL.

SAULT STE. MARIE, 22nd July, 1896.

Sir,—I beg to submit the first annual report upon the operation of the Sault Ste. Marie Canal since its opening for traffic on the 9th September of last season.

I entered upon the duties of superintendent of the canal in June, 1895, but as the machinery for operating the gates and valves was not quite completed and ready to put in motion I did not engage the staff.

On the first of July, however, I ordered part of the operating staff to report for duty and employed them in cleaning up the machinery and fixing up about the power-house, &c.

About the first of August I put these men to work operating the machinery which is all done by electricity and as they were all green hands it required a good deal of instruction to teach them their duties. It was time well spent as is shown by no accidents of any amount having occurred from the operating of the machinery.

On the first of September the balance of the operating staff were engaged, and on Saturday the seventh day of September, 1895, the canal was appropriately opened by passing through the new Canadian passenger steamer "Majestic" under the command of Captain Peter M. Campbell, commodore of the Great Northern Transit Line, with some seven hundred passengers aboard.

On the following Monday morning (9th September, 1895), at seven o'clock, the canal was formally opened for public business, the first lockage consisting of the American steamers "Uganda" and "City of London" with a tonnage of 3,383 tons, loaded with 146,000 bushels of wheat on a draught of water of fourteen feet four inches.

The first day's work of nine hours was the passing through the lock of forty-one vessels, with a combined tonnage of 44,469 tons with green hands and without a mishap.

By the opening of this canal the congested state of the traffic on the St. Marys River was relieved, previously to this vessels had been obliged in some cases to wait from twelve to thirty-six hours for their turn to lock through the American canal. Such protracted delays are now unheard of and the delay of an hour is now considered to be a great hardship.

Up to the close of navigation on the sixth day of December, 1895, the canal was operated during the day only, as the range lights at the entrances had not been erected. The canal was opened up this spring on the seventh of May, since which it has been

in operation night and day.

The buoying of the channels at the entrances is under the charge of the Marine Department, whose officer placed the buoys out this spring, but probably from want of a sufficient knowledge of the channels, some of them were misplaced, and as a consequence several vessels have gone aground, but as the attention of the Marine Department has been directed to the matter, the danger will no doubt be obviated in the future. The current cutting across the upper end of the piers at the western end is considered by vessel men as a great hindrance to the use of the canal by vessels with tows, as the current is liable to drag them down on the rocky edge of the channel, or they may strike the end of the pier, as did the schooner "Nelson" hitting so hard that she sunk This current could be done away with in a great measure by extending immediately. the pier out some 800 feet, or the difficulty could also be overcome by taking out the pier standing in the centre of the canal to support the end of the Canadian Pacific Railway swing bridge, thus allowing vessels to come right in with enough headway to hold their tows well up against the cross current, while with the bridge pier as it now is. they are forced to slow down so much that they cannot keep sufficient headway to prevent the current from carrying them down on and around the pier; with a north or

north-west wind it is hard work for a light vessel to work past this bridge pier and coming in vessels are very liable to strike it. Some very close calls have already occurred, and it has been and is now a cause of great complaint of vessel men using the canal, and by reason of its being there we lose the use of the entire south side of the canal at the upper end, as captains will not land on that side and then work around the bridge pier, and as I said before, if a north or north-west wind is blowing it would be almost impossible to do so without the assistance of a tug. In going out one day the schooner "Helvetia" hit the end of this pier and sheered in and went on and struck and nearly carried away the steel girder carrying the railway track from the pier to the shore. I would strongly recommend the removal of this pier and the erection of a bridge swinging clear across the canal.

Several minor accidents and cases of damages to the piers by vessels striking them have occurred, all of which have been reported to the department. The largest amount of damage done was by the schooner "Aurania" to the north pier at the lower entrance. These damages have been paid for and the amounts duly deposited to the credit of the

Receiver General.

The occupation of the new offices about the end of May has greatly facilitated the work of the clerical staff.

The canal grounds require to be trimmed down and levelled off, which service will require a considerable expenditure of money so as to give them a neat and tidy appearance. Around the offices a small portion has been levelled and grass seed sown.

Up to the end of the year ending 30th June, 1896, we had made 1,640 lockages, passing through 2,938 vessels, with an average time of twenty minutes to a lockage. The registered tonnage of vessels passing through the canal for the year was 2,398,715 tons, and of this about $12\frac{1}{2}$ per cent was Canadian.

The operating staff as a whole were new to the work and so far they have done as

well as could be expected considering their inexperience at such work.

Necessary repairs, such as painting the gates, fixing the floats, piers, machinery,

&c., &c., have been done, and also some levelling up of the grounds.

At the lower or eastern entrance it would be a manifest improvement if the elbow in front of the south pier was dredged off so as to widen the channel where vessels make the turn in going out and coming in to the canal. It would also be an advantage if the south pier was extended out about 500 feet when the dredging referred to is done, as it now stands there is not sufficient room for vessels to lie at the piers while waiting to take their turn to enter the locks or at night after locking down and waiting for day light or good weather to go on down the river.

I would also recommend the purchase of a small upright boiler on wheels to be used in connection with the steam hoist we now have and it could also be used for hoisting and lowering the heavy wickets on the movable dam. It would be a most

useful article on the canal.

The long narrow lock has proved to be a great success, the work of passing vessels through it is done with much greater dispatch than could be the case with a wider one, and the correctness of the views of those who changed the plan from the old to the new form of lock is fully demonstrated. There is no time lost in placing vessels alongside of each other as would be in case of a shorter and wider lock, and the use of a tug for that purpose is reduced to a minimum, and no damage can possibly arise to vessels in surging across the lock and hitting the opposite side. In this long and narrow lock a steam barge enters with her consorts without the assistance of a tug as was exemplified in one case this season where a barge brought in four schooners without the assistance from a tug.

I have the honour to be, sir, Your obedient servant,

J. BOYD.

Superintendent

COLLINGWOOD SCHREIBER, Esq., C.M.G.,
Deputy Minister and Chief Engineer
Railways and Canals,

SOULANGES CANAL.

Engineer's Office, Coteau Landing, P.Q., 28th Sept., 1896.

SIR,—I have the honour to report as follows:—

The total value of work let on this canal is, at contract rates, about \$3,500,000.

The subjoined list gives the names of the contractors and the dates of the various contracts:

Sections Nos. 1 & 2, Archibald Stewart, 24th Sept., 1892.

Section No. 3, J. & M. O'Leary, 27th March, 1893.

Sections Nos. 4, 5, 6 & 7, George Goodwin, 9th May, 1893.

Section No. 8, Charles Raynor, 29th December, 1892.

Section No. 9, Randolph Macdonald, 30th January, 1893.

Section No. 10, Rogers & Taylor, 24th December, 1892.

Section No. 11, George Goodwin, J. Feeney, Poupore and Fraser, 11th May, 1892.

Section No. 12, O'Brien & Son, George Goodwin, 9th May, 1893.

Section No. 13, Randolph Macdonald, 24th September, 1892.

The above contracts do not include the cost of cement, superstructure of bridges, the lock gates and their machinery, or the power-house and electrical apparatus for operating the canal.

For a description of the line under construction, see my reports dated 5th Novem-

ber, 1892, 4th October, 1893, 18th August, 1894 and 23rd August, 1895.

The condition of the works on the 30th June last may be briefly described as follows: Sections Nos. 1 and 2.—Work was begun on these sections in 1892. Up to the end of the fiscal year about 258,400 cubic yards of earth and 53,400 cubic yards of rock were taken out. At the Rockland quarry about 16,500 cubic yards of cut stone and 25,000 of backing were piled up. Nothing of consequence was, however, done up to the end of the fiscal year, towards the delivery of this material. In January, 1895, I submitted a proposal to the Hon. the Minister to reduce the number of locks at the Cascades end from four to three—the lifts to be $23\frac{1}{3}$ feet each. This change was approved and an agreement entered into with the contractor for its execution. It is presumed that this arrangement will be carried out, but unless a wholly different management of affairs be established on this contract, it is impossible to conjecture when the work will be completed.

It will be observed that out of the amount of the progress estimate to the 30th June, 1896, viz., \$443,881.90, there is an advance on materials delivered or prepared

of \$266,065.

Section No. 3. The earthwork of this section is well advanced. A large part of the stone lining is in place. But the St. Antoine Road bridge masonry will not probably be completed until next season. The work has however been carried on in a quite

satisfactory manner.

Sections Nos. 4, 5, 6 and 7. These sections were grouped into one contract for the reasons stated in my annual report of 1894. Over a million of cubic yards of earth were moved up to the end of that year. This consisted of the top part of the excavation. which was easily moved by wheeled scrapers to form the sides. The contractor has practically abandoned the earthwork after doing by far the easiest part of it, for which he was allowed full contract prices. No stone whatever has been delivered on the ground or prepared for Section No. 4, where a lift lock, guard gates, regulating weir, &c. (in all about 40,000 cubic yards of masonry) are to be built.

As will be seen, the contract is dated 9th May, 1893. The work was to have been completed by the 1st October, 1894. Its total value at contract rates is about \$850,000. Up to the 30th June, 1895, the progress estimate was \$279,752.35. At the same date this year the figures are \$298,535.25. Value of work done during fiscal year ending

30th June, 1896, \$18,780.90. Comment is unnecessary on such a condition of matters.

on an important public work.

Section No. 8.—A considerable portion of the earth work of this section is done. The culvert at Rivière à la Graisse is completed and in use. The concrete masonry of the St. Emmanuel Road bridge has been begun, but its progress was interrupted by heavy slides in the blue clay, which attains its greatest depth on the line of the canal at the western end of section 8. This blue clay has been extensively used in the formation of the rear portion of the embankments. A large part of it was, however, wasted into the St. Lawrence River. The work of this section has progressed satisfactorily as usual.

Section No. 9. Earth work nearly finished. Dredging operations have ceased. The work can be easily completed next season. The protection lining of the canal is in

progress.

Section No. 10.—The excavation is well advanced. The Rouge culvert and diversion channel are completed and in successful operation. The old bed of the river is being carefully filled up—the banks across its valley consist chiefly of water tight materials. The foundations of the bridge at the Rouge Road have not yet been begun—but there is no reason why the work on this section cannot be easily finished next year.

Section No. 11.—The main portion of the culvert at the Delisle River (4 tubes of 10 feet diameter) is completed, together with the new channel for the stream. A bridge to carry the macadamized road which will run along the whole line of the canal between Coteau Landing and Cascades Point, is being built over the north end of this culvert. A large amount of rock (72,000 cubic yards) is now excavated. The work can be easily completed next year.

Section No. 12.—Nothing has been done here since the fall of 1893, when the work was abandoned by Goodwin. There are from 80,000 to 100,000 cubic yards of rock on

the section.

Section No. 13.—The entrance to the canal from Lake St. Francis has been advanced somewhat. Dredging continues east of the Canada Atlantic Railway bridge where a steam shovel has also been employed. Generally, the work proceeds slowly, but the excavation is very hard, being largely interspersed with boulders. Arrangements should be made to go on with the construction of the Guard Lock at the head of the canal, which is indispensable to the safety of the navigation.

Out of a total of say $6\frac{1}{4}$ millions cubic yards of earth, about 4,400,000 were taken out to the 30th June last. 128,465 cubic yards of rock were also excavated. Of the masonry and concrete, amounting to about 200,000 cubic yards, only 25,652 were done.

The quantities of rock and earth on each contract are approximately as follows:

	Rock.	Earth.
Sections Nos. 1 and 2	53,400	258,400
do No. 3		513,800
do Nos. 4, 5, 6 and 7		1,113,322
do No. 8		608,618
do No. 9		470,000
do No. 10	3,050	426,500
do No. 11	71,940	265'944
do No. 12		152,987
do No. 13	75	592,000
5	128,465	4,401,571

A summary of the progress estimates of each section for work done and materials delivered (or prepared) up to the 30th June, 1896, is as follows:

	Wall.		Wall.		Wall.		Materia	ls.	Total.	
	*	cts.	*	cts.	 \$	cts.				
Sections Nos. 1 and 2	177,816		266,065		443,881					
do No. 3	131,681		26,275		157,956					
do Nos. 4, 5, 6 and 7	295,771		2,764		298,535					
do No. 8	181,324		7,670		188,995					
do 9	90,488		8,732		99,220					
uu 10	185,246		13,182		198,429					
do " 11	196,858		4,729		201,587					
do " 12	37,973			50	38,211					
do " 13	268,87 5	24	54,902	73	323,777	97				
Totals	1,566,036	67	384,559	73	1,950,596	40				

Note.—The advance given on materials, sections 1 and 2, is one and a half times greater than the total value of work done.

The system of short tests established here has been continued; so that a fair knowledge is obtained of the quality of all the cement before it is permitted to go into the work. The results have proved quite satisfactory. The contracts let, so far, are as follows:

	Barrels.
1. Francis Hyde & Co., Montreal	. 5,092
2. C. I. de Sola, Montreal	. 15,000
3. Bellhouse, Dillon & Co., Montreal	. 25,000

The brands are "White Bros,." "Josson" and "Coinder." The two last are Belgium Portlands of excellent quality.

The superstructure of the Canada Atlantic Railway bridge over the canal is erected and in use. Contracts have been let for all the road bridge superstructures of which there are seven.

The foregoing brief statement shows clearly that as a whole the work has so far progressed very slowly. The reasons for this are obvious. On section No. 12 operations have been at a standstill since the fall of 1893, although there are about 100,000 cubic yards of rock to be excavated there. On sections Nos. 4, 5, 6 and 7 matters are in a most deplorable condition, whilst on sections Nos. 1, 2 and 4 where there about 140,000 cubic yards of masonry of all kinds to be done—not a yard was laid up to the end of the fiscal year which closed on the 30th June, 1896.

I am, sir, your obedient servant,

THOMAS MONRO, M.I.C.E.,

Engineer, Soulanges Canal.

COLLINGWOOD SCHREIBER, Esq., C.M.G.,
Deputy Minister and Chief Engineer,
Railways and Canals.

MONTREAL DIVISION.

DEPARTMENT OF RAILWAYS AND CANALS, MONTREAL DIVISION,

SUPERINTENDENT ENGINEER'S OFFICE, MONTREAL, 30th September, 1896.

Sir,—I have the honour to submit my annual report on the canals under my charge for the fiscal year ended the 30th June, 1896.

I am pleased to say that the traffic, although considerably heavier than during the previous years, has been conducted without any serious accidents or detentions.

The various canals have been closed and opened as shown in the following table: -

	C	losing.	Opening.			
Lachine Canal	30th	Nov., 1895	3rd May,	1896		
Beauharnois Canal	do	do	1st do	1896		
Ste. Anne Lock	$29 ext{th}$	do	26th April,	1896		
Carillon and Grenville Canal	$30 \mathrm{th}$	do	27th do	1896		
Chambly Canal	do	do	4th May,	1896		
St. Ours Lock	$29 ext{th}$	do	29th April,	1896		

Following is a synopsis of the various works done on each canal under the head of repairs, income and capital.

LACHINE CANAL

REPAIRS.

The various structures in connection with the canal, viz., buildings, wharfs, piers, fences, &c., were kept in good repair throughout the year. The old building in Mill Street yard, occupied by two of the permanent foremen and which had become uninhabitable was renovated and somewhat enlarged, and sheds built in connection with it.

The negotiations for the transfer of Mill Street to the city of Montreal having fallen through, the road bed on that street had to be maintained during the summer out of the general appropriation for repairs. But instead of broken stone, iron dross was used. This stuff is cheaper than and fully as good as stone. It is the intention to use it in lieu of the latter whenever practicable.

The drains and ditches connected with the canal have been kept clean as well as River St. Pierre Complaints having been made that the syphon culvert carrying this stream under the canal was obstructed, I had it examined by a diver in May last. It was found to be perfectly clean.

In the spring of 1895 a portion of the wall protecting the new pier at the Lachine entrance was damaged by the ice. This was repaired at low water during September.

The electric lighting as well as the telephone service were all that could be desired

throughout the year.

An amount has been put down in the estimates for 1896-97, for the extension of the electric lighting from St. Gabriel to Côte St. Paul and for the substitution of electricity to gas on the north side of the canal below Wellington bridge. This work will be performed when the new power house is completed next spring, and we will then be enabled to terminate an old obsolete (1858) contract with the Montreal Gas Co., and provide our own lighting at a much reduced cost and with greater efficiency.

INCOME.

Electric Station.—The work undertaken last year for the purpose of converting the old Tate's mill into a power house and electric station has been pursued. The iron framing was completed: the inlet which is of cut stone rebuilt and its area increased, and the head race renewed.

The foundations and penstocks for the new wheels have yet to be built, the turbines put in place and the electric plant moved from the old building into the new one.

This work is done under the supervision of Mr. L. G. Papineau.

Wharfs at St. Gabriel Basin.—An amount of \$3,500 has been expended in repairing a portion of the wharfs around basins Nos. 1 and 2, St. Gabriel. Those at basin No. 1 are now completed, but a good deal of work still remains to be done in basin No. 2.

CAPITAL.

Deepening in the Lachine Canal between St. Gabriel and Lachine.—This work has been under contract since 1894. The contractors have added to and perfected their plant during the year, their fleet now consisting of two drill scows, each carrying five steam drills, two dredges, a number of dumping scows and two tugs, together with a floating repair shop.

The work is carried on night and day, the drill scows and dredges being provided

with electric lighting machinery.

The work was stopped on the 24th November, 1895, and resumed in May, 1896. From the beginning of operations on the 10th May, 1895, up to the 30th of June last the quantities of excavation were as follows:

which is slightly in excess of one-fourth of the total estimated quantities.

Mr. L. G. Papineau has charge of the above work.

Wharf above Wellington Bridge.—This work is done in connection with the deepening of the lower section of the canal and will provide wharfage accommodation on the south side of the channel for vessels drawing 20 feet of water. A section 360 feet long has been built during last year under the supervision of Mr. Papineau. The necessary excavation was done by the canal dredge, and the cribwork built under contract by Messrs. Gaherty & Shearer. The wharf consists of three cribs, each 100 feet, and a fourth one 60 feet long, the width and depth being 21 feet, with a superstructure 4 feet high and 11 feet wide. The filling behind the cribwork was done partly with clay dredged out of the canal and partly with materials from cellar diggings furnished free of charge by private parties.

Dredging for 22 feet navigation between Locks Nos. 2 and 3.—This work was continued during the last fiscal year with the canal plant, consisting of one steam dredge, one steam derrick, nine flat scows and a hired tug.

The new channel between Wellington Bridge and Montmorency Street is now about

one hundred and ten feet in width.

The total quantity of excavation done during the year amounted to 52,130 cubic yards.

LAKE ST. LOUIS CHANNEL.

The contractors are making good progress with this work. They employed two dredges from July to the end of the season of 1895, and, in July last, added a third one to their fleet. The quantity of excavation done during the year was 52,350 cubic yards.

The canal dredging and the forming of the new channel in Lake St. Louis are under

the charge of Mr. L. S. Pariseau.

Repairs to Vessels.—During the winter the dredge No. 2 was thoroughly overhauled, the deck was completely renewed and the sides partly so. The engine cylinder rebored

and the old swinging gear replaced by a pair of independent swinging engines furnished under contract by Messrs. Carrier & Lainé, of Lévis.

As reported at the time, the cabin of the steam derrick had been burned down in November last. It had to be entirely rebuilt, all the steam connections were renewed and the boiler and machinery overhauled.

The balance of the appropriation was used in the usual repairs to the dredging fleet before resuming operations in the spring.

BEAUHARNOIS CANAL.

REPAIRS.

The canal has been kept in good repair during the year. The various structures, such as lock gates, lock machinery, bridges, buildings, piers, scows, fences, &c., having received the customary attention.

A large quantity of stone was broken for macadamizing the canal towpaths, and

most of it used for this purpose.

A pair of gates has been built for lock No. 12 and put in place. The old gates will be repaired and can be used again in case of emergency. All the locks except two are now provided with spare gates. The two mooring piers which were carried away by the ice in May, 1895, were rebuilt during the fall, and a quantity of stone deposited behind them.

The house occupied by the superintendent was renovated, the walls were re-tinted, some painting done, and the iron roof repaired. All the watch houses on the various locks have also received a coat of paint.

A new repair scow has been built to replace the old one which was worn out.

INCOME.

Lowering sill and bottom of Lock No. 6.—In consequence of the unusually low water in the St. Lawrence last year, the depth of water on the river sill of the lower lock came down from 9 feet to 8 feet 4 inches during the fall of 1895, causing a great deal of inconvenience to navigation. In order to restore the draught of 9 feet at this point, some important work was done during the winter months. The lock chamber was deepened some 20 inches, and the river sill and platform lowered about 6 inches, the flooring being renewed and the gates altered to suit the altered depth. This work has increased the available draught of water in the lock about 15 inches. To give the full benefit of this improvement, the lower entrance to the lock will have to be cleared of some heavy blocks of stone presumably deposited there by the ice during the spring floods. The works here were done under the supervision of Mr. L. S. Pariseau.

STE. ANNE LOCK.

A large share of the appropriation for this lock was expended on repairs to the pier between the new and old locks, a portion of which had to be completely renewed. The planking on top of it was removed, the top of the stone filling covered with broken stone and clay, and the tamarack sheeting renewed. An additional length of the north pier in the south channel was also rebuilt. The timber for the balance of it, some 300 feet in length, has been purchased and the work will be done this year.

The public wharf was also extensively repaired, the planking, mooring and bumping posts, the oak waling pieces and sheeting being renewed, and a small pier built to replace

the bridge, connecting it with the shore.

Besides the above works, the various structures on the canal were kept in good repair during the year.

ST. OURS LOCK.

REPAIRS.

During the unusually high water here last spring the lower gates of the lock, although heavily loaded with stone, were raised from their pivots and thrown down, the fences around the Government property were partly carried away and some damage done to the superintendent's house, but everything was put in working order for the opening of navigation.

Pier No. 1 above the lock, which had been carried away by the ice in the spring of 1895, was rebuilt at low water; and a ferry scow provided to replace the old one

which was going to pieces.

Besides this nothing but the customary repairs to keep the lock and appurtenances in good order was done.

CARILLON AND GRENVILLE CANALS.

REPAIRS.

A slight accident occurred at lock No. 5 on the 19th August, 1895, by which traffic was interrupted for 13 hours. It was caused by the steamer "Maud" running against the upper gates and displacing them. The bill of damage, amounting to \$60, was paid by the owners of the boat.

The locks, lock-gates, buildings and fences have received the necessary attention; the tow-path along the Grenville canal has been considerably improved during the year; a new watch house was built at lock No. 5 to replace the old stone house which had become uninhabitable; two new tow-path bridges were built and put in position at lock No. 6, and a piece of dry wall 50 feet long renewed at the same point; a dangerous leak about half a mile above lock No. 5, was successfully stopped by means of a puddle trench built into the bank, on a length of 215 feet. Two of the boom piers, at the head of the Carillon canal, having been carried away by the ice during last spring floods, some of the booms could not be put in place, but I am pleased to say that this has caused no inconvenience to navigation. The piers will be rebuilt during the coming winter.

CAPITAL.

Grenville Canal Enlargement.—The preliminary survey for the enlargement of two reaches in the Grenville canal was commenced by Mr. H. G. Stanton in August, and completed in the month of October, 1895. During the winter, specifications, plans and cross-sections of the proposed work were prepared and tenders invited in April, but withdrawn before the date appointed for receiving them. The staff was discharged at the beginning of July last.

CHAMBLY CANAL.

REPAIRS.

The traffic on the St. Ours and Chambly canal was very active during the year, the results being fully 30 per cent higher than in ordinary seasons. I have pleasure in stating that it was conducted without accidents of any kind.

On the 25th and 26th November last, the snow which had fallen a few days before happening to thaw suddenly under a heavy rain the water in the canal overflowed the

bank and at one time threatened to cause serious washouts in two places. Fortunately the coating of gravel on the towpath acted as a protection, and the damage done was repaired in time to allow ten boats which had been caught in the ice at Chambly the day before, to be locked through.

The water in the Richelieu River was unusually high last spring, as will be shown by the statement accompanying this report, but happily caused no serious damage to

the canal.

The annual repairs to the various structures on the canal, the canal prism, tow-paths, &c., were performed during the year. Besides these two pairs of gates were built, one for lock No. 8 and the other for lock No. 9; the upper sill of lock No. 3 was renewed, a swing bridge, built during the winter of 1894, was put together and placed in position, the surface weir below lock No. 6 was altered so as to provide a bottom valve to be used for emptying the reach for repairs. The frame for this valve has been built and put in position and the valve itself will be prepared during the coming winter.

A small pile driver for driving piles at any desired angle was built during the

winter and found very useful for the spring repairs.

Over 700 cubic yards of clay were dredged out of the shallow parts of the canal for use at the sites of culverts and waste weirs. Various improvements were made to the machinery in the canal shops by which time and labour is saved. All the tubes in the boiler connected with these shops, had to be renewed during the year, owing to heavy incrustations due to the use of highly calcareous well water.

To remedy this, a line of iron pipes 110 feet long has been laid for the purpose of

bringing the feeding water from the canal.

The electric lighting and telephone service have been all that could be desired throughout the year except for an interruption of eight days in the electric lighting due to the burning of one of the fields of the arc dynamo.

A spare dynamo having been added to the plant during the year such interrup-

tions will be avoided in future.

INCOME.

The amount voted for a retaining wall along portions of the canal in the upper reach has been expended for the purpose mentioned. Some 6,400 lineal feet of new wall were built, and, for a distance of 300 feet, where the old wall had collapsed, piles were driven ten feet apart and capped with a piece of hemlock timber upon which the wall was started.

A spare dynamo with the necessary appliances was added to the electric plant at the estimated cost of \$1,200, and a Worthington pump and boiler from the stock of the Lachine Canal purchased for use here.

Inclosed I beg to hand you statements showing the heights of extreme high and low water at both ends of the various canals under my charge during the year.

I have the honour to be, sir,

Your obedient servant,

ERNEST MARCEAU,

Superintending Engineer.

Collingwood Schreiber, Esq., C.M.G.,
Deputy Minister and Chief Engineer,
Railways and Canals.

LACHINE CANAL.

STATEMENT showing the depth of the River Water on Mitre Sills of Old Lock No. 1, at Lower Entrance, and Lock No. 5, at Upper Entrance, during the fiscal year ended 30th June, 1896.

Months.	Old Lock No	. 1, Lower Sill.	Old Lock No. 5, Upper Sill.			
	Highest.	Lowest.	Highest.	Lowest.		
1895.	Ft. in.	Ft. in.	Ft. in.	Ft. in.		
July August September October November December	. 159	15 2 15 1 14 0 13 3 13 3 15 0	10 8 9 10 9 4 9 2 9 4 11 9	9 4 9 4 8 8 8 4 8 1 8 10		
1896.		,				
January February March April May June	29 6 27 9 37 6	18 9 26 3 24 5 25 7 18 6 16 10	12 4 11 10 10 5 15 0 13 8 12 0	9 7 10 4 8 9 10 1 11 11 10 11		

LACHINE CANAL.

STATEMENT showing the depth of the River Water on Mitre Sills of New Lock No. 1, at Lower Entrance, and New Lock No. 5, at Upper Entrance, during the fiscal year ended 30th June, 1896.

	New Lock No.	1, Lower Sill.	New Lock No. 5, Upper Sill			
Months.	Highest.	Lowest.	Highest.	Lowest.		
1895.	Ft. in.	Ft. in.	Ft. in.	Ft. in.		
July August September October November December	17 11 17 3	17 4 17 3 16 2 15 5 15 5 17 0	14 10 14 0 13 7 14 2 14 4 16 9	13 6 13 6 12 10 13 4 13 1 13 9		
1896.				•		
January February March April May June.	29 11 39 8	20 11 28 4 26 5 25 9 20 8 19 0	17 4 16 10 15 4 20 0 18 8 17 0	14 7 15 4 13 9 15 1 16 11 15 11		

BEAUHARNOIS CANAL.

STATEMENT showing the depth of the River Water on Mitre Sills of Lock No. 6, at Lower Entrance, and Lock No. 14, at Upper Entrance, during the fiscal year ended 30th June, 1896.

	Lock No. 6,	Lower Sill.	Lock No. 14, Upper Sill			
Months.	Highest.	Lowest.	Highest.	Lowest.		
1895.	Ft. in. Ft. in.	Ft. in.	Ft. in.			
July August September October November December	10 1 9 4 8 11 8 11 9 6 11 10	9 4 8 11 8 4 8 2 8 0 8 11	11 7 11 6 10 10 10 8 10 8 12 2	10 8 10 8 10 4 10 2 9 6 10 0		
1896.						
January February March April May	15 10 17 6 18 0 15 7 14 5 12 6	11 4 15 0 13 8 13 6 12 6 11 0	11 8 11 10 11 4 12 10 11 10 11 8	10 4 10 8 10 0 11 3 11 4 11 3		

CHAMBLY CANAL.

STATEMENT showing the depth of River Water on Mitre Sills of Lock No. 9, at Lower Entrance, and Lock No. 1, at Upper Entrance, during the fiscal year ended 30th June, 1896.

Months.	Lock No. 9	, Lower Sill.	Lock No. 1, Upper Sill.			
	Highest.	Lowest.	Highest.	Lowest. Ft. in.		
1895.	Ft. in.	Ft. in.	Ft. in.			
July August September October November December.	10 9 10 0 9 0 8 6 15 1 13 5	8 7 8 0 8 1 7 2 7 2 10 11	8 7 8 5 8 2 8 6 9 0 10 1	7 8 7 5 7 3 6 8 6 8 8 8		
1896.	•					
January February March April May	13 11 17 9 18 6 24 2 19 0 12 9	12 1 13 8 16 5 17 0 13 0 10 9	9 10 9 2 10 2 13 3 12 5 9 10	9 0 8 6 9 2 10 6 10 0 8 8		

St. Ours Lock.

STATEMENT showing the depth of River Water on Mitre Sills of St. Ours Lock during the Fiscal Year ended 30th June, 1896.

Nr., de	Lock	No. 1,	Lower	Sill.	Lock No. 1, Upper Sill.			
Months.	Highest.		Lowest.		Highest.		Lowest.	
1895.	Ft.	in.	Ft.	in.	Ft.	in.	Ft.	in.
July August September October November December	9 8 7 6 11 13	8 5 2 6 4 3	7 6 5 5 5 9	0 11 11 0 2 4	9 8 8 8 12 11	2 10 4 4 1 7	8 8 7 7 7 8	0 0 11 7 5 10
1896.								
January February March April May June	13 12 14 26 18	7 6 6 9 3 10	9 10 12 14 11 9	5 0 10 2 11 0	11 9 11 22 15 10	3 10 5 9 0 10	9 8 10 11 11 11 9	5 11 0 3 1 6

St. Anne's Lock.

STATEMENT showing the depth of River Water on Mitre Sills of Ste. Anne's Lock, during the fiscal year ended 30th June, 1896.

	Lock No. 1	, Lower Sill.	Lock No. 1, Upper Sill.				
Months.	Highest.	Lowest.	Highest.	Lowest.			
1895.	Ft. in.	Ft. in.	Ft. in.	Ft. in.			
July August September October November December	$\begin{array}{cccc} 10 & 8 & \\ 11 & 5 & \\ 9 & 3 & \\ 8 & 10 & \\ 9 & 6 & \\ 11 & 2 & \\ \end{array}$	9 3 9 4 8 10 8 6 8 3 9 2	13 2 11 5 11 3 10 5 11 1 13 7	11 3 11 0 10 5 10 1 10 1 10 7			
1896.							
January February March April May June	13 2 12 3 11 7 15 0 13 10 11 9	11 5 11 3 9 8 10 1 11 2 10 9	13 10 12 3 11 11 18 8 17 2 14 4	12 1 11 6 11 1 11 5 14 2 12 7			

CARILLON CANAL.

STATEMENT showing the depth of River Water on the Mitre Sills of Locks Nos. 1 and 2, Carillon Canal, during the Fiscal Year ended 30th June, 1896.

Months.	Lock	No. 1,	Lower	Sill.	Lock No. 2, Upper Sill.			
	Highest.		Lowest.		Highest.		Lowest.	
1895.	Ft.	in.	Ft.	in.	{ Ft.	in.	Ft.	in.
July	14	8	12	2	14	10	12	2
August	12 12	6 5	12 11	17	12 12	6 6	12 11	1 5
October	11	8	11	3	11	4	11	ŏ
November	12 15	4 5	$\frac{11}{12}$	5 1	12 15	3	11 12	0 6
1896.								
January	17	1	14	0	19	6	16	0
February	14	6	13	7	18	2	15	0
March	13 20	9 5	$\frac{12}{12}$	10 10	15 21	3 6	12 11	9
May	19	4	15	9	20	ĭ	16	4
June	16	1	13	10	16	9	14	1

GRENVILLE CANAL.

STATEMENT showing the depth of the River Water on the Mitre Sills of Locks Nos. 3 and 7, Grenville Canal, during the Fiscal Year ended 30th June, 1896.

Months.	Lock	No. 3,	Lower	Lock No. 7, Upper Sill.				
	Highest.		Lowest.		Highest.		Lowest.	
1895.	Ft.	in.	Ft.	in.	Ft.	in.	Ft.	in.
July. August September October. November. December	14	9 11 10 6 8 6	14 14 13 13 13	8 5 7 3 6	15 12 12 10 12 16	8 4 0 7 0 6	11 11 10 10 10	10 9 6 2 2 10
1896.								
January February March April May June	25 25 24 25 24 20	0 6 6 10 7 4	18 23 18 17 20 17	0 0 0 0 0 2	16 14 13 22 16 17	6 0 4 3 4 0	14 13 12 11 21 14	0 2 0 8 0 4

LACHINE CANAL.

STATEMENT of Fines and Damages collected during the Fiscal Year ending 30th June, 1896.

Date.	Name of Vessels.	Name of Owners.	Fines.	Damages.	Total.
Nov. 6 Dec. 13	Scow "Phillippe" Barge "Michigan"	D. Anderson Doré & Co. N. Paul D. Anderson. do do	\$ cts. 4 00 20 00 4 00 4 00 4 00 4 00 4 00	\$ cts.	\$ cts. 4 00 20 00 4 00 4 00 4 00 4 00 4 00
1896. June 4	Schooner "Arlina"	J. Frenette	••••	5 00	5 00 45 00

J. O'NEILL, Collector.

CHAMBLY CANAL.

STATEMENT of Fines and Damages collected during the Fiscal Year ending 30th June, 1896.

					1	1	
1895.			*	cts.	\$	cts.	\$ cts
Aug. 21 Boa	t "S. M. Weed "	D. Surprenant		5 00		5 00	5 00
Nov. 4 Bar	ge "Negociant"	U. Laroche B. Cormier		· · · ·	i	50	50
do 9 do do 15 do	"T. Cormier"	Wm. Charland		2 00	10	00	00 (

M. D. S. MARTEL, Collector.

CARILLON AND GRENVILLE CANALS.

STATEMENT of Damages collected during the Fiscal Year ending 30th June, 1896.

Date.	Name of Vessel.	Name of Owners.	Fines.	Damages.	Total.
1895. Aug. 19	Steamer "Maud"	Ottawa River Navigation Co	\$ cts.	,	\$ cts. 60 00 60 00

TRENT CANAL.

Superintending Engineer's Office, Peterboro', 4th July, 1896.

Sir,—I have the honour to submit herewith the annual report on the works under my charge for the fiscal year ending 30th June, 1896. The Trent Canal is a term applied to a series of water stretches between Bay of Quinté on Lake Ontario and Georgian Bay on Lake Huron which, however, in their present condition do not form continuous navigation. This project was first commenced by the Imperial Government about the year 1835, and the money for the completion of the scheme was voted by them, but was afterwards taken to quell the rebellion in the year 1837. A considerable amount of work was done, and the water stretches then made navigable have ever since been utilized. The distance between Georgian Bay and Lake Ontario by the proposed line of navigation is about 200 miles, only about 15 to 20 miles of which will be actual canal, the balance being made up of lakes and canalized rivers. When the two divisions at present under construction are completed it will render navigable a stretch of about 160 miles of direct navigation, besides about the same distance of lateral navigation, between Heeley's Falls on the River Trent and the ports on Lake Simcoe.

MAINTENANCE.

Navigation closed on the central reach 21st November, 1895, and opened again 20th April, 1896. On the lower reach navigation closed on the 22nd November, 1895, and opened again April 18th, 1896. No interruption took place to navigation during the season. The water was maintained at good navigable height on the reaches. The total number of lockages was 3,743. This does not, however, fairly represent the traffic on this canal, as on some of the longer stretches the regular routes do not pass through any lock, so no record of these is kept. There are 25 steamers on the central reach between Lakefield and Balsam Lake and seven on the lower reach between Peterborough and Heeley's Falls.

REPAIRS.

The following repairs were executed:

Peterborough.

The whole of the side dam was rebuilt and well gravelled, so that there is now no trouble in holding the water at the proper navigation level. The lock walls were pointed and the gates received a coat of paint. New platforms were also built at the lower end of the lock for those operating the gates to walk upon. The opening and closing gearing of the gates was also overhauled.

Buckhorn.

The dam at this station was thoroughly gravelled.

Fenelon Falls.

The road was constructed at the rear of the lock in order to give access to the wharf from Colborne Street.

Minor repairs were also done at the following stations: Bobcaygeon, Lovesick, Burleigh, Young's Point and Hastings.

INCOME.

Two dump scows and one deck scow were built at Lakefield under contract by H. Walters, Lindsay.

Hastings.

A new sluiceway was constructed in the dam with an opening of 26 feet and 7 feet in depth. This has been a great help in getting rid of the water during the spring freshet which otherwise would flood the farm lands on the shores till late in the season, when it was too late to sow them. Further escape for the spring freshet is necessary.

Emily Creek.

The creek was deepened and straightened in order to allow barges to go further up into the township for the shipping of grain, &c.

Bobcaygeon.

The lower entrance to the lock was dredged and a glance pier built. This has very much improved the entrance.

SURVEYS.

The survey and location of Sections No. 2, on both the Peterborough-Lakefield and Simcoe-Balsam Lake Divisions were completed and the land plans made. The necessary right of way on both these sections has been purchased and paid for with a few exceptions.

In accordance with your instructions surveys of the Trenton-Frankford Division also of the Couchiching-Georgian Bay Division were proceeded with and at the end of the year were still in progress.

CAPITAL.

Rosedale.

Between Balsam and Cameron Lake a shoal in the river has not more than three feet and a half in depth of water, the bottom being rock. A channel 4,600 feet long and ninety feet wide with a depth of seven feet is being made. The rock is being drilled by means of drill scows, and when blasted the material will be dredged. About 14,000 holes are required to be drilled, of which 13,000 are now drilled. Without this work navigation between Balsam Lake and the lower lakes is cut off.

CONSTRUCTION.

Section No. 1, Simcoe-Balsam Division.

Work on Section No. 1, Simcoe-Balsam Lake Division, was commenced by the contractor, Andrew Onderdonk, on 22nd April, 1895, and was continuously carried on till the end of the present fiscal year. About half the rock work (200,000 cubic yards) and two-thirds of the earth work (160,000 cubic yards) have been excavated.

The amount of this contract at schedule rates is about \$475,000. No work outside the excavation, except the raising of roads and bridges, has been done. A small quantity of timber required for the structures has been delivered. The following structures are yet to be built—two entrance piers, two guard gates, two regulating weirs, concrete piers for one highway swing bridge, one highway high level bridge and one railway bridge. The work on this section has been carried on most satisfactorily.

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Section No. 1, Peterborough-Lakefield Division.

The contract on this section was awarded to Messrs. Brown, Love & Aylmer. They commenced work on the 19th August, 1895, since which date work has been proceeded with continuously. During the winter rock excavation was taken out. Up to the end of the year 13,000 cubic yards of rock and 42,000 cubic yards of earthwork were taken out. No other work has been done outside the building of road culverts and road deviations. The pit for lock No. 4 has been prepared to receive the concrete for the lock. The plant for preparing and distributing the concrete is being placed in position. The following structures are yet to be built, viz.: five concrete locks, with gates complete, four sluice dams, one guard gate, two entrance piers and abutments for one bridge at Lakefield.

The work is proceeding very satisfactorily on this section.

Section No. 2, Peterborough-Lakefield Division.

The contract for this section was awarded to Corry & Laverdure. They commenced work on 21st May. By the end of the year they had excavated 43,000 cubic yards of earth. The only other work done by the end of the year was the building of road culverts and the widening of the Canadian Pacific Railway track at the approaches to the swing bridge.

The structures yet to be constructed are as follows: one lock, with gates complete, the piers, abutments and guards for three highway swing bridges, one high level bridge, one pipe culvert, one sluice dam, and the concrete in connection with one hydraulic lift lock

The superstructures for all the bridges and the cement for concrete are not included in any of the contracts.

PLANT.

Dredge "Otonabee."

The dredge "Otonabee" was in constant use throughout the year except during the winter months. The channel in front of the wharf at Lakefield was cleaned out, the upper and lower entrances to the Bobcaygeon locks were deepened and widened, the channel of Emily Creek was straightened, and in October the dredge was taken to Rosedale, where it was engaged till the end of the year in excavating the channel between Balsam and Cameron Lake.

Two new dump scows and one deck scow, which were much needed, were added to dredge plant.

Tug "Empire."

The tug "Empire" has been fully employed during the year in attending the dredge "Otonabee," in buoying out the navigation channel, delivery of timber for the different works of repair, hauling gravel for the staunching of dams, &c.

I have the honour to be, sir,
Your obedient servant,

RICHD. B. ROGERS, Superintending Engineer.

COLLINGWOOD SCHREIBER, Esq., C.M.G., Chief Engineer, Railways and Canals, Ottawa.

STATEMENT showing the highest and lowest Water Level at each Lock on the Trent Canal for the Fiscal Year ended 30th June, 1896.

		-				18	95.	Administration and A Million				
Station.	Ju	ly.	Aug	ust.	Septe	mber.	Octo	ber.	Nove	mber.	Dece	mber.
	Highest.	Lowest.	Highest.	Lowest.	Highest.	Lowest.	Highest.	Lowest.	Highest.	Lowest.	Highe t.	Lowest.
Hastings Peterborough Lakefield Young's Point Burleigh Falls Lovesick Buckhorn Bobcaygeon Fenelon Falls.	ft. in. 7 3 7 5 6 1 6 8 5 6 6 1 6 5 6 10 6 1	ft. in. 6 11 6 10 5 3 6 0 5 5 5 9 6 1 6 6 5 10	ft. in. 7	ft. in. 6 11 6 10 5 9 6 6 5 2 5 6 6 0 6 7 5 8	ft. in. 7 2 7 3 5 11 6 6 5 5 5 10 6 5 5 2	ft. in. 6 10 6 6 5 7 5 9 5 0 5 3 5 9 6 0 5 0	ft. in. 7 2 7 6 6 1 5 9 5 4 5 9 6 1 5 3	ft. in. 7 0 6 5 5 8 5 6 5 1 5 6 5 8 5 1	ft. in. 7 0 7 10 5 11 5 4 5 8 5 4 5 2 6 3 5 0	ft. in. 6 6 7 7 5 7 5 3 5 0 5 1 6 0 4 7	ft. in. 7 5 7 5 6 7 7 0 6 8 6 10 5 9	ft. in. 6 4 6 2 5 9 5 0 5 3 5 4 5 5

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RICHARD B. ROGERS, Superintending Engineer.

RIDEAU CANAL.

SUPERINTENDENT ENGINEER'S OFFICE, OTTAWA, 2nd July, 1896.

SIR,—I have the honour to submit herewith my annual report on the works performed on the Rideau Canal, under my charge, during the fiscal year ending 30th June, 1896.

Navigation closed at Ottawa, 30th November, 1895.

do Kingston Mills, 20th November, 1895.

Navigation opened at Ottawa, 1st May. 1896.

do Kingston Mills, 1st May, 1896.

On all the levels ascending from Ottawa to the summit level (Upper Rideau Lake), the water was maintained, throughout the whole season of navigation, so as to give continually the required depth on the lock sills.

The summit level, however, owing to the long drought of last summer, fell so low that towards the latter end of the season, only the smaller class of steamboats, and lightly laden barges could go through the cut leading from the lake to Newboro' lock.

Lake Ontario also fell so low, that at the close of navigation, the six mile run from the lower entrance of the canal at Kingston Mills lock station, to the city of Kingston, was almost impassable for boats, particularly at a point known as the "Basket" shoal, about half a mile below the locks.

The spring freshet this year was particularly violent, the water rising higher than has been known for the last 25 years; but I am glad to be able to report that, although damage was done by ice and water at various points along the canal, temporary repairs were promptly made, and navigation was not delayed at all.

Permament repairs will be made where required next winter, everything being safe

for the present season of navigation.

The principal repairs and works performed at the various lock stations and bridges along the line of navigation, are as follows:—

OTTAWA.

The East Basin having been leased to the Ottawa, Arnprior and Parry Sound Railway Company, who have laid their tracks across it, has been closed to canal traffic. The West Basin from Maria Street Bridge to the head of the cut leading to the locks has been cleaned out, and new wharfs have been built round it by the Ottawa, Arnprior and Parry Sound Railway Company at their own expense, and from the last mentioned point to Bate & Co.'s warehouse, a new wharf was built by the department under my direction, and as the basin now stands, although its actual area is diminished, yet boats have greatly increased accommodation for landing freight, and the appearance of the whole locality is very much improved. One pair of lock gates were rebuilt and sluice frames repaired. Four new chain blocks were placed on the locks. A new base burner stove was purchased for the lock-house last winter, the old one having burnt out. A sidewalk was built from the upper side of Sappers Bridge to the end of the new wharf at Bate's warehouse, to serve as a towing path for boatmen. Several small repairs were also made to the station.

OTTAWA EAST SWING BRIDGE.

The flooring of this bridge was relaid throughout with 3-inch white pine plank.

BANK STREET SWING BRIDGE.

The hand railing on both sides of the approaches was rebuilt. A branch was laid from the city water main to the bridge tender's house, and a sink and waste pipe placed therein.

HARTWELL'S LOCKS.

Two pairs of lock gates rebuilt, and 12 new chain blocks supplied. Lock labourer's house was repaired, and together with the lockmaster's house supplied with winter sash. The posts for a new fence have been planted in front of one of the labourer's houses along the road, but the wire has not as yet been stretched on them. The tow path road above the St. Lawrence and Ottawa Railway crossing was widened for about 200 yards. The protection boom in Dow's Lake was replaced in position, the anchors having dragged from their proper positions.

HOGSBACK LOCKS.

The swing bridge across the locks was replanked with 3-inch pine plank. A triple boom of timbers varying in size from 17 x 17 inches to 12 x 12 inches was placed between the ice breakers above the waste weirs. This boom was broken by the freshet this spring; but not until after it had served its purpose, and held back the field ice until it had become broken up, and subsequently passed through the weirs in small pieces. The up stream rest pier of the swing bridge had four courses of timber lifted off by the ice, but the damage was promptly repaired. A quantity of clay was placed on the long dam to check leakage.

The road allowance running through the Ordnance reserve on the Gloucester side of the river was conveyed to Mr. De Wand in exchange for his private road running from the Government quarry to the bulkhead, this latter being much more convenient

for the department and also for the public.

BLACK RAPIDS LOCK.

A new crib 150 feet long, filled with stone, was built below the dam to save the wash caused by an eddy from one of the waste weirs. The up stream piers of both waste weirs were repaired, and six new chain blocks supplied. This station suffered severely from the freshet, but temporary repairs were promptly made, and navigation was not delayed. The necessary permanent repairs will be made this winter.

LONG ISLAND LOCKS.

The wall at the back of the upper lock was taken down and rebuilt in cement. The aprons of the by-wash were close sheet-piled with 10in. × 10in. × 24ft. timbers, and for this purpose a new pile driver was built, and added to the list of plant belonging to the canal, and was so made as to be readily taken apart for transporting from one point to another when required. For the purpose of unwatering the work of pile driving, a coffer dam was placed across the White Horse shoal. The lockmaster's house was re-shingled and sundry small repairs made to the station.

MANOTICK BRIDGE

Did not require any repairs this year.

Wellington Bridge

Did not require any repairs this year.

BECKETT'S LANDING BRIDGE

Small repairs were made to flooring.

BURRITT'S RAPIDS LOCK.

Lockmaster's house repaired inside, and sundry small repairs made to station and bridge.

NICHOLSON'S RAPIDS LOCKS.

Sundry small repairs were made to the station.

CLOWE'S QUARRY LOCK.

A new set of stop logs were purchased for the waste weir, and sundry small repairs made to the station.

MERRICKVILLE LOCKS.

The two retaining walls of coursed rubble masonry laid in Portland cement, along the west side of the road across the locks were completed this year; having been commenced last year under contract with Mr. M. Ryan of Smith's Falls. A substantial iron railing was placed on the coping of these walls throughout their entire length, and a six-foot sidewalk built inside the walls. One pair of lock gates was rebuilt. Both bulkheads on the north and south sides of the waste weirs were repaired. The rock cut from the head of the locks to the river, a distance of about 1,350 feet, was deepened by blasting, last winter, from 18 to 24 inches. A bulkhead for unwatering the cut was placed at its upper end. The work was done by day labour, and the cut is now in first class condition, even at the lowest stage of the water, for all boats navigating the canal.

MAITLANDS RAPIDS LOCK.

Sundry small repairs were made to this station.

EDMOND'S RAPIDS LOCK.

One pair of lock gates were rebuilt. Lockmaster's house repaired, and sundry small repairs made to station.

OLD SLY'S LOCKS.

The road and approaches to the swing bridge were raised and repaired, and sundry small repairs made to station.

SMITH'S FALLS COMBINED LOCKS.

Some leakage through the basin was stopped. New sluice frames placed in middle lock, and sundry small repairs made to station.

SMITH'S FALLS DETACHED LOCK.

The old stone lock house was pulled down and replaced by a substantial brick cottage; the work being done at a cost of \$1,150, by contract with Mr. M. Ryan. The retaining dam was rebuilt and raised 10 inches higher than formerly, thus raising the level of the reach above, and enabling boats to go easily over the hitherto existing rock shoals in the channel. The Lombardy Road embankment was repaired, and sundry small repairs made to the station. A new steel Warren truss swing bridge was built at the foot of the lock by contract with the Weddell Bridge Co. of Trenton; but the bywash has yet to be bridged over, and a road made between the two bridges before the crossing is complete.

POONAMALIE LOCK.

Nine new stop logs were purchased for the bulkhead at the head of the upper cut. Two new sluice frames put in, and sundry small repairs to station.

OLIVER'S FERRY BRIDGE.

The swing span was shifted off the pivot pier by a barge striking it; but by prompt attention it was replaced without any delay to navigation, and with very little to bridge travel; boats being put on to ferry passengers across whilst repairs were being made.

PERTH BRANCH.

Three pairs of lock gates were rebuilt. Twelve new chain blocks put in. A new store-house was built and sundry small repairs made to station. In the town of Perth, Gore Street swing bridge was replanked, the other three bridges requiring no repairs. The basin wharfs are shortly to be replanked all round.

THE "NARROWS" LOCK.

Gravel and stone were placed on the long embankment. Debris above upper gates was cleaned out by diver. The blue clay now being dredged out of the cut at Newboro' is being deposited by scows against the dam to stop leakage.

NEWBORO' LOCK.

A permanent bulkhead was built across the mouth of the cut and provided with 40-foot elin stop logs. The upper lock gates were upset and the sluice frames repaired. A new 5-inch well was sunk 35 feet into the rock to provide water for the lock house. Last winter the cut for a distance of about 2,200 feet was deepened from 18 to 24 inches by blasting, the work having been done by day labour. This cut has always been extremely difficult to navigate during the latter part of each season, owing to its being shallow, and also on account of its being a portion of the summit level which always is the first to fall. The work done last winter will in future enable boats to pass without difficulty at all stages of the water. Part of the bottom of this cut is blue clay, and was not deepened last winter, the rock only having been removed; but the dredge is now at work taking this portion out, and will finish in about three weeks time.

CHAFFEY'S LOCK.

A new house was built for the lock labourer. The swing bridge and approaches to same were repaired. A 5-inch well was also drilled here, for a distance of 44 feet into the rock to provide water for the lock house.

DAVIS'S LOCK.

The upper sill of the lock was taken down and rebuilt by our own masons; and sundry small repairs were made to the station.

JONES'S FALLS LOCK.

The head gates of the upper lock were repaired. Four new sluice frames put in, and small repairs made to the station; and the swing bridge repaired. Morton Dam, which is under the charge of the lockmaster here was repaired; but was badly shaken by the spring freshets; and although safe for this season, requires to be rebuilt next winter.

Brewer's Upper Mills Locks.

Two new swing beams were placed on the gates. Embankments repaired, and sundry small repairs to bridge and station.

BREWER'S LOWER MILLS LOCK.

The swing bridge and apparatus thereto were repaired. Fifty cubic yards of gravel were placed on the dam and lock walks, and sundry small repairs were made to the station.

KINGSTON MILLS LOCKS.

A new storehouse was built here. One new swing beam placed on gate. Sluices repaired. One hundred cubic yards of stone placed on embankments, and general repairs to station.

GENERAL.

The usual spring repairs consisting of pointing and grouting the lockwalls, painting gates, etc., etc., were made by the lockmasters and locklabourers. The contract for supplying the 5,000 cubic feet of white oak dimension timber has again been awarded to Mr. H. Harris, of Ottawa, Two hundred and seven barrels of Portland cement were purchased from Mr. McRae, of Ottawa, and about one hundred barrels of Hull cement from Messrs. C. B. Wright & Sons, of Hull, Que.

DREDGING PLANT.

The Dredge "Rideau" when fitting out this spring was caulked all over her hull. New braces fitted on crane, and a new set of tubes for her boiler. A set of anchors of 12in. × 14in × 25ft. white oak were placed in position and anew dipper handle framed. The tug "Shanly" did not require any but the usual spring repairs, painting, etc. She is however too heavy, in the water, and towards the end of the season is unable to go through the canal on account of her heavy draught and the lowness of the various levels. She requires to be lengthened about 15 or 20 feet, and her boiler shifted further forward, which would have the effect of lightening her draught about nine inches, and enable her to go anywhere without trouble. The dredge was employed the whole of last season deepening Newboro' Cut and the entrance to the lake. The entire dredging plant, consisting of dredge, tug, four side pocket and one flat scow, are in good working order.

I append hereto a table showing the highest and lowest water during each month of the year, at Ottawa and Kingston Mills lock stations.

I have the honour to be, sir, Your obedient servant,

ARTHUR T. PHILLIPS,

Acting Superintending Engineer.

Collingwood Schreiber, Esq., C.M.G., Chief Engineer of Railways and Canals.

RIDEAU CANAL.

Table showing monthly the Highest and Lowest Water on the Lower Sills of the Locks at Ottawa and Kingston Mills respectively, from July 1st, 1895, to June 30th, 1896.

·		От	TAWA.				Kn	NGST(ON MILLS.		
Highe	st.		Lowest	·.		Highes	st.		Lowes	it.	
July 1 August 27 Sept. 1 Oct. 11 and 15. Nov. 26 and 27. Dec. 31 Jan. 3 Feb. 1 Mar. 26 and 27 Apl. 24 and 25 May 1	9 7 8 13 15 10	in. 2 5 0 3 0 6 2 10 8 4 2	July 31. Aug. 3. Sept. 28 and 29 Oct. 30 and 31 Nov. 6 and 7. Dec. 18 to 20. Jan. 31. Feb. 29. Mar. 5 to 8. Apl. 1 to 7. May 31.	Ft. 8 8 7 6 6 7 11 9 9 9 15	in. 8 5 0 4 1 8 0 0 6 6	July 1 to 3 Aug. 1 to 14 Sept. 1 to 4 Oct. 1 to 4 Nov. 1 to 11. Dec. 24 to 31 Jan. 1 to 6 Feb. 1 Mar. 1 tc 5 Apl. 19 to 30 May 30 and 31	Ft. 6 6 6 6 5 6 6 5 7 7 7 7	in. 9 5 4 1 7 0 10 2 3 10	July 20 to 31. Aug. 15 to 31. Sept. 15 to 30. Oct. 31. Nov. 27 to 30. Dec. 1 to 8. Jan. 20 to 31. Feb. 29. Mui. 12 to 31. Apl. 1 to 11. May 1	Ft. 6 6 6 5 5 5 7 7 7 7 7 7 7	in. 5 4 1 7 9 9 10 2 0 1 3

ARTHUR T. PHILLIPS,
Acting Superintending Engineer.

RIDEAU CANAL OFFICE, OTTAWA, July 2nd, 1896.

ST. LAWRENCE DISTRICT.

SUPERINTENDING ENGINEER'S OFFICE, CORNWALL, 1st July, 1896.

SIR,—I beg to submit the following report for the fiscal year ending 30th June, 1896, upon construction as connected with the enlargement of the canals in my charge.

CORNWALL CANAL.

(Opened for traffic 1843.)

The canal has a total lockage of 48 feet and surmounts the Long Sault Rapids. It extends from the town of Cornwall westwards to the village of Dickinson's Landing, a distance of 11½ miles.

It is located on the north side of the St. Lawrence, on ground sloping rapidly

towards the river and at a considerable elevation above it.

The works of enlargement now under construction consist in deepening, widening and straightening the original channel, in strengthening and protecting the embankments and in the construction of new and enlarged locks, supply weirs, bridges, &c., &c. Also in addition to the above and not included in the original contract, the construction of dams across the north or Sheik's Island channel, with the necessary regulating weir, &c., on the island, designed to perfect the channel and do away with the existing sinuous and imperfectly constructed embankments west of the village of Mille Roches.

As no change or improvement in the original alignment was contemplated or provided for in the scheme for enlargement, attention was directed to the fact that the class of vessels for which the enlarged canal is designed, would have great difficulty in navigating it, and that on certain curves on Sections Nos. 6 and 7, west of Mille Roches, it would be practically impossible for vessels of full canal size to pass each other when under headway.

The enlargement at the lower or eastern entrance (Section No. 1) was commenced in 1876, and with the exception of some work on old lock No. 17, and the weir and head-race to the mills, was completed in 1882.

Section No. 10, upper entrance, which was commenced in 1884, was completed in 1895.

In 1888, the remainder of the work required to complete the enlargement was

placed under contract, and except Sections Nos. 6 and 7 is still in progress.

And in 1893 the contract for Section No. 4, was extended to include the construction of the Sheik's Island Dams, which are now nearing completion, and the contract for Sections Nos. 6 and 7 and parts of Sections Nos. 5 and 8 affected by their construction, cancelled.

STATEMENT of work under existing contracts and in progress.

Locality.	Section.	Contractors.	Date of Contract.
Cornwall. Lock No. 19. Maple Grove. Sheik's Island Dams Mille Roches. Moulinette Sand Bridge. Long Sault. Dickinson's Landing.	3 4 5 6 7 8	Wm. Davis & Sons. do do do do do do The Gilbert Blasting and Dredging Co. do do do do do do do do Jocks, Delorimier & Broder	do do do do do do June 19th, 1893. November 2nd, 1888. do do do do do do do do do do do do do d

Note.—Section No. 2 includes the completion of Section No. 1. Section No. 4 includes the Sheik's Island dams. Section No. 8 adjoins section No. 10.

The water was drawn off the canal by the 15th March, 1896, and so continued until the 30th April following; this enabled the contractors to proceed with work which could not be carried on during navigation.

The stone delivered during the year was procured from the quarries at Cornwall,

Maple Grove and Mille Roches.

Masonry, which was continued throughout the season of 1895, until stopped by frost in November, was recommenced in March, 1896, and has been continued without interruption.

SUMMARY OF YEAR'S WORK.

Section No. 2.

In the summer of 1895 a dam was built above old lock No. 18, the coping and top courses of masonry removed, rebuilt and raised two feet to conform to the new levels, the lock walls were also generally repaired.

While the water was out of the canal in the spring of 1896, the old platforms were taken out of the upper and lower recesses of old lock No. 18 and rebuilt. The mitre

sills were also renewed.

Considerable stone protection to the inside slopes of the banks has been placed during the year and part of the banks have been raised and trimmed.

A small wharf has been built in front of the canal workshops, and the yard raised

and levelled.

Work on the pitched stone facing on the outer or river slope of the bank west of lock No. 18 has been carried on continuously and is now nearing completion.

The excavation in the prism below lock No. 18 is now practically completed, but above the lock there remains considerable cleaning up to do.

Section No. 3.

The excavation above and below the new weir at lock No. 19 have been completed and the structure brought into use.

A dam has been built across the head of old lock No. 19, and the coping and portions of the old masonry, where considered necessary, have been removed and are being rebuilt.

While the canal was unwatered in the spring the lower recess of the old lock No. 19 was cleaned out and the platforms renewed.

New mitre sills will be put in next season, and the upper mitre sill platforms

renewed

The cribs at the head and foot of the lock have been built to water line and ballasted, but are not yet completed.

The stone protection to the inside slopes of the banks is being proceeded with and

the banks trimmed and raised.

The excavation on this section is nearly completed.

Section No. 4.

The glance cribs at the foot of the old and new lock No. 20 have been completed

and the ground around and between the locks is being cleared up and levelled.

In the spring of 1896, whilst the water was out of the canal, the arch of the old culvert at Robertson's was taken down to the level of the new bottom, and the remains of the north bank removed, thus completing the channel between locks Nos. 19 and 20 to full depth.

The level below lock No. 20 can now be temporarily lowered about 3 feet and permit the stone protection to the inside slopes of the banks to be proceeded with.

Section No. 5.

While the water was out of the canal in the spring of 1896, a large number of boulders in the bottom of the canal east of the bridge were drilled and blasted.

Two dredges were working on the section during the season of 1895, and made fair progress towards completion, but have been unable to work on the section this season for the reason that the contractors were obliged to wait for the completion of the Mille Roches bridges before the old culvert could be removed, in the meantime they will be employed on Section No. 8 in cleaning up bottom of canal and finishing the channel to the cutting through the old canal bank in connection with the Sheik's Island channel.

Section No. 8.

Fair progress has been made with excavation on this section which will be completed this season.

Section No. 10.

The final estimate for this work has been completed and forwarded to the department.

Upper Entrance Pier.

The renewal of the superstructure of the entrance pier, the contract for which was let on the 26th October, 1895, to Messrs. Wm. Davis & Sons, has been completed in a must durable and substantial manner.

Sheik's Island Dams.

The regulating weir at the lower dam commenced in the fall of 1895 was completed while the water was out of the canal in the spring of 1896, and as the dams had been practically completed during the season of 1895, the water was let into the new channel at the opening of navigation on the 1st May, 1896.

The filling was accomplished very gradually, commencing in the fall of 1895, and

subsequently controlled by valves placed in the old culvert at Moulinette.

The entrances to the channel are being dredged out and will be completed in a few weeks, when the new channel will be brought into use.

Mille Roches Bridge.

This bridge takes the place of the culverts or tunnels at Mille Roches and Moulinette and affords access to Sheik's Island and the old village of Mille Roches from the mainland. Preparations for building were begun in the fall of 1895 and resumed on the 15th March last, when the canal was unwatered, the masonry of the piers and abutments was commenced on the 30th March and completed by the 1st of May ready for the superstructure, the contract for which was awarded to the Dominion Bridge Co., and will, it is stated, be finished by the 15th July, 1896.

WILLIAMSBURG CANALS.

FARRAN'S POINT.

(Opened for traffic 1847.)

This canal is about \(\frac{3}{4} \) of a mile in length and has a lockage of $3\frac{1}{4}$ feet.

It overcomes a short, swift rapid above the village of Farran's Point, which is situated about 5 miles west of the village of Dickinson's Landing, the head of the Cornwall Canal.

A contract to restore the prism of this canal to its original dimensions, viz.: width 50 feet on bottom and 10 feet in depth, has been taken by the Gilbert Blasting and Dredging Co., the work is in progress and will shortly be completed.

RAPIDE PLAT CANAL.

(Opened for traffic 1847.)

The lockage on this canal is 111 feet.

It surmounts the rapid of "Rapide Plat" and extends from the village of Morrisburg west to Flagg's Bay, about 3_4^* miles.

The works now under contract and in progress are as follows:-

No.			
Location.	Section.	Contracts.	Date of Contract.
Morrisburg Mariatown New Road	1 2 1	Poupore & Fraser	January 26th, 1891. January 12th, 1891. January 26th, 1891.

NOTE: -- The change in alignment, east of lock No. 24, formerly Section No. 4, is included in Section No. 3.

The enlargement was commenced in 1884, on Section No. 4, the upper or western

entrance, and completed and brought into use in 1888.

The work of enlargement now in progress consists of the deepening and widening of the old channel and in constructing a new and enlarged lock, supply weir, and entrance pier at the village of Morrisburg.

Section No. 1.

This section extends west along the river front of the village of Morrisburg and includes the lift lock.

Since the work was commenced a change in the proposed alignment of the lower end of this section was made, by placing the centre line of the new lock parallel to that of the old lock No. 23, thereby improving the direction of the river entrance and enabling upward bound vessels to avoid the strong current.

The lock foundation of concrete and timber was begun in April, 1895.

Masonry, which was commenced in May and carried on with the foundation of the lock, &c., was completed in August in 1895, and the masonry of the lock walls in November following.

The masonry of the north retaining wall was completed in October, 1895, and a strong

iron railing erected near the east end between Augusta and Stafford streets.

The masonry for the south retaining wall was commenced in May, 1896, and is still in progress.

The pumps in lock-pit ceased working on the 19th June and were then removed.

Dredging at the lower entrance was resumed in May, 1896.

The cribwork for entrance pier was begun in June and is now in progress.

The stone for the lock masonry was obtained from the Mille Roches quarry, Cornwall Canal, and that for the retaining and extension walls from Wolfe Island and Belleville.

The lock gates are now completed and will be placed in position in a few days.

Dredging operations to the lower entrance to the new lock were resumed on the 13th May, 1896, and are now in progress.

The cribwork for the pier at the lower entrance of the new lock was commenced

on the 8th June, 1896, and is still in progress.

In view of the prospects of again having low water during the present season, every effort is being made to secure the completion of the new lock, the extension walls, and a sufficient portion of the south retaining wall, to enable a channel to be opened at the upper entrance of the lock to connect with the old canal, the dredging

of which, to new bottom, for a limited width, was commenced early in April and completed before the opening of navigation.

The coffer dam at the east end of the lock-pit has been removed and as soon as the gates are erected, the new lock will be available for the purposes of navigation.

Section No. 2.

This section begins at the west end of the village of Morrisburg and extends westwards to near Mariatown.

The work on this section consists chiefly of excavation, i.e. dredging and dry work.

The dredging operations were completed on the 10th July, 1895. The material dredged was utilized in widening and strengthening the tow-paths and embankments.

The levelling of the surface, and repairing of the slopes of the towing path, was completed on the 30th of July, 1895, which also completed the entire work on this section.

The final estimate of the work on this section has been prepared and forwarded to the department.

Section No. 3.

This section commences a short distance above Mariatown and extends west to the vicinity of the guard lock (No. 24).

The dredging operations were carried on to the 3rd December, 1895, resumed again on the 28th April, 1896, and are now in progress.

On the 28th November, 1895, the upper works and machinery of the large dredge "Sir Hector" were burnt and had to be almost rebuilt during the winter of 1895-96, she resumed worked on Section No. 1 on the 16th April, 1896.

About the middle of November, 1895, the deepened channel was available throughout this section.

The dredged material is being utilized in widening and strengthening the towing

path.

Upon the formation of the north slope above water, or dry work, a force of labour-

ers, teams, ploughs and scrapers were engaged up to the 8th October, 1895.

The stone protection to the north bank was commenced on the 14th August, 1895,

and continued as the excavation progressed until the 4th November.

During the month of March, 1896, a cross dam of cribwork was formed at the lower end of the section, and the canal unwatered for the purpose of blasting hard points and large boulders which the dredges were unable to remove.

Section No. 4.

The work on this section was finished in 1888, and at once brought into use.

It comprises the new guard lock (No. 24) and supply weir, and the formation of the upper entrance to the canal, and also of the prism for a short distance below the lock.

Since its completion it has been found necessary to change the alignment at the lower end of this section, in order to connect with Section No. 3.

GALOPS CANAL.

Point Iroquois Division.

(Opened for traffic 1847.)

This canal as originally constructed was about three miles in length, with a lockage of 5 feet 7 inches at lock No. 25, in the village of Iroquois, from whence it extends westwards to Presqu'ile, overcoming the Point Iroquois rapid and other stretches of swift water, as at Sparrow-Hawk Point, &c.

About ten years after the completion of these works some important changes were made, viz.: the lower mitre sill of lock No. 25 was lowered 3 feet 2 inches, and means afforded of regulating the depth of water on the upper sill, and consequently in the canal, by forming an embankment in the river to connect with the Galops Canal at Point Cardinal (lock No. 26.)

There are at present no works of construction on this division on which to report, but early in May, 1896, the surveys, plans, &c., for the enlargement of this division

were sufficiently advanced to authorize the calling for tenders, accordingly notices for that purpose, and for the postponements, were given on the 9th and 22nd of May and 22nd of June, respectively, and finally on the 26th June a notice withdrawing the work

was issued by the department.

JUNCTION DIVISION.

(Opened for traffic 1856.)

The Junction Division commences at Presqu'ile and extends up stream to lock No. 26. at the village of Cardinal.

It consists chiefly of an embankment about 21 miles in length, formed in the river and connects the Galops and Point Iroquois Divisions, and thereby, as previously stated, raises the water and affords a means of controlling the level in the Iroquois Division.

The fall in the river between the above mentioned canals is one foot seven and a

half inches.

Work on the junction was completed in 1856.

There are no works of construction on this division whereon to report.

GALOPS DIVISION.

(Opened for traffic 1846.)

This, the original Galops Canal, had a lockage of 6 feet 8 inches, and extended upwards from the village of Cardinal about 2 miles to the head of the Galops Rapid, which it was designed to overcome, and which commences about 7 miles east of the town of Prescott.

Some years after the completion of the canal the pier head was extended up stream by cribwork and the lockage or fall increased 111 inches.

The new Galops locks (No. 27, guard lock, and No. 28, lift lock,) are situated side by side and are the most westerly on the St. Lawrence.

Upper Entrance.—The works now under contract and in progress and for which Messrs. Murray & Cleveland are the contractors, were commenced in 1889. tract was entered into on the 14th November, 1888, to be completed on the 15th June, 1891.

It embraces the construction of a lift lock connecting with the river below the rapid and of a guard lock and supply weir and the removal of the old guard lock, &c., also the deepening, widening and straightening of the channel from the upper entrance to Round Bay, a distance of about one mile.

The new supply weir, retaining walls, &c., connecting with the guard lock, were com-

pleted in the fall of 1895 and brought into use.

Drilling, blasting and dredging operations have been carried on continuously at the upper or western end of the section, also the deepening and widening of the lower entrance to the guard and lift locks, and the coffer dams removed.

The dredging at the lift lock (No. 28) is about completed and the cribs whereon to

extend the south entrance wall are being framed.

A line of detached cribs from head of guard lock across Round Bay has been sunk

and the superstructure is commenced.

From McLaughlin's Point to the head of the canal, the channel has been straightened by a line of cribwork protected by a talus of rock on both sides, the old cribwork extension from the pier head has also been protected in like manner and a heavy wall of dressed stone forming the superstructure of the inner or canal side of the pier, has been built.

A further extension of this pier is required to complete the upper entrance, the framing of the cribs for which purpose is now in progress.

This extension, about 300 feet, it is calculated will raise the water on the sill of the

old guard lock from five to seven inches.

Work on the south half of the channel abreast of the old guard lock has been commenced, and will be carried on as rapidly as possible with a view to utilizing it in the fall during the anticipated low water.

The work on this section is generally well advanced, mooring posts have been placed, and banks trimmed and protected to final lines and levels which gives the work

an appearance of completion.

There remains, however, a considerable quantity of earth and rock to be dredged as

well as the removal of the old guard lock.

During the summer and autumn of 1895, the water in the river was at an unusually low stage and the old channel in the Galops Rapid became dangerous for loaded barges. To facilitate the passage of these vessels the mitre sills of the old guard lock were torn up and the coffer dam at the lower entrance of the lift lock was removed, thus enabling these vessels to pass down the canal to the lift lock and out to the river at the foot of the rapids, a great advantage to navigation.

ST. LAWRENCE RIVER AND CANALS.

Since my last report, surveys have been made for the enlargement of the Point Iroquois Division of the Galops Canal, and further surveys are in progress on the Junction and Galops Divisions, with a view to completing the enlargement of the "Galops Canal."

A minute survey of the south or "Flat Rock" channel, for comparison with the north or Canadian channel, has also been made with this result, the accuracy of my previous surveys is confirmed.

In connection with the location survey of the Point Iroquois Division and its proposed extension westwards, exhaustive surveys have been made at Presqu'ile and Cardinal, the governing points.

An examination of some of the principal shoals in the Morrisburg reach has also

been made during the low stage of the river.

I have the honour to be, sir,

Your obedient servant,

TOM S. RUBIDGE, Superintending Engineer.

COLLINGWOOD SCHREIBER, Esq., C.M.G., Chief Engineer of Canals, Ottawa.

ST. LAWRENCE DISTRICT.

SUPERINTENDING ENGINEER'S OFFICE,

CORNWALL, 1st July, 1896.

 Sir ,—I have the honour to submit my annual report for the fiscal year ending 30th June, 1896, on the maintenance of the canals in the district under my charge, extending from the province line, Lake St. Francis, to Brighton and Presqu'ile harbour on Lake Ontario, viz.: The Cornwall Canal, the Williamsburg Canals, and the Murray Canal, including also the intermediate river reaches and the buoy service connected with the navigable channel below Prescott.

The following is a general description of the work as originally constructed, in

ascending order, commencing at the town of Cornwall.

Cornwall Canal, completed in 1843, surmounts the Long Sault Rapids, it extends from Cornwall to Dickinson's Landing—111 miles, and has a total lockage of 48 feet.

The Farran's Point Reach is $4\frac{2}{3}$ miles in length, and the fall 1.58 feet.

Farran's Point Canal, completed in 1847, overcomes a short rapid extending 3 of a mile west of Farran's Point-lockage 3½ feet.

The Morrisburg reach is 10½ miles in length. Fall 8.75 feet.

Rapide Plat Canal, completed in 1847, commences at Morrisburg and extends to Flag's Bay, 33 miles, overcoming the rapid of Rapide Plat. Lockage 111 feet.

The Iroquois reach is 4 miles in length and has a fall of 3.83 feet.

Point Iroquois Canal, completed in 1847, commences at Iroquois and extends to Presqu'ile, 3 miles, overcoming the Iroquois Rapid and other stretches of swift water above the point. Lockage 5½ feet.

The Junction, completed in 1856, commences at Presqu'ile and extends to Cardinal, 21 miles, it is simply an embankment connecting the Point Iroquois and Galops Canals.

Fall 1.60 feet.

Galops Canal, completed in 1846, commences at Cardinal and extends 21 miles to the head of the Galops Rapid, which it was designed to overcome. Lockage 73 feet.

New Channel Galops Rapid, completed in 1888, extends down stream 3,300 feet from the head of the Galops Canal, the fall varies from 31/2 to 6 feet, depending on the stage of the river.

Murray Canal, completed in 1890, is situated about 75 miles west of Kingston and consists in a canal or artificial strait about 6 miles in length connecting the Upper St.

Lawrence and Bay of Quinté waters with Lake Ontario.

Note.—The Williamsburg Canals embrace the Farran's Point, Rapide Plat, Point Iroquois, Junction and Galops Canals, and the new channel in Galops Rapid. The Point Iroquois, Junction and Galops Canals are collectively styled the Galops Canal.

CORNWALL CANAL.

The navigation for the season of 1895 was closed on the 7th December. The canal which was unwatered on the 15th March, 1896, for construction purposes and also

ordinary spring repairs was open for traffic on the 30th April following.

Owing to the extraordinary low stage of the water in the river during September and October, 1895, it was found necessary to occasionally cut off the water supply to the mills and on the 1st November the water supply for manufacturing purposes was entirely withdrawn until the close of navigation, except for the grist mills which were allowed to run after the 10th November.

A serious break occurred on the 26th July, 1895, the barge "Kildonan" when in lock No. 17, broke her mooring lines whilst water was being let into the chamber of

the lock, and all four gates were carried out, three gates of lock No. 15 were also damaged and navigation was suspended from 4 o'clock a.m. on the 26th until 2 o'clock p.m. on the 31st July.

The pontoon gate lifter "John Page," which was in the basin below Lock No. 17 was carried over the upper gates of lock No. 15 into the river by the rush of water from

the level above, and totally wrecked.

A contract has been entered into with Messrs. J. & R. Miller of Cardinal, for the construction of a new gate lifter. This is now ready for use and will be delivered after

testing it at Morrisburg in hanging the gates of new lock No. 23.

On 25th November, 1895, the anchor bolt of south lower gates of new entrance lock No. 15 was broken by an upward bound vessel drifting against it, navigation was not stopped however, but carried on through the old locks, which had fortunately been put in working order after completing the repairs to foundations.

On 28th November, 1895, water was let out of level between locks Nos. 20 and 21 for 48 hours to enable a dredge, which was sunk in the canal near Mille Roches culvert,

to be raised, no delay was occasioned to navigation.

On 29th June, 1896, the barge "Bismark," grain laden, struck the retaining wall below lock No. 21, and sunk opposite the upper entrance to Sheik's Island Channel, interfering with navigation for a few days.

With these exceptions navigation was maintained in a fairly satisfactory manner, the draught of vessels, however, during the lowest water being restricted to eight feet.

The recess platforms and mitre sills of old locks Nos. 15, 16 and 17 underwent a thorough repair or renewal during the season of 1895, the gates were also put in working order and the whole work completed in time to be used before the close of navigation in case of accidents occurring at the new entrance, such as actually happened in November last.

Repairs or renewals to the masonry of the lock walls have been authorized to be

commenced immediately and will probably be completed this season.

Three pairs of gates for the old locks Nos. 15, 16 and 17 received extensive repairs; and new foot bridges and top bars were provided. The locks were thus made ready and brought into use in October, 1895.

A new watch house has been built at lock No. 19. It is intended to build others

of a similar class at all locks and bridges.

The usual works of renewals and repairs at the shops were carried on during the

Whilst the canal was unwatered from 15th March to 30th April, 1896, repairs were made to valves of old lock No. 16, two new valves were put in lower south gate of old lock No. 17, and repairs made to valve gear.

A large quantity of stone was also placed below aprons of weirs at locks Nos. 18 and 20, to repair and prevent further damage by scouring the bottom; all locks, weirs,

etc., etc., were also overhauled.

Extensive repairs and renewals not provided for in the estimates are required at the following works, viz.:—

The ice breaker at the foot of the canal.

Bearings for pivots for all gates; new locks Nos. 15 and 17. This will necessitate the unwatering of the locks.

The collector's office and lock houses in connection with lower entrance require

extensive repairs.

The question of building houses for lock and bridge tenders at all new structures is submitted for your consideration, as also that of waste weirs for the intermediate levels between locks Nos. 18 and 20.

There have been no superannuations during the past year.

The locks at the lower entrance were dismantled and otherwise prepared for winter. During the season of navigation the banks, culverts and ditches were kept in repair, also lockhouses and watch houses.

The highest water recorded during the year at lock No. 15 lower entrance, was 24

feet in January, 1896, and the lowest 9 feet 41 inches in May, 1895.

At lock No. 21 (the guard lock) the highest water was 10 feet 10 inches in January, 1896, and the lowest 6 feet 1 inch in December, 1895.

The highest water during the season of navigation at lock No. 21 was 9 feet 11

inches, and the lowest 7 feet 4 inches.

The above levels are with reference to the mitre sill of old locks.

The following fines were imposed during the year for causes mentioned:-

On 21st December, 1895—Barge "Riley," for damaging lock No. 18, fined \$5 by order of superintendent.

On 26th September, 1895—Barge "Jean," for damaging lock No. 17, fined \$5 by

order of superintendent.

On 14th October, 1895—Barge "Eagle" for damaging lock No. 20, fined \$10 by order of superintendent.

On 1st November, 1895—Tug "Bronson," for refusing to obey orders in level

between locks Nos. 20 and 21, fined \$5 by order of superintending engineer.

The barges "Adele" and "Laura" were charged \$4 each for wintering in canal above lock No. 17.

WILLIAMSBURG CANALS.

The several divisions of these canals, viz., Farran's Point, Rapide Plat and Galops, were closed for navigation on the 10th December, 1895, and re-opened for the season of 1896 on the 1st May, 1896.

Only one accident occurred during the year on these canals, viz.:—On the 13th June, 1896, the steamer "Spartan" collided with the lower gate of lock No. 23, Mor-

risburg, delaying navigation 36 hours.

The unusual lowness of the water during the season of 1895 caused considerable inconvenience to navigation, particularly at lock No. 23 of the Rapide Plat Canal. Upward bound vessels, if loaded, were compelled to resort to towage past the rapid.

The work of the repairs staff has been general, on banks and all structures.

At the repairs shop at Cardinal a pair of old gates from lock No. 27 were overhauled and rebuilt, to replace the upper gates at lock No. 26, Iroquois, these are now ready to be placed in position.

A change in the buoy service between Prescott and Dickinson's Landing was inaugurated last fall, viz., that of taking up the buoys at the close of navigation and

replacing them in the spring by a spare lot provided for the purpose.

FARRAN'S POINT CANAL.

Lock No. 22. A pair of new gates, built under contract by Messrs. J. & R. Miller were placed in this lock at lower entrance, in August, 1895, and some minor repairs to lock made.

A contract for renewing the superstructure of the lower entrance pier was made

with the Kerr Brothers, and the work has since been completed.

Owing to the prevailing low water in the river, a contract was entered into with the Gilbert Blasting and Dredging Co. for the cleaning out of the prism of this canal to its original depth; this work will be proceeded with at once.

RAPIDE PLAT CANAL.

Lock No. 23. Beyond the frequent cleaning out of the upper recess of this lock only minor repairs were required.

Lock No. 24. Some minor repairs were made to the weir and booms at head of lock.

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GALOPS CANAL.

Lock No. 25. The old swing bridge across the lock on examination was found to be very rotten in many places and was rebuilt in February and March, 1896.

Extensive repairs were made to the wharf below the lower entrance pier.

The booms on the Point Iroquois section were temporarily repaired, extensive renewals are required.

Lock No. 26. This lock had frequently to be cleaned out, and several minor repairs were made to the gates.

The use of the swing bridge at this lock has been discontinued as it is unsafe, and

will require to be rebuilt.

A contract for renewing the superstructure of the lower entrance piers was made with the Cardinal Manufacturing Co., and the work has since been completed.

Lock No. 27. The old guard lock No. 27 was abandoned about the end of Septemoer, 1895, and the new one brought into use, and in October following, the mitre hills were removed, thereby increasing the depth of water one foot.

The new lift lock at the Galops Rapids was also brought into use in October, 1895, for heavily laden vessels descending the river, and has proved of great advantage to

navigation.

A new watch house has been built between the locks for the accommodation of the locktenders.

The gates from old lock No. 27 have been removed and taken to the work shop at Cardinal.

The river buoys between Dickinson's Landing and Prescott were lifted in the fall of 1895, repaired, painted and replaced in the river at the proper points before the opening of navigation in the spring.

Extensive repairs were made to the buoy boat during the winter.

Many minor temporary repairs have been made on the works where needed and at the shops at Cardinal.

The banks have been carefully watched and repaired where required.

Fines have been imposed during the year as under:—

1895Sept. 4thSteamer "Melbourne"	\$ 5	00
1895 " Tug " Nellie Reid "	5	00
1896June 13thSteamer "Spartan"	40	00

The lowest water on the sill of lock No. 23, the governing point on these canals, was 4 feet in December, 1895, and the highest 9 feet 8 inches also in December, 1895.

The lowest water on the sill of lock No. 27, was 6 feet 5 inches in December, 1895, and the highest 11 feet 6 inches, also in December, 1895.

MURRAY CANAL.

This canal was closed for navigation on 4th December, 1895, and opened again on 17th April, 1896, and has since been maintained without interruption.

No accidents have occurred and no fines have been imposed during the year.

The number of vessels that passed through the canal for the year 1895-96 was 603. The bridge structures have been thoroughly overhauled and repaired and machinery cleaned, tightened, &c. All the bridges require painting.

Cedar mooring posts were put in at the railway and highway bridges and elsewhere

as required.

At the Trenton and railway bridges considerable scour occurred during the low water, which caused a slight settlement in the foundations of their respective western rest piers. The damage was thoroughly repaired last fall and the bottom of the canal is now being protected with stone to prevent its recurrence.

Extensive repairs have been made to the rip-rap on north side of canal, from Trenton Road bridge to the east entrance pier, also west from the Brighton road Bridge.

Generally the banks have been kept in good condition and the ditches kept open.

Sheds were built at the collector's office and a small shelter at the Smithfield Road bridge; these have been painted, as also the storehouse at the Brighton Road bridge.

A wharf or landing stage is required at the collector's office near the Smithfield Road.

New and more powerful range lights are required at each end of canal to indicate the dredged channel.

Generally this canal is in a good state of repair.

The highest water recorded during the year was 12 feet 10 inches, and the lowest 10 feet 4 inches.

I append a statement showing the highest and lowest water during the past year on each of the canals in my district, also a condensed statement of the highest and lowest water during the season of navigation from the year 1891 to 1895, both inclusive.

I have the honour to be, sir,

Your obedient servant,

TOM S. RUBIDGE,

Superintending Engineer.

Collingwood Schreiber, Esq., C.M.G., Chief Engineer of Canals, Ottawa, Ont.

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ġ. STATEMENT of the highest and lowest water on the Canals in the St. Lawrence District, May to November in each year-Continued. Ę. **####** Ęţ Lowest. Lowest. Nov... May.... Nov. Nov do do do do do do Month. Month. STATEMENT of the highest and lowest water on the Canals in the St. Lawrence District, May to November in each year. Lake Ontario. Murray Canal. Lock No. 23. 'n. Highest. Highest. Williamsburg Canals. May.... July.... May.... : $J_{
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WELLAND CANAL.

St. Catharines, Ont., 3rd Sept., 1896.

Sir,—I beg to submit my annual report upon the Welland Canal and its branches for the fiscal year ended 30th June, 1896.

The new canal was closed December 12th, 1895.
" opened April 28th, 1896.

The old canal was closed December 14th, 1895.
" opened April 27th, 1896.

The following repairs and renewals were carried out during the year.

Division No. 1.

Port Dalhousie to Guard Lock.

Port Dalhousie Harbour.—New steps and platform were put in at the ferry landing, to suit the low level of the water in Lake Ontario. The cribwork on which the entrance wing walls of old lock No. 1 were built, being exposed owing to the low level of the lake, was found to require a good deal of repair as also the lower courses of masonry resting on them. These repairs were carried out.

The end of the east cribbing at the foot of old lock No. 1, was damaged and in a decayed condition, and was rebuilt.

Repair Shops, Port Dalhousie.—Gate of lock No. 22, was hauled out on the skids, overhauled and put in complete repair. The scow "Sir Charles" was hauled out on the skids, and almost entirely rebuilt, and painted. Four new swing bridge notice boards and braces, made and put up. The timber lifting scow was hauled out and thoroughly repaired, painted and caulked. Ten small tables made and put in the lock watch houses, and at swing bridges. The spare gates of new lock No. 1, were hauled out, thoroughly overhauled and put in order. The spare gate from lock No. 3 hauled out and broken through-rod and shunt plate, repaired, relaunched and put in at foot of lock. The two foot gates of lock No. 3 were hauled out on skids, taken apart, squared, dowelled and in all respects put in good order. The hydraulic jacks were all taken apart, cleaned and the packing removed and all put in working order. New ladders were made for the locks and bridges wherever required. The large capstans in the gate yard for hauling out gates, etc., were taken apart, repaired and put in safe condition. The floor of the spillway bridge alongside gate yard repaired, also the winter float bridge across the harbour. The material was got out for and the large number of pins required made from it for the new pile work capping between locks Nos. 1 and 2. All injured and damaged tackle blocks repaired. Two dozen pick handles made. Two one-horse cart dump boxes made to replace old ones, all saws and tools sharpened and put in order. Repaired pier at the foot of lock No. 1 and painted large shop and the tank and its platform.

Lock No. 1 Level and Bridge.—Two hundred and thirty-eight piles were cut off below water line and spliced, along the floating tow-path, and a large oak waling bolted to the piles, the lighter waling taken off and used for capping the piles. The cribwork at the head of the lock on west side was taken down and replaced by new, above low-water line, the stone filling put back again and new snubbing posts put in. Two new cables put in gates; repaired cone rollers and frames, hub gearing and water-wheels. Three new bolts and brass matrix and washers. Three long cables numerous cold shuts, 90 feet $\frac{5}{5}$ -in. chain. Diver removed obstructions at different times. Removed, repaired and replaced shear legs in chain wells. Changed vessel measuring gauge from foot to head of lock. Unshipped foot chains seventeen times when lake was very low, cut them eight times and used 9 feet of $\frac{5}{5}$ -in. chain. Cleaned out the mud pocket with hand dredge and removed a number of large roots and stumps. Adjusted all four gates, put on new water wheel guards. Overhauled twelve valves in large weir and put on vertical track for rollers.

Lock No. 2 and Level.—Repaired fenders. 1 new long cable, 2 clutch studs and clutch, 4 snubbing posts, 5 brass washers, 1 new hub wheel, 2 brass matrices. Diver removed obstructions from sill. 2 intermediate gears, 1 phosphor bronze pinion, 1 slide valve, overhauled 8 wheel shaft gearings and boxings. Took out old safety cable and substituted 13 in. iron rod. Took off and replaced old walings, nosings, etc. Made numerous repairs to all machinery, gearing and woodwork.

Lock No. 3 Level and Bridge No. 2.—Overhauled and put in order 6 sets of gearing on head gates, put in 1 set new studs, new waling and raised gate bridge; 1 new cable, adjusted all 4 gates, put in 1 large and 4 smaller snubbing posts. Overhauled all the waste weir gearing. Took out both foot gates and replaced them with others, put in new gate bridge and all connected machinery and gearing. Laid new stringers and bridge floor throughout, 1 new pinion, 1 brass matrix and washer. Made the usual extensive repairs to machinery, gearing and woodwork.

Lock No. 4 and Level.—Adjusted all 4 lock gates and overhauled the gearing, put in 3 snubbing posts, 2 brass matrices. Made the usual repairs to machinery, gearing and woodwork.

Bridge No. 3.—The floor plank and stringers on bridge and approaches were stripped and replaced with new. The locking gear was repaired and truss rods tightened up. The floats were repaired from time to time and new iron work attached where necessary.

Bridge No. 4.—The floats have been repaired and kept in good order, all stirrup straps, braces, trusses, etc., have been tightened up, new locking posts were supplied, put in place and the locks, catches, etc., kept in proper order, the fenders have been repaired as needed.

Lock No. 5 and Level.—Three cables, 1 new water wheel, 12 boxings, 1 new hub gear shaft, 1 cone roller frame and 3 rollers, 2 slide valves, took down waste weir bridge and put up new, 2 brass matrices and 2 washers, kept water wheels clear of ice, 1 phosphor bronze pinion, 1 new large snub and braces put in, constant repairs were made upon all iron work, gearing and woodwork.

Lock No. 6 and Level and Bridge No. 5.—12 new wooden boxings, 2 new cables, took down old and put up new waste weir bridge, took up old bridge planking and stringers, and put down new, took down old bridge across raceway, put in new stringers and plank and repaired hand-railing, 2 brass matrices and washers, 1 water wheel case, constant repairs were made on all ironwork, gearing and woodwork.

Lock No. 7 and Level.—Twenty-six new wooden boxings, 1 new cable, 3 new gear shafts, took down old and put up new bridge over waste weir, 1 new slide valve, 5 new snubbing posts, 1 brass matrix, 1 new eyebolt, 2 new water wheels and cases, 2 new intermediate gears, 2 phosphor bronze pinions, 3 brass set screws, 1 new clutch frame and 2 new studs, 1 new adjusting screw.

Bridge No. 6.—Repaired chains, eye bolts and shackles, cams and truss rods, and tightened up bolts, overhauled swinging gear, renewed and repaired walings of approaches, some broken piles spliced.

Lock No. 8 and Level.—1 new cable, 1 brass washer, 2 new bolts through gate bridge, 3 clutch studs, 1 phosphor bronze pinion, 9 wood boxings, took down old and Put up new bridge across waste weir. Diver took toe roller off gate, 2 new water wheels, 6 wood screws. Diver cleaned out gravel from sill and repaired it, 1 new lever and stand.

Lock No. 9 and Level.—Took down old and put up new bridge across waste weir, 2 new studs, 2 water wheels and cases, put steel plate between cannon and turntable. Removed and repaired crab and replaced it, 3 brass matrices and washers, 3 cables, 1 slide valve. Took up 1 large snub and lowered it, put in new and heavier braces and straightened another.

Bridge No. 7.—Walings and floats were repaired. Top chords of bridge were repaired, bolts were tightened up, suspension cables put in order, swinging gear taken off and repaired.

Lock No. 10 and Level.—Two cables, I new jack shaft, 3 brass matrices. Took down old and put up new bridge over waste weir, I clutch stud.

Bridge No. 8.—Repaired floats and walings of approaches, overhauled, tightened up and repaired truss rods. Large stone in approach put back in place and dowelled.

Lock No. 11 and Level.—One new opening crab, 1 phosphor bronze pinion. Took down old and put up new bridge over waste weir, 2 cables, 6 brass set screws, 2 slide valves, straightened up and lowered 5 snubbing posts, 5 wood boxings. Filled large crack in reservoir bank, 1 new pinion.

Lock No. 12 and Level.—One new clutch stud, 2 cables, 1 brass set screw. Took down old and put up new bridge over waste weir, 3 new water-wheels, 1 water-wheel case, 35 boxings, 1 brass matrix, 10 cords of stone used for riprap on banks. Strightened up and lowered 5 snubbing posts. Filled up washout in reservoir bank, 1 new pinion.

Lock No. 13 and Level and Bridge No. 9.—Four cables, 1 new pinion, 2 new clutch studs. Took down old and put up new bridge across waste weir and also one highway bridge across pond outlet, 2 brass matrices and washer, 2 double and 1 single curtain, put heavy plate on lock gate sills and new filling at foot sill, 1 wheel hub, 1 new water wheel. Straightened up and lowered 3 snubbing posts.

Lock No. 14 and Level.—Two cables, 3 new boxings, 4 matrices. Took down old and put up new bridge across waste weir, 2 phosphor bronze pinions. Cleaned out lock bottom. Put heavy plates on lock gate sills, 3 slide valves, 2 valve shutters. Cleaned out mud pocket and repaired mud sill, 1 new lever, 2 single and 2 double cast curtains, 1 crown wheel, 5 cords stone used for riprapping banks, straightened up and lowered 1 snubbing post.

Lock No. 15 and Level.—Put on 1 extension step, 1 water-wheel hub, 1 clutch stud, 2 cables, 2 pinions, 1 matrix. Took down old and put up new bridge over waste weir, 4 boxings, 1 brass set screw.

Lock No. 16 and Level.—Four water wheels, 2 cables, 3 boxings, 1 slide valve. Repaired the riprap round the reservoir banks and along the canal. Took down and put up new bridge over waste weir, 1 cone roller frame and 5 cone rollers.

Lock No. 17 and Level.—Four boxings, 1 matrix, 1 slide valve, 3 cables. Repaired reservoir bank and stopped bad leak, cleaned out 150 feet of ditching, 1 pike pole, 29 cords of stone unloaded along banks for riprapping. Took down old and put up new bridge over waste weir. Filled in washout in banks.

Lock No. 18 and Level.—Three cables, 1 water-wheel, 6 wooden boxings. Cleaned out surface ditches on both sides and opened up trenches for riprapping, 1 clutch stud, 1 clutch shifter. Took down old and put up new bridge across waste weir. Laid up stone riprap, 2 water-wheel cases, 4 cords of stone unloaded on banks, 1 matrix and 2 washers.

Lock No. 19 and Level.—Five matrices, 4 cables, 1 crank for valve, 10 boxings. Filled up large crevise in weir bank, 1 water wheel, cleaned out all surface ditches both sides, 2 brass washers. Took down old and put up new bridge over waste weir, straightened up and lowered 2 snubbing posts.

Lock No. 20 and Level.—Two cables, 2 clutch posts, 1 slide valve. Cleaned out all the ditches for draining off soakage on north side of banks and reservoirs. Took down old and put up new bridge over waste weir, 1 new water wheel, 7 boxings. Repaired broken gate bridge. Laid $2\frac{1}{2}$ cords of stone along canal banks to prevent wash, 1 new brass matrix, 1 new phosphor bronze pinion.

Lock No. 21 and Level.—Removed obstructions between lockgate and sills. Filled large cracks in reservoir banks and opened up ditch at foot of slope. Put in 2 snubbing posts, 2 cables, 2 new intermediate gears, 18 boxings. Cleaned out ditches on north side of banks. Took down old and put up new bridge across waste weir, 1 new waterwheel, 1 slide valve, 3 cords of stone laid as riprapping, 1 cast boxing, 2 new brass matrices and 2 brass washers. Made and put up new lock gate bridge and connected gearing.

Lock No. 22 and Level.—Removed obstructions between lock gate and sill. Put in 1 snubbing post. Repaired floats at head of lock and put in 8 new shackles and 3 eye-bolts, 1 water-wheel, 3 boxings, 2 new slide valves. Took down old and put up new bridge over waste weir, 1 level pinion, 1 new crank, 1 new lever and stand. Straightened and lowered 2 snubbing posts.

Lock No. 23 and Level.—Six new cables, 2 brass matrices, 1 slide valve. Removed obstructions between lock gate and sill. Filled up undermined portion of the wall of ditch alongside canal with Portland cement concrete. Took down old and put up new bridge over waste weir. Repaired slide in slope next canal above lock alongside G. T. Railway branch, 5 cords of stone used for riprapping slopes, 1 new water-wheel and case, 12 boxings.

Lock No. 24 and Level and Bridge.—One new slide rod, 1 phosphor bronze pinion, 9 wood boxings, 1 brass matrix and washer. Removed obstructions between lock gate and sill. Cleaned out ditches and filled up many washouts along level. Repaired fence along east side of canal. Put up new bridge notice board. Stripped old planking and stringers and laid new on east approach to swing bridge, also new railing. Took down old and put up new bridge over waste weir. Put on new lock gate bridge and connected machinery. 2 new cables, 1 new shifter post, 2 slide valves. Put down new 28 feet crossing, 5 new snubbing posts.

Grand Trunk Railway Bridge No. 11.—The floats and walings were kept in good repair. New thrust timbers laid into bank at ends of braces. The bridge was overhauled throughout, bolts, stirrup straps, braces and truss rods all adjusted and new section of top chord put in.

 $\it Lock~No.~25~and~Level.$ —Removed obstruction between lock gates and sills. 2 new cables, 1 brass matrix.

Guard Lock.—2 new cables, & new cold shuts. Constant repairs were made when needed.

Generally.—All the machinery and gearing in connection with the lock gates, weirs, and swing bridges have received all needed repairs and renewals and have been kept in proper adjustment. Numerous obstructions have been removed by the diver from the locks. The binders, walings, protection pieces, foot boards, extension steps of all locks have been renewed and kept in repair. The canal banks throughout have been levelled up and the ditches kept in good order. All thistles and weeds on Government property have been cut and burnt.

No. 2 Division.

Guard Lock to Welland Bridge.

Bridge No. 13.—Repaired and replaced damaged floats that were set adrift by vessel and refastened them. Later took away floats and substituted 12x16 oak wales on centre pier and approaches, and repaired damage to waling by steamer "Frost."

Bridge No. 14.—Screwed up rods and gearing and painted the bridge and approaches two coats. Repaired the broken chords of the bridge and approach with straps and bolts. Repaired bridge rests and catches.

Bridge No. 15.—Overhauled and put in order the swinging gear.

Bridge No. 16.—Rebuilt the gallows frame and laid new floor and took old lumber to gate yard. Repaired towpath south of bridge. Repaired and renewed the piles and wales of the approaches and centre pier. Repaired the approaches and screwed up the iron work.

Bridge No. 17.—Made and put in place new timber foundation and post for notice board. Repaired the bridge floor and screwed up the ironwork.

Scowed stone from No. 19 level, old canal, and built new culvert across the Quaker Road, scraped canal banks from guard lock to Welland frequently. Repaired the towpath at different places in the Deep Cut and cleaned out the ditches and put in

several new box culverts. Rebuilt the wing walls of towpath bridge south of Deep Cut and filled in washout with large boulders, pointed the walls with Portland cement and repaired the road paving. Took down the old unused bridge over Bell's Creek, Port Robinson, loaded it on scow and took it to gate yard. Painted swing bridge across lock at Port Robinson and repaired the floor. Repaired the bank, built a drywall and sheet piled a washout at south side of supply weir at Allanburgh. Searched the bottom of summit level and removed logs, driftwood and stumps. Took down the old bridge over Brown's ditch outlet to the Chippawa River, rebuilt it and built new approaches and rebuilt the drywalls on each side. Dug out and repaired leaks in three box culverts in Deep Cut, also dug out two fresh slides and put in new box culverts there, also a new snubbing post at Bridges 13 and 14. Repaired towpath and put in new box culvert south of Bridges No. 13 and 14. Hauled clay and filled in the abutments of Port Robinson dry dock. Repaired the winter float bridges at Port Robinson and Welland and placed them in position. Repaired towpath north and south of bridge No. 15 and put in one new box culvert. Rebuilt wing walls of stone culvert at Bell's Stripped and pumped out boat "Hanlan" and stored away her outfit. Drove piles and built coffer dam at Port Robinson dry dock. Chained Welland lock gates during flood in river. Cut derrick scow out of ice at Port Robinson and pumped her Excavated for new road bridge and built it south of bridge No. 16, graded and made approaches, made ditch between road and towpath, also removed old culvert and put new bridge in place of it—put in a breast wall of timber between the two bridges, sheet piled and puddled it and filled on each side. Built dry wall and repaired 300 feet of bank where washed out below supply weir at Allanburgh. Repaired stone culvert north of bridge No. 16. Refilled the road approaches of the bridge at the outlet of Underpinned the stone walls and repaired the paving of culvert at Brown's ditch. Bell's Creek. Built 50 feet of board fence at Allanburgh new bridge. Built 600 feet of new ditch rear of towpath north of bridge No. 14. Made 800 feet of new ditch south of bridge No. 13, west side. Made new privy pit below Allanburgh bridge and moved privy over it. Put in new posts and rehung gate across towpath at bridge No. 13. Repaired the gate crabs and chains and put new push bar to Port Robinson lock. Filled in old timber culvert across towpath north of bridge No. 16.

No. 3 Division.

Welland Bridge to Port Colborne.

Bridge No. 18.—Repairs were made by M. C. R. R. Co.

Bridge No. 19.—Took up old floor planking and stringers of the bridge and approaches and replaced with new. Repaired the flooring of the bridge across the feeder lock at the Junction. Repaired broken gearing of bridge. Made and placed new stop block, put on new bridge lock and repaired waling.

Bridge No. 20.—Repairs made by G. T. R. Co.

Air Line Ferry.—Hand dredged bank of canal and cut off piles to suit the low water level. Removed old and placed new chain across canal. Made sundry repairs to scow. Laid up ferry scow for winter and placed float bridge and cut ice round it from time to time. Replaced ferry scow in the spring. Repaired and caulked and painted her. Repaired winch and bumping timber, ploughed and scraped hill forming west approach to ferry.

Bridge No. 21.—Removed decayed floor planks and stringers from bridge and west approach and substituted new. Made and placed new stop block and repaired floats and walings.

Bridge No. 22.—Repairs made by G. T. R. Co.

Bridge No. 23.—Removed decayed floor planks and stringers and substituted new.

Port Colborne Lock.—Diver and crew removed a quantity of stone from the bottom of the lock at various times. Replaced holding down timbers over sunken gate carried away by ice.

Port Colborne Harbour.—Took soundings in dredged channel through sand bar and placed buoys to mark the channel and took them in at close of navigation. Diver removed stones from harbour entrance. Repaired the west pier waling and walls of basin. Lowered the ferry landing to suit low water level. Repaired a break in east pier, put in new timbers and stone filling. Placed strong braces from walls to lock gates old port Colborne lock. Stripped scow and boats and stored for winter, picked up floating logs and drift wood after storm. Repaired, caulked and painted ferry scow.

Took tool boat to Allanburgh for repairs and hauled out numerous logs, &c., from bottom of canal. Cleaned out where required the towpath and heelpath ditches, including those along the Welland raceway. Removed several decayed snubbing posts and substituted new between Welland and Port Colborne. Made frequent repairs to the floats in the rock cuts. Underpinned with oak timbers portions of the dry stone retaining walls where they had been undermined by the action of frost, &c., and stone chinked them where required. Dug out and drained several cracks in canal slopes near the Air Line crossing and filled and puddled them. Removed several decayed box culverts and substituted new. Repaired and strengthened the waste weir bridge at the junction. Put up barriers across towpath between Welland and Feeder junction, made float for hand dredge and removed bars in the Welland raceway. Replaced bridge at Humberstone and Welland town line and rebuilt bridge at Crowland and Humberstone town line, west side. Built bridge and faced slopes adjoining with stone north of Lyons Creek culvert, west side. Wheeled out sand from back ditch outlet after storms, scraped and filled in ruts along towpath. Cleaned out mud, &c., from bottom of Junction lock. Repaired culvert at the outlet of Hann's ditch. Faced slopes at end of new culvert below Junction lock with stone. Loaded cover stones procured from the shore of Lake Erie for Hann's culvert, built bridge over back ditch south of Ramey's bend, west side. Repaired dry wall along ditch near Humberstone bridge, west side. Repaired locktender's house, Port Colborne. Cut thistles and weeds on all Government property.

No. 4 Division.

Dunnville and Feeder Division.

The supply of water has been greater this than for many previous years and was sufficient to allow the mills and factories along the line to run with a full supply to the close of the season.

The spring freshet passed off without doing any damage to the works, but large quantities of driftwood and rubbish came down with the ice and lodged on the upper side of the Dunnville booms and along the west side of the long embankment dam. Men and teams broke up the jam and passed it down over the apron below. The stationary bridge and head gates on the canal side of the entrance to the electric light pond were removed, new head gates were made and put in, and the cribwork abutments at ends of bridge were filled with stone.

The scow "McKenzie" was thoroughly overhauled and repaired; the top, sides, and rakes were cut down to the garboard streak and rebuilt, the cabin was also rebuilt and the scow caulked and painted 3 coats.

The mitre sills of Dunnville and Port Maitland locks were thoroughly cleaned out and the gates repaired where required. The Sunfish, Cranberry Creek, Bowman's, Hall's, Stromness, Marshville and Junction culverts have been cleaned out and the driftwood and rubbish taken out of the back ditches and dumped in rear of spoilbanks.

The old swing bridge and approaches at Marshville were taken down and a new and improved bridge and approaches built in place of same, the whole painted 3 coats.

Sunken logs and other obstructions were taken out of the Feeder channel and the willow bushes cut down along towpath.

The old swing bridge built in 1873 across the canal at Stromness was taken down

and a new and substantial structure built and put in place of it.

The outlet from culvert on Cranberry Creek was deepened and widened to give greater facilities for the flow of water from the drains on the north side of Feeder.

All worn out and broken planks in the apron below the Dunnville dam were taken

out and replaced by new, and the same was done at the bridges.

The lock and bridge shanties have been repaired and considerable repairs have been made along the canal banks south of Welland Junction lock, by filling up the gullies made by heavy traffic, the banks were raised and widened with earth and faced with gravel and stone.

The rut holes on tow and heelpaths have been filled up and the back ditch on the north side of the Feeder cleaned out between guard lock and Sunfish Creek. Culvert and the swamp in rear of the custom-house filled in and raised, and the under drain cleared out.

The long embankment dam at Dunnville has been repaired and holes levelled up with gravel.

All locks, waste weirs and bridges overhauled and kept in good repair and working order. Ditches cleaned out everywhere when necessary and deepened throughout.

Port Maitland.—The outer crib at the end of the east pier was carried away by the ice shove during the spring freshet and it was rebuilt and filled with stone and planked.

Generally.—All the waste weir valves and machinery throughout were kept in good working order.

All thistles and other weeds cut on all Government property.

OLD WELLAND CANAL

Lock No. 1, Level and Bridge.—Thirteen decayed piles above the lock were cut off under water and spliced with new white oak. The old floating towpath was repaired from time to time. The floor of the swing-bridge was repaired.

Lock No. 2, Level and Bridge.—Jacked up old swing bridge across the race and replanked the bridge floor and approaches. Repaired towpath and put in new box culverts. Framed and put up temporary bridge across canal at St. Paul Street, St. Catharines, took out decayed gallows posts from the swing bridge and replaced with new, then removed temporary bridge. Cleared out clay, stumps, etc., in front of weir racks. Stripped off and reshingled roof of two Government houses and put on new ridges. Rebuilt towpath bridge across north weir and walls in front, repaired swing-bridge floor.

Lock No. 3 and Level.—Repaired long float and replanked 30 feet. Repaired tow-path and put in one new box culvert. Repaired leak in bank. Put in one new slash-board. Repaired dry stone walls under towpath bridges.

Lock No. 4 and Level.—Repaired mill racebank with clay from bank at lock No. 8. Repaired towpath, floats and bridge. Rebuilt and cemented cistern in Government house. Took jout old lock gate and replaced with one rebuilt. Repaired heel path bridge, towpath and put in new box culvert.

Lock No. 5, Level and Bridge.—Repaired towpath and put in one new box culvert. Rebuilt the dry wall each side of towpath bridge. Screened quarry waste and repaired towpath.

Hydraulic Race (No. 1).—Repaired highway bridge across race at the Merritton line. Rebuilt the rack at entrance near lock No. 11. Cleaned out bottom when water was out of canal in spring.

Lock No. 6 and Level.—Repaired towpath and put in one new box culvert. Repaired heelpath and towpath bridge floor. Scowed quarry waste and repaired towpath. Built new towpath bridge over the weir race.

Lock No. 7, Level and Bridge.—Towed two old floats to gate yard, took them apart and hauled timber into yard. Repaired towpath and put in one new box culvert. Built new swing bridge across lock and painted it. Built temporary bridge alongside and suitable approaches to new bridge. Removed temporary bridge. Scowed quarry waste and repaired towpath.

Lock No. 9 and Level.—Took out three old lock gates and hung rebuilt gates and took old gates to yard. Made and put down three new crab foundations. Repaired towpath with quarry waste.

Lock No. 10 and Level.—Took out old lock gate and hung rebuilt gate. Took old gate to yard. Put iron railing on lock gate.

Lock No. 11 and Level.—Repaired bridge across race on Thorold Road near spoke factory. Repaired towpath and built dry wall along pond.

Lock No. 12 and Level.—Repaired towpath in various places.

Lock No. 13 and Level.—Took old lock gates and hung rebuilt gates. Put in new foot boards and iron railing. Took old gates to yard and rebuilt them. Repaired crabs, reset chain sheaves and put in new push bar. Repaired towpath with quarry waste.

Lock No. 14 and Level.—Repaired the lock gates and replaced one with a rebuilt gate and took old one to yard. Dug out and repaired leak in bank. Put up gate across towpath.

Lock No. 15, Level and Bridge.—Dug out and repaired leaks in banks, several times hauled clay from lock No. 12 level for this purpose. Repaired crab and put on 2 push bars and reset chain sheaves. Repaired bridge and lock gate valve gear and took out sunken log. Excavated to bottom of lock wall underpinned it with cement. Stopped leak and refilled. Repaired the heelpath bank with clay. Repaired bridge floor. Made 400 ft. of ditch along road back of lock. Built 2 stone culverts. Raised the road and took out 1 stone culvert.

Lock No. 16 and Level.—Dug out and repaired leak in bank. Made and put on new lock gate foot board.

Lock No. 17 and Level.—Repaired leak in bank.

Lock No. 18 and Level.—Built hand railing on weir bridge. Removed large stone from bottom of lock.

Lock No. 19 and Level.—Repaired the towpath and put in 2 new box culverts. Rebuilt entrance steps and platforms at locktenders' houses and repaired roof, chimney and board ceiling.

Lock No. 20 and Level.—Put in foundations and groundways for launching scows. Hauled out old piles and sunken logs from bottom of level.

Lock No. 21 and Level.—Built new truss bridge over weir race at foot of lock No. 22. Reshingled locktender's house. Stripped old float bridge and hauled out the timber. Dug new privy pit and moved privy. Repaired porch and door locktender's house. Repaired timber work under heelpath bridge and heelpath. Put in new snubbing posts.

Lock No. 22, Level and Bridge.—Repaired and reset gate crabs. Rebuilt 200 ft. of picket fence and rehung the gates. Built new truss bridge over race at foot of lock No. 23. Repaired verandah and pump at locktender's house. Repaired bridge floor and put in 3 new snubbing posts.

Lock No. 23 and Level.—Built new truss bridge over raceway. Repaired the long bridge and cribwork and leak in bank. Boarded up windows of 3 empty houses. Repaired towpath. Removed sunken log in front of weir. Built foot bridge and repaired heelpath.

Lock No. 24, Level and Bridge.—Repaired 200 feet of towpath and put in 1 new box culvert. Repaired the bridge floor and replanked part. Put one new slashboard on weir. Repaired the coping timber. Replaced old gallows frame of bridge and repaired truss. Painted swing bridge and fence 2 coats. Took up decayed crossing at west end of bridge and laid new. Repaired the bridge over race, macadamized bridge approaches.

Lock No. 25, Level and Bridges.—Built the new pile and wale approach to new swing bridge at Allanburgh, filled and macadamized it. Repaired and reset crabs and chains of guard lock. Made and put in new fastenings at O'Neil's bridge and repaired.

floor. Repaired Marlatt's bridge and towpath at Higgins's weir. Repaired leak in bank at Marlatt's pond and repaired approaches to bridge, laid new floor in lock No. 25 shanty. Caulked the lock gates and weir valves to keep back water from lower levels. Repaired the towpath and riprapped 1,200 feet of Marlatt's pond bank. Made 2 new crab foundations and put in place at Allanburgh's lock. Put new push bars on lock No. 25. Broke up ice jains at lock No. 25 weir and at Higgins. Repaired and rebuilt the guard timbers on approaches to O'Neil's bridge and repaired the gallows frame.

Gate Yard and Shops at Lock No. 21, Old Canal.—Made bolts and ironwork from time to time for No. 3 and 4 divisions. Repaired scow "Hercules" and fitted up pile driver on her. Fitted up some old and made 2 new pulleys. Turned 2 buoys 9 feet long and fitted them with chains and painted them for Port Colborne Harbour. Boxed out and painted 19 water-wheel casings for new canal. Hauled out, caulked and painted service boat "Fire Fly" and scow "Hamilton." Loaded and towed sundry scow loads of old bridge and other timber and unloaded. Made heavy vice for bolt cutter and made and cut 6 new ends for suspension bars, new canal. Made and ironed off 4 new barrow wheels. Reground 6 barrels of old Portland cement. Syphoned out the scows "Chippawa," "Hercules" and "Hamilton." Drew out on to ways the boarding boat, stripped and rebuilt her. Towed scow "Alabama" to yard, hauled out, repaired, caulked and painted her. Made and put in new screw to Port Dalhousie vice. Sawed and cut up at various times quantities of old timber and delivered at lock and bridge shanties, canal office and hydraulic race for fuel. Removed pile driver from scow "Hercules" and fitted her for hanging lock gates. Made table for gate yard office and 2 16-inch triple iron sheaves. Rebuilt old gates from lock No. 13. Caulked the rakes and deck of scow "Chippawa". Dressed, fitted and framed all timber for the new swing bridge at Marshville and delivered it. Caulked the flume and penstock and repaired the water power at gate yard shop. Towed 2 old floats, took them apart and piled timbers in gate yard. Made new launching ways at gate yard. Loaded timber on scow and delivered same at Port Robinson dry dock. Made a new 22 feet pile driver for general use. Brought unused bridge shanties from Marlatt's and O'Neil's bridges to yard. Sorted over and piled 20 tons of miscellaneous iron work. Made heavy timber and iron binding vice for Port Dalhousie shop. Made new pivot beam for Marshville bridge and delivered it. Shored up abutments of Port Robinson dry dock. 2 lock gates. Made 2 heavy needle beams and rollers for Marshville bridge and delivered them. Stripped the gate scow "Hercules," hauled her out and thoroughly rebuilt, caulked and painted her. Put in all her heavy gearing and lifting machinery. Fitted up ice pick and chisels for winter use. Built new horse power for pile driver. Framed timber and made 2 spare lock gates for lock No. 2 old canal. Made 32 feet sounding pole and sent it to Welland aqueduct. Rebuilt 2 one horse dump carts. Made pivot beam for new swing bridge at Stromness. Repaired and put brass linings in 4 male steps and finished iron work for new bridge lock No. 7. Made and fitted all ironwork for all lock gates rebuilt at gate yard. Made new boring head for water-wheels, new canal. Made 6 new 2-inch screw ends for suspension bars, new canal. Drilled and bored out 24 water-wheel cases. Peeled and turned 50 new snubbing posts for No. 1 Division and painted them. Built new iron drill and saw rig and made all the ironwork for new swing bridge at Stromness. Made 6 new and repaired 4 old barrows. Repaired and fitted up stiff leg derrick. Rebuilt flume at gate yard and repaired the gate tramway. Built new iron drill. Repaired 6 water-wheels for new canal. a 22 foot ladder and large tool box. Took out the water-wheel at the gate yard, repaired it, put on pair of new couplings and reset the wheel. Repaired and set the tires on 3 quarry carts. Repaired scow "Chippawa" and put in part of new streak and caulked her above water.

Generally.—Cut all thistles and weeds on canal lands. Blocked up all bridges. Unwatered the canal from lock No. 2 to 25 and repaired all weir aprons, valve gears, &c. Let in the water and filled up all levels of old canal in spring. Cleaned out bottom of locks from No. 6 to No. 24. Unblocked the swing bridges, gate crabs, chains, cables, &c., on all locks from No. 3 to Allanburgh.

The accompanying statement A contains the amounts collected, or to be collected for damage to canal works.

Statement B contains the amounts collected or to be collected from vessels or canal

employees for breaches of canal rules.

Statements C and D contain the highest and lowest recorded depths of water upon the new and old lock mitre sills at Port Dalhousie and Port Colborne in each month of the fiscal year.

WORK CHARGEABLE TO INCOME.

Rebuilding East Pier Superstructure Port Dalhousie.—The renewal of the superstructure of the East Pier at Port Dalhousie was proceeded with. The portion of the work under contract was completed by the contractors, Messrs. Battle & Newman, in a satisfactory manner.

Rebuilding Marshville and Stromness Road Bridges.—The rebuilding of these bridges has been completed.

Cleaning out and deepening Back Ditches on the line of the Feeder.—Tenders were invited for this work, and the contract for sections Nos. 1 and 2 north of the Feeder between Marshville and the Forks Road, was awarded to Joseph Bulning, and for section No. 1 south of the Feeder between the Boulton Ditch and the Grand Trunk Railway crossing, was awarded to W. A. N. West. The first named sections were completed. No work has been done by W. A. N. West upon the section awarded to him. He stated that he was unable to carry on the work.

Four thousand feet in length of the ditch between Marshville and the Forks Road, in continuation eastward of sections Nos. 1 and 2 above mentioned, was carried on and

completed by day labour.

CHARGEABLE TO CAPITAL.

Materials were delivered for constructing safety appliances in connection with the lock gates.

I have the honour to be sir,

Your obedient servant,

W. G. THOMPSON, M. I. C. E.,

Superintending Engineer.

Collingwood Schreiber, Esq., C.M.G.,
Deputy Minister and Chief Engineer, Railways and Canals,
Ottawa.

A.

STATEMENT of Damages to Welland Canal property, during the Fiscal Year ending 30th June, 1896, and amount paid on account of damages in the same year.

Date of	Name of Vessel.	Amount of	Damages.	Date Paid.	WHERE PAID.
Damages	Traille Of Vessel.	Paid.	Unpaid.	Date 1 ald.	Collector's Office.
do 21 July 1 Aug. 19 do 24 do 29 Sept. 14 do 20	Barge Minnedosa	\$ cts. 5 20 19 02 9 00 10 25 6 50 27 90 3 40	12 10	do 22 Sept. 23 do 16 Oct. 23 Nov. 18 1896. April 30	Port Dalhousie. Port Colborne. do do Port Dalhousie. Port Dalhousie. do do Port Dalhousie.
1896. May 1 do 8 do 10 do 11 do 12 do 26	Schooner Marine Schooner Marine Steamer Nicaragua Barge F. D. Ewens Steamer Ionia do Sequin Schooner G. M. Morley Steamer Sequin Barge Neelon do Lisgar Schooner Emerald Barge Ceylon Schooner St. Louis do Omaha		11 43 6 23 11 34 19 04 16 62 50 00 10 51 15 13 15 10 2 81 14 94 17 28 19 40	do do	do do

B.

Statement of Fines collected from Vessels Contravening Canal Regulations and from Locktenders for neglect of duty during the Fiscal Year ending 30th June, 1896.

Date of	Name of Vessel.	A MOUNT	FINE.	Date Paid.	WHERE PAID.
Fine	Ivame of vesser.	Paid.	Unpaid	Date Tald.	Collector's Office
1895.		\$ cts.	\$ cts.	1895.	
do 15 do 15 do 15 do 24	Schooner Albatross Steamer D. D. Calvin	10 00 10 00 10 00 10 00 20 00		Aug. 29 do 30 Sept. 16	Port Dalhousie. Port Colborne. do do do do Port Dalhousie.
do 24	Steamer D. D. Calvin	10 00		1896. June 7	Port Dalhousie.
May 26. June 9 do 9 do 10 do 17	do Melbourne	10 00 10 00 10 00 10 00	10 00	June 27 do do do do	Port Dalhousie. do do do do
1895.	Lock tenders.			1895.	
do 20	Richard Hutton	5 00 5 00	,		Port Dalhousie. do do
1896.	,			1896.	
Jan. 13	Lewis Mosier	10 00		Jan. 22	St. Catharines.
		136 00	30 00		

C.

Statement showing the Highest and Lowest Depth of Water on the Lower Mitre Sill Lock No. 1, Old Welland Canal, Port Dalhousie, for the Fiscal Year ending 30th June, 1896.

Months.	Lower	r Sill.	Months.	Low	er Sill.
Months.	Highest.	Lowest.	MIOIICHS.	Highest.	Lowest.
July August September October November December	11 1	Ft. in. 11 5 11 1 10 6 9 5 9 7 10 1	1896. January. February March April May June	$\begin{array}{c cc} 11 & 5 \\ 12 & 7 \end{array}$	Ft. in. 10 5 10 10 10 10 11 7 12 2 12 1

STATEMENT showing the Highest and Lowest Depth of Water on the Lower Mitre Sill Lock No. 1, New Welland Canal, Port Dalhousie, for the Fiscal Year ending 30th June, 1896.

Months.	L	ower	Sill.		Months.		Lowe	r Sill.	
Months.	Highe	st.	Lov	vest.	Months.	Hig	hest.	Lov	vest
1895.	Ft. in	n.	Ft.	in.	1896.	Ft.	in.	Ft.	in.
July August September. October. November December	14 14 13 13	10 5 0 7 4 9	14 14 13 12 12 13	4 0 5 4 6 0	January. February, March April May. June	14 14 15 15	0 3 4 6 6 5	13 13 13 14 15 15	4 9 9 6 1 0

D.

STATEMENT showing the Highest and Lowest Depth of Water on the Upper Mitre Sill of the Old Lock at Port Colborne, Welland Canal, for the Fiscal Year ending 30th June, 1896.

Months.		Uppe	r Sill.		Months.		Uppe	r Sill.	
Months.	Hig	hest.	Lov	vest.	Months.	Higl	nest.	Lov	vest.
1895.	Ft.	in.	Ft.	in.	1896.	Ft.	in.	Ft.	in.
July August. September October. November December.	11 11 12 11 15 14	3 9 0 5 5 6	10 10 10 9 9	8 5 1 9 3 10	January February March April May. June	12 11 11	4 1 6 4 0 8	$\begin{array}{c} 9 \\ 8 \\ 9 \\ 10 \\ 10 \\ 10 \\ 10 \end{array}$	7 7 6 4 6 9

STATEMENT showing the Highest and Lowest Depth of Water on the Upper Mitre Sill of the New Lock at Port Colborne, Welland Canal, for the Fiscal Year ending 30th June, 1896.

Months.	Upper Sill.		Months.	Upper Sill.	
	Highest.	Lowest.	MOILUIS.	Highest.	Lowest.
July August September October November December	14 8 14 11	Ft. in. 13 7 13 4 13 0 12 8 12 2 12 9	1896. January February March April May. June	15 0 14 5 14 3	Ft. in, 12 6 11 6 12 5 13 3 13 5 13 8

ST. PETER'S CANAL.

St. Peter's Canal Office, 19th October, 1896.

SIR,—I have the honour to report completion, during the fiscal year ending 30th June, 1896, of sundry works of renewal and repairs for some time in progress at St. Peter's Canal.

From time to time reports were made to the department that the lock gates and timbers of St. Peter's Canal were injured by perforations of the "teredo." The ravages of these borers at length so honey-combed and weakened the lock timbers submerged beneath low water level, that the canal was operated with difficulty and risk; and replacement of the damaged structures became necessary. Occurrences unforeseen at commencement of the work, somewhat retarded completion of these renewals, but the damaged structures were made good, and the canal was re-opened for traffic on the 8th of November, 1895.

The damaged lockgates have been replaced by new gates of pitch pine, treated with creosote, as an additional preservative. At present it would be premature to conclude that the new creosoted structures will be absolutely secure from ravages of the "teredo," but to this date no indication whatever of the work of borers is apparent.

A portion of the coffer dam constructed for unwatering of the lock was left at the north entrance and caused obstruction and risk to the larger craft passing via the canal. This obstruction has been removed during the year.

From repeated examinations, diver Sampson reports that considerable ballast left from the cofferdam at the south entrance to the canal still remains at the sides of the This will require to be taken away, lest the drift ice and heavy seas carry boulders into the lock and injure the gates.

At the Bras d'Or entrance to the canal, and also at the south entrance, obstructions of clay have accumulated. Removal of these is necessary to give the larger vessels using the canal full depth of water; and will require fifteen or twenty days' work by a dredge of ordinary efficiency to properly clear the channel.

During the fiscal year, since the canal has been reopened, traffic month by month

compares favourably with that of former years.

I have the honour to be, sir, Your obedient servant,

JOHN D. MATHESON,

Lockmaster and Collector.

Collingwood Schreiber, Esq., C.M.G., Chief Engineer Railways and Canals, Ottawa.

OFFICE OF THE INSPECTOR OF CANALS,

Hamilton, 19th August, 1896.

Sir,—I have the honour to report my inspection, during the fiscal year ending 30th June, 1896, of the respective offices for collection of tolls on the Dominion canals.

From time to time, at dates of inspection, detailed returns showing particulars of all collections made, and of the working of each office, were submitted to the department.

The aggregate receipts, on account of canal revenue, during the fiscal year 1895-96 were \$290,089.08.

Receipts of hydraulic and other rents, during the fiscal year were \$51,414.01.

Classified under subdivisions of tolls, wharfage and storage, fines, damages and sundry miscellaneous minor receipts, the exhibit of revenue, at the thirty offices established for collection of canal revenue, is as follows:—

WELLAND CANAL.

Collection Divisions.		Can	Total Canal	Hydraulic and			
C meetic I Divisions.	Tolls.	Wharfage and Storage.	Fines.	Damages.	Other Receipts.	Revenue.	Other Rents.
Port Colborne Port Dalhousie Dunnville Port Maitland St. Catharines Chippawa Port Robinson*	235 15 20 92 791 25 43 39		\$ ets. 30 00 90 00 10 00		\$ cts. 36 08 71 95	\$ cts. 90,986 96 50,653 54 235 15 20 92 801 25 43 39 8 35	\$ cts. 770 50 1,230 65 1,068 34 6,120 02 5 00
Totals	142,511 53		130 00		108 03	142,749 56	9,194 51

^{*}This office was closed July 5th.

ST. LAWRENCE CANALS.

Valleyfield	3,877 18 742 43 917 03 53,183 13		25 00 10 00		1,333 42 14,076 86	1,863 58 3,910 18 752 43 2,267 55 70,316 03 183 48	2,809 00 6,960 00 979 00 30,215 05
Totals	60,757 83	3,033 14	80 00	• • • • • • • • • • • • • • • • • • • •	15,422 28	79,293 25	40,963 05

^{*}The tolls collected at Montreal include payment for Let-passes issued at Lachine for \$1,122.70; at Cornwall for \$21,963.04; and at Kingston for \$8,870.30.

CHAMBLY CANAL.

ChamblySt. JohnsSt. Ours Lock	13,016 26 13,213 03 577 72	 7 00	 	13,023 26 13,213 03 579 72	140 00 50 00
Totals	26,807 01	 9 00	 	26,816 01	140 00

OTTAWA RIVER CANALS.

Collection Divisions.		Can	AL REVENU	Е.		Total Canal	Hydraulic
	Tolls.	Wharfage and Storage.	Fines.	Damages.	Other Receipts.	Revenue.	and Other Rents
	\$ cts.	\$ cts.	\$ ets.	\$ ets.	\$ cts.	\$ cts.	\$ cts
Ottawa Grenville	19,782 17 11,096 91 60 50				8 00	19,782 17 11,104 91 60 50	13 00 43 00
St. Anne's	1,151 35 32,090 93				10 00	1,153 55 32,101 13	56 00
		RII	DEAU CA	NAL.	<u> </u>		1
Ottawa	3,826 99 1,434 34 536 89	51 94			266 50 9 20	4,145 43 1,434 34 546 00	501 75 332 50 58 20
Totals	5,798 13	51 94			275 70	6,125 77	942 45
		St. P	ETER'S C	ANAL.	1		•
St. Peter's	1,248 38					1,248 38	
		MU	RRAY CA	ANAL.	<u>`</u>	1	·
Brighton	522 12					522 12	4 0
		TRENT	VALLEY	CANALS			
Burleigh Falls. Bobcaygeon Fenelon Falls. Hastings. Peterborough Buckhorn	75 25 476 94 65 05 35 71 265 20 147 96				165 00 1 00 0 75	75 25 641 94 66 05 36 46 265 20 147 96	51 00
Totals	1,066 11				166 75	1,232 86	54 00
		SAULT S	STE. MAR	IE CANA	L.		
Sault Ste. Marie							10 00
Grand Totals	270,802 04	3,085 08	219 00		15,982 96	290,089 08	51,414 01

During the fiscal year bank remittances in favour of the Receiver General have been made daily or weekly, as determined by the department, and by such deposits the receipts, as tabulated above, were duly balanced at the above named offices.

I have the honour to be, sir, Your obedient servant,

H. B. WITTON,

Inspector of Canals.

Collingwood Schreiber, Esq., C.M.G., Deputy Minister of Railways and Canals.

REPORT

OF THE

SECRETARY OF THE RAILWAY COMMITTEE

OF THE

PRIVY COUNCIL

RAILWAY COMMITTEE OF THE PRIVY COUNCIL

The Minister of Railways and Canals, being Chairman of the Railway Committee of the Privy Council, on which certain extensive duties are imposed by the Railway Act, 1888, and its amendments, it seems proper that a brief record should here be made of the matters submitted to the Committee during the calendar year from January to December, 1896, and the decisions arrived at. They are as follows:—

Montreal Park and Island Railway to cross the Lachine Canal at Montreal and Côte St. Paul.—Hearing adjourned.

Complaint of fishermen and residents of Burlington Beach that the Grand Trunk Railway Company have deprived them of access to their fishing grounds by building a wire fence-and closing up certain gates and crossings.—Case dismissed.

Complaint by Mr. E. Dubé re rates charged on the Temiscouata Railway—Case dismissed.

Montreal Park and Island Railway, for approval of plan of proposed place and mode of crossing by its railway of the Grand Trunk Railway wharf siding tracks at Lachine.—Approved.

Montreal Park and Island Railway, for permission to cross the Cote St. Luc Road, near Westmount.—Granted.

Complaint that the Fenelon Road crossing of the Grand Trunk Railway near Lindsay is in a dangerous condition—Order issued directing Grand Trunk Railway to make the necessary repairs.

Grand Trunk Railway, for approval of plan and profile of a crossing by their railway of St. Etienne Street, in Montreal.—Approved.

City of St. Henri, for authority to open a prolongation of St. Jean Street across the line of the Grand Trunk Railway, and to remove fences shutting off said street from the railway.—Under consideration.

Grand Trunk Railway, for variation of Orders re crossing of street railways at Toronto and Montreal as regards cost of protection.—Under consideration.

Grand Trunk Railway re crossing of its tracks by the Canada Southern Railway Company's branch to the Ontario Peat Fuel Company's works.—Partly heard.

Complaint by the City of Three Rivers that the overhead bridge crossing Le Jeune Street over the C. P. R., being in a dangerous condition, and that gates and watchmen are necessary at the crossing by the C. P. R., at Bonaventure Street.—Case withdrawn.

Canadian Pacific Railway for approval of plan of bridge across the Columbia River at Revelstoke, B. C.—Approved.

Township of Orford for permission to cross the Canadian Pacific Railway with a public road near Magog Lake.—Granted.

City of Toronto for permission to lay a 12 inch water main under Grand Trunk and Canadian Pacific Railway tracks on Bay Street in that city.—Granted.

Nakusp and Slocan Railway (C. P. R.) for approval of proposed change in the location of the Sandau Branch of the Nakusp and Slocan Railway, and for authority to to take possession of, use or occupy certain lands of the Kaslo and Slocan Railway.—Granted.

Tagona Water and Light Company for permission to lay their water pipes under the tracks of the C. P. R., at Sault Ste. Marie.—Granted.

Application by Captain J. E. Porter, for an order compelling the Central Railway Company of New Brunswick to widen the drain in their bridge crossing the Washademook River.—Case dismissed.

Toronto, Hamilton and Buffalo Railways for power to take possession of, use or occupy certain property of the Grand Trunk Railway Company in the Township of Barton required for right of way purposes.—Granted.

The Ottawa, Arnprior and Parry Sound Railway for approval of plan of bridge to Parry Island.—Approved.

Montreal Park and Island Railway for approval of an overhead crossing by their electric railway of the Canadian Pacific Railway at the village of Côte des Neiges—Approved.

The St. Lawrence and Adirondack Railway Company for approval of a change in location of the line of its railway near Valleyfield.—Approved.

Atlantic and North-west Railway Company (C. P. R.) for approval of plan regrade of approaches to their tracks along certain streets in St. Johns, P.Q.—Approved.

Ottawa, Arnprior and Parry Sound Railway Company for approval of plan and site of the proposed works upon the lands covered with the waters of the Rideau Canal, Ottawa.—Approved.

The Okatoks Irrigation Company for permission to cross the Calgary and Edmonton Railway with an Irrigation Ditch.—Granted.

Province of Manitoba for an order directing that Le Moine Street in the municipality of Kildonan, be extended across the tracks of the Canadian Pacific Railway.—Granted.

Columbia and Kootenay Railway Branch from a point on the bank of the Kootenay River.—Sanctioned.

Toronto, Hamilton and Buffalo Railway branch to connect the village of Ridgeville with its main line.—Sanctioned.

Canadian Pacific Railway Branch from their main line in Hochelaga Ward, Montreal, to the St. Lawrence Sugar Refinery in the town of Maisonneuve.—Sanctioned.

City of Winnipeg for an order directing that Gladstone Street be extended across the tracks and lands of the Canadian Pacific Railway Company.—Granted.

Canadian Pacific Railway for approval of plan and proposed site of bridges across the following streams in British Columbia, viz.:—

Sicamous Narrows, Columbia River, Pitt River, Fraser River, Stone River, Harrison River and Maria Slough.—Approved.

Montreal Park and Island Railway for approval of a crossing by their street railway of the Grand Trunk Railway near St. Lawrence Station.—Approved.

Moncton Electric Street Railway for approval of crossing of the Intercolonial Railway at Main and St. George streets, Moncton.—Approved.

South-western Railway for approval of plan and site of bridge across the Chateauguay River.—Approved.

Gulf Shore Railway for approval of plan and site of bridges across the following streams in New Brnnswick, viz.:—South River, Tracadie River, and Pokemouche River.—Approved.

Montreal Park and Island Railway for permission to cross under the Atlantic and North-west Railway (C.P.R.) near Lachine.—Granted.

Hamilton Radial Electric Railway for approval of crossing of the G.T.R. on Sherman Avenue and Fergusson Avenue, Hamilton.—Approved.

Hamilton Radial Electric Railway for approval of crossing of the G.T.R. at Burlington.—Hearing adjourned.

The Hull Electric Company for permission to cross the Canadian Pacific Railway near the Hull station.—Hearing adjourned.

Kingston and Pembroke Railway for variation of Order re crossing of their railway by the Kingston, Napanee and Western Railways at Harrowsmith.—Granted.

London Street Railway for permission to cross the tracks of the Grand Trunk, Canadian Pacific and London and Port Stanley Railway.—Hearing adjourned.

Town of Magog for permission to cross, with six of its streets, the tracks of the Atlantic and North-west Railways (C.P.R.)—Hearing adjourned.

Canadian Pacific Railway for approval of plan of trestle bridge over Kelesquasheshing Lake, and plan of trestle bridge over Kelesquasheshing River, Algoma.—Hearing adjourned.

City of Winnipeg for permission to extend Gladstone Street across the tracks of the Canadian Pacific Railway.—Granted.

Sherbrooke Street Railway for permission to cross the tracks of the Grand Trunk and Canadian Pacific Railways.—Granted.

Hamilton Radial Electric Railway for permission to cross two parcels of land owned by Grand Trunk Railway.—Case withdrawn as the two Companies arrived at an agreement.

Toronto, Hamilton and Buffalo Railway for approval of plans and profile of portions of its railway to be constructed across certain streets and roads in Hamilton.—Approved.

Toronto, Hamilton and Buffalo Railway for approval of junction with the Grand Trunk Railway at Hamilton.—Approved.

Toronto, Hamilton and Buffalo Railway for approval of plan and site of bridge across Desjardins Canal.—Approved.

Toronto, Hamilton and Buffalo Railway Branch to Ridgeville.—Sanctioned.

Montreal Park and Island Railway for permission to cross Lot No. 925 of G. T. R. at Lachine.—Granted.

Toronto, Hamilton and Buffalo Railway for a reconsideration of the order closing Hughson Street in the City of Hamilton.—Order issued directing that Hughson Street shall not be closed.

Ottawa, Arnprior and Parry Sound Railway for approval of crossing Grand Trunk Railway at Scotia.—Approved.

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City of Toronto for permission to lay down water pipes under the tracks of the Canadian Pacific and Grand Trunk Railways.—Granted.

Montreal Street Railway for variation of order re crossing of G. T. R. on Notre Dame Street, St. Henri.—Order varied.

Montreal and Ottawa Railway (C. P. R.) for approval of crossing of its railway of the Central Counties Railway at Vankleek Hill.—Approved.

COLLINGWOOD SCHREIBER.

Secretary of Railway Committee of the Privy Council.

Prepared by

J W. Pugsley,

Clerk of Ry. Com. of P. C.

PART II

STATEMENTS OF THE ACCOUNTANT

No. 1. Statement showing the amount expended by the Department of Railways and Canals, Dominion of Canada, during the Fiscal Year ending 30th June, 1896.

Capital Income	Name of Work.	Chargeable to		Chargeable	to Revenue.
Beauharnois 20,725 47 15,050 85	Name of Work.	Capital.	Income.	Staff.	Repairs.
13,995 69 12,161 10	Canals.	\$ cts.	\$ cts.	\$ ets.	\$ cts
13,905 69 12,161 10	Beauharnois	! !		20,725 47	15,050 85
Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Sect	arillon	1		13,995 69	12,161 10
184,998 25 8,193 15 58,342 96 24,950 20	Chamble	3,850 31	3 694 63	, ·	-
Lake St. Louis	Cornwall	448,408 31	2.175 00		
Care St. Louis	∟achine	184.998.25	8,193 15	58,342 96	24,950 20
Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict Strict S	Lake St. Louis	49,909 31		F 400 10	
189,986 59 16,074 70 2,650 17	Ridean	ļ			
Soulanges Sab, 1939 O	Sault Ste. Marie	189,986 59	21,402 23		
St. Anne's	Soulanges	535,939 07			
1. Lawrence	Ste. Anne's			2,495 54	4,993 89
1,455 21	Ob. Lawrence	7 457 05		2 004 01	1 678 40
Method 1,677 67 18,768 99 87,988 11 62,542 64	Ol. Peter's	1 455 91		2,094 91	
Williamsburg Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calops Calo	rent.	392,976 08	6,185 75	4,349 34	3,329 97
Williamsburg Rapide Plat 286,336 96 4,980 00 8,607 04 9,588 51 9,036 00	Welland	1,677 67	18,768 99	87,988 11	62,542 64
Totals 2,258,778 97 85,820 49 292,121 05 209,321 60 Sunday labour 13,632 19 Salaries and contingencies canal officers 28,850 69 Credge vessels, Lachine. 2,751 04 Go Rideau 5,993 06 Miscellaneous, works not provided for 5,024 58 868 82 Expenses of Deep Waterways Commission 5,000 00 Salaries of extra clerks and copyists 5,000 00 Salaries of engineers, draughtsmen and extra clerks. Services extra clerks preparing returns for Parliament Costs of litigation 4,449 99 Total on Canals 2,258,778 97 121,908 10 345,454 47 226,328 40 RAILWAYS. Canadian Pacific 65,669 49 Intercolonial \$259,423 42 Less refund previous years 318 19 Prince Edward Island 259,105 23 3,012,827 62 Prince Edward Island 259,105 23 3,012,827 62 Governor General's car "Victoria" 1,290 31 Governor General's car "Victoria" 1,290 31 Governor General's car "Victoria" 1,290 31 Governor General's car "Victoria" 1,290 31 Governor General's car "Victoria " 1,290 31 Governor General's car "Victoria " 1,290 31 Governor General's car "Victoria " 1,290 31 Governor General's car "Victoria " 1,290 31 Governor General's car "Victoria " 1,290 31 Governor General's car "Victoria " 1,290 31 Governor General's car "Victoria " 1,290 31 Governor General's car "Victoria " 1,290 31 Governor General's car "Victoria " 1,290 31 Governor General's car "Victoria " 1,290 31 Governor General's car "Victoria " 1,290 31 Governor General's car "Victoria " 1,290 31 Governor General's car "Victoria " 1,290 31 Governor General's car "Victoria " 1,290 31 Governor General's car "Victoria " 1,290 31 Governor General's car "Victoria " 1,290 31 Governor General's car "Victoria " 1,290 31 Governor General's car "Victoria " 1,290 31 Governor General's car "Victoria " 1,290 31 Governor General's car "Victoria " 1,290 31 Governor General's car "Victoria " 1,290 31 Governor General's car "Victoria " 1,290 31 Governor General's car "Victoria " 1,290 31 Governor General's car "Victoria " 1,290 31 Governor General's car "Victoria " 1,290 31 Governor General's car "	Galops	150,744 16			
Totals	Williamsburg. Rapide Plat Point	4 980 00		9,588 51	9,036 00
Sunday abour 38,832 19 38,850 69 2,751 04 20 2,751 04 20 2,751 04 20 2,751 04 20 2,751 04 20 2,751 04 20 2,751 04 20 2,751 04 20 2,751 04 20 2,751 04 20 2,751 04 20 2,751 04 20 2,751 04 20 2,751 04 20 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04	Iroquois	1,000 00		J	
Sunday abour 38,832 19 38,850 69 2,751 04 20 2,751 04 20 2,751 04 20 2,751 04 20 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,751 04 2,7	Totals	2 258 778 97	85 820 49	292 121 05	209 321 60
Salaries and contingencies canal officers 2,751 04	Sunday labour	i	1		
Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling Steeling	Palaries and contingencies canal officers				
Miscellaneous, works not provided for. Surveys and inspections Expenses of Deep Waterways Commission Salaries of extra clerks and copyists Salaries of engineers, draughtsmen and extra clerks clerks Services extra clerks preparing returns for Parliament. Costs of litigation Total on Canals RAILWAYS. Canadian Pacific Intercolonial Less refund previous years. Siland Windsor Branch Total Governor General's car "Victoria" Railway subsidies Surveys and inspections Railway statistics Reporting evidence before Railway Committee of the Privy Council Total on Railways. Salaries of Leyks 1,997 48 8,562 70 8,000 00 11,997 48 8,180 54 8,262 70 8,000 00 11,997 48 8,000 00 11,997 48 8,000 00 11,997 48 8,000 00 11,997 48 8,000 00 11,997 48 8,000 00 11,997 48 8,000 00 11,997 48 8,000 00 11,997 48 8,000 00 11,997 48 8,262 70 8,000 00 11,997 48 8,262 70 8,000 00 11,997 48 8,262 70 8,600 00 11,997 48 8,262 70 8,600 00 11,997 48 8,262 70 8,600 00 11,997 48 8,000 00 12,997 48 8,000 00 12,997 48 8,000 00 12,997 48 8,000 00 12,997 48 8,000 00 12,997 48 8,000 00 12,997 48 8,000 00 12,997 48 8,000 00 12,997 48 8,000 00 12,997 48 8,000 00 12,997 48 8,000 00 12,997 48 8,000 00 12,997 48 8,000 00 12,997 48 8,000 00 12,997 48 8,000 00 12,997 48 8,000 00 12,907 48 8,000 00 12,997 48 8,000 00 12,997 48 8,000 00 12,997 48 8,000 00 12,997 48 8,000 00 12,997 48 8,000 00 12,997 48 8,000 00 12,997 48 8,000 00 12,997 48 8,000 00 12,997 48 8,000 00 12,997 48 8,000 00 12,997 48 8,000 00 12,997 48 8,000 00 12,997 48 8,000 00 12,997 48 8,000 00 12,997 48 8,000 00 12,997 48 8,000 00 12,997 48 8,000 00 12,997 48 8,000 00 12,997 48 8,000 00 12,997 48 8,000 00 12,997 48 8,000 00 12,997 48 8,000 00 12,997 48 8,000 00 12,997 48 8,000 00 12,900 49 12,900 49 12,900 49 12,900 49 12,900 49 12,900 49 12,900 49 12,900 49 12,900 49 12,900 49 12,900 49 12,900 49 12,900 49 12,900 49 12,900 49 12,900 49 12,900 4	Preage vessels, Lachine				
Expenses of Deep Waterways Commission	Miscellaneous mucha not provided for				
Salaries of Extra clerks and copyists 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,997 48 1,	uivevs and inchections	,	868 82		
Salaries of extra clerks and copyists 1,997 48 18,010 69 18,010 69 18,010 69 18,010 69 18,010 69 18,010 69 18,010 69 18,010 69 18,010 69 18,010 69 18,010 69 18,010 69 18,010 69 18,010 69 18,010 69 18,010 69 18,010 69 18,010 69 18,010 69 18,010 69 18,010 69 18,010 69 18,010 69 18,010 69 18,010 69 18,010 69 18,010 69 18,010 69 18,010 69 18,010 69 18,010 69 18,010 69 18,010 69 18,010 69 18,010 69 18,010 69 18,010 69 18,010 69 18,010 69 18,010 69 18,010 69 18,010 69 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 12,008 10 1	Expenses of Deen Waterways Commission	1	5.000 00		
Services extra clerks preparing returns for Parliament. 736 05 4,449 99	Salaries of extra clarks and convists	1	1,997 48		
Costs of litigation	Clarks of engineers, draughtsmen and extra	•	19 010 60		
Costs of litigation 4,449 99 Total on Canals 2,258,778 97 121,908 10 345,454 47 226,328 40 RAILWAYS. Canadian Pacific 65,669 49 Intercolonial \$259,423 42 Less refund previous years 318 19 Prince Edward Island 259,105 23 3,012,827 62 Windsor Branch 516,476 46 Total 324,774 72 3,254,442 64 Governor General's car "Victoria" 1,290 31 Railway subsidies 648,145 49 Surveys and inspections 84,990 89 Railway statistics 168 80 Reporting evidence before Railway Committee of the Privy Council 112 20 Total on Railways. 326,065 03 653,417 38 3,254,442 64	Services extra clarks preparing returns for		10,010 05		• • • • • • • • • • • • • • • • • • • •
Total on Canals. 2,258,778 97 121,908 10 345,454 47 226,328 40 RAILWAYS. Canadian Pacific 65,669 49 Intercolonial 8259,423 42 Less refund previous years. 318 19 Prince Edward Island 259,105 23 3,012,827 62 Prince Edward Island 259,105 23 3,012,827 62 Caption Edward Island 16,476 46 Total 324,774 72 3,254,442 64 Governor General's car "Victoria" 1,290 31 Railway subsidies 648,145 49 Surveys and inspections 168 80 Reporting evidence before Railway Committee of the Privy Council 112 20 Total on Railways. 326,065 03 653,417 38 3,254,442 64	1 ariiament		736 05		
Total on Canals. 2,258,778 97 121,908 10 345,454 47 226,328 40 RAILWAYS. Canadian Pacific 65,669 49 Intercolonial 8259,423 42 Less refund previous years. 318 19 Prince Edward Island 259,105 23 3,012,827 62 Windsor Branch 16,476 46 Covernor General's car "Victoria" 1,290 31 Railway subsidies 318 19 Surveys and inspections 4,990 89 Railway statistics Reporting evidence before Railway Committee of the Privy Council 112 20 Total on Railways. 326,065 03 653,417 38 3,254,442 64	Costs of litigation		4,449 99		
RAILWAYS. Canadian Pacific 65,669 49			121,908 10	345,454 47	226,328 40
Canadian Pacific 65,669 49 Intercolonial \$259,423 42 Less refund previous years 318 19 Prince Edward Island 259,105 23 Windsor Branch 16,476 46 Total 324,774 72 Governor General's car "Victoria" 1,290 31 Railway subsidies 648,145 49 Surveys and inspections 4,990 89 Railway statistics 168 80 Reporting evidence before Railway Committee of the Privy Council 112 20 Total on Railways 326,065 03 653,417 38 3,254,442 64					
Less refund previous years. 318 19 Prince Edward Island 259,105 23 3,012,827 62 Windsor Branch 16,476 46 Total 324,774 72 3,254,442 64 Governor General's car "Victoria" 1,290 31 Railway subsidies 648,145 49 Surveys and inspections 4,990 89 Railway statistics 168 80 Reporting evidence before Railway Committee of the Privy Council 112 20 Total on Railways. 326,065 03 653,417 38 3,254,442 64					
Less refund previous years. 318 19 Prince Edward Island 259,105 23 3,012,827 62 Prince Edward Island 259,105 23 3,012,827 62 Windsor Branch 16,476 46 Total 324,774 72 3,254,442 64 Governor General's car "Victoria" 1,290 31 Railway subsidies 648,145 49 Surveys and inspections 4,990 89 Railway statistics 168 80 Reporting evidence before Railway Committee of the Privy Council 112 20 Total on Railways. 326,065 03 653,417 38 3,254,442 64	Untopal Pacific	65,669 49		· · · · · · · · · · · · · · · · · · ·	
Prince Edward Island 259,100 25 3,014,624 05 Windsor Branch 16,476 46 Total 324,774 72 3,254,442 64 Governor General's car "Victoria" 1,290 31 Railway subsidies 648,145 49 Surveys and inspections 4,990 89 Railway statistics 168 80 Reporting evidence before Railway Committee of the Privy Council 112 20 Total on Railways 326,065 03 653,417 38 3,254,442 64		5.			
Prince Edward Island Windsor Branch Total Total Governor General's car "Victoria" Railway subsidies Surveys and inspections Railway statistics Reporting evidence before Railway Committee of the Privy Council Total on Railways. 324,774 72 1,290 31 648,145 49 4,990 89 168 80 Reporting evidence before Railway Committee of the Privy Council Total on Railways. 326,065 03 653,417 38 3,254,442 64				3.012.827 62	
Total 324,774 72 3,254,442 64 Governor General's car "Victoria" 1,290 31 Railway subsidies 648,145 49 Surveys and inspections 4,990 89 Railway statistics 168 80 Reporting evidence before Railway Committee of the Privy Council 112 20 Total on Railways. 326,065 03 653,417 38 3,254,442 64	Prince Edward Island	•		225,138 56	
Total 324,774 72 3,254,442 64 Railway subsidies 1,290 31 Railway subsidies 648,145 49 Surveys and inspections 4,990 89 Railway statistics 168 80 Reporting evidence before Railway Committee of the Privy Council 112 20 Total on Railways 326,065 03 653,417 38 3,254,442 64	Windsor Branch	.;		16,476 46	
Reporting evidence before Railway Committee of the Privy Council				9 054 440 64	
Reporting evidence before Railway Committee of the Privy Council	Governor General's car "Victoria"	1 290 31			
Reporting evidence before Railway Committee of the Privy Council	Railway subsidies	1,200 01	648,145 49	. 	
Reporting evidence before Railway Committee of the Privy Council	Surveys and inspections		4,990 89		
Total on Railways	Reporting aniders 1 5		168 80		
Total on Railways	mittee of the Privy Council		112 20		
	Total on Railways and Canals.		775,325 48	3,599,897 11	226,328 40

Total amount expended, \$7,186,394.99.

DEPARTMENT OF RAILWAYS AND CANALS,

LEONARD SHANNON,

OTTAWA, 1st November, 1896.

No. 2.

Statements showing the amounts expended on Construction, Renewals, Ordinary Repairs and Working Staff of the Canals of the Dominion of Canada, up to the 30th June, 1896.

ST. PETER'S CANAL.

					Renewali Chargeable to Income.		Repairs.		
					\$	cts.	\$ cts	. \$ cts.	\$ cts.
Government expendi	ture prior to Conf	edera	tion		156,5	23 32			
do	sin c e	do		1868		19 72			1
do	do	do		1869		19 80	1		.]
do	do	do		1870			46,193 5		
do	do	do	•	1871				. 225 36	555 78
do	do	do		1872			1	280 00	6,122 07
do	do	do		1873				343 32	6,539 58
do	do	do		1874			l	725 93	1,558 57
do	do	do	•	1875		20 97		560 00	889 35
do	do	do		1876		25 00	l	641 55	1
do	do	do		1877		30 18		600 00	17 45
do	do	do		1878		11 51	1	600 00	1
do	do	do		1879		37 75		631 50	1
do	do	do		1880		20 54	l	400 00	1
do	do	do		1881		34 76		. 959 58	1
do	do	do		1882		84 00		1,920 54	200 63
do	do	do		1883				2,089 19	
do	do	do	• • •	1884	2.4	71 40		2,601 47	367 85
do	ďο	do	• • •	1885		20 15	1	1,929 11	183 11
do	do	do		1886		316 85		2,360 67	297 81
do	do	do		1887		87 75	750 (343 23
do	do	do		1888			1	3,217 77	1,588 40
do	do	do		1889	1		500 (
do	do	do		1000	1			3,110 15	
do	do	do		1001		972 65	510		
do	do	do		1000		387 00	30,936		
do	do	do	• •	1893		811 59	9,987		
do	do	do	•	1894		437 05	3,852		
do ·	do	do	• •	1005		868 44	26,222		
do	do	do		1		455 21	16,743		
-		ao	•	1000	ļ		-		
Tota	1			.1	648.	755 64	135,697	01 45,877 50	25,735 68

LEONARD SHANNON,

Accountant.

STATEMENTS showing the amounts expended on Construction, Renewals, &c.—Con.

BAIE VERTE CANAL—SURVEY.

				Year ending 30th June.	Capi	tal.	Inco	me.
					\$	cts.	8	cts.
overnment expenditure			ion				l	
d o -	since	do		. 1868		. .		
do	do	do		1869				
do	фo	do		1870	1			
do	do	\mathbf{do}		1871			17,92	29 34
do	do	do		. 1872				99 41
do	do	do		. 1873			14,94	
do	do	do		1874				1890
do	do	do		. 1875				43 0 0
do	do	$\mathbf{d}\mathbf{o}$		1876		. .	11	10^{-78}
do	do	do	,	1877			2	$22 \ 30$
do	do	do		1878				
do	do	do		. 1879			[
do	do	do		1880			 ,	
do	do	$\mathbf{d}\mathbf{o}$		1881		 .	52	20 O
do	do	do		1882	1	<i>.</i> .		
\mathbf{do}	do	do		1883				
đo	do	do		1884				
do	do	do		1885				
do	do	do		1886	1			
do	do	do		1887	1			
do	do	do		1888				
do	do	do		. 1889	1			
do	do	do		1890				. .
do	do	do		1891	1		1	
do	do	do		1892				
do	do	\mathbf{do}		1893	1			
do	\mathbf{do}	do		1894				
do	do	do		1895	1		ļ .	
do	do	do		1896	1		1	

LEONARD SHANNON,
Accountant.

STATEMENTS showing the amounts expended on Construction, Renewals, &c.—Con.

LACHINE CANAL.

			;	Year ending 30th June.	Capital.	Renewals Chargeable to Income. Staff.		Repairs.
					\$ cts.	\$ cts.	\$ cts.	\$ cts.
Evnenditum by I	Imperial Governm		Ì		40,000 00		İ	
Government ovno	nditure prior toCo	nfodorst	ion	 	2,547,532 85		••••••	• • • • • • • • • • • • •
do	since	do		1868	2,041,002 00	1,852 70	13,742 05	10,431 51
do	do	do		1869	2,000 00	1,002 10	14,209 02	12,085 84
do	do	do		1870	2,000 00	J	15,834 49	13,302 39
do	do	do		1871		12,231 40	17,478 52	15,093 25
do	do	do		1872	36,708 15		16,076 93	12,334 69
do	do	do		1873	7,824 28	35,158 21	23,601 03	34,300 60
do	do	do		1874	158,618 35		25,811 07	22,828 66
do	do	do		1875	197,420 52		28,592 01	30,057 34
do	do	do		1876	327,769 39	1	33,797 73	29,103 65
do	do	do		1877	1,439,375 73		33.148 86	19,824 33
do	do	do		1878	1,484,619 63		39,062 97	13,646 41
do	do	do		1879	958,053 30		42,338 84	12,400 78
do	do	do		1880	369,566 74		38,950 90	10,223 62
do	ďο	do		1881	292,165 51		39,027 99	19,888 33
do	do	do		1882	252,821 33	2,978 66	41,158 90	17,116 46
do	do	do		1883	396,496 96	1,859 68	45,554 91	18,199 59
do	do	do		1884	188,266 18		48,624 51	19,683 24
do	do	do		1885	111,215 23		49,004 85	20,199 78
do	do	do		1886	210,509 42	 	50,969 10	19,199 18
do	do	do	i '	1887	28,772 52	12,981 59	53,113 97	22,567 81
do	do	do		1888	19,414 34	7,996 38	52,229 61	19,999 64
do	do	do		1889	76,032 96	972 71	54,110 67	22,957 71
do	do	do	1	1890	7,448 03	8,238 46	53,114 34	22,999 38
do	do	\mathbf{do}		1891	217 53	16,155 75	50,721 69	36,292 98
do	do	do	i	1892	87,852 35	27,480 80	52,729 37	67,499 62
do	do	do		1893	445,983 21	50,937 40	53,185 00	51,616 79
do	do	dο		1894	64,345 14	15,856 74	60,174 03	40,939 70
do	do	\mathbf{do}		1895	189,944 36	32,405 20	56,337 44	25,891 45
do	do	ďο		1896	184,998 25	8,193 15	58,342 96	24,950 20
	Total				10,125,972 26	235,298 83	1,161,043 76	685,634 93

LEONARD SHANNON,
Accountant.

Statements showing the amounts expended on Construction, Renewals, &c.—Con.

BEAUHARNOIS CANAL.

				Year ending 30th June.	Capital.	Renewals Chargeable to Income.	Staff.	Repairs.
					\$ ets.	\$ cts.	8 c:s.	\$ cts.
Government expe	enditure prior toC	onfeder	ation		1,611,424 11			. ,
do	since	do		1868		63,193 75	9,349 99	6,216 98
do	do	do		1869		55 00	9,626 99	6,498 57
do	dο	do		1870		27 50	10,117 57	6,384 81
do	do	do		1871	<i>.</i>		12,316 53	5,722 36
do	do	do		1872		27 50	11,792 46	15,733 38
do	do	do		1873		5,122 50	12,210 73	9,882 06
do	do	do		1874		26 00	15,392 51	10,990 50
do	do	do		1875		36 00	14,399 32	12,253 01
do	do	do		1876			14,465 86	17,170 83
do	do	do		1877			14,377 63	15,207 36
do	do	do		1878			14,383 37	9,861 03
do	do	do		1879			15,015 86	10,370 71
do	do	do		1880	266 15		15,362 61	8,997 34
do	do	do	i	1881			17,659 93	10,770 67
do	do	\mathbf{do}		1882			18,804 53	20,813 86
do	$\mathbf{d}o$	do		1883		6,727 44	18,287 77	15,826 7
$\mathbf{d}\mathbf{o}$	do	do		1884	l	3,277 98	19,107 38	16,232 6
do	do	do		1885		7,999 79	18,960 40	14,637 70
do	do	do		1886		8,491 80	19,228 90	14,356 00
do	d o	do		1887		3,633 57	18,867 45	14,999 8
do	do	do		1888		14,411 97	19,325 05	14,285 98
do	do	do		1889		10,993 52	20,019 11	14,982 5
do	do	do		1890			19,847 42	14,999 2
do	do	do	•.1	1891		17,085 68	18,886 86	12,537 39
do	do	do		1892	·	1,696 23	20,050 01	14,599 8
do	do	do		1893			20,348 34	14,107 13
do	do	do		1894		6,547 72	20,574 53	13,903 4
do	do	do		1895	·	27,982 93	20,428 59	12,299 4
do	do	do	• •	1896			20,725 47	15,050 8
	Total				1,611,690 26	177,336 88	479,933 17	370,092 2

LEONARD SHANNON,
Accountant.

STATEMENTS showing the amounts expended on Construction, Renewals, &c.—Con.

ST. LAWRENCE RIVER AND CANALS, SURVEYS, &c.

				Year ending 30th June.	Chargeable to Capital.	Chargeable to Income.
					\$ ets.	\$ cts.
Government expend	diture prior to	Confederat	ion		18,442 85	98,378 46
do	since	do		1868		
do	do	do		1869		
do	do	\mathbf{do}		1870		
do	do	do		1871		
do	do	do		1872		
do	\mathbf{do}	do		1873	33,241 69	
. do	do	do		1874	26,541 30	
do	do	do		1875	20,611 36	
do	\mathbf{do}	dο		1876	50,215 47	
do	do	do		1877	47,377 31	
do	do	do		1878	5,570 46	
do	do	do		1879	9,265 77	
do	do	do		1880	9,214 56	
\mathbf{do}	do	do		1881	6,927 96	
do -	do	do		1882	28,933 45	
do	do	do		1883	44,874 31	<i></i>
do	do	$\mathbf{d}\mathbf{o}$		1884	89,846 03	
do	do	do		1885	115,110 17	
do	do	do		1886	116,051 73	
do	do	do		1887	74,437 31	1
do	do	do		1888	56,482 85	
do	do	do		1889	18,493 92	
do	do	do		1890	23,979 91	
do	do	do		1891	35,137 25	
do	do	do		1892	59,779 31	
do	do	do		1893	52,643 39	
do	do	do		1894	13,721 66	
do	do	do		1895	182,775 75	
do	\mathbf{do}	do		1896	7,457 05	
	Total	 .			1,147,132 82	98,378 46

LEONARD SHANNON,

Accountant.

STATEMENTS showing the amounts expended on Construction, Renewals, &c.—Con.

LAKE ST. LOUIS.

				Year ending 30th	Chargeable to Capital.	Chargesble to Income.
					\$ cts.	\$ cts
vernment expend	liture prior to (Confederat	ion			!
do	since	do		1868		
do	do	dо		1869		
do	do	do		1870		
do	do	do		1871		
do	do	do		1872		
do	do	do		1873		
do	do	do		1874		
do	do	do		1875		
do	do	do		1876		
do	do	do		1877		
do	do	$\mathbf{d}\mathbf{o}$		1878		
do	do	do		1879		
do	do	do		1880		
do	do	do		1881		;
$\mathbf{d}\mathbf{e}$	do	do		1882		
do	do	do		1883		
do	do	do		1884		
do	do	do		1885	.	
do	do	do		1886)	1
do	do	do		1887		
do	do	do		1888		
do	do	do		1889	[
do	dо	do		1890		
do	do	do		1891	1	
do	do	\mathbf{do}		1892		
do	do	do		1893	1	
do	do	$_{ m do}$		1894		
do	do 🔸	do		1895	4,753 14	
do	d o	do ·		1896	49,909 31	
	Total				54,662 45	

LEONARD SHANNON,
Accountant.

STATEMENTS showing the amounts expended on Construction, Renewals, &c.—Con.

CORNWALL CANAL.

			Year ending 30th June.	Capital.	Renewals Chargeable to Income.	Staff.	Repairs.
				\$ ets.	\$ cts.	\$ cts.	\$ cts.
Governmentexpend	liture prior to C	onfederat	ion	1,933,152 69	1		
do	since	do	1868	1,000,102 00	2,786 00	11,244 47	3,774 18
do	go	do	1869	10,692 04		10,347 91	3,859 14
do	do	do	1870	1	17,780 05	10,368 16	7,145 42
do	do	do	1871	1		11,848 39	8,891 61
do	do	do	1872			10,594 30	8,163 70
do	do	do	1873		1,011 75	13,042 25	12,467 65
do	do	do	1874		[13,405 20	7,610 70
do	do	do	1875	1,780 00		13,351 91	7,097 34
do	do	do	1876		1	13,320 61	6,423 67
do	do	do	1877	49,211 37		13,375 70	6,440 54
do	do	\mathbf{do}	1878	145,015 45		13,825 50	4,935 21
do	do	do	1879	143,092 05		13,817 96	4,983 15
$\mathbf{d}\mathbf{o}$	do	do	1880	109,454 95		14,440 33	9,735 76
do	\mathbf{do}	do	1881	53,948 14		15,173 60	5,524 10
do	do	\mathbf{do}	1882	44,587 61		15,052 20	6,634 62
do .	do	do	1883	21,728 93		18,283 67	8,361 71
do	do	\mathbf{do}	1884	23,018 13		18,475 48	9,007 73
\mathbf{do}	do	do	1885	62,034 90	16,298 96	15,988 96	12,368 51
do	\mathbf{do}	do	1886	57,820 83	6,960 95	15,994 80	11,832 83
do	фo	do	1887	46,966 43		17,520 54	12,100 29
do	do	do	1888	67,945 74		16,938 54	13,942 64
фо	do	do	1889	163,9 3 85		17,890 55	58,205 26
do	do	фо	1890	365,038 01	2,000 00	17,063 49	12,758 18
do	do	do	1891	599,001 85	1,459 98	16,077 72	9,830 05
do	do	do	1892	398,555 25	2,345 26	15,596 66	9,864 36
do	do -	· do	1893	352,536 13		15,173 01	9,668 14
ďο	do	do	1894	404,990 22		15,344 02	7,733 54
фо	do	do	1895	450,689 65	21,497 74	15,414 56	13,053 55
do	do	do	1896	448,408 31	2,175 00	15,472 26	25,259 56
Total				5,953,662 53	84,323 40	424,442 75	317,673 14

LEONARD SHANNON,

Accountant.

STATEMENTS showing the amounts expended on Construction, Renewals, &c.—Con.

WILLIAMSBURG CANALS.

			Year ending 30th	Capital.	Renewals Chargeable to Income.	Staff.	Repairs.
				\$ ets.	\$ cts.	\$ cts.	\$ cts.
Governmentexpend	iture prior toC	onfederat	ion	. 1,320,655 54			
do	since	do	186			5,745 97	6,442 41
do	do	do	186			5,769 81	5,670 88
ďο	do	do	187)		5,573 13	6,546 16
do	do	do	187	l		6,382 17	5,308 41
do	дo	do	187	?	1.077 00	5,542 94	3,230 07
do	do	do	187	}		6,424 49	7,347 75
do	do	do	187	l . , , , , , , , , , , , , , , , , , ,	1	6,857 19	7,395 92
do	do	do	187	5 [†]	. 	6,547 62	4,110 29
do	do	do	187	3		7,418 39	11,690 98
do	do	do	187	7	.l	7,388 08	10,053 61
do	do	do	187	3		7,430 11	4,449 78
do	do	do	187)	.]]	7,517 20	3,549 71
do	do	do	188)		7,590 15	3,999 77
do	do	do	188			7,572 35	5,020 73
do	do	do	188			7,589 44	7,447 69
do	do	do	188	3 13 19		7,423 48	7,299 39
do	do	do	. 188	2,473 44	1	7,757 04	7,349 37
do	\mathbf{do}	do	188	5 103,237 12		7,696 67	8,198 03
\mathbf{do}	do	do	188			7,671 54	7,847 05
do	do	dο	188	7 115,853 00		7,635 54	7,904 76
do	do	do	188		1,613 67	7,646 79	8,190 13
do	do	do	188	9 59,867 26	1	7,485 28	8,794 61
do	do	do	189	0 139,078 37	1	8,954 53	8,191 69
do	dο	do	189	1 230,670 60		8,678 25	7,987 40
\mathbf{do}	do	\mathbf{do}	189	$2 \mid 376,545 \mid 32$	797 83	9,458 33	8,551 32
do	do	dο	189	3 372,193 29	3,675 00	8,676 03	8,347 97
do	do	do	189		1	10,230 09	7,029 95
do	\mathbf{do}	do	189			9,675 09	7,371 37
do	do	do	. 189	6 442,121 12	8,607 04	9,588 51	9,036 00
Total		• • • • • • • • • •		4,228,419 71	29,490 90	219,926 21	204,363 20

LEONARD SHANNON,
Accountant.

STATEMENTS showing the amounts expended on Construction, Renewals, &c.—Con.
WELLAND CANAL.

			Year ending 30th June.	Capital.	Renewals Chargeable to Income.	Staff.	Repairs.
				\$ ets.	\$ cts.	\$ cts.	\$ cts.
Imperial Governme	nt			222,220 00			
Government expend	iture prior to Co	onfederatio	n .	7,416,019 83	l		
do	since		. 1868	12,097 84		37,679 05	38,852 96
do	do	do .	. 1869	43,486 36		39,060 61	50,773 03
do	do		. 1870		22,173 72	40,340 45	65,009 19
do	do	do	1871		48,569 10	42,383 33	53,381 02
do	dо	do	1872	53,680 32		37,085 37	50,276 90
do	do	do	1873	82,282 20		45,382 99	66,550 73
do	do	\mathbf{do}	1874	746,420 61		50,966 48	103,666 99
do	do	do	1875	1,047,119 91		52,595 00	88,539 99
do	do	do	1876	1,569,478 19		57,623 31	81,376 12
do	do	do	1877	2,199,962 61		59,963 47	49,783 93
do	do	\mathbf{do}	1878	2,138,392 99	1	60,138 59	66,393 53
do	do	do	1879	1,552,697 41		59,942 23	56,755 57
do	$\mathbf{d}\mathbf{o}$	do	1880	1,252,924 75	·	63,198 10	76,535 25
do	do	do	1881	1,242,943 37	6,593 19	56,398 04	69,249 53
do	do	do	1882	603,402 17	13,664 80	74,641 51	84,374 97
do	do	do	1883	549,433 29	5,979 03	109,207 21	72,707 62
do	do	do	1884	432,336 21		113,276 87	90,926 97
do	do	do	1885	463,505 38		112,670 00	91,534 66
do	do	do	1886	215,380 75	1,359 00	111,660 22	69,507 48
do	do	do	1887	1,071,073 87	3,828 67	109,371 69	77,440 80
do	do	do	1888	429,720 94	10,740 86	110,806 01	86,518 97
do	do	do	1889	225,910 21	43,803 80	113,587 05	77,547 77
do	do	dο	1890	117,633 22	2 51,648 28	109,202 02	72,686 19
do	do	ďο	1891	36,371 03	19,767 73	107,662 63	82,548 30
do	do	do	1892	29,541 21	9,008 80	104,673 73	73,771 87
do	ďο	do	1893	8,259 94	25,103 13	104,926 73	65,016 84
do	do	do	1894	1,571 78			
do	do	do	1895	3,809 3	5 24,245 02		48,270 94
do	do	do	1896	1,677 6	18,768 99	87,988 11	62,542 64
Total.	• • • • • • • • • • • • • • • • • • • •			23,769,353 4	379,433 24	2,264,887 67	2,025,594 47

LEONARD SHANNON, Accountant.

Department of Railways and Canals, Ottawa, 1st November, 1896.

STATEMENTS showing the amounts expended on Construction, Renewals, &c.—Con.

STE. ANNE'S LOCK AND CANAL.

				rear end.		Renewals Chargeable to Income.		Staff.		Repairs.		
					8	cts.	\$	cts.	\$	cts.	\$	cts
Governmentexpend	liture prior to C	onfedera	tion		134.	456 51	l 					
do	since	do		1868						8 16	45	32 47
do	do	do		1869					1.06			73 51
do	do	do		1870					1,13			80 36
do	do	do		1871					1 00		1,53	39 02
do	\mathbf{d} o	\mathbf{do}		1872			1.93	9 46	1,10			93 63
do	do	do		1873				0 11	2,19			64 40
do	do	do		1874	12.	753 27			2,61			08 63
do	do	do		1875		627 71			1,85			06 68
do	do	do		1876	24.	935 85			1,95			33 72
\mathbf{do}	do	do		1877	30,	003 08			1,98	2 65	1,78	56 93
do	do	\mathbf{do}		1878	14,	618 85					5	41 98
\mathbf{do}	do	dο		1879	22,	113 02			2,20		3,2	59 70
do	do	do		1889	3,	054 68	i			2 57	1,70	04 71
\mathbf{do}	do	do		1881	69,	042 76					3,2	57 92
$\mathbf{d}\mathbf{o}$	do	do		1882	193,	158 36	; 	[2,61	1 30	2,3	43 99
do	do	do		1883		959 95			2,56			48 83
\mathbf{do}	ďο	do	i	1884	142,	006 25			2,77	5 32	2,75	25 49
do	dο	do		1885		679 57				8 60	4,0	42 04
do	dο	do		1886	129,	681 67			2,61			03 01
do	do	do		1887	45,	276 08	6,05	4 10	2,53	7 41	1,49	99 96
do	do	do	!	1888	18,	910 55		2 59	2,50	5 61	1,3	80 78
ф	do	do		1889	24,	786 33			2,56	9 22	1,73	EO 79
do	do	do		1890	6,	151 14	1			1 04		25 5
do	do	do		1891			8,17	3 69	2,50	5 69	1,5	03 56
do	do	do		1892	·		25,47	1 61	2,57	1 28	1,6	66 21
dο	do	do		1893			6,52	1 88	2,58	1 08		90 03
\mathbf{do}	do	do		1894				7 56	2,64	0 00	2,79	99 63
do	do	do		1895			3,69	4 33	2,50	8 14		25 91
do	do	do		1896		• • • • •			2,49	5 54	4,9	93 89
Total.					1.170	215 63	57,26	5 33	63,61	5 76	75,3	43 2

LEONARD SHANNON,

Accountant.

STATEMENTS showing the amounts expended on Construction, Renewals, &c.—Con.

CARILLON AND GRENVILLE CANALS.

			Year ending 30th June.	Capital.	Renewals Chargeable to Income.	Staff.	Repairs.
				\$ cts.	\$ cts.	\$ cts.	\$ cts.
Governmentexpend	liture prior to C	onfederati	on	63,053 64			
do	since	do	1868		19,817 22	6.301 88	8,911 28
do	do	do	1869			6,549 38	10,157 42
do	do	do	1870		4,167 96	6,617 81	9.852 09
do	do	do	1871		23,119 37	8,676 90	8,218 24
do	do	do	1872	165,257 28		8,324 51	17,235 31
do	do	do	1873	133,199 10	3,051 38	10,068 28	8,781 50
do	do	do	1874	245,258 38		10,710 88	10,605 82
do	do	do	1875	339,864 76		10,378 57	18,520 44
do	do	do	1876	326,203 16		10,764 38	11,475 96
do	do	$\mathbf{d}\mathbf{o}$	1877	245,738 04		11,050 27	10,304 06
do	do	do	1878	22,676 20		11,401 30	5,082 72
do	do	do	1879	243,141 24		11,501 22	7,629 98
do	. d o	\mathbf{do}	1880	281,514 27		11,959 14	7,625 54
do	do	\mathbf{do}	1881	336,707 53	l	13,059 18	8,076 91
do	$\mathbf{d}\mathbf{o}$	do	1882	433,084 39		14,387 49	7,582 68
do	do	dο	1883	433,575 10		17,479 58	8,310 02
do	do	\mathbf{do}	1884	399,267 16		17,393 91	7,918 42
do	\mathbf{do}	do	. 1885	157,187 72	1	19,702 30	10,429 26
do	dο	\mathbf{do}	1886	104,973 24	75 00	20,597 82	9,303 31
do	do	do	1887	20,747 11		20,011 36	10,554 41
do	do	do	188×	38,996 29		21,531 12	10,036 62
do	do	do	. 1889	298 17		22,098 88	10,135 66
do	do	do	1890	17 58	4,526 61	15,896 16	7,582 38
do	do	do	1891		4,395 25	21,230 22	10,796 68
do	do	do	1892	34,585 64	15,036 48	17,458 69	8,620 18
$\mathbf{d}\mathbf{o}$	do	do	1893	207 00	42,298 74	16,762 71	10,669 28
do	do	do	1894	385 55	20,034 94	14,144 98	11,620 09
do	do	dο	1895		5,963 76	15,453 21	12,303 25
do	do	do	1896	3,850 31		13,995 69	12,161 10
To	otal			4,029,788 86	142,486 71	405,507 82	290,500 58

LEONARD SHANNON,

Accountant.

STATEMENTS showing the amounts expended on Construction, Renewals, &c.—Con.

CULBUTE LOCK AND DAM.

				Year ending 30th	June.	Capital.	Renewals Chargeable to Income.	Staff.	Repairs.
						\$ cts.	\$ cts.	\$ cts.	S cts.
Government ex	penditu	re since C	onfederatio	n. 186	8				
do		do	do	186	39				
do		do	do	187					
do		do	do	187	1				
do		do	do	187					
do		dо	do	187	73		835 53		
do		do	do	187	4		38,388 99		
do		do	do	187	75	63,659 29			
do		do	do	187	6	76,842 44			
do		do	do	. 187	77	56,081 87			
do		dо	do	187		5,933 53			
do		do	do	187		20,694 19			
do		do	do	188		16,688 20		202 50	259 31
do		do	do	188		4,721 62		962 85	
do		do	do	188		29,567 15		790 00	162 33
do		ďο	dο	188		14,249 60		695 00	288 99
do		$\mathbf{d}\mathbf{o}$	do	188		8,151 16		733 50	200 00
do		do	do	188		19,071 76		730 00	572 75
do		do	do	188		26,385 27		730 00	2,396 14
do		do	do	188		7,760 88	• • • • • • • • • • • • • • • • • • • •	730 00	967 33
do		do	do	. 188		7,573 99		739 50	730 60
do		do	do	188		17,112 01		1,050 00	116 53
do		do	do	. 189		2,818 35		747 83	110 00
do		do	do	189		2,183 15	9.122 05	745 25	499 91
do		do	" do	189		-,100 10	1,546 25	736 00	100 01
do		do	do	189			1,420 65	749 00	13 55
do		do	do	189			2,540 14	730 00	494 43
do		do	do	189			1,475 26	436 05	434 28
do		do	do	189		•••••			
	Total		· · · · · · · · · · · · · · · · · · ·			379,494 46	55,328 87	11,507 48	6,936 15

LEONARD SHANNON,
Accountant.

STATEMENTS showing the amounts expended on Construction, Renewals, &c.—Con.
RIDEAU CANAL.

			Year end-	ing 30th June.	Capital.	Renewals Chargeable to Income.	Staff.	Repairs.
					\$ cts.	\$ cts.	\$ cts.	\$ cts.
Imperial Governm	ent				3,911,701 47			
Government expend	liture prior to	Confeder	ation	. .	153,062 60			
do	since	do	1	1868		7,298 12	18,397 28	16,475 21
do	do	do	1	1869			19,250 71	13,140 77
do	do	do		1870		13 16	20,022 37	19,469 33
do	do	do	1	1871		11,732 98	22,814 58	18,120 52
do	do	do	1	872		4,967.50	22,139 48	14,005 32
do	do	do	1	1873		18,070 97	22,841 51	26,074 49
do	do	do	1	874		5,793 16	26,815 44	22,957 40
do	do	do	1	1875	9,310 85		26,553 37	19,699 81
do	do	do	1	876	2,163 96		26,430 77	14,428 25
do	do	do	1	1877	214 11		25,959 56	14,198 18
do	do	• do		878			26,651 51	11,034 22
do	do	do	1	879	7,703 88		26,042 52	7,134 55
ob	do	do	1	1880			26,463 88	11,434 05
do	do	do	1	1881		133 50	26,024 71	8,627 00
do	do	do	1	882			26,915 29	13,860 28
do	do	do	1	883		70 65	27,322 81	23,524 84
do	do	do	1	884		4,597 50	26,938 95	19,245 02
do	do	do	1	1885		2,098 76	26,971 32	18,189 55
do	do	do	1	1886		550 00	27,045 95	35,648 04
do	do	do		887		20,823 96	29,440 46	18,565 34
do	do	do		1888		18,889 48	33,458 83	25,478 87
do	do	do	1	1889	l !!!!!	6,665 22	33,801 77	18,106 36
do	do	do		890		21,124 10	34,270 57	18,025 21
do	do	do		891		20,967 25	34,641 98	21.537 56
do	do	do		892		31,363 23	35,500 82	21,507 16
do	do	do		893		24,274 71	35,022 49	18,789 50
do	do	do		894		14,485 11	34,943 35	16,939 47
do	do	do		895		31,559 48	33,827 08	19,897 32
do	do	do		896		21,452 29	34,052 77	30,196 38
	Total		-		4,084,156 87	266,931 13	810,562 13	536,310 00

LEONARD SHANNON,
Accountant.

Department of Railways and Canals, Ottawa, 1st November, 1896.

STATEMEN'S showing the amounts expended on Construction, Renewals, &c.—Con.
ST. OURS LOCK.

			Year ending 30th	June.	Capital.	Renewals Chargeable to Income.	Staff.	Repairs.
					\$ cts.	\$ ets.	\$ cts.	8 cts.
Government expend	liture prior to	Confeder	ation		121,537 65			
do	since	do	186				1,532 75	753 74
do	do	do	186		. .		1,755 15	1,399 18
do	do	do	187	0			1,458 09	1,006 22
do	do	do	187	1 .			1,414 48	1,210 98
do	do	do	187	2			1,565 80	1,263 19
do	do	do	187	3			2,076 50	1,575 10
do	de	do	. 187	4			2,219 13	2,363 42
do	do	do	187	5			1,362 22	1,245 69
do	do	do	187	6			1,403 92	1,601 71
do	do	do	187	7			1,533 40	750 80
do	do	do	187	8	. 		1,556 65	283 77
do	do	do	187	9		0	1,581 55	456 07
do	do	do	188	0			1,614 01	705 54
do	do	do	188				1,741 97	1,299 77
do	do	do	188	2			2,002 71	1,902 41
do	do	do	188				2,361 65	2,188 08
do	do	do	188			5,279 17	2,315 37	1,494 99
do	do	″ do	188			4,700 64	2,271 57	3,652 63
do	do	do	188		· · · · · · · · · · · · · · · · · · ·		2,311 70	4,143 47
do	do	do	188		. .	. ;	2,175 37	5,864 78
do	do	do	188				2,216 04	2,801 17
do	do	do	188			17,964 45	2,421 14	2,002 63
do	do	do	189	W		. 24,571 96	2,138 40	1,935 44
do	do	do	189	1		21,696 74	2,011 08	4,460 16
do	\mathbf{do}	do	189			3,585 34	2,168 44	1,944 33
do	\mathbf{do}	do	189				2,136 66	1,994 34
do	do	do	189				2,216 68	924 55
do	do	do	189				2,161 63	915 50
do	dο	\mathbf{do}	. 189	6			2,094 91	1,678 49
,	Total				121,537 65	95,028 62	55,818 97	53,818 15

LEONARD SHANNON,

Accountant.

Statements showing the amounts expended on Construction, Renewals, &c. -Con.

CHAMBLY CANAL.

			Year ending 30th June.	Capital.	Renewals Chargeable to Income.	Staff.	Repairs.	
				\$ cts.	\$ cts.	\$ cts.	\$ cts.	
Government expe	enditure prior to	Confederation	m	634,711 76	l			
do	since		. 1868	l		8,312 90	9,355 70	
do	do	do .	. 1869		1	8,437 22	13,120 97	
do	do	do	1870			8,934 41	20,180 73	
do	do	do	. 1871		2,839 85	10,214 71	22,426 33	
do	de	do	1872		1,906 40	9,628 50	22,327 99	
do	do	do	1873		759 00	10,390 44	11,789 27	
do	do	\mathbf{do} .	1874		2,810 00	11,675 67	16,427 19	
do	do	do	1875	2,415 00		12,201 99	16,306 91	
do	do	\mathbf{do}	1876	1	:	10,593 14	13,273 56	
do	do	do	1877	80 00		10,281 78	10,111 32	
do	do	do	1878			10,413 99	6,022 96	
do	do	do	1879			11,301 53	8,809 77	
do	do	\mathbf{do}	1880			11,516 22	12,377 74	
do	do	do	1881			13,950 47	20,705 17	
do	do	do	1882	·	31,796 41	16,686 78	16,843 60	
do	do	$\mathbf{d}\mathbf{o}$	1883		21,332 36	15,904 38	15,182 24	
do	do	do	1884		41,640 77	18,448 85	12,003 34	
do	do	do	1885		21,049 23	18,378 55	13,046 95	
do	\mathbf{do}	do	1886		14,547 27	19,501 28	11,999 77	
do	do	do	1887		17,911 17	19,053 62	20,071 37	
do	do	$\mathbf{d}\mathbf{o}$	1888		65,536 64	20,073 60	11,823 74	
do	do	do	1889			19,679 22	19,392 18	
do	do	do	1890		23,221 48	19,655 38	14,399 93	
do	do	\mathbf{do}	1891	1	43,344 41	19,204 76	11,399 93	
do	do		1892			19,665 22	12,976 48	
do	\mathbf{do}	do	1893		21,127 65	19,310 29	12,451 03	
do	do	do	1894		8,567 78	19,040 93	11,920 74	
do	do	do	1895		6,147 63	19,325 49	11,779 12	
do	do	do	1896		3,694 63	19,349 65	11,801 12	
T	otal			637,206 76	418,024 54	431,130 97	410,327 15	

LEONARD SHANNON,

Accountant.

 ${\tt Statements \ showing \ the \ amounts \ expended \ on \ Construction, \ Renewals, \ \&c.-Con.}$

MURRAY CANAL.

			Yearending 30th	Capital.	Renewals Chargeable to Income.	Staff.	Repairs.
				\$ cts.	\$ cts.	\$ cts.	\$ ets.
Government exper	diture prior to	Confedera	t'n				}
do	since	do	1868		400 00		
do	do	\mathbf{do}	1869				
do	do	do	1870			 .	
do ·	do	do	1871				1
do	do	do	1872				
do	do	do	1873				
do	do	do	1874				
$\mathbf{d}\mathbf{o}$	do	• do	1875			l 	
do	do	do	1876		, 	! 	l
do	do	do	1877				1,
do	do	do	1878	1	: ! • • • • · • • • • • • •		1
do	do	do	1879				1
do	do	do	1880				
do	do	do	1881				
do	do	do	1882	7,135 63			
do	do	do	1883	84,071 68			
do .	do	do	1884	118,187 43			
do	do	do	1885	148,902 66			1
do	do	do	1886	179,704 52		1	
do	do	do	1887	142,563 66			
do	do	do	1888	146,754 37			1
do	do	do	1889	215,326 46			
do	do	do	1890	106,760 35		494 31	
do	do	do	1891	61,260 49		5,137 03	173 53
do	do	do	1892	5,964 22		5,803 48	3,505 15
do	do	do	1893	30,838 79		5,499 62	5,341 34
do	do	do	1894	00,000 10		5,667 52	5,295 57
do	do	do	1895	1	1	5,354 97	5,063 49
do	do	do	1896			5,409 10	5,410 33
Tot	al	·······		1,247,470 26	400 00	33,366 03	24,789 41

LEONARD SHANNON,

Accountant.

STATEMENTS showing the amounts expended on Construction, Renewals, &c.—Con.

TRENT CANAL.

			Year ending 30th June.	Capital.	Renewals Chargeable to Income.	Staff.	Repairs.
				\$ cts.	\$ ets.	\$ cts.	\$ cts.
Governmentexp	enditure prior to Cor	federation		309,371 31			Í
qo,	since	d o	1868				
do	do	do	1869				
do	do	do	1870			1	1
do	do	do	1871		.		1
do	do	do	1872	l	1		
do	do	do	1873				
do	do	do	1874	l			
$\mathbf{d}\mathbf{o}$	\mathbf{do}	d o	1875			1	
do	do	do	1876			l	
do	d o	do	1877	<i>.</i>	.f	l	
do	do	do	1878		1		l
do	do	dο	1879		.		.
do	$\mathbf{d}\mathbf{o}$	do	1880	561 50	l <i></i>	1,188 92	3,568 89
do	\mathbf{do}	do	1881			2,489 93	2,233 50
do	d o	do	1882		. 5,836 51	2,011 92	8,115 50
do	$\mathbf{d}\mathbf{o}$	do	1883	40,767 16	9,303 66	2,235 50	3,047 42
do	do	do	1884	120,393 91	6,198 57	2,208 64	5,264 35
do	do	do	1885	121,382 84	[3,303 87	4,653 50
do	$\mathbf{d}\mathbf{o}$	do	1886	75,103 30		1,639 75	5,917 88
do	$\mathbf{d}\mathbf{o}$	do	1887	179,541 63		1,938 08	6,008 88
do	$\mathbf{d}\mathbf{o}$	do	1888	114,879 35		1,770 29	5,151 42
do	\mathbf{do}	do ,.	1889	47,592 13	29,677 92	3,242 05	5,935 94
do	\mathbf{do}	do	1890	58,644 50	11,522 65	3,450 99	730 55
do	$\mathbf{d}\mathbf{o}$	do	1891	9,826 49	3,164 81	3,803 66	4,888 98
do	do	do	1892	4,457 28	6,506 97	3,695 85	4,721 85
do	do	do	1893	5,962 47	10,838 90	3,739 86	2,087 17
do	do	do	1894	3,412 32	20,403 93	3,785 47	4,988 59
do	do	do	1895	53,907 70	21,143 41	4,184 18	3,374 49
do	do	do	1896	392,976 08	6,185 75	4,349 34	3,329 97
	Total			1,538,779 97	130,783 08	49,038 30	74,018 88

LEONARD SHANNON,

Accountant.

Department of Railways and Canals, Ottawa, 1st November, 1896. STATEMENTS showing the amounts expended on Construction, Renewals, &c.—Con.

TAY CANAL.

				Year ending 30th June.	Capital	l.	Renev Charge to Incor	Staff.		ff.	Rep	airs
			.]		\$ ct	ts.	\$	cts.	\$	cts.	\$	cts.
Government expendi	ture since Co	onfederat	tion.	1868								<i></i> .
do	do	do		1869	• • • • • • •	\					İ	
do	$\mathbf{d}\mathbf{o}$	do		1870					l		l	
do	do	do		1871								
do	do	do		1872					l			
do	\mathbf{do}	do		1873								
dο	\mathbf{do}	do		1874		1			i		l	
do	do	do	!	1875		1						
do	\mathbf{do}	do	. ,	1876			<i></i>		1	. 		
do	dο	do		1877								
do	\mathbf{do}	do		1878				·	l			
do	do	do		1879					 .			
do	do	do		1880				.				
do	do .	do		1881					1 .		l . .	
do	$\mathbf{d}\mathbf{o}$	do		1882			74	8 65				
do	do	do	٠ا	1883	4,831	80						
do	do	do		1884	50,878	12			l		l	
do	do	do	!	1885	92,473	97	<i></i>					
do	do	do		1886	65,561	51	. 				l	
do	do	do		1887	49,617	92	<i>.</i>					
do	do	do		1888	54,166							
do	do	do		1889	89,486	18			1		1	
do	do	do		1890	22,226				*		*	
do	do	do		1891	17,114				*		*	
do	do	do		1892	29,771		l		*		*	
do	do	do		1893					*		*	
do	do	do		1894					*		*	
do	do	do		1895					*		*	
do	do	$\overline{\mathbf{do}}$		1896					*		*	
То	tal	 .			476,128	73	74	18 65				

^{*} Included in Rideau Canal.

LEONARD SHANNON,

Accountant.

STATEMENTS showing the amounts expended on Construction, Renewals, &c.—Con.

SAULT STE. MARIE CANAL.

				Year ending 30th	Capi	tal.	Renewals Chargeable to Income.		Chargeable Staff.		Repairs.	
					8	cts.	\$	cts.	\$	cts.	\$	cts.
Government expe	enditure since Co	nfederat	ion.	1868			[l	
do	do	do		1869			Ì		1		1,	
do	do	do		1870							l	
do	do	do		1871	. 	<i>.</i>	1					
do	do	do		1872			94	9 35				
do	dο	do	1	1873] <i></i>)	
do	do	do		1874	 .							
do	do	do		1875							i	
do	$\mathbf{d}\mathbf{o}$	do	1	1876			1				l	
\mathbf{d} o	do	do		1877								
do	do	do		1878								
do	do	do		1879								
do	do	do		1880								
do	do	do		1881			l					
do	do	do		1882								
do	do	do		1883								
do	do	do		1884								
do	do	do		1885								
do	do	do	- 1	1886			' ' ' '					
do	do	do	1	1887								
do	do	do		1888	8.14	15 06						
do	do	do		1889		18 95						
do	do	ďυ		1890	176,50							
do	do	do		1891	325,3						i	• • • • •
do	do	do		1892	341,4		!					
do	do	do		1893	589,8		1			 .		
do	do	do			1,316,5						l	
do	do	do		1895	466,1	51 50	1		3,43	2 73		
do	do	do		1896	189,9					74 70	2,6	50 17
•	Total				3,448,0	11 83	9	19 35	19,50	07 43	2.6	50 17

LEONARD SHANNON,
Accountant

STATEMENTS showing the amounts expended on Construction, Renewals, &c.—Con.

SOULANGES CANAL.

			Year ending 30th June.	Capital.	Renewals Chargeable to Income.	Staff.	Repairs.
				\$ cts.	\$ cts.	\$ cts.	\$ cts.
Government expend	diture prior to	Confedera	t'n				
do	since	do	1868				
do	do	do	1869		·		<i></i>
do	do	do	1870				
do	do	do	1871			l	
do	do	do	1872	 			
do	do	do	1873]
do	do	do	1874				
dο	\mathbf{do}	do	. 1875				
do	do	do	1876				
do	do	do	1877				
do	do	do	1878				
do	do	do	1879				
do	do	do	1880				
do	do	do	1881			1	·
do	do	do	1882				
do	сo	do	1883				
do	do	do	1884				
do	do	do	1885				
do	d o	do	1886				'
do	do	do	1887				·
do	do	do	1888				
do	do	₫o	1889			1	
do	do	do	1890			ļ	
do	фo	do	1891				
do	do	do	1892	54,235 76			
do	do	do	1893	210,336 24		1	
do	do	do	1894	723,380 95			
do	do	do	1895	752,016 53		1	
do	do	do	1896	535,939 07	'		
To	tal	. 		2,275,908 5	5		

LEONARD SHANNON,
Accountant.

I		ending 30th June.	Capital.	Income.	Staff.	Repairs.	Revenue received.
	1		es cts	e cts.	e cts.	s cts.	es cts.
ernment expenditure prior t Government	Government expenditure prior to Confederation, including Imperial Government		20.593.866 13				
liture since	Confederation	1868	33,617 56	95.347 79			
\mathbf{r}		1869	126,898 20	25 00			
op op		1870		90.355.96			
		1871		116,429,54			
op op	•	1879	955 645 75	33 989 97			
		1873	956 547 97	197 369 55			
op op	•	1874	1 189 591 91	51,037,05			
	•	100	1,100,001,01	470 00			
_		0/01	1, 114,000 0	47.9 CO			
		1876	2,388,733 46	810 75			
		1877	4,131,374 30	- 25 25 26 27			
	•	1878	3,843,338 62				
	•	1879	3,064,098 61				
do do	•	1880	2,123,366 34				
do	•	1881	2,075,891 65	7.246 69			
op	•	1882	1,593,174 09	55,025 03			
op op		1853	1,763,00; 97	62,503 14			
	•	1884	1,577,295 42	60,993 99			
	•	1885	1,504,621 47	58,297 59			
op op	•	1886	1,333,324 80	31,984 02			
		1887	1,783,698 16	65,983 06			
do do	•	1888	1,033,118 34	120,561 59			
op op	•	1889	972,918 43	162,015 49			
op	•	1890	1.026,364 24	146,853,54			
		1881	1.318.092 15	165 843 87			
op op	•	1892	1,437,149 30	194,129 61			
do do	•	1893	2,069,573 30	196,185,84			
		1894	3 097 164 19	109 216 33			
. op		1895	2,452,273,65	216,057,58			
do do		1896	2,258,778 97	85,820 49	292,121 05	209,321 60	339,538 72
	-						
Total			* 66.948.348 65	*2.352.999.63	*6 476 705 95	*5 103 787 41	10 917 796 74

This does not include expenditure which has been charged o Canals—General—but amounts expended on specified Canals. DEPARTMENT OF RAILWAYS AND CANALS,
OTTAWA, 1st November, 1896.

LEONARD SHANNON,
Accountant.

25

CANALS,

DR.

Collectors of Canal Tolls

		CANAL R	REVENUE.				
Balance due by Collectors, July 1st, 1895.	Tolls.	Wharfage and Storage.	Fines.	Other Receipts including Harbour dues on Welland Canal.	Total Canal Rev- enue accrued.	Hydraulic Rents, &c.	Total.
\$ cts.	\$ cts.	\$ ets.	\$ cts.	\$ cts.	\$ cts.	\$ ets.	8 cts.
••••	90,920 88 50,491 59 235 15 20 92 8 35 791 25 43 39		30 00 90 00	36 08 71 95	90,986 96 50,653 54 235 15 20 92 8 35 801 25 43 39	770 50 1,230 65 1,068 34 6,120 02 5 00	91,757 46 51,884 19 1,303 49 20 92 8 35 6,921 27 48 39
	142,511 53		130 00	108 03	142,749 56	9,194 51	151,944 07
	1,854 58 25,840 22 742 43 2,039 73 21,227 09 9,053 78 60,757 83	17 10 3,016 04 3,033 14	5 00 25 00 10 00 40 00	4 00 8 00 1,333 42 14,076 86 	1,863 58 25,873 22 752 43 3,390 25 38,359 99 9,053 78 79,293 25	2,809 00 6,960 00 979 00 30,215 05 40,963 05	4,672 58 32,833 22 1,731 43 3,390 25 68,575 04 9,053 78 120,256 30
0 77	13,016 26 13,212 26 577 72 26,806 24		7 00 2 00 9 00		13,023 26 13,213 03 579 72 26,816 01	140 00 50 00 190 00	13,163 26 13,263 03 579 72 27,006 01
	20,000 24				20,010 01	130 00	27,000 01
	19,782 17 11,096 91 60 50 1,151 35			8 00	19,782 17 11,104 91 60 50 1,153 55	13 00 43 00	19,782 17 11,117 91 103 50 1,153 55
	32,090 93			10 20	32,101 13	56 00	32,157 13
	3,826 99 1,434 34 536 80	51 94		266 50 9 20	4,145 43 1,434 34 546 00	501 75 382 50 58 20	4,647 18 1,816 84 604 20
	5,798 13	51 94		275 70	6,125 77	942 45	7,068 22
	1,248 38				1,248 38		1,248 38
	1,248 38				1,248 38		1,248 38

1895–96.

in Account with Revenue.

	CREDIT	D TO THE OF THE GENERAL.		Cost
Collection Divisions.	On account of Canal Revenue.	On account of Hydraulic Rents, &c.	Total.	of Staff, Repairs and Offices of Collection.
	\$ cts.	\$ ets.	\$ cts.	\$ cts.
Welland Canal. Port Colborne. Port Dalhousie. Dunnville. Port Maitland. Port Robinson.	20 92 8 35	770 50 1,230 65 1,068 34	91,757 46 51,884 19 1,303 49 20 92 8 35	154,907 90 3,742 69 2,503 00 782 00 600 00
St. Catharines Chippawa	801 25 43 39	6,120 02 5 00	6,921 27 48 39	193 07 130 0 0
	142,749 56	9,194 51	151,944 07	162,858 66
St. Lawrence Canals. Beauharnois. Cornwall Cardinal Lachine Montreal Kingston	9,003 78	2,809 00 6,960 00 979 00 30,215 05	4,672 58 32,833 22 1,731 43 3,390 25 68,575 04 9,053 78 120,256 30	184,711 87 1,534 52 2,113 91 1,310 10 2,232 53 8,872 70 1,201 72 201,977 35
	79,293 25	40,905 05	120,200 30	201,377 33
Chambly Canal. Chambly St. Johns St. Ours	13,023 26 13,213 03 579 72	140 00 50 00	13,163 26 13,263 03 579 72	34,924 17 1,609 52 1,694 50 615 43
	26,816 01	190 00	27,006 01	38,843 62
Ottawa Canal Ottawa Grenville Carillon St. Anne's Locks	19,782 17	13 00 43 00	19,782 17 11,117 91 103 50 1,153 55	33,646 22 1,156 22 852 19 850 49
	32,101 13	56 00	32,157 13	36,505 12
Rideau Canal. Ottawa. Kingston Mills Smith's Falls.	4,145 43 1,434 34 546 00	501 7 5 382 50 58 2 0	4,647 18 1,816 84 604 20	65,744 95 2,407 97 449 75 339 15
······· Totals ·····	\	942 45	7,068 22	68,941 82
St. Peter's Canal	. 1,248 38		1,248 38	2,442 94 230 29
				2,673 23

CANALS,

DR.

Collectors of Canal Tolls in

		CANAL 1	REVENUE.				
Balance due by Collectors, July 1st, 1895.	Tolls.	Wharfage and Storage.	and Fines.		Other Receipts including Harbour dues on Welland Canal.		Total.
\$ cts.	\$ ct	s. \$ cts	. \$ cts.	\$ cts.	\$ ets.	\$ cts.	\$ cts.
	75 2 476 9 65 0 35 7 265 2 147 9	1		165 00 1 00 0 75	75 25 641 94 66 05 36 46 265 20 147 96	51 00 3 00	75 25 641 94 117 05 36 46 268 20 147 96
•••••	1,066 1			166 75	1,232 86	54 00	1,286 86
	522 1 522 1	_			522 12 522 12	4 00	526 12 526 12
						10 00	10 00
77	270,801 2	7 3,085 08	219 00	15,982 96	290,089 08	51,414 01	341,593 09
					1,964 37		1,964 37
					288,124 71	[339,538 72

1895-96.

Account with Revenue—Concluded.

Cr.

	CR	EDIT	D TO THE OF THE GENERAL			Cost			
Collection Divisions.	On acco of Car Revenu	nal	Hydrau	account of Hydraulic Rents,				of Staff, Repairs and Offices of Collection.	
	8	ets.	8	cts.	\$	ets.	*	cts.	
Trent Valley Canal Burleigh Bobcaygeon Fenelon Falls Hastings Peterboro' Buckhorn	641 66	25 94 05 46 20		00	641 117 36 268	25 94 05 46 20 96	12	31 45 40 00	
Totals	1,232	86	54 	00	1,286	86	7,744	16	
Murray Canal. Brighton. Totals.	522 			00		12	11,060 322 11,383	86	
Sault Stc. Marie			10	00	10	00	19,329	77	
Dredge vessels Inspection Department of Printing and Stationery General		• • • •	• • • • • • • • • • • • • • • • • • • •		ì		8,744 2,358 1,221 9,201	51 66	
	290,089	08	51,414	01	341,503	09	21,525	57	
····Less Refunds	1,964	37		· • • •	1,964	37	*571,782	87	
····. Net Revenue	288,124	71			339,538	72			

^{*}The above amount does not included expenditure under Capital or Income.

LEONARD SHANNON,

Accountant.

HYDRAULIC AND OTHER RENTS.

Cr.	Total.	\$ cts. 37,997 05 4,344 62 8,657 50 10,902 50 54,010 29 466 84 6,744 09 205 00 354 18	10,000,001
	Balance,	\$ cts. 28,132 79 3,365 62 1,697 56 8,998 24 23,598 24 2,717 89 77 00 8,830 56	oo orotoo
	Paid into hands of Collectors.	\$ cts. 9,194 51 979 00 6,969 00 2,869 00 30,215 05 190 00 942 45 124 00	10 1111 01
5–96.	Abate- ment.	\$ cts. 669 75 200 00 3,083 75 4 00	00 100 %
SUMMARY Statement of Lessees' Accounts-1895-96.	NAME OF WORK.	\$ cts. Welland Canal 344 62 Williamsburg Canal 667 50 Cornwall do 902 50 Beauharnois do 466 84 Chambly do 205 60 Sundry do 384 18 Land sales, Intercolonial Railway Totals	
	Total.	\$ cts. 37,997 05 4,344 62 8,657 50 10,9857 50 10,0857 64 10,0857 66 10,744 09 205 00 354 18	
	Accrued during the year ended 30th June, 1896.	\$ cts. 8,389 50 980 00 4,145 00 3,010 00 31,137 49 1,806 85 1,26 00	
Dr.	Balance due lat July, 1895.	\$ cts. 29 607 55 3.364 62 3.364 62 4.512 50 7.872 80 80 00 354 18 354 18	

Accountant. LEONARD SHANNON,

OTTAWA, 1st November, 1896. DEPARTMENT OF RAILWAYS AND CANALS,

STATEMENT showing Refunds Canal Tolls paid during the Year 1895-96.

Date.	To whom paid.	Refund of Tolls on	Canals.	Amount.	Total.
1895.				\$ cts.	\$ cts.
Aug. 29	John Heney	Wood	Rideau	361 45	
Nov. 8 do 8	J. Le Michaud E. A. Middlemiss Ottawa Transportation Co	Excess of tolls Overpaid on steamer Unused "Let Pass"	do	66 82 12 20 2 33	361 45
	Montreal Transportation Co Kingston and Montreal Transpor- tation Co	Cement and lumber Grain	do	68 41 50 07	•
1896.			u	0. 0.	
do 10	Richelieu and Ontario Navigation Co Poupore & Fraser	Paid twice on passengers Cement	do do	30 00 29 51	
March 4	Prosper La Plante	Paid twice on passengers	do	24 00 160 87	
	Owners' steamer "Passport" Montreal Transportation Co	Unused "Let Pass" Material for Government		2 72	
	Edward Verrille Kingston and Montreal Forward-	Works Unused "Let Pass"	do do	58 97 4 73	
do 29	Jas. Carruthers	Coal	do	197 25 385 02	
1895.					1,092 90
Oct. 17	Ottawa River Navigation Co	Paid twice on "Duchess York"	Lachine	23 50	
	The Calvin Co	Timber	do	31 35	
1895.	Export Co	Coal	do	87 72	142 57
Nov. 8	McArthur & Son	Lumber	Beauharnois	6 00	6 00
1896.		!			0.00
	Kingston and Montreal Forward- ing Co	Corn	Welland	31 50	
June 3	G. Morden Joseph Miller M. Julian	Lumber	do	54 00 2 63 28 58	***0
Feb. 28 April 21	Jos. MichaudOgdensburg Transit Co	do do	Cornwall do	61 36 115 50	116 71
June 9	Montreal Transportation Co	do	Williamsb'g	67 88	176 86
					67 88
			1,		1,964 37

LEONARD SHANNON,

Accountant.

INTERCOLONIAL RAILWAY.

(Including amounts paid to Nova Scotia Railway and European and North American Railway, N.B.)

				Year.	Construction.	Working Expenses including Windsor Branch Railway.	Revenue received, includin Windsor Branch Railway.
		•			\$ ct	s. \$ cts.	\$ ets.
Expenditu	e prior to	o Confeder	ation		10,766,725 5	64	
do	since	do		1868	483,353 6		420,752 58
do	do	do		1869	282,615 1		455,022 76
do	do	dο		1870	1,729,381 4	19 445,208 75	471,245 09
do	do	do		1871	2,916,782 1		565,713 52
do	do	do		1872	5,131,141 5		622,900 56
do	. qo	do		1873	5,201,450 3	1,011,892 60	703,458 26
do	do	do		1874	3,614,898 8	1,847,175 24	893,430 17
do	do	do		1875	3,426,099 5		861,593 43
do	do	do		1876	1,108,321 5		848,861 46
do	do	do		1877	1,318,352 1	9 1,661,673 55	1,154,445 35
do	do	do		1878	408,816 7		1,378,946 78
do	do	\mathbf{do}		1879	226,639 1	9 2,010,183 22	1,294,099 69
do	do	do		1880	2,048,014 6	30 1,607,956 70	1,520,310 45
do	do	do		1881	608,732 8	30 1,780,353 53	1,777,856 76
do	do	do		1882	585,568 7		2,100,315 85
do	\mathbf{do}	do		1883	1,616,632 9		2,395,034 99
do	do	do		1884	1,405,377 5		2,376,666 19
do	\mathbf{do}	do		1885	1,195,363 0		2,392,605 00
do	do	do		1886	544,958 1		2,406,858 88
do	do	do		1887	. 823,070 8		2,621,337 41
do	do	do		1888	742,203 0		2,937,337 40
do	do	фо	• • • •	1889	655,228 1		2,923,736 46
do	do	\mathbf{do}		1890	365,246 4		2,958,243 38
ďο	do	do		1891	79,929 3		3,007,630 51
do	do	ďο	• • • •	1892	168,101 7		2,978,950 82
do	do	do	••••	1893	228,984 7		3,099,815 20
φo	do	ďο		1894	166,362 4		3,020,485 74
ďο	do	фо		1895	327,034 5		2,979,795 59
do	do	do	• • • • •	1896	259,105 2	3,029,304 08	2,994,201 93
	Total				*48,434,492 4	9 60,606,392 59	54,161,652 21

^{*} Including \$296,872.90 charged to "Consolidated Fund."

LESS amounts transferred from Capital to Consolidated Fund as follows:-

	Nova Scotia Ry.	European and North American Ry.
1868	§ 16.800 99	\$ 11,302 89
1870	34,403 45	1,749 21
1871	50,405 69	******
1873	106,899 59	75,311 08
- -	208,509 72	\$ 83,363 18
_		208,509 72
		200,009 (2

200,000 12	296,872 90
Cape Breton Railway Oxford and New Glasgow Railway Eastern Extension Railway	1,945,497 69

Total Capital cost of Intercolonial Railway system..... \$55,267,044 63

LEONARD SHANNON,

Accountant.

EASTERN EXTENSION RAILWAY.

				Year.	Capital.	Working Expenses.	Revenue received.
					\$ cts.	\$ cts.	
Government expend	liture prior to	Confederat	tion				
do	since	do		1868			
do	do	do		1869			
do	do	dσ		1870		,	
do	do	do		1871			
do	do	do		1872		,	
do	do	do		1873			
do	do	do		1874			
do	do	do		1875			
do	\mathbf{do}	do		1876			
do	do	do		1877			
do	do	do		1878			
do	do	do		1879			
do	do	do		1880			
do	do	do		1881			
do	ďο	do		1882			
do	do	do		1883			
do	do	do		1884	1,284,311 97	10,033 77	30,767 66
do .	do	do		1885	2,055 92	78,273 65	73,050 01
do	$\mathbf{d}\mathbf{o}$	do		1886	183 79	94,756 06	66,893 11
do	do	do		1887		94,254 04	64,107 10
do	do	do		1888		90,954 73	70,552 20
do	do	do		1889	34,235 73	90,719 04	72,436 65
do	do	do		1890		79,102 77	84,658 95
do	do	do		1891	3,255 40	!	1 +
do	do	do		1892		. *	†
do	do	do		1893		-	†
do	do	dο		1894		. "	+
do	do	do		1895		. *	! !
do	do	do		1896		*	+
т	otal				1,324,042 81	538,094 06	462,465 68

^{*} Included in Intercolonial Railway working expenses. † Included in Intercolonial Railway revenue.

LEONARD SHANNON, Accountant.

CARLETON BRANCH RAILWAY.

				Year.	Capit	al.	Work Expen		Reve	
					\$	cts.	\$	cts.	*	cts.
Government expen	diture prior to	Confedera	tion							
do	since	do		1868				• • • •		
do	do	do		1869				· · · · · ·		
do	do	do		1870						
do	do	do		1871						
do	do	do		1872						• • • •
do	do	do		1873						
-do	do	do		1874						
do	do	do		1875						
do	do	do		1876						
do	do	do		1877						
do	do	dο		1878						
do	do	do		1879						
do	do	do		1880						
·do	do	do		1881						
do	do	$\mathbf{d}\mathbf{o}$		1882		!				
do	\mathbf{do}	do		1883						
do	do	\mathbf{do}		1884						
$\mathbf{d}\mathbf{o}$	do	do		1885						
do	do	do		1886	85,6	10 69				
$\mathbf{d}\mathbf{o}$	do	do		1887		99 62				
∙do	do	\mathbf{do}		1888		00 17			í	
$\mathbf{d}\mathbf{o}$	do	$\mathbf{d}\mathbf{o}$		1889						
$\mathbf{d}\mathbf{o}$	do	do		1890						
\mathbf{do}	do	do		1891						
\mathbf{do}	do	do		1892						
do	do	do	• • • • •	1893						
do	do	do		1896						

*56 Victoria, cap. 6, transferred the Carleton Branch Railway to the city of St. John, N. B., for the sum of \$40,000 which sum was paid in March, 1893, to the Receiver General.

LEONARD SHANNON,
Accountant.

CAPE BRETON RAILWAY.

				Year.	Cap	ital.	Worl Expe	
					*	cts.	*	cts.
Government expenditure	prior to	Confederation		1868				
do	since	do		1869	ĺ	. .		
do	do	do	• . • . • . • . • . • • • • • • • • • •	1870				
do	do	do	•• •••	1871	l			
do	do	do	• • • • • • • • • • • • • • • • • • • •	1872	l			
do	do	do	• · · · · · · · · · · · · · · · · · · ·	1873				
do	do	do	•	1874				
do	do	do	•	1875				
do	do	do	• • • • • • • • • • • • • • • • • • • •	1876				
do	do	do	•	1877				
do	do	do		1878			i	
do	do	do	• · · · · · · · · · · · · · · · ·	1879			• • • • • • • • • • • • • • • • • • •	
do	do	do	•	1880			• • • • • •	
do	do	do	· • · · · · · · · · · · · ·	1881	1			
· do	do	do		1882				<i></i>
do	do	фо	• • • • • • • • • • • • • • • • • • • •	1883				• • • • •
$\mathbf{d}\mathbf{o}$	dο	do	• • • • • • • • • • • • • • • • • • • •	1884			· · · · · ·	
do	do	ďο	• • • • • • • • • • • • • • • • • • • •	1885		• • • • • •		· · • • • •
do	do	do		1886	· · · · · ·			
do	do	ďο		1887		501 89		
do	do	до	•• • • • • • • • • • • • • • • • • • • •	1888		450 50		• • • • •
do	ďο	рo	•	1889		276 60		• • • •
do	do	ἀο	• • • • • • • • • • • • • • • • • • • •	1890		523 62		• • • •
do	ģο	фо	• • • • • • • • • • • • • • • • • • • •	1891	521	441 62		
do	do	dο	•	1892		936 96		• • • • •
do	do	do	• • • • • • • • • • • • • • • • • • • •	1893		982 74		
do	ďο	φo	•	1894	158	770 61	· · · · · · ·	• • • • •
do	do	do	• · · · · · · · · · · · · · · · · · · ·	1895				• • • • • •
do	do	do	• • • • • • • • • • • • • • • • • • • •	1896		·		• • • • • •
	Total				3,859	884 54	*	-

^{*}Included in Intercolonial Railway capital.

†Included in Intercolonial Railway working expenses.

LEONARD SHANNON,
Accountant.

OXFORD AND NEW GLASGOW RAILWAY.

				Year.	Capital.		Working Expenses.	
					\$	cts.	\$	cts.
overnment expenditure	prior to	Confederation		1868		 .	 	
do	since	do		1869		 .	l	
do	do	do		1870				
do	do	do		1871	l	 .		
do	do	dυ		1872	1	 .		
do	do	do		1873				
do	do	do		1874				
do	\mathbf{do}	do		1875		 .		
\mathbf{do}	do	do	•	1876				
do	do	do		1877				
do	dο	do		1878				
do	do	do	*	1879				
d o	do	do		1880				
do	do	do		1881	1			
do	\mathbf{do}	do	• • • • • • • • • • •	1882	1			· · · · ·
· do	do	do		1883				
do	do	do		1884				
do	dο	do	•.• • • • • • • • • • • • • • • • • • •	1885			4	
do	do	do		1886				
do	do	do		1887				
do	do	do		1888		,932 35		
do	do	do	• • • • • • • • • • • • • • • • • • • •	1889		,553 57		
do	do	do		1890		,074 60		
do	do	фo		1891		,886 39		
do	do	do		1892	48	,745 23		
do	do	ďο		1893	7	,922 80		· • • · ·
do	фo	фо	• • • • • • • • • • • • • • • • • • • •	1894	112	382 75		
do	do	, ďο		1895	1	*		
do	do	do	• • • • • • • • • • • • • • • • • • • •	1896		*		

*Included in Intercolonial Railway capital. †Included in Intercolonial Railway working expenses.

LEONARD SHANNON, Accountant.

MONTREAL AND EUROPEAN SHORT LINE RAILWAY.

	-			Year.	Construction.	Working expenses.	Revenue received.
Covernment suven	ditumo puiou to	Cantadana	··on	1000	\$ cts.	\$ cts.	\$ cts.
Government expend do	aiture prior to since	do		1868 1869			· • • • • • • • • • • • • • • • • • • •
do	do	do					
do	do	do		1870 1871		• • • • • • • • • • • •	
do	do	do					• • • • • • • • • • • • • • • • • • • •
do	do	do		1872			· · · · · · · · · · · · · · · · · · ·
do		do		1873	• • • • • • • • • • • • • • • • • • • •	•• • • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·
do	do do	do		1874		· · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • • •
do do	do do			1875	• • • • • • • • • • • • • • • • • • •		
		do \ da		1876	• • • • • • • • • • • • • • • • • • • •		
do	do	CALL!		1877		• • • • • • • • • • • • • • •	
do	do	do		1878			
do	do	фo		1879		,	
do	do	do	• • • • •	1880			· · · · · · · · · · · · · · · · · · ·
do	do	ďο		1881	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
do	ďο	dο		1882	•••••	• • • • • • • • • • • • • • • • • • • •	
do	фo	ďο	· • • • •	1883			
do	ďο	ďο	• . • • •	1884			
do	do	ďο		1885	49,587 45		
фо	do	ģο		1886	135,214 38		
ďο	do	ďο		1887	24,157 32		
do	do	ďο		1888	397 35	<i></i>	
qo ·	do	do		1889	• • • • • • • • • • • • • • • • • • •		
do	do	фo		1890			
do .	do	do		1891	124,568 23		
do	do	do		1892			
do	do	ďο		1893			
ďο	фо	ďο		1894	17 99		
ďο	do	фо		1895			
do	do	do		1896	ļ		
	Total				333,942 72		

LEONARD SHANNON,
Accountant.

PRINCE EDWARD ISLAND RAILWAY.

				Year.	Year. Construction.		Working Expenses.		Revenu received	
					\$	cts.	\$	cts.	\$	cts.
Government expen	diture prior to	Confedera	tion		3,114,7	35 11				
do	since	do		1874	l .í . í.		,	750 00		
do	do	do		1875	46,0	86 63	49,	344 62	24,	493 99
do	do	do		1876	42,5	46 10	219,	930 43	118,	060 96
do	do	\mathbf{do}		1877	200,0	00 00	228,	595 25	130,	664 92
do	do	do		1878	6,5	51 86	221,	599 49	135,	899 60
do	do	do		1879	40,1	29 05	223,	313 12	125,	855 91
do	do	do		1880	16,5	39 82	164,	640 55	113,	851 11
do	do	do		1881			203,	122 88	131,	131 43
do	do	do		1882	4	$02 \ 03$	228,	259 97	137,	267 54
do	do	do		1883	57,1	86 02	252,	808 41	146,	170 42
do	do	do		1884	130,6	63 38	236,	428 13	144,	504 12
do	do	do	,	1885	76,9	56 56	211,	207 01	158,	588 06
do	do	do		1886	4,6	68 33	216,	744 34	155,	584 36
do	do	do		1887	5,8	00 00	204,	237 45	155,	303 37
do	do	do		1888		 .	229,	639 95	158,	363 62
do	do	do		1889		 .	247,	559 44	171,	369 56
do	do	do		1890			266,	485 85	160,	971 78
do	do	do		1891			257,	990 08	174	258 0
ds	do	do		1892	8,3	00 49	289,	706 38	157.	442 69
do	do	do		1893		<i>.</i>	226,	422 17	162.	690 42
do	do	do		1894	1			891 06		533 8
do	do	do		1895	·		232,	905 19		654 78
do	do	do		1896				138 56		476 5
	Total				3,750,5	65 38	4,863,	720 33	3,117	137 0

LEONARD SHANNON,

Accountant.

CANADIAN PACIFIC RAILWAY.

				Year.	Construct includi Sub-sidy \$25,000,0	ng of	Worl Expe		Revenue received.	
					\$	cts.	*	cts.	\$	cts.
Government expend	iture prior to	Confederat	ion						l	.
do	since	do		1868	• • • • • • • • • • • • • • • • • • • •					
do	do	do		1869		 .				
do	do	do		1870		.				
do	do	do		1871		48 32				
do	do	do		1872		28 16				.
do	do	do		1873		18 44				
do	do	do		1874	310,2					
do	do	do		1875	1,546,2					
d o	do	do		1876	3,346,5				j	
do	\mathbf{do}	do		1877	1,691,1					
do	do	do		1878	2,228,3			 .		
do	do	do		1879	2,240,2					
do	\mathbf{do}	do		1880	4,044,5			892 01		975 69
do	do	do		1881	4,968,5			944 98	291,4	198 0 6
do	do	фo		1882	(1) 4,589,0			786 20		
do	do	do		1883	(2)10,033,8			266 09		
do	do	do		1884	(3)11,192,7			327 02		
do	dο	фо		1885	(4) 9,900,2		1			. .
do	do	\mathbf{do}		1886	(5) 3,672,5					
do	do	do		1887	(6) 915,0					
do	do	do		1888		98 65				
d o	d o	do		1889		16 07				
do	do	do		1890		80 54				
фо	do	do		1891		67 00				
do	do	фo		1892		11 39				
do	do	do		1893		36 49				
do	do	do		1894	146,5			• • • • • • •		
do	do	фo		1895		09 77				
do	do	do		1896	65,6	69 49				• • • • •
Tot	tal			ļ	*62,719,4	14 70	318,	216 30	396,	473 75

^{*} Agrees with Public Accounts balance sheet, 1895-96.

(1) (2) (3) (4) (5) (6)	Including do do do do do do do	 6,862,201 2,890,423	1 00 7 00	account subsidy. do do do do do do do
` '		*\$25,000,000	00	

^{*}See also pages 46 and 47 for this expenditure.

LEONARD SHANNON,
Accountant.

Department of Railways and Canals, Ottawa, 1st November, 1896.

ANNAPOLIS AND DIGBY RAILWAY.

				Year.	Capital.	Working Expenses.
					\$ cts.	\$ ets.
Government expenditure	prior to	Confederation	ı, 	 .		
do	since	do		1868		
do	do	ďο		1869		
do	do	do		1870	<i></i>	
do	do	do		1871		
do	do	do		1872		
do	do	do		1873	 •••• • • • ••••	
do	do	do		1874	·	
\mathbf{do}	\mathbf{do}	do		1875		
do	do	dο		1876		
\mathbf{do}	do	do		1877		
do	do	do		1878		
do	do	do		1879		
do	do	do		1880		
do	do	do		1881		
do	do	do		1882		1
do	\mathbf{do}	do		1883		,
do	\mathbf{do}	\mathbf{do}		1884	l <i>.</i>	
\mathbf{do}	do	do		1885	[
do	do	do		1886		
do	do	do		1887		
do	d o	do		1888		
do	do	do		1889	9,847 27	
do	do	do	• • • • • • • • • • • • • • • • • • • •	1890	381,942 75	
$\mathbf{d}\mathbf{o}$	do	do		1891	196,869 36	
do	do	dο		1892	26,129 39	
do	do	do		1893	2,190 62	
do	do-	do		1894	1,675 36	
do	do	do		1895	570 55	
do	do	\mathbf{do}		1896		

^{*} Of this amount Parliament voted under 52 Vic., cap. 8, the sum of \$500,000 as a subsidy to the Western Counties Railway which is also shown in the statement of subsidies pages 46 and 47.

LEONARD SHANNON,

Accountant.

RECAPITULATION—RAILWAYS.

	•		Year.	Construction.	Working Expenses,	Revenue Received.
				\$ cts.	\$ cts.	\$ ets.
Government exper	diture prior to	Confederat	ion	13,881,460 65		
do	since	do	. 1868	483,353 65	359,961 08	420,752 58
do	do	do	. 1869	282,615 18	387,548 47	455,022 76
do	do	do	. 1870	1,729,381 49	445,208 75	471,245 09
do	do	do	. 1871	2,946,930 45	442,993 31	565,713 52
\mathbf{do}	\mathbf{do}	do	. 1872	5,620,569 67	595,076 22	622,900 56
do	do	do	. 1873	5,763,268 81	1,011,892 60	703,458 26
do	do	do	. 1874	3,925,123 69	1,847,925 24	893,430 17
do	. do	\mathbf{do}	. 1875	5,018,427 85	1,581,934 24	886,087 42
do	do	do	. 1876	4,4.17,434 75	1,497,128 22	966,922 42
do	do	do	. 1877	3,209,502 16	1,890,268 80	1,285,110 27
do	do	do	. 1878	2,643,741 73	2,032,873 05	1,514,846 38
\mathbf{do}	do	do	1879	2,507,053 71	2,233,496 34	1,419,955 60
do	do	dэ	. 1880	6,109,077 14	1,851,489 26	1,739,137 25
do	do	do	1881	5,577,236 73	2,220,421 39	2,200,486 25
do	do	do	1882	5,175,046 61	2,310,638 54	2,237,583 39
do	do	do	1883	11,707,619 02	2,636,551 70	2,541,205 41
do	do	do	. 1884	14,013,074 89	2,613,508 87	2,551,937 97
do	do	do	. 1885	11,224,244 54	2,749,710 53	2,624,243 07
do	do	do	1886	4,443,220 17	2,819,973 50	2,628,336 35
do	do	do	. 1887	1,846,887 18	3,152,650 40	2,840,747 88
dο	do	do	. 1888	1,765,582 11	3,621,076 62	3,166,253 22
do	do	do	. 1889	2,709,857 37	3,513,063 67	3,167,542 67
do	do	do	1890	2,392,767 99	3,846,044 42	3,203,874 11
do	do	do	1891	1,184,317 34	3,949,263 73	3,181,888 56
do	фо	do	. 1892	417,425 73	3,748,597 77	3,136,393 51
do	do	do	. 1893	712,917 44	3,288,629 62	3,262,505 62
do	do	do	. 1894	585,749 01	3,226,208 13	3,179,019 57
do	ďο	do	. 1895	376,814 83	3,197,846 17	3,129,450 37
∘do	do	do	. 1896	324,774 72	3,254,442 64	3,140,678 47
	Total			123,075,476 61	66,326,423 28	58,136,728 70

* Total amount paid on construction. Less amount received from the city of St. John, N.B., as purchase of the	\$123,075,476 6	1
Carleton Branch Railway	40,000 0	Ю
Total cost of construction	\$123,035,476 6	51

LEONARD SHANNON,

Accountant.

 ${f No.}$ Statement showing Subsidies voted for Railways as to which contracts

	Subsi	idies v	oted.			Railways.				
Aut	hority		Amo	unt.		Railways.	1883–84.	188 1 -85.	1885-86.	1886-87.
				cts	- -		*	*	\$	\$
6 Vic	c., cap.	$\left.\begin{array}{c} 25 \\ 2 \end{array}\right\}$	156,	,800	00	International Railway, Quebec .	144,000			
15	do	14		,000			ļ			
6 8- 4 9	do do	$\begin{array}{c} 25 \\ 59 \end{array}$	96.	,000 ,000	00			Í		
9 0-1	do do	10 24		$\frac{295}{800}$		 Quebec and Lake St. John Rail-	į			
$\frac{1}{2}$	do do	3	96	000	00	way, Quebec	32,000	37,027	186,745	202,219
i3	do	2	30,	,000	00					
4-5 7-8	do do	8	44	,250 (,800 ()00	,				
l6 l9	do do	25 10		,600 (,000 (Kingston, Napanee and Western				
$\frac{50-1}{2}$	do	24 3	12	800	00	Railway, formerly Napanee, Tamworthand Quebec Railway,	1			
5 -6	do	5	64.	,000	00	Ontario	32,000	57,600		· · · · · · · · · · · · · · · · · · ·
17 51	do do	8	41	,000 ,000	00	Pontiac Pacific Junction Railway, Quebec		49,090	41,000	60,580
53 16	do do	2 25		,000 $,200$				15,050	11,000	00,000
17 50-1	do do	8 24		,800 ,000		Caraquet Railway, N.B		32,000	76,800	61,200
17 19	do do	8	32	,000	00					
52	do	3	22	,400	00	Great Northern Railway, Quebec		25 088	 	
53 56	do do	2 2	48	,000 · ,000 ·	00	a saw i sawa i a a a a a a a a a a a a a a a a a		20,000		
57-8 17	do do	8		,000 ,000		 Kingston and Pembroke Railway, Ontario		48 000		•
45 46	. do	14	660	,000	00	Northern and Pacific Junction	1	10,000		
53	qo qo	$\left. egin{array}{c} 26 \ 2 \end{array} ight\}$,000		Railway, Ontario		154,440	1,051,590	78,370
17 18-9	do do	8 59		,000 ,200		Canada Fastam Py formarly				
19 18-9	do do	10 59		,000		Canada Eastern Ry., formerly Northern and Western Ry.,	.1		100.000	10.00
57-8 47	do do	8)	35	,200	00	N.B			128,000	18,200
51	ďo	3		,342		Quebec Central Railway, Quebec			60,342	
53 48-9	do do	$\frac{2}{59}$,000) Managarah and Sand Bar, Oneboo			64.070	4.054
53 48-9	do do	2 59	40	,000	00	Montreal and Sorel Ry., Quebec	1		64,972	4,950
50-1 51	do do	24	64	,000	00	Montreal and Champlain June tion Railway, Quebec			30,000	
46	do	25	38		00	Elgin, Petitcodiac & Havelock,				
51 47	do do	8	44 22	,252 2,400	82 00	Railway, N.B			38,400 22,400	
48-9 49	do do	59 10	90	6,000 8,400	w	Canada Atlantic Railway, Ont				
50-1 47	do do	24 6	180	0,000	00)	[
47	do do	8 25)				Esquimalt and Nanaimo Ry., B.C. Erie and Huron Railway, Ontario		· · · · · · · · · · · · · · · · · · ·		96,000
46 47 52	do do	8 3		0,000 0,000		Baie des Chaleurs Railway, Que				250,000
48-9	do	59	118	3,400	00	New Brunswick and Prince Edward	rl	į		1

3. have been entered into and payments made up to the 30th June, 1896.

	Payment	s. 		· 					Total to
1887-88.	1888-89.	1889-90.	1890-91.	1891-92.	1892-93.	1893-94.	1894-95.	1895-96.	30th June, 1896.
\$ cts.	\$ ets.	\$ cts.	\$ cts.	\$ ets.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
8,960 00	•••	3,840 00							156,800 00
32,01300	19,911 00	38,440 00	70,350 00	26,222 73	76,471 77	81,600 09		3,744 00	1,006,743 50
						•			
		95,744 00	7,600 00		1,856 00	13,932 80			208,732 80
24,158 00						: 	18,750 00		193,578 00
10,0 50 00	13,950 00					! 			224,000 00
••••		20,000 00	9,500 00	24,100 00			32,000 00	32,000 00	142,689 00
									48,000 00
••••••		35,000 00	600 00						1,320,000 00
59,400 00	6,300 0	100 00					30,400 00		342,400 00
•••••								288,00000	348,342 00
• • • • • • • • • • •	 	6,719 50	17,116 07	, 					93,757 57
16,400 00	36,700 0	5,400 00			15,100 00) 			103,600 00
• • • • • • • • • • • • • • • • • • • •				44,252 82					82,652 82 22,400 00
·····			1		1				282,355 20
• • • • • • • • • • • • • • • • • • • •						.]			750,000 00 96,000 00
50,300 00	75,200 0	0 148,675 00)		ļ	95,825 00			620,000 00
16,000 00					43				113,440 0

STATEMENT showing Subsidies voted for Railways as to

Subsidies	voted.	Railways.					
Authority.	Amount.		1883-84.	1884 -85 .	1885-86	1886-87	1887-88.
	\$ cts		\$	8	s	\$	\$ ets
50-1V.,c.24	,	St, Lawrence, Lower Laurentian and Saguenay Ry., Que., now Lau-	-			C4 490	00 000 00
49 do 10 49 do 10	11,200 00 32,000 0	rentian Railway				64,430 11,200	28,383 00
50-51 do 24 56 do 2	96,000 00 64,000 00	Great Eastern Railway, Que	i			19,200	•
53 do 2 47 do 8 52 do 3	37,500 00 $160,000 00$	1 Irondala Bancroft and Ottawa] 			15,000	
49 do 10 50-51 do 24	96,000 0 6,400 0	Railway, Ont Buctouche and Moncton Ry., N. B.				40,480	20,573 57
47 do 8 52 do 3 57-8 do 4	51,200 0	Albert Southern Railway, N.B Lac Témiscamingue Colonization	i	1	1	1	
49 do 10 50-1 do 24	38,400 0 4,000 0	Railway, Que					3,000 00 26,138 78
45 do 14 48-9 do 58	240,000 0 258,000 0	Tomissousta Railway N.B. and					040 601 00
51 do 3 53 do 2 48-9 do 59	100,000 0 51,200 0 44,800 0	O Learnington and St. Clair Rail					249,684 00
50-1 do 24 49 do 10	6,400 0 16,000 0	way, Ontario					
50-1 do 24 49 do 10	22,400 0 256,000 0	0 Dominion Lime Co.,, Quebec					11,840 00
53 do 2 50-1 do 24 52 do 3 53 do 2 57-8 do 4	96,000 0 14,400 0 76,800 0 96,000 0	Drummond County Ry., Quebec.				1	
48-9 do 59 53 do 2 54-5 do 8 57-8 do 4	} 128,000 0	Brockville, Westport and Saul	t				
49 do 10 53 do 2 50-1 do 24	32,000 0 10,200 0	0 Montreal and Lake Maskinong 0 Mailway, Quebec 0 South Norfolk Railway, Ontario 0 Guelph Junction Railway, Ontario	ś .		.	.	
50-1 do 24 48-9 do 59	1 99 4 0 6	all Belleville and North Hasting	81	1	1	1	i
49 do 10 49 do 10 52 do 3	108,800 (48,000 (Old Hereford Railway, Ontario	• • • • • • •	1	1		
50-1 do 24 55-6 do 5	118,400 (224,000 ($\left \frac{00}{00} \right ^2_{00}$ Lake Erie & Detroit River Ry., O					
50-1 do 24 50-1 do 24 55-6 do 5	138,400 (108,000 (tral Ry Ontario	i	1		1	i
57-8 do 4 52 do 3	108,800 (30,000 (100 Fredericton and St. Mary's Rail way Bridge Co., N.B					
50-1 do 24 55-6 do 5	9,600 (00 Harvey Branch Railway Co., N.B 00 Nova Scotia Central Railway Co.					
50-1 do 24	44,800	N. S	,				
52 do 3 52 do 3		O Pontiac and Renfrew Ry. Co., On	·······	· · · · · ·	i		
52 do 3 56 do 3	} 96,000	ievoix naiiway Co., Quebec.					
52 do 3	375,900	00 St. Clair Frontier Tunnel Co., Ont		1		.1	.\

which contracts have been entered into, &c.—Continued.

·	Payments.							Total June 30th
1888-89.	1889-90.	1890-91.	1891-92.	1892-93.	1893-94.	1894-95.	1892-96.	1896.
\$ ets.	\$ ets.	\$ cts.	\$ cts.	\$ ets.	\$ ets.	\$ cts.	\$ cts.	\$ ets.
		32,003 00	92,784 00		 			217,600 0 11,200 0
· · · · · · · ·		16,300 00	4,845 00					40,345 (
				17,000 00	32,000 00	32,000 00		96,000 0
	4,366 00	1,600 43			34,580 00			101,600
1,387 06		10,684 37	18,960 00					50,460 (
9,000 00	26,360 00		. 			233,198 95	17,900 75	303,859
	9,761 22	1,600 00						37,500
63,216 00	74,300 00	82,770 00	54,830 00	21,150 00				645,950
19,200 00								51,200
								14,656
3,520 00								15,360
800 00	189,200 00	6,000 00						256,000
13,815 00	12,428 00	136,000 00	5,105 00	13,435 00		92,096 00)	287,936
45,000 00	 	47,400 00	12,800 00					105,200
19,700 00		1 '						41,280
54,400 00 46,000 00								54,400 46,000
21,888 00						1		
63,900 00	1		l .	1	1	í		21,888 155,200
06,500 00			i				1	
54,650 00	1)) •		T.	220,551 0	0	1	1
	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1						
,		12,100				1		00,100
30,000 00 5,553 5								30,000 5,553
•••••	219,100 0	3,300 00	8,300 0	0				230,700
••••••	. 29,400 0 9,800 0							. 39,850 13,600
•••••	. 10,400 0	0		ļ	. 14,000 0	0		24,400
	. 65,600 0	0				30,400	n)	. 96,600

STATEMENT showing Subsidies voted for Railways as to

s	lubs	idie	s voted.	Railways.	1.				
Auth	orit	y.	Amount.	- Italiways.	1883-84.	1884-85.	1885–86.	188687.	1887-88
			\$ et	5.	*	*	*		\$ cts.
0-1 V		24	57,600 (Brantford, Waterloo an Lake Erie Ry., Ontario	d)		,	
7-8 1	ao do	3		(Port Arthur, Duluth ar	\mathbf{d}				
3	do	2	287,200 (Western Railway, Ont.				· · · · · · · · ·	· · · · · · · · ·
0-1 3	do do	$\begin{vmatrix} 24 \\ 2 \end{vmatrix}$	100.000	or i i i ou - Pai	,	1			
4-5	do	8	192,000	0 Montreal and Ottawa Rai	1-		l 		
7-8 0-1		24))	1	İ		1	ļ	İ
	do	3	!	O Cornwallis Valley Ry., N.S). · · · · · · · ·				
	do	3	320,000 (Littawa & Latinggii KV. L	2				
7-8 1	do	6 3	64,000 ("	İ	1	Í		
2	do	3	83,612 5 142,400 0				, , , , , , , , , , , , , , , , , , , ,	 	
3 7-8	do	2	48,000	11				İ	
	do	2	361,270 (0 Montreal and Western Ra	1-				
-0	.	0	100 000	way, Que Parry Sound Colonization					
52	do	3	128,000	Railway, Ont	,		: 		
7-8		4	64,000	0	_ 1				į.
52	do	3	163,200	Shuswap and Okanagan Ra way, B.C	1-				
4-5	do	8	89,600	0)					
	do	2	35,200	Tobique Valley Ry., N.B		.			,
	do do	5 2	119 000 (n/Columbia and Kootenay Ry	B.C.	1	1		
53	do	2	35,200	Waterloo Junction Ry., On O Orford Mountain Ry., Que	t.				
	do do	2							
)5-6		5	25,024	of Charles and Adrice H Chatham Branch Ry., N.B. New Glasgow Iron, Coal an Railway, N.S.					
	do	3	24,439	34 Chatham Branch Ry., N.B.					
55-6	αo	5	40,000	Railway, N.S		.} <i>.</i>	l		\
56	ďο	2	102,400	United Counties Ry., Qu	e	.}			
57-8 55-6		4	21,600						
		1	•	Quarry Co., Que					
55–6	do	5	430,400	Ottawa, Amprior and Par Sound Railway, Ont	ry		1		
56	do	2	67,200	Montfort Colonization Ra	11-				
0	,	اء	40.000	way, Que					
55-6 57-8		5	48,000	00 Lotbinière and Mégan 00 Railway, Que			·		
56	do	2	48,000	MCrand Trunk Georgian R	37	1			1
55-6	d۵	5	20 000	and Lake Erie Ry., Ont. O Canadian Pacific Ry., Rev	41-1	1		i	1
υ υ - 0	uo	9	•	stoke to Arrow Lake, B.C.		.	·		
57-8		4	121,600	Nakusp and Slocan Ry., B.0 Dominion Coal Co., N.S	J.	• • • • • • • •			
55-7 56	do	5 2	89,600 22,400	00 Oshawa Railway and Navis	a-)	1	1		1
				tion Co., Ont		·[
57-58	do	4	51,200	70 Tilsonburg, Lake Erie a Pacific Railway, Ont	ıa				
56	do	2	11,200	00 St. Stephen's and Millton					
		1	•	Railway, N.B					<u> </u>
					208,00	0 403,248	2,171,249	1,406,533	1,027,0419
37	do	14	1,525,250	00 Canada Central Railway	1 -				1
46 44	do	2	,	00 Canadian Pacific, main line	1		(1	1
47	do	8		00 Canadian Pacific, extension				1	1
48 -9	фo	58	, 1,000,000	Western Counties Railway	1		1	1	1
		1		western Counties Railway	.				1

This return does not include the Atlantic and North-western Railway.

DEPARTMENT OF RAILWAYS AND CANALS,

OTTAWA, 1st November, 1896.

which contracts have been entered into, &c.—Concluded.

Payner	nts.		,					Total to 30th June
1888-89.	1889-90.	1890-91.	1891-92.	1892-93.	1893-94.	1894-95.	1895-96.	1896.
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
	36,620 00	16,190 00					4,790 00	57,600 00
····		87,000 00	70,075 00	114,125 00				271,200 00
	· • • • • • • • • • • • • • • • • • • •	49,960 00			23,640 00			73,600 00
	••• ••••	42,670 00	2,130 00			· · · · · · · · · · · · · · · · · · ·		44,800 00
		87,582 00	38,790 00	104,380 00	53,376 00			284,128 00
	·· ···· ···	75,639 00	83,612 54					159,251 54
		76,143 00	32,253 00	133,388 00	119,486 00	· ·		361,270 00
	········ _, ····		30,400 00	28,820 00		68,780 00	24,800 00	152,800 00
		• • • • • • • • • • • • • • • • • • • •	162,260 00		640 00	300 00	• • • • • • • • • • • • • • • • • • • •	163,200 00
	• • • • • • • • • • •	••• • ••••	73,000 00	41,674 46	19,341 54			134,016 00
	· · · · · · · · · · · · · · · · · · ·		88,800 00 32,800 00					88,800 00 32,800 00
	• • • • • • • • • • • • • • • • • • • •		32,000 00		52,800 00			84,800 00
			40,256 00 24,439 84		297 60			65,001 60 24,439 84
	• - • • • • • • • • • • • • • • • • • •			32,945 84	5,454 16		1,440 00	39,840 00
••••					88,973 00	42,728 15	52,926 85	184,628 00
		• • • • • • • • • • • •			18,688 00	2,912 00		21,600 00
					101,120 00	249,280 00	80,000 00	430,400 00
					32,000 00	35,200 00		67,200 00
		 		:	35,200 00	38,400 00		73,600 00
			<u> </u>			39,744 00		39,744 00
						28,000.00		28,000 0
						117,760 00 32,000 00		117,760 00 87,808 00
							22,400 00	22,400 0
· · · · · · · · · · · ·							51,200 00	51,200 0
						ļ	9,635 89	9,625 8
346,721 83	1,491,595 72	1,079,105 87	1,061,615 93	624,794 07	1,043,285 10	1,123,949 10	648,145 49	13,135,282 0
l l		1	1	1		i	ł	1 ' '
· · · · • • · · · · .			1	i				1 ' '
· · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • • •							1 ' '
· · · · · · · · · · · ·				1		·····		500,000 0

LEONARD SHANNON,
Accountant.

PART III

RAILWAY SUBSIDIES

No. 1.
RAILWAY SUBSIDIES.

Table of Cash Subsidies granted and paid in aid of Railway Construction.

No.	Name of Railway.	No. of miles built.	No. of miles paid and provided for.	Subsidy paid and Available at June 30, 1896.	Subsidy paid to 30th June, 1896.	Subsidy paid to 1st Nov., 1896.
				\$ ets.	\$ ets.	\$ ets.
1	Albert Southern	16	16	50,460 00	50,460 00	50,460 00
2	Baie des Chaleurs	70	70	620,000 00	620,000 00	620,000 00
3	Beauharnois Junction	19.50	19.50	62,400 00	62,400 00 21,888 00	62,400 00
4 5	Belleville and North Hastings Brantford, Waterloo & Lake Erie	6 84 18	$\frac{6.84}{18}$	21,888 00 57,600 00	57,600 00	21,888 00 57,600 00
	Brockville, Westport and Sault					
	Ste. Marie	44.50	44.50	105,200 00	105,200 00	105,200 00
$\frac{7}{8}$	Buctouche and Moneton	31·75 54·05	31.75 54.05	$\begin{array}{c} 101,600 \ 00 \\ 282,355 \ 20 \end{array}$	$\begin{array}{c} 101,600 \ 00 \\ 282,355 \ 20 \end{array}$	$\begin{array}{c} 101,600 \ 00 \\ 282,355 \ 20 \end{array}$
9	Canada Central	120	120	1,525,250 00	1,525,250 00	1,525,250 00
10	Canada Eastern	107	107	342,400 00	342,400 00	342,400 00
11	Canadian Pacific	1,905	1,905	25,000,000 00	25,000,000 00	25,000,000 00
12 13	do (extension) Caraquet	$\begin{array}{c} 170 \\ 67 \end{array}$	185 67	1,580,000 00 224,000 00	1,528,000 00 224,000 00	1,528,000 00 224,000 00
14	Central (of New Brunswick)	44.50		142,400 00	75,639 00	75,639 00
15	Cornwallis Valley	14	14	44,800 00	44,800 00	44,800 00
16 17	Columbia and Kootenay	$27.75 \\ 14$	27 · 75 14	88,800 00 39,850 00	88,800 00	88,800 00 39,850 00
18	Cumberland	4.80	4.80	15,360 00	39,850 00 15,360 00	15,360 00
19	Dominion Coal Co	27 · 44	27 · 44	87,808 00	87,808 00	87,808 00
20	Drummond Counties	89.98	93.10	297,920 00	287,936 00	287,936 00
21 22	Elgin, Petitcodiac and Havelock. Erie and Huron	$\begin{array}{c} 12 \\ 30 \end{array}$	12 30	38,400 00 96,000 00	38,400 00 96,000 00	38,400 00 96,000 00
23	Esquinalt and Nanaimo.	71	71	750,000 00	750,000 00	750,000 00
24	Fredericton and St. Mary's Bridge		1 00	00.000.00		1
25	Co	1.33	1 33	30,000 00	30,000 00	30,000 00
20	Grand Trunk, Georgian Bay and Lake Erie	12.42	12.42	39,744 00	39,744 00	39,744 00
26	Great Eastern	12.50	12.50	40,345 00	40,345 00	40,345 00
27	Great Northern	44 05	99:59	318,688 00	142,688 00	142,688 00
28 29	Guelph Junction	15·25 3	15.25	46,000 00 5,553 57	46,000 00 5,553 57	46,000 00 5,553 57
30	Hereford	48.50	48.50	155,200 00	155,200 00	155,200 00
31	Irondale, Bancroft and Ottawa	30	50	160,000 00	96,000 00	96,000 00
32 33	International	49 12	49 12	156,800 00 37,500 00	156,800 00 37,500 00	156,800 00 37,500 00
34	Joggins	15	15	48,000 00	48,000 00	48,000 00
35	Kingston, Napanee and Western.	61.35	61.35	208,732 80	208,732 80	208,732 80
36	L'Assomption	3.50	3.20	11,200 00	11,200 00	11,200 00
37 38	Lake Erie and Detroit River	84·04 45·84	84·04 45·84	338,731 00 303,859 70	338,731 00 303,859 70	338,731 00
39	Lake Temiscamingue Colonization Leamington and Lake St. Clair.	16	16	51,200 00	51,200 00	303,859 70 51,200 00
40	Lotbinière and Mégantic	28	30	96,000 00	73,600 00	88,000 00
41 42	Montreal and Sorel	44 67	44.67	33,757 57	93,757 57	93,757 57
42 43	Montreal and Lake Champlain Montreal and Western	83 70	83 70	103,600 00 361,270 00	103,600 00 361,270 00	103,600 00 361,270 00
44	Montreal and Lake Maskinongé		12.90	41,280 00	41,280 00	41,280 00
45	Montreal and Ottawa	23	60	192,000 00	73,600 00	73,600 00
46 47	Montfort Colonization	21	21	67,200 00	67,200 00	67,200 00
48	Nakusp and Slocan New Brunswick and P.E.I	36·80 35·45	38 35·45	121,600 00 113,440 00	117,760 00 113,440 00	117,760 00 113,440 00
	The Dianewick and F.E.I		- 00 -10	110,110 00	110, 120 00	113,440 00
	Carried forward	3.773 71	3.897 57	34,716,192 84	34,202,807 84	34 217 207 84

Table of Cash Subsidies granted and paid in aid of Railway Construction—Con.

No.	Name of Railway.	No. of miles built.	No. of miles paid and provided for.	Subsidy paid and Available at 30th June, 1896.	Subsidy paid to 30th June, 1896.	Subsidy paid to 1st Nov., 1896.
				\$ cts.	\$ cts.	\$ ets
	Brought forward	3,773 71	3,897 57	34,716,192 84	34,202,806 84	34,217,207 84
49	New Glasgow Iron and Coal Co.	12	12	39,840 00	39,840 00	39,840 00
50	North Shore	159	159	954,000 00		
51	Northern Pacific Junction	110	110	1,320,000 00	1,320,000 00	1,320,000 00
52	Nova Scotia Central	73.50	73.50	235,200 00	230,700 00	230,700 00
53	Ontario and Pacific		53 87	172,400 00		
54	Ontario, Belmont and Northern.		10	32,000 00		
55	Ontario and Quebec	61 25	61.25	196,000 00	196,000 00	196,000 00
56	Orford Mountain	26.50	26:50	84,800 00	84,800 00	84,800 00
57	Oshawa Railway and Navn. Co		7	22 400 00	22,400 00	22,400 00
58	Ottawa & Gatineau Valley	56 50	56:50	284,128 00	284,128 00	284,128 00
59	Ottawa, Amprior & Parry Sound	107	107	430,400 00	430,400 00	430,400 00
60	Parry Sound Colonization	43	60	192,000 00	152,800 00	152,800 00
61	Pontiac and Pacific Junction	70	70	193,578 00	193,578 00	193,578 00
62	Phillipsburg Junction	6.75	6.75	21,600 00	21,600 00	21,600 00
63	Pontiac and Renfrew.	4.25	4 25	13,600 00	13,600 00	13,600 00
64	Port Arthur, Duluth and Western	84.75	84.75	271,200 00	271,200 00	271,200 00
65	Quebec Central	74.86	74 86	348,342 00	348,342 00	348,342 00
66	Quebec, Montreal, Ottawa and			i	,	í í
	Occidental	120	120	1,440,000 00		
67	Quebec and Lake St. John	245.85	245.85	1,006,743 50	1,006,743 50	1,006,743 50
68	Quebec, Montmorency and Char-					, ,
	levoix	30	30	96,000 00	96,000 00	96,000 00
69	Shuswap and Okanagan	51	51	163,200 00	163,200 00	163,200 00
70	South Norfolk	17	17	54,400 00	54,400 00	54,400 00
71	St. Catharines & Niagara Central	12	12	38,400 00	38,400 00	38,400 00
72	St. Clair Frontier Tunnel	$2^{+}23$	2.23	375,000 00	375,000 00	375,000 00
73	St. Lawrence & Lower Laurentian	38:85	38.85	217,600 00	217,600 00	217,600 00
74	St. Louis, Richibucto & Buctouche	7	7	22,400 00	22,400 00	22,400 00
75	St. Lawrence and Adirondack	20:31	20 31	65,001 60	65,001 60	65,001 60
76	Témiscouata	112.95	112 95	645,950 00	645,950 00	645,950 00
77	Thousand Island	4.33	4.33	24,400 00	24,400 00	24,400 00
78	Tilsonburg, Lake Erie and Pacific	16	16	51,200 00	51,200 00	51,200 00
79	Tobique Valley	27 87	27 · 87	134,016 00	134,016 00	134,016 00
80	Toronto, Grey and Bruce	4.60	4.60	14,656 00	14,656 00	14,656 00
81	United Counties	57	64	204,800 00	184,628 00	184,628 00
	Waterleo Junction	10.25	10.25	32,800 00	32,800 00	32,800 00
	Western Counties	20	20	500,000 00	500,000 00	500,000 00
	Western Ontario Pacific	18.75	18.75	60,000 00	60,000 00	60,000 00
85	Cap de la Magdeleine	3	3	9,600 00		
86	Gulf Shore		12	38,400 00		2,109 51
87	St. Stephen and Milltown	3.20	3.50	11,200 00	9,635 89	9,635 89
	Total	5,492 56	5,716 29	44,733,447 94	41,508,226 83	41,524,736 34

STATEMENT showing Railways receiving Cash Subsidies of fixed amounts, payable Annually or Semi-annually for fixed period of years.

No.	Name of Railway.	Miles Subsidized.	Amount of Instalment.	Amount paid up to 30th June, 1896.
1 2	International (Atlantic and North-west) Railway Co Kingston, Smith's Falls and Ottawa Rail-	252	\$93,300 per ½ year for 20 years	8 1,119,600
	way Co	56	3,136 do 21	Nil.
	Total	308		1,119,600

STATEMENT showing Railways aided by the Grant of Loans.

No.	Name of Railway.	Amount of Loans authorized.	Amount loaned.
1 2 3	Albert Railway Co. Fredericton and St. Mary's Bridge Co. St. John Bridge and Railway Extension Co.	300,000 500,000	\$ cts. 14,725 56 300,000 00 433,900 00
		815,000	748,625 56

Statement showing Railways subsidized by the Grant of used Iron Rails valued at the amount set forth.

No.	Name of Railway.	Tons of used Rails.	Subsidy on value of Rails.	Subsidy in used Rails paid.
1 2 3	Central Railway Co. of New Brunswick. Elgin, Petitcodiac and Havelock Ry. Co Chatham Branch Railway Company	4,052 2,201 958	\$ ets. 83,612 54 44,252 82 24,439 84	\$ cts. 83,612 54 44,252 82 24,439 84
	Total	7,211	152,305 20	152,305 20

Statement showing Railways aided by the Loan of used Iron Rails valued at the amount set forth.

No.	Name of Railway.	Tons of used Rails.	Value of used Rails loaned.	Remarks.
1 2 3 4	Kent Northern Railway Company	2,549 233 597 726 4,105	\$ cts. 58,334 27 4,335 00 11,964 66 14,665 45 89,299 38	By 51 Victoria, chapter 3, these used rails will be granted as a subsidy (the section of road to be first laid with new steel rails weighing not less than 50 lbs. per lin. yard and after an O.C. had been passed authorizing transfer.)

STATEMENT showing Railways subsidized by Grants of Lands.

No.	Act.	Name of Railway.	Estimated number of miles.	Acres granted per mile.	Total acres granted.
1	52 Vic., c. 4. 53 Vic., c. 3.	Alberta Railway and Coal Co	50	6,400	320,000
2	50-51 Vic., c. 23	Alberta and Athabasca Railway Co	300	6,400	1,920,000
3	56-57 Vic., c. 6	Brandon and South-western Railway Co	17	6,400	108,800
4	53 Vic., c. 4	Calgary and Edmonton Railway Co	340	6,400	2,176,000
5	{54-55 Vic., c. 5} 56-57 Vic., c. 6}	Canadian Pacific Railway Co	277	6,400	1,772,800
6	49 Vic., c. 11	North-west Central Railway Co	450	6,400	2,880,000
7	{52 Vic., c. 4.}	Lake Manitoba Railway and Canal Co	142	6,400	908,800
8	53 Vic., c. 4	Lac Seul Railway Co	18	6,400	115,200
9	{48-49 Vic., c. 60} 49 Vic., c. 11}	Manitoba North-western Railway Co	476	$*{6,400 \choose 3,200}$	2,726,400
10	{48-49 Vic., c. 60 } 54-55 Vic., c. 10}	Manitoba South-western Colonization Railway Co.	218]	6,400	1,396,800
11	53 Vic., c. 4	Manitoba South-eastern Railway Co	110	6,400	704,000
12	50-51 Vic., c. 23	Medicine Hat Railway and Coal Co	8	6,400	51,200
13	52 Vic., c. 4	North-western Railway Co. of Canada	330	10,000	3,300,000
14	\begin{cases} 48-49 \text{ Vic., c. 60} \\ 50-51 \text{ Vic., c. 23} \\ 52 \text{ Vic., c. 4} \\ \end{cases}	North-western Coal and Navigation Co	110	6,400	708,400
15	{48-49 Vic., c. 60} 50-51 Vic., c. 23}	Qu'Appelle, Long Lake and Saskatchewan Railway and Steamboat Co	347	6,400	2,220,800
16	{50-51 Vic., c. 23} 52 Vic., c. 4}	Red Deer Valley Railway and Coal Co	55	6,400	352,000
17	56-57 Vic., c. 6	Rocky Mountain Railway and Coal Co	60	6,400	384,000
18	56-57 Vic., c. 6	Saskatchewan and Western Railway Co	15	6,400	96,000
19	\begin{cases} 47 \ \text{Vic., c. 25} \\ 47 \ \text{Vic., c. 70} \\ 43 \ \text{Vic., c. 59} \end{cases} \ldots	Winnipeg and Hudson Bay Railway Co	900	$\{ 6,400 \}$	8,580,000
20	49 Vic., c. 11	Wood Mountain and Qu'Appelle Railway Co.	240	6,400	1,536,000
	!	Total	4,4631		32,257,200

^{*376} miles at 6,400 acres per mile and 100 miles at 3,200 acres per mile. †475 miles at 6,400 acres per mile and 425 miles at 12,800 acres per miles.

No. 2.

LIST OF RAILWAY SUBSIDY ACTS PASSED IN EACH YEAR.

Note.—The marginal number opposite each subsidy has reference to the alphabetical list in the Minister's report showing the action taken in cases where a contract for work has been made with any company.

By the Acts of Parliament below specified, authority has been placed in the hands of the Governor in Council to grant, upon certain conditions, aid towards the construction of various lines of railway throughout the Dominion, as follows, namely:—
By the Acts of 45 Vic., cap. 14, 1882 (Assented to 17th May, 1882):—
1. For a railway from Gravenhurst to Callander, both in the province of Ontario, a subsidy not exceeding \$6,000 per mile, nor exceeding in
the whole
2. For a railway from St. Raymond to Lake St. John, both in the province of Quebec, a subsidy not exceeding \$3,200 per mile, nor exceeding in
the whole
Loup or Rivière Ouelle, in the province of Quebec, or between them, to Edmundston, in the province of New Brunswick, a subsidy not
exceeding \$3,200 per mile, nor exceeding in the whole
Nova Scotia, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole
"The said subsidies to be granted to such companies as shall be approved by the
Governor in Council as having established, to his satisfaction, their ability to complete the said railways respectively, within a reasonable time, to be fixed by Order in Council,
and according to descriptions and specifications to be approved by the Governor in

"The said subsidies to be granted to such companies as shall be approved by the Governor in Council as having established, to his satisfaction, their ability to complete the said railways respectively, within a reasonable time, to be fixed by Order in Council, and according to descriptions and specifications to be approved by the Governor in Council on the report of the Minister of Railways and Canals, and specified in an agreement to be made by the company with the Government, and which the Government is empowered to make, and to be payable out of the Consolidated Revenue Fund of Canada, by instalments on the completion of each ten miles of railway, proportionate to the value of the portion so completed in comparison with the whole work undertaken, such proportion to be established by the report of the said Minister; provided always, that the granting of such bonuses or subsidies shall be subject to such conditions for securing such running powers or traffic arrangements and other rights as will afford all reasonable facilities and equal mileage rates to all railways connecting therewith, as the Governor in Council may determine."

By the special Act 45 Vic., cap. 55, 1882 (Assented to 17th May, 1882:—
5. A subsidy authorized in favour of "The Chignecto Marine Transport
Railway Company," provided that they construct and thereafter
maintain and operate a ship railway, to be approved by the Govern-
ment, across the Isthmus of Chignecto, from the Gulf of St. Lawrence
to the Bay of Fundy, per year, for twenty-five years
By the Act 46 Vic., cap. 25, 1883 (Assented to 25th May, 1883):-
6. To the Baie des Chaleurs Railway Company, for 100 miles of their rail-
way, from Métapediac, on the Intercolonial Railway, to Paspebiac,
in the province of Quebec, a subsidy not exceeding \$3,200 per mile,
nor exceeding in the whole

7. To the Caraquet Railway Company, for 36 miles of their railway, from	
a point near Bathurst to Caraquet, in the province of New Bruns-	
wick, a subsidy not exceeding \$3,200 per mile, nor exceeding in the	2115 000
whole 8. To the Gatineau Valle v Railway Company, for the first 50-mile section	\$110,200
of their railway, from Hull station, in the province of Quebec, a	
subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	160 000
9. To the Great American and European Short Line Railway Company, for	100,000
80 miles of their railway, from Canso to Louisburg or Sydney, in the	
province of Nova Scotia, a subsidy not exceeding \$3,200 per mile,	
nor exceeding in the whole	256,000
10. To the International Railway Company, for 49 miles of their railway,	
from Sherbrooke, in the province of Quebec, to the international	
boundary line, a subsidy not exceeding \$3,200 per mile, nor exceed-	
ing in the whole	156,800
ing in the whole	•
railway, from the Intercolonial Railway, near the Miramichi, to	
Moran's, near Demphy village, in the province of New Brunswick, a	
subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	102,400
12. To the Montreal and Western Railway Company, for the first 50-mile	
section of their railway, out of St. Jérôme, in the province of Quebec,	
a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole.	160,000
13. To the Napanee, Tamworth and Quebec Railway Company, for 28 miles	
of their railway, from Napanee to Tamworth, in the province of	
Ontario, a subsidy not exceeding \$3,200 per mile, nor exceeding in	00 400
the whole	89,600
14. To the Quebec and Lake St. John Railway Company, for 25 miles of	
their railway, from St. Raymond to Lake St. John, in the province	
of Quebec, a subsidy not exceeding \$3,200 per mile, nor exceeding in	80,000
the whole	60,000
ter fourteen.	
15. For a railway from the International Railway at Petitcodiac to Havelock	
Corner, in the province of New Brunswick, 12 miles, a subsidy not	
exceeding \$3,200 per mile, nor exceeding in the whole	38,400
16. For a railway from Gravenhurst to Callander, 110 miles, a subsidy not	,
exceeding \$6,000 per mile, nor exceeding in the whole	660,000
In addition to the subsidy granted by the Act forty-fifth Victoria, chap-	•
ter fourteen.	

"The nine subsidies first mentioned to be granted to the companies hereinbefore named respectively; and the two subsidies last mentioned to be granted to such companies as shall be approved by the Governor in Council as having established to his satisfaction their ability to complete the said railways, respectively; and all the eleven lines above mentioned, and also the lines of railway in respect of which it is provided by the Act of forty-fifth Victoria, chapter fourteen, that subsidies may be granted, shall be commenced within two years from the first day of July next, and completed within a reasonable time, not to exceed four years from and after the passing of this Act, to be fixed by Order in Council, and according to descriptions and specifications to be approved by the Governor in Council, on the report of the Minister of Railways and Canals, and specified in an agreement to be made by each company with the Government, and which the Government is empowered to make; and all the said subsidies authorized by this Act, respectively, to be paid out of the Consolidated Revenue Fund of Canada by instalments, on the completion of each section of not less than ten miles of railway, proportionate to the value of the portion so completed in comparison with the whole work undertaken, to be established by the report of the said Minister; Provided always, that the granting of such subsidies shall be subject to such conditions for securing such running powers

or traffic arrangements and other rights as will afford all reasonable facilities and equal mileage rates to all railways connecting with those so subsidized as the Governor in Council may determine."

Council may determine."	
By the special Act 46 Vic., cap. 26, 1883 (Assented to 25th May, 1883):-	•
17. An advance authorized in favour of the "St. John Bridge and Railway Extension Company," to enable them to build a railway bridge across the River St. John, N.B., with railway connection with the Intercolonial, such advance to be secured by a mortgage on their entire property, not to exceed 80 per cent of the expenditure on the work, nor a total sum of	
By the Act 47 Vic., cap. 8, 1884 (Assented to 19th April, 1884):—	
18. To the Government of the province of Quebec, in consideration of their having constructed the railway from Quebec to Ottawa, forming a connecting line between the Atlantic and Pacific coasts via the Intercolonial and Canadian Pacific Railways, and being as such a work of national and not merely provincial utility, a subsidy not exceeding \$6,000 per mile for the portion between Quebec and Montreal, 159 miles, nor exceeding in the whole	954,000
19. And for the portion between Montreal and Ottawa, 120 miles, \$12,000	,
per mile, nor exceeding in the whole	,440,000
 For the construction of a line of railway from Oxford station, on the Intercolonial Railway, to Sydney or Louisburg, a subsidy not exceeding \$30,000 per annum for fifteen years or a guarantee of a like sum for a like period as interest on the bonds of the company undertaking the work, in addition to the subsidies previously granted, and also a lease or transfer to such company of the Eastern Extension Railway, from New Glasgow to Canso, with its present equipment. To the Quebec Central Railway Company, for a line of railway from 	٠.
Beauce Junction to the international boundary line, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	211,200
at St. Martin's Junction, near Montreal, or some other point on the Canadian Pacific Railway, to the harbour of Quebec, in such manner as may be approved by the Governor in Council, a subsidy not exceeding \$6,000 per mile, nor exceeding in the whole	960,000
lage of Bancroft, in the township of Dungannon, county of Hastings, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	160,000
\$3,200 per mile, nor exceeding in the whole	272,000
exceeding in the whole	160,000
exceeding \$3,200 per mile, nor exceeding in the whole	70,400

28.	To the Montreal and Western Railway Company, for a line of railway from the end of the line subsidized in the now last session of Parliament, towards Le Désert, a subsidy not exceeding \$3,200 per mile,	
29.	nor exceeding in the whole	\$160,000 ●
30.	proposed in 1883)	128,000
31.	exceeding in the whole	96,000
32 .	nor exceeding in the whole	262,400
33 .	mile, nor exceeding in the whole	48,000
34 .	whole	32,000
35.	the North Shore Railway proper, a subsidy not exceeding in the whole	200,000
	ing \$3,200 per mile, nor exceeding in the whole	22,400
37.	in the whole	51,200
38.	in the whole	22,400
39.	ing in the whole	217,600
40.	whole	64,000
41.	exceeding \$3,200 per mile, nor exceeding in the whole To the Caraquet Railway Company, for the extension of their line of railway from Caraquet to Shippegan Harbour, in the province of	128,000
42.	New Brunswick, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	76,800
43	not exceeding in the whole	300,000
	town, fourteen miles, a sum not exceeding in the whole	140,000

granted shall be commenced within two years from the first day of July next and completed within a reasonable time, not to exceed four years, to be fixed by Order in Council, except the line mentioned in the fourth section of this Act,* which shall be commenced within one year, and shall also be constructed according to descriptions and specifications and upon conditions to be approved by the Governor in Council, on the report of the Minister of Railways and Canals and specified in an agreement to be made in each case by the company with the Government, and which the Government is hereby empowered to make; the location also of every such line of railway shall be subject to the approval of the Governor in Council; and all the said subsidies, respectively, shall be payable out of the Consolidated Revenue Fund of Canada, by instalments, on the completion of each section of the railway of not less than ten miles, proportionate to the value of the portion so completed in comparison with that of the whole work undertaken, to be established by the report of the said Minister. The subsidies to the province of Quebec shall be capitalized, and the interest shall be payable at such time and in such manner as the Government of Cana la shall agree upon with the Government of the said province. The two subsidies last mentioned in the list are for works to be constructed by the Government of Canada.

"Provided, always, that the granting of such subsidies to the companies mentioned, respectively, shall be subject to such conditions for securing such running powers or traffic arrangements and other rights as will afford all reasonable facilities and equal mileage rates to all railways connecting with those so subsidized, as the Governor in

Council may determine."

004		
	By the special Act 47 Vic., cap. 6, 1884 (Assented to 19th April, 1884):	
	Relating to an agreement with the province of British Columbia, authority was given, inter alia, for the grant of a subsidy to the "Esquimalt and Nanaimo Railway Company" in aid of the construction of a line of railway and telegraph between the points named; such subsidy to be in lands en bloc on Vancouver Island, the boundaries being fixed by the Act, and in money	750,000
	To the Ottawa, Waddington and New York Railway and Bridge Com-	
	pany, for a line of railway from Ottawa to Waddington, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole To the New Brunswick and Prince Edward Island Railway Company, for a line of railway from Sackville to the Straits of Northumberland,	166,400
	at or near Cape Tormentine, a subsidy not exceeding \$3,200 per mile,	110 400
	nor exceeding in the whole	118,400
47.	To the Montreal and Sorel Railway Company, for a line of railway from	
	St. Lambert to Sorel, a subsidy not exceeding \$1,600 per mile, nor exceeding in the whole	72,000
48.	To the Brockville, Westport and Sault Ste. Marie Railway Company,	,
10.	for a line of railway from Brockville to Westport, a subsidy not ex-	
	ceeding \$3,200 per mile, nor exceeding in the whole	128,000
49 .	To the Quebec and Lake St. John Railway Company, for a line of rail-	
	way from its junction on the North Shore Railway to St. Raymond, upon condition of the company extending their road to a point 50 miles north of St. Raymond, a subsidy not exceeding \$3,200 per mile	
50 .	nor exceeding in the whole	96,000
	in the whole	19,200

^{*} The extension of the Canadian Pacific Railway from its terminus at St. Martin's Junction, or some other point on the said railway to the harbour of Quebec.

 51. To the Montreal and Champlain Junction Railway Company, for a line of railway from Brosseau's to Dundee, a subsidy not exceeding \$500 per mile, nor exceeding in the whole	\$30,000
nor exceeding in the whole	9 2,00 0
Hill or Rathbun, to Bancroft, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	64,000
54. To the Belleville and North Hastings Railway Company, for a line of railway from the village of Madoc to the junction with the Central Ontario Railway at Eldorado, a subsidy not exceeding \$1,500 per	
mile, nor exceeding in the whole	10,500
mingue, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	25,600
Comber, to Lake Erie, at or near the village of Leamington, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	44,800
57. To the Napanee, Tamworth and Quebec Railway Company, for a line of railway from Tamworth towards Bogart and Bridgewater, 16 miles, in lieu of the subsidy granted by 47 Vic., chap. 8, a subsidy of	70,00 0
58. To the Gatineau Railway Company, for a line of railway from Hull station towards Le Désert, a distance of 62 miles, in lieu of the subsidies	•
granted by 46 Vic., chap. 25, and 47 Vic., chap. 8, a subsidy of 59. For a line of railway from the Grand Piles, on the River St. Maurice, to its junction with Lake St. John Railway, a distance of about 50	320,000
miles, in lieu of the subsidy granted by 47 Vic., chap. 8, for a line of railway from the Grand Piles, on the River St. Maurice, to Lake	
Edward, a subsidy of	217,600
sidy not exceeding \$1,600 per mile, and from one and a half miles west of Johnston's to Lacolle; also from the present terminus at	
Ottawa, to the Chaudiere Falls, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	96,000
61. For a line of railway from Indiantown via the Miramichi Valley, to its junction with the Northern and Western Railway at or near Boiestown, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole.	140,800

"The subsidies hereinbefore mentioned as to be granted to companies named for that purpose shall be granted to such companies, respectively; the other subsidies shall be granted to such companies as shall be approved by the Governor in Council as having established to his satisfaction their ability to construct and complete the said railways, respectively. All the lines for the construction of which subsidies are granted shall be commenced within two years from the first day of August next, and completed within a reasonable time, not to exceed four years, to be fixed by Order in Council; and shall also be constructed according to descriptions, specifications and upon conditions to be approved by the Governor in Council, on the report of the Minister of Railways and Canals, and specified in an agreement to be made in each case by the company with the Government, and which the Government is hereby empowered to make; the location, also, of every line of railway shall be subject to the approval of the Governor in Council; and all the said subsidies, respectively, shall be payable out of the Consolidated Revenue Fund of Canada, by instalments, on the completion of each section of the railway of not less than ten miles, proportionate to the value of the portion so completed in comparison with that of the whole work undertaken, to be established by the report of the said Minister.

"Provided always, that the granting of such subsidies to the companies mentioned, respectively, shall be subject to such conditions for securing such running powers or traffic arrangements and other rights as will afford all reasonable facilities and equal mileage rates to all railways connected with those so subsidized, as the Governor in Council may determine."

By the Act 48-49 Vic., cap. 58, 1885 (Assented to 20th July, 1885):—

- 62. For a railway from a point on the Intercolonial Railway at Rivière du Loup or Rivière Ouelle, in the province of Quebec, to Edmundston, in the province of New Brunswick, a subsidy not exceeding two thousand eight hundred dollars per mile for seventy-five miles, and six thousand dollars per mile for eight miles, nor exceeding in the whole two hundred and fifty-eight thousand dollars; the said subsidy to be in addition to the subsidy authorized to be granted in aid of the construction of the said railway by the Act forty-fifth Victoria, chapter fourteen, and constituting with the subsidy so authorized, a subsidy not exceeding in the whole four hundred and ninety-eight thousand dollars, and to be granted for the said railway upon the terms and conditions specified in the said Act, and payable out of the Consolidated Revenue Fund of Canada; and for the purpose of incorporating the persons undertaking the construction of the said railway and those who shall be associated with them in the undertaking, the Governor may grant to them, under such corporate name as he shall deem expedient, a charter conferring upon them the franchises, privileges and powers requisite for the said purposes, which shall be similar to such of the franchises, privileges and powers granted to railway companies during the present session as the Governor shall deem most useful or appropriate to the said undertaking; and such charter being published in the Canada Gazette, with any Order or Orders in Council relating to it, shall have force and effect as if it were an Act of the Parliament of Canada.
- 63. For a line of railway from the south bank of the St. Lawrence river, opposite or near Montreal, to the harbours of St. Andrew's, St. John and Halifax via Sherbrooke, Moosehead Lake, Mattawamkeag, Harvey, Fredericton and Salisbury, a subsidy not exceeding eighty thousand dollars per annum for twenty years, forming in the whole, together with the subsidy authorized by the Act forty-seventh Victoria, chapter eight, for a line of railway connecting Montreal with the said harbours of St. John and Halifax by the shortest and best practicable route, which the line above described is found to be, a subsidy not exceeding two hundred and fifty thousand dollars per annum, the whole of which shall be paid in aid of the construction of such a line of railway for a period of twenty years, or a guarantee bond of a like sum for a like period as interest on the bonds of the company undertaking the work; the said subsidy to be so granted upon the terms and conditions of and payable out of the Consolidated Revenue Fund in the manner specified in the said last mentioned Act in respect of the subsidy thereby authorized in aid of the said line of railway.

64. The Governor in Council may grant a further subsidy as an aid towards procuring free access as hereinafter described for the trains and traffic of the Canadian Pacific Railway Company from St. Martin's Junction, near Montreal, or from some other point on their railway to be selected by the said company, to the harbour of Quebec, in such a manner as shall be approved by the Governor in Council, that is to say: an additional subsidy not exceeding three hundred and forty thousand dollars, constituting, together with the subsidy authorized by the said last mentioned Act, to aid in procuring the extension of

the Canadian Pacific Railway to Quebec, and the subsidy also thereby authorized to aid in constructing a line connecting the Canadian Pacific Railway at the Jacques Cartier Union Junction with the North Shore Railway proper (which subsidies shall be applicable to the said first mentioned purpose) a sum not exceeding in the whole the sum of one million five hundred thousand dollars, payable out of the Consolidated Revenue Fund of Canada.

The said Act further provided as follows in relation to this matter:-

"If it should be expedient so to do in order to facilitate such access, the Governor in Council may acquire the North Shore Railway, and may apply the said sum of one million five hundred thousand dollars, or any part thereof, in aid of such acquisition and upon such acquisition may transfer and convey or lease the said railway to the Canadian Pacific Railway Company, subject to such obligation as the Government shall have assumed in acquiring it."

assumed in moduling in	
By the Act 49 Vic., cap. 10, 1886 (Assented to 2nd June, 1886):— 65. For a railway from a point at or near Moncton, to Buctouche, in the pro-	
vince of New Brunswick, thirty miles, a subsidy not exceeding \$3,200	
per mile, nor exceeding in the whole\$	96,000
66. For a railway from Ingersoll via London to Chatham, in the province	,
of Ontario, eighty miles, a subsidy not exceeding \$3,200 per mile, nor	
exceeding in the whole	256,000
67. To the Northern and Western Railway Company, for ten miles of their	•
railway, intervening between the termini of the portions of their	
railway for which subsidies are already granted, the one from Fred-	
ericton and the other from Indiantown, and an extension of two miles	
down to deep water at Chatham, in the province of New Brunswick,	
a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole.	32,000
68. To the Caraquet Railway Company, for ten miles of their railway, from	,
the end of the present subsidized portion at Lower Caraquet to Ship-	
pegan, in the province of New Brunswick, a subsidy not exceeding	
\$3,200 per mile, nor exceeding in the whole	32,000
69. To the Lake Erie, Essex and Detroit River Railway Company, for thirty-	•
seven miles of their railway, from Windsor to Leamington, in the	
province of Ontario, a subsidy not exceeding \$3,200 per mile, nor	
exceeding in the whole	118,400
70. To the Thunder Bay Colonization Railway Company, for fifty-six miles	•
of their railway, from the end of the present subsidized section to a	
point near Crooked Lake, in the province of Ontario, a subsidy not	
exceeding \$3,200 per mile, nor exceeding in the whole	179,200
71. To the Parry Sound Colonization Railway Company, for forty miles of	
their railway, from the village of Parry Sound to the village of Sund-	
ridge, on the line of the Northern Pacific Junction Railway, in the	
province of Ontario, a subsidy not exceeding \$3,200 per mile, nor	
exceeding in the whole	128,000
72. For a railway from a point at or near New Glasgow or St. Lin, to ornear	
to Montcalm, in the province of Quebec, eighteen miles, a subsidy not	
exceeding \$3,200 per mile, nor exceeding in the whole	57,600
73. For a railway from Hereford to the International Railway, in the	
township of Eaton, in the province of Quebec, thirty-four miles, a	
subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	108,800
74. For a railway from St. Félix to Lake Maskinongé, parish of St. Gabriel	
in the province of Quebec, ten miles, a subsidy not exceeding \$3,200	
per mile, nor exceeding in the whole	32,000
75. For a railway from Glenannan to Wingham, in the province of Ontario,	
five miles, a subsidy not exceeding \$3,200 per mile, nor exceeding in	
the whole	16,000

76.	For a railway from a point at or near the McCann Station, on the Inter-	
	colonial Railway, to the Joggins, on Cumberland Basin, in the province	
	of Nova Scotia, twelve miles, a subsidy not exceeding \$3,200 per	
	mile, nor exceeding in the whole\$	38,400
77.	For a railway from L'Assomption to L'Epiphanie, in the province of	•
•••	Quebec, three miles and a half, a subsidy not exceeding \$3,200 per	
	mile, nor exceeding in the whole	11,200
78.	To the Montreal and Western Railway Company, for seventy miles of	,
• 3.	their railway from St. Jérôme, north-westerly towards Désert, in	
	the province of Quebec, a subsidy of \$5,161 per mile, in lieu of the	
	subsidies granted by 46 Vic., chap. 25, and 47 Vic., chap. 8, not ex-	
	ceeding in the whole	361,270
P(1)	For a railway from St. Andrew's to the Canadian Pacific Railway at or	001,210
70.	at any point east of the town of I achieve in the county of Argon	
	at any point east of the town of Lachute, in the county of Argen-	
	teuil, in the province of Quebec, seven miles, in lieu of the subsidy	
	granted by 47 Vic., chap. 8, a subsidy not exceeding \$3,200	99.400
~~	per mile, nor exceeding in the whole	22,400
80.	To the Canada Atlantic Railway Company, for twelve miles of their	
	railway from Clark's Island to Valleyfield, and from Lacolle, in the	
	province of Quebec, to the international boundary, a subsidy not	60 400
	exceeding \$3,200 per mile, nor exceeding in the whole	3 8, 4 00
81.	For a railway from Truro to Newport, in the province of Nova Scotia,	
	forty-nine miles, a subsidy not exceeding \$3,200 per mile, nor ex-	***
	ceeding in the whole	156,8 00
82	To the Quebec and Lake St. John Railway Company, for ninety-five	
	miles of their railway, from a point fifty miles north of St. Raymond	
	to Lake St. John, in the province of Quebec, a subsidy not exceeding	
	\$1,961 per mile, nor exceeding in the whole (in addition to the sub-	
	sidy granted by 45 Victoria, chapter 14, and 46 Victoria, chapter 25,	
	of \$3,200 per mile)	186,29 5
83.	To the Cap Rouge and St. Lawrence Railway Company, for twelve miles	
	of their railway from Lorette via Cap Rouge to Quebec, in the pro-	
	vince of Quebec, a subsidy not exceeding \$3,200 per mile, nor ex-	
	ceeding in the whole	38,400
84 .	For the construction of wharfs and landing stages on the line of the	
	railway from Long Sault to the foot of Lake Temiscamingue, a sub-	
	sidy of	6,000
85	To the Gananoque, Perth and James Bay Railway Company, seventeen	
	miles, a subsidy not exceeding \$3,200 per mile, nor exceeding in the	
	whole	54,4 00
86	. For a railway from St. Eustache to St. Placide, county of Two Moun-	•
	tains, eighteen miles, a subsidy not exceeding \$3,200 per mile, nor	
	exceeding in the whole	57,600
87	. For a railway from a point on the Intercolonial Railway through the	•
•	Stewiacke Valley, on the line which will afford facilities of commu-	
	nication with the Iron Mines, Spring Side, Upper Stewiacke and	
	Musquodoboit settlements, twenty-five miles, a subsidy not exceed-	
	ing \$3,200 per mile, nor exceeding in the whole	80,000
66	For a railway from Yamaska to the River St. Francis, in the province	,
33	of Quebec, ten miles, a subsidy not exceeding \$3,200 per mile, nor	
	exceeding in the whole	32,000
20	For a railway from Perth Centre station, on the New Brunswick Rail-	02,000
91	way, to a point near Plaister Rock Island, in the province of New	
	Brunswick, twenty-eight miles, a subsidy not exceeding \$3,200 per	
	mile, nor exceeding in the whole	89,600
6 0	For a railway from Fredericton to the village of Prince William, in the	00,000
90	province of New Brunswick, twenty-two miles, a subsidy not exceed-	
	ing \$2,000 nor mile nor exceeding in the whole	70.400
	ing \$3,200 per mile, nor exceeding in the whole	70,400

91. For a railway from a point on the Intercolonial Railway near Newcastle	
or via Douglastown to a point on the River Miramichi, opposite the	
town of Chatham, in the province of New Brunswick, six miles, a	
subsidy not exceeding \$3,200 per mile, nor exceeding in the whole.	\$19,200
92. For a railway from a point on the Canadian Pacific Railway to Egan-	• ,
ville, in the province of Ontario, twenty-two miles, a subsidy not	
exceeding \$3,200 per mile, nor exceeding in the whole	70,400
93. To the Belleville and North Hastings Railway Company, for seven miles	,
of their railway, from the village of Madoc to the junction with the	
Central Ontario Railway at Eldorado, in the province of Ontario, a	
subsidy (in addition to the subsidy of \$1,500 per mile granted by	
48-49 Victoria, chapter 59), not exceeding \$1,700 per mile, nor ex-	
ceeding in the whole	11,900
94. To the Napanec, Tamworth and Quebec Railway Company, for eighteen	,
miles of their railway from Tamworth to Tweed, in lieu of the sub-	
sidy granted by 48-49 Victoria, chapter 59, a subsidy of	70,000
95. To the Albert Railway Company, for their railway from Salisbury to	,
Hopewell, in the province of New Brunswick, which is a feeder to	
the Intercolonial Railway, in the form of a loan, repayable at such	
time and secured in such manner as the Governor in Council deter-	
mines, a subsidy of	15,000
mino, a subsay or	10,000

"The subsidies hereinbefore mentioned as to be granted to the companies named for that purpose shall be granted to such companies respectively; the other subsidies shall be granted to such companies as shall be approved by the Governor in Council as . having established, to his satisfaction, their ability to construct and complete the said railways respectively. All the lines for the construction of which subsidies have been granted shall be commenced within two years from the first day of August next, and completed within a reasonable time, not to exceed four years, to be fixed by Order in Council, and shall be so constructed according to descriptions and specifications and upon conditions to be approved by the Governor in Council, on the report of the Minister of Railways and Canals, and specified in the agreement to be made in each case by the company to the Government, and which the Government is hereby empowered to make: the location, also, of every such line of railway shall be subject to the approval of the Governor in Council, and all the said subsidies, respectively, shall be payable out of the Consolidated Revenue Fund of Canada, by instalments on the completion of each section of the railway of not less than ten miles, proportionate to the value of the portion so completed in comparison with that of the whole work undertaken, to be established by the report of the said Minister: Provided always, that the granting of such subsidies to the companies mentioned, respectively, shall be subject to such conditions for securing such running powers or traffic arrangements, and other rights, as will afford all reasonable facilities and equal mileage rates to all railways connecting with those so subsidized, as the Governor in Council may determine."

By section 2 of this Act authority was given for the grant of a charter by the Governor in Council for the purpose of constructing a railway from Long Sault to the foot of Lake Temiscamingue.

99.	To the Drummond County Railway Compuny, for thirty miles of their railway from Drummondville towards Nicolet, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	96,000
100.	To the Jog ins Railway Company, for one and a quarter miles of their railway extending from the southern end of the portion subsidized by the Act 49 Victoria, chapter 10, to the wharfs, a subsidy not	,
101.	exceeding \$3,200 per mile, nor exceeding in the whole	4,000
102.	per mile, nor exceeding in the whole	6,400
103.	exceeding \$3,200 per mile, nor exceeding in the whole To the Harvey Branch Railway Company, for three miles of their railway from the southern terminus of the Albert Railway to	96,000
104.	Harvey Bank, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	9,600
105.	mediate point on the Canada Southern Railway, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	57,600
106.	ing in the whole	51,200
107.	in the whole	32,000
108.	not exceeding \$3,200 per mile, nor exceeding in the whole To the Dominion Lime Company, for seven miles of their railway from a point on the Quebec Central Railway, in the township of	12,800
109.	Dudswell, to the Dudswell Lime Company's quarries, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole To the South Norfolk Railway Company, for seventeen miles of their railway from Port Rowan to the town of Simcoe, a subsidy not	22,400
110.	exceeding \$3,200 per mile, nor exceeding in the whole	54,400
	completing their railway, a subsidy of	20,000
112.	ing in the whole	76,800
113.	exceeding \$3,200 per mile. nor exceeding in the whole	22,400
	\$3,200 per mile, nor exceeding in the whole	96,000

114. To the Great Eastern Railway Company, for thirty miles of their reway from the River St. Francis to the Arthabaska Railway, at Grégoire station, a subsidy not exceeding \$3,200 per mile, nor	St.
ceeding in the whole	\$9 6,000 eir Act
\$3,200 per mile, nor exceeding in the whole	19,200 om the
117. To the St. Lawrence and Lower Laurentian and Saguenay Railw Company, for the section of this railway from Grand Piles, on St. Maurice River, to its junction with the Quebec and Lake St. Jo Railway, in lieu of the subsidy granted by the Act passed in session held in the forty-eighth and forty-ninth years of Her Majest reign, chapter 59, for a line of railway from Grand Piles, on the Maurice River, to its junction with the Lake St. John Railway	the hn che y's St.
distance of about fifty miles, a subsidy of	am
119. To the Lake Temiscamingue Railway Company, for four short sections railway, in all about two miles in length, to overcome the rapids the Ottawa River, known as "La Mi-Charge," "La Cave," "I "Erables," and "La Montagne," and for the construction of what and landing stages at these rapids, to connect the Canadian Paca Railway at Mattawa with Lake Temiscamingue by steamboats, rways and other works (in lieu of a portion two miles in length, out the eight miles of railway subsidized by the Act passed in the sess held in the forty-eighth and forty-ninth years of Her Majesty's reichapter 59, under which about six miles of railway have already be built from the foot of Long Sault proper to the foot of Lake Temis mingue, and in lieu also of the subsidy granted by the Act 49 W	of of ces rfs ific of con gn,
toria, chapter 10), a subsidy of	12,400 of
 121. To the Minudie Branch Railway Company, for five and a half miles their railway from its junction with the Joggins Railway, near River Hébert railway bridge, to the village of Minudie, a subsidy exceeding \$3,200 per mile, nor exceeding in the whole	of the not 17,600 for
Kippewa, a subsidy not exceeding \$3,200 per mile, nor exceeding the whole	in 33,600 of the ath
subsidy not exceeding \$3,200 per mile, nor exceeding in the who 124. To the Cumberland Railway and Coal Company for fourteen miles their railway from a point on the Spring Hill and Parrsboro' R way, near Spring Hill, to a point on the railway between Oxford a New Glasgow, near Oxford village, a subsidy not exceeding \$3,5	le. 6,400 of ail- and 200
per mile, nor exceeding in the whole	44,800

125.	To the Montreal and Champlain Junction Railway Company, a sub-	
	sidy of	64,000
126.	To the Quebec and Lake St. John Railway Company, for nine miles of	
	their railway, the distance which the previous subsidies granted are	
	short of covering from the city of Quebec to Lake St. John, a sub-	
	sidy not exceeding \$3,200 per mile, nor exceeding in the whole	28,800
197	To the Temiscouata Railway Company, for thirty miles of a branch of	
1~	their railway from Edmundston towards the St. Francis River, a	
	subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	96,000
108	To the Cornwallis Valley Railway Company, for thirteen miles of their	00,000
148.	railway from Kentville to Kingsport, a subsidy not exceeding \$3,200	
		41,600
-00	per mile, nor exceeding in the whole	¥1,000
129.	To the Nova Scotia Central Railway Company, for thirty-four miles of	
	their railway, a subsidy not exceeding \$3,200 per mile, nor exceeding	100 000
	in the whole	108,800
130.	To the Tobique Valley Railway Company, for fourteen miles of their	
	railway from Perth Centre station towards Plaister Rock Island, in	
	lieu of the subsidy granted by the Act 49 Victoria, chapter 10, for	
	a railway from Perth Centre station, on the New Brunswick Rail-	
	way, to a point near Plaister Rock Island, a subsidy of	89,600
131.	For a railway from Woodstock towards Centreville, twenty miles, a	
	subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	64,000
132.	For a railway bridge over the St. Lawrence River, at Coteau Landing	
	on the line of the Canada Atlantic Railway, a subsidy of fifteen per	
	cent on the value of the structure, not to exceed	180,000
133.	To the Lake Erie, Essex and Detroit River Railway Company, for	
	twenty-seven miles of their railway, in lieu of the subsidy granted by	
	the Act 49 Victoria, chapter 10, a subsidy not exceeding	118,400
"	For the purpose of granting corporate powers to persons or companies	under-
taking	the construction of railways or parts of railways, mentioned in the next	preced-
ing se	ction, for the construction of which no corporate powers exist at the time	of the
passin	g of this Act, the Governor in Council may grant to them, under such co	rporate
name	as he shall deem expedient, a charter conferring upon them the franchises	, privi-
leges a	and powers requisite for the said purposes, as the Governor in Council sha	ll deem
	useful or appropriate to the said undertaking; and such charter being publi	

the Canada Gazette, with any Order or Orders in Council relating to it, shall have force and effect as if it were an Act of the Parliament of Canada.

"The subsidies hereinbefore mentioned as to be granted to companies named for that purpose shall be granted to such companies respectively; the other subsidies, including subsidies granted for railways over a line extending beyond a point to which any company hereinbefore mentioned by name is authorized to construct their railway, shall be granted to such companies as shall be approved by the Governor in Council, as having established, to his satisfaction, their ability to construct and complete the said railways respectively; all the lines for the construction of which subsidies are granted shall be commenced within two years from the first day of August next, and completed within a reasonable time, not to exceed four years, to be fixed by Order in Council; and shall also be constructed according to descriptions and specifications and upon conditions to be approved by the Governor in Council, on the report of the Minister of Railways and Canals, and specified in an agreement to be be made in each case by the company with the Government, and which the Government is hereby empowered to make; the location, also, of every such line of railway shall be subject to the approval of the Governor in Council; and all the said subsidies respectively shall be payable out of the Consolidated Revenue Fund of Canada, by instalments, on the completion of each section of the railway of not less than ten miles, proportionate to the value of the portion so completed in comparison with that of the whole work undertaken, to be established by the report of the said Minister, or upon completion of the work subsidized, except as regards the subsidy for the bridge over the St Lawrence River, upon which shall be paid fifteen per cent of the value of work done on monthly progress estimates, certified by the Chief Engineer, and upon the approval of the Minister of Railways and Canals.

"The granting of such subsidies to the companies mentioned, respectively, shall be subject to such conditions for securing such running powers or traffic arrangements and other rights as will afford all reasonable facilities and equal mileage rates to all railways

connecting with those so subsidized, as the Governor in Council determines.

"Notwithstanding anything contained in the Act forty-fifth Victoria, chapter fourteen, or in the Act forty-sixth Victoria, chapter twenty-five, the balances of the sums granted for a railway from St. Raymond to Lake St. John and to the Quebec and Lake St. John Railway Company by the said Acts respectively, which have not yet been paid by the Government, may be paid at any time within one year from the passing of this Act, subject to the conditions in the said Act contained."

By the Act 51 Vic., cap. 3, 1888 (Assented to 22nd May, 1888):— 134. To the Ottawa and Parry Sound Railway Company, for 22 miles of their railway from a point on the Canadian Pacific Railway to Eganville, in lieu of the subsidy granted by 49 Victoria, chapter 10, for a railway from a point on the Canadian Pacific Railway to Eganville, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole..... \$ 70,400 00 135. To the Nova Scotia Central Railway Company, for 46 miles of their railway, in the province of Nova Scotia, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole...... 147,200 00 136. To the Montreal and Champlain Junction Railway Company, for 3 miles of their railway from the end of the present subsidized section, a subsidy not exceeding \$3,200 per mile, nor exceeding 9,600 00 in the whole...... 137. To the Massawippi Junction Railway Company, for their railway from a point on the Atlantic and North-west Railway, near the village of Magog, to Ayer's Flat station, on the Massawippi Valley Railway, in lieu of the subsidy granted by 50-51 Victoria, 32,000 00 the several channels of the Ottawa River at Culbute and west thereof, a subsidy of \$31,500, to be paid out monthly as the work progresses, upon the certificate of the Chief Engineer of Government railways, in the proportion which the value of the work executed bears to the value of the whole work undertaken, and for three miles of their railway extending from a point three miles east of Pembroke to Pembroke, in the province of Ontario, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole \$9,600, provided that the entire work subsidized upon this railway shall be completed within four years from the passing of this Act, the subsidy granted by this Act not to exceed in the 41,100 00 84] miles of their railway from Port Arthur towards Gun Flint Lake, in lieu of the subsidies granted by 48-49 Victoria, chapter 59, and 49 Victoria, chapter 10, for the construction of a railway from Murillo Station to Crooked Lake, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole...... 271,200 00 140. To the Quebec and Lake St. John Railway Company, for 30 miles of their railway from Lake St. John towards Chicoutimi, or from Chicoutimi towards Lake St. John, being a transfer made at the request of the Saguenay and Lake St. John Railway Company of the subsidy granted to them by 50-51 Victoria, chapter 24, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole 96,000 00

141. To the Temiscouata Railway Company, for 20 miles of their branch railway from Edmundston towards the St. Francis River, in the province of Quebec, in lieu of the subsidy granted by 50-51		
Victoria, chapter 24, a subsidy of. 142. To the Quebec Central Railway Company, for the construction and completion of a line of railway from St. Francis Station to a point on the Atlantic and North-west Railway near Moose River, 90 miles, in lieu of the balance of the subsidy, unearned, granted by 47 Victoria, chapter 8, a subsidy not exceeding \$21,191.54 per annum for twenty years, or a guarantee of a like sum for a like period as interest on the bonds of the company, such annual subsidy for twenty years representing a grant in cash of	\$100,000 °C	
143. To the Central Railway Company of New Brunswick, a grant as subsidy (the road to be first laid with new steel rails weighing not less than 56 pounds per lineal yard, and after an Order in Council has been passed authorizing their transfer to the company) of 4,052 tons of used iron rails and fastenings, loaned to the St. Martin's and Upham Railway Company, now forming part of the Central Railway, which rails and fastenings stand		
in the Public Accounts as an asset for 144. To the Elgin, Petitcodiac and Havelock Railway Company of New Brunswick, a grant as subsidy (the road to be first laid with new steel rails weighing not less than 56 pounds per lineal yard, and after an Order in Council has been passed authorizing their transfer to the company) of 2,201 tons of used iron rails and fastenings loaned to the Elgin Branch Railway, now forming part of the Elgin, Petitcodiac and Havelock Railway, which	83,612	54
rails and fastenings stand in the Public Accounts as an asset for 145. To the Kent Northern Railway Company of New Brunswick, a grant as subsidy (the road to be first laid with new steel rails weighing not less than 56 pounds per lineal yard, and after an Order in Council has been passed authorizing their transfer to the company) of 2,549 tons of used iron rails and fastenings loaned to the company, which rails and fastenings stand in the	44,252	82
Public Accounts as an asset for	58,334	
an asset for	4,335	00
counts as an asset for		66
Public Accounts as an asset for	14,665	45

149. To the Chatham Branch Railway of New Brunswick, a grant as subsidy (the road to be first laid with new steel rails weighing not less than 56 pounds per lineal yard, and after an Order in Council has been passed authorizing their transfer to the company) of 958 tons of used iron rails and fastenings loaned to the company, which rails and fastenings stand in the Public Accounts as an asset for......

\$24,439 84

"All the lines, for the construction of which subsidies are granted, shall be commenced within two years from the first day of August next, and completed within a reasonable time, not to exceed four years, to be fixed by Order in Council, and shall also be constructed according to descriptions and specifications, and upon conditions to be approved by the Governor in Council, on the report of the Minister of Railways and Canals, and specified in an agreement to be made in each case by the company with the Government, and which the Government is hereby empowered to make; the location also of every such line of railway shall be subject to the approval of the Governor in Council; and also the said subsidies respectively, payable in cash, shall be payable out of the Consolidated Revenue Fund of Canada by instalments, on the completion to the satisfaction of the Minister of Railways and Canals of each section of the railway of not less than 10 miles, proportionate to the value of the portion so completed in comparison with that of the whole work undertaken, to be established by the report of the said Minister, or upon completion of the work subsidized."

By the Act 52 Vic., chap. 3, 1889. (Assented to 2nd May, 1889):-		
150. To the Ontario and Pacific Railway Company, for a line of rail-		•
way from Cornwall to Ottawa, a subsidy not exceeding \$3,200		
	\$172,400	00
151. To the Ottawa and Gatineau Railway Company, for a line of rail-		
way from Hull station towards Le Désert, a distance of sixty-	320,000	00
two miles, a subsidy not exceeding in the whole	320,000	UU
twelve miles of their railway, from Lorette via Cap Rouge to		
Quebec, in the province of Quebec, a subsidy not exceeding		
\$3,200 per mile, nor exceeding in the whole	38,400	00
153. To the Parry Sound Colonization Railway Company, for forty	•	
miles of their railway, from the village of Parry Sound to the	•	
village of Sundridge, or some other point on the line of the		
Northern and Pacific Junction Railway, in the province of		
Ontario, a subsidy not exceeding \$3,200 per mile, nor exceeding	100 000	00
in the whole	128,000	UU
at or at any point east of the town of Lachute, in the county of		
Argenteuil, in the province of Quebec, seven miles, a subsidy		
not exceeding \$3,200 per mile, nor exceeding in the whole	22,400	00
155. For a railway from Truro, or a point between Truro and Stewiacke,	,	
to Newport or to Windsor, in the province of Nova Scotia, forty-		
nine miles, a subsidy not exceeding \$3,200 per mile, nor exceed-		
ing in the whole	156,800	00
156. For a line of the Central Railway from the head of Grand Lake		
to the Intercolonial Railway, in the province of New Brunswick, a subsidy not exceeding \$3,200 per mile, nor exceeding		
in the whole	128,000	00-
157. To the Albert Southern Railway Company, the balance remaining	120,000	00/
unpaid of the subsidy granted by the Act 47th Victoria, chapter		
8, not exceeding in the whole	31,771	43
158. To the Baie des Chaleurs Railway Company, the balance remaining		
unpaid of the subsidy mentioned in the Act 49th Victoria,		
chapter 17, not exceeding in the whole	244, 500	00

159. To the Irondale, Bancroft and Ottawa Railway Company, for a line of railway from the Victoria Branch of the Midland Railway to		
the village of Bancroft, in the county of Hastings, the balance remaining unpaid of the subsidy granted by the Act 47th Victoria, chapter 8, not exceeding in the whole	\$145,000 00	
railway from Gravenhurst to Callander, the balance remaining unpaid of the subsidies granted by the Act 45th Victoria, chapter 14, and 46th Victoria, chapter 25, not exceeding in the whole.	35,000 00	
161. For a railway from some point on the Joggins Railway, near the Hébert River, to Young's Mills, in the province of Nova Scotia, a distance of five miles, a subsidy not exceeding \$3,200 per mile, and not exceeding in the whole	16,000 00	
162. To the St. Clair Frontier Tunnel Company, for the construction of a tunnel under the St. Clair River, from a point at or near Sarnia, to a point at or near Port Huron, a subsidy not exceeding in the model.	275 000 00	
ing in the whole	375,000 00	
exceeding in the whole	19,200 00	
ing in the whole	96,000 00	
Brunswick, a subsidy not exceeding in the whole	30,000 00	
at or near Sydenham, a subsidy not exceeding \$3,200 per mile, and not exceeding in the whole		
such railway, a subsidy not exceeding \$3,200 per mile, and not exceeding in the whole	163,200 00	,
Victoria, chapter 24, to Kingsport, in the province of Nova Scotia, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	3,200 00)
for fifteen miles of their railway, from Mattawa station on the Canadian Pacific Railway, towards the Long Sault, or from the Long Sault towards the said Mattawa station, in the province of Quebec, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	(
in the whole. 170. To the Maskinongé and Nipissing Railway Company, for fifteen miles of their railway, from a point on the Canadian Pacific Railway at or near Maskinongé or Louiseville, towards the parish of Saint-Michel des Saints, on the River Mattawin, in the province of Ouches, a subsidy not avocading \$2,200.	: :	,
vince of Quebec, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	48,000 00)

171. To the Kingston, Smith's Falls and Ottawa Railway Company, for twenty miles of their railway, from the city of Kingston towards	
Smith's Falls, in the province of Ontario, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	\$ 64,000 00
the province of Ontario, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	158,400 00
per mile, nor exceeding in the whole	16,000 00
exceeding in the whole	64,000 00
exceeding \$3,200 per mile, nor exceeding in the whole 176. To the St. Catharines and Niagara Central Railway Company, for twenty miles of their railway, from the end of the line subsidized by the Act 50-51 Victoria, chapter 24, at St. Catharines, towards the city of Hamilton, in the province of Ontario, a subsidy not	14,400 00
exceeding \$3,200 per mile, nor exceeding in the whole 177. To the Quebec and Lake St. John Railway Company, for twenty miles of their railway, from the end of the section of thirty miles from Lake St. John towards Chicoutimi, subsidized by the Act 51 Victoria, chapter 3, towards Chicoutimi, in the province of Quebec, a subsidy not exceeding \$3,200 per mile, nor exceed-	64,000 00
ing in the whole	64,000 00
ing \$3,200 per mile, nor exceeding in the whole	48,000 00
exceeding \$3,200 per mile, nor exceeding in the whole 180. To the Massawippi Junction Railway Company, for fifteen miles of their railway, from Ayer's Flat to Coaticook, in the province of Quebec, a subsidy not exceeding \$3,200 per mile, nor exceed-	48,000 00
ing in the whole	48,000 00
sidy not exceeding \$3,200 per mile, nor exceeding in the whole. 182. To the Thousand Islands Railway Company, for four miles of their railway, from a point near the St. Lawrence River, in Ganano-que village, to Gananoque Junction of the Grand Trunk Railway, and for thirteen miles of their railway, from Gananoque Junction of the Grand Trunk Railway to a junction with the Brockville, Westport and Sault Ste. Marie Railway, in the province of Ontario, a subsidy not exceeding \$3,200 per mile, nor exceeding	64,000 00
in the whole	54,400 00

\$64,000 00

64,000 00

"So much of the subsidy of three thousand two hundred dollars per mile, which under the provisions of the Act forty-ninth Victoria, chapter seventeen, and of this Act, may be paid to the Baie des Chaleurs Railway Company in respect of the thirty miles of their railway, from the seventieth to the hundredth mile, eastward from Metapediac, shall be applicable to the section of the said railway, comprised between the fortieth and the seventieth mile thereof, eastward from Metapediac, instead of to the said first mentioned section of thirty miles, making six thousand four hundred dollars per mile applicable to the econdly mentioned section of thirty miles; but the foregoing provision shall be subject to the condition that the said company undertake to complete the thirty miles of their railway from the seventieth to the hundredth mile eastward from Metapediac within a reasonable time, not to exceed four years, to be fixed by Order in Council, and without any further subsidy from the Government of Canada, and that they deposit with the Minister of Railways and Canals, as security to the Crown that they will well an i truly carry out their undertaking, their bonds to the amount of two hundred thousand dollars.

"The subsidies hereinbefore mentioned as to be granted to companies named for that purpose, shall be granted to such companies respectively; all the lines for the construction of which subsidies are granted, unless they are already commenced, shall be commenced within two years from the first day of August next, and completed within a reasonable time, not to exceed four years, to be fixed by Order in Council, and shall also be constructed according to descriptions and specifications and upon conditions to be approved by the Governor in Council, on the report of the Minister of Railways and Canals, and specified in an agreement to be made in each case by the company with the Government, and which the Government is hereby empowered to make; the location, also, of every such line of railway shall be subject to the approval of the Governor in Council; and all the said subsidies, respectively, shall be payable out of the Consolidated Revenue Fund of Canada, by instalments, on the completion of each section of the railway of not less than ten miles, proportionate to the value of the portion so completed in comparison with that of the whole work undertaken, to be established by the report of the said Minister, or upon the completion of the work subsidized, except as respects the tunnel under the St. Clair River, in which case there shall be paid fifteen per cent of the value of work done on monthly progress estimates, certified by the Chief Engineer, and upon the approval of the Minister of Railways and Canals.

"The granting of such subsidies, respectively, shall be subject to such conditions for securing such running powers or traffic arrangements and other rights, as will afford all reasonable facilities and equal mileage rates to all railways connecting with those so

subsidized, as the Governor in Council determines.

"And for the removal of doubts it is hereby declared and enacted that the provision in the Act passed in the fifty-first year of Her Majesty's reign, and chaptered three, relating to the Pontiac Pacific Junction Railway Company, extended and extends the several subsidies in aid of the said company for four years from the passing of the said Act, that is to say, from the twenty-second day of May, one thousand eight hundred and eighty-eight."

By the Special Act, 52 Vic., cap. 5, 1889 (Assented to 2nd May, 1889):—
185. In order to enable the Qu'Appelle, Long Lake and Saskatchewan
Railroad and Steamboat Company to complete their railway
from Regina to some point on the South Saskatchewan River
at or near Saskatoon, and thence northward to Prince Albert,
the Governor in Courcil may enter into a contract with such
company for the transport of men, supplies, materials and mails,

83,000

96,000

16,000

160,000

for twenty years, and may pay for such services during the said term, eighty thousand dollars per annum in manner following, that is to say:—the sum of fifty thousand dollars to be paid annually on the construction of the railway to a point at or near Saskatoon, such payment to be computed from the date of the completion of the railway to such point; and the remaining thirty thousand dollars annually on the extension of the railway to Prince Albert, such payment to be computed from the date of such last mentioned completion: Provided that if the second portion of the said railway is not built and operated to Prince Albert within two years after the completion of the railway to the South Saskatchewan as aforesaid, the payment of fifty thousand dollars shall cease until the whole railway is finished to Prince Albert. By the Act 53 Vic., cap. 2, 1890 (Assented to 16th May, 1890):— 186. To the Montreal and Ottawa Railway Company, for thirty miles of their railway, from the western end of the thirty-six miles subsidized by the Act 50-51 Victoria, chapter 24, towards Ottawa, a subsidy not exceeding \$3,200 per mile, and not exceeding in the whole..... \$ 96,000 187. To the Waterloo Junction Railway Company, for eleven miles of their railway, from Waterloo to Elmira, a subsidy not exceeding \$3,200 per mile, and not exceeding in the whole...... 35,200 188. To the Northern and Pacific Junction Railway Company, for a railway from Gravenhurst to Callander, the balance remaining unpaid of the subsidies granted by the Acts 45 Victoria, chapter 14, and 46 Victoria, chapter 25, not exceeding in the whole... 600 189. For a railway from Woodstock via London to Chatham, in the province of Ontario, thirty miles in lieu of the subsidy granted by the Act 49 Victoria, chapter 10, for a railway from Ingersoll via London to Chatham, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole..... 256,000 190. To the St. Catharines and Niagara Railway Company, for fourteen miles of their railway, from the end of the twenty miles subsidized by the Act 52 Victoria, chapter 3, to Hamilton, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole. 44,800 191. To a railway from Ottawa to Morrisburg, fifty-two miles, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole..... 166,400 192. To the Erie and Huron Railway Company, for twenty-two miles of their railway from Petrolea via Oil Springs to Dresden, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole. 70,400 193. To the Brockville, Westport and Sault Ste. Marie Railway Company, for a railway from Brockville to Westport, the balance remaining unpaid of the subsidy granted by the Act 48-49 Victoria,

miles of their railway, on a line to be fixed by the Governor in Council, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole.....

196. To the Lake Erie and Detroit River Railway Company, for fifty

26

chapter 59, not exceeding in the whole......

miles of their railway from Little Current to the Algoma Branch of the Canadian Pacific Railway, a subsidy not exceed ing \$3,200 per mile, nor exceeding in the whole...........

five miles of their railway, being a branch of the main line of railway to the Kakabeka Falls, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole.....

194. To the Manitoulin and North Shore Railway Company, for thirty

195. To the Port Arthur, Duluth and Western Railway Company, for

197. To the Lindsay, Bobcaygeon and Pontypool Railway Company, for sixteen miles of their railway, from Bobcaygeon to the Midland Railway, a subsidy not exceeding \$3,200 per mile, nor	# #1 000
exceeding in the whole	\$ 51,200
exceeding in the whole	115,200
not exceeding \$3,200 per mile, nor exceeding in the whole	96,000
200. To the Belleville and Lake Nipissing Railway Company, for thirty miles of their railway, from Belleville to Tweed and thence to Bridgewater, a subsidy not exceeding \$3,200 per mile,	
nor exceeding in the whole	96,000
201. To the Cobourg, Northumberland and Pacific Railway Company, for thirty miles of their railway from Cobourg to the Ontario and Quebec Railway, a subsidy not exceeding \$3,200 per mile,	
nor exceeding in the whole	96,000
202. To the St. Stephen and Milltown Railway Company, for three and a half miles of their railway, from the town of St. Stephen to the town of Milltown, a subsidy not exceeding \$3,200 per mile,	
nor exceeding in the whole	11,200
203. To the Woodstock and Centreville Railway Company, for six miles of their railway, from the western end of the twenty miles subsidized by the Act 50-51 Vic., chap. 24, to the International boundary between the province of New Brunswick and the	·
state of Maine, a subsidy not exceeding \$3,200 per mile, nor ex-	
ceeding in the whole	19,200
west of Westfield station, for thirty miles thereof, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	96,000
205. To the Central Railway Company of New Brunswick, for four and a half miles of their railway, the distance which the pre-	20,000
vious subsidy granted is short of covering, from the head of Grand Lake to the Intercolonial Railway, a subsidy not exceed-	
ing \$3,200 per mile, nor exceeding in the whole	14,400
206. To the Montreal and Western Railway Company, for seventy	
miles of their railway, from St. Jérôme, north-westerly towards Désert, in the province of Quebec, in lieu of the subsidy	
granted by the Act 49 Vic., chap. 10, a subsidy not exceeding	
\$5,161 per mile, nor exceeding in the whole	361,270 [,]
"Provided, that the subsidy hereby granted to the Montreal and V	Western Com-
nany may be noid by instalments on the completion of each section of t	ha roilway as

"Provided, that the subsidy hereby granted to the Montreal and Western Company may be paid by instalments on the completion of each section of the railway as follows, that is to say:—

SECTIONS.	Approximate length in miles.
St. Jérôme to Shawbridge	. 8
Shawbridge to St. Sauveur	. 4
St. Sauveur to Ste. Adèle	. 6
Ste. Adèle to Lac à la Fourche	. 6
Lac à la Fourche to Ste. Agathe	
Ste. Agathe to St. Faustin	142,
St. Faustin to St. Jovite	
St. Jovite to Summit Lake	. 8 ²
Summit Lake to La Chute aux Iroquois	
La Chute aux Iroquois towards Désert	. 3

compa	Such instalments to be proportionate to the value of the portions so crison with that of the whole work undertaken, to be established as a	completed in foresaid."
207.	For seventy-five miles of the railway from Shelburne, in the county of Shelburne, and from Liverpool, in the county of Queen's towards Annapolis, in the province of Nova Scotia, to be so contracted for as to secure the construction to both Shelburne and Liverpool, a subsidy not exceeding \$3,200 per mile, nor exceeding in the mbelom	@ 940 000
208.	ing in the whole	\$ 240,000
209.	not exceeding \$1,000 per mile, nor exceeding in the whole To the International Railway Company, for a railway from Sherbrooke to the international boundary, the balance remaining unpaid of the subsidy granted by the Act 46 Vic., chapter 25,	50,000
010	not exceeding in the whole	3,840
	to Sorel	40,000
211.	To the Pontiac Pacific Junction Railway Company, for seven and a half miles of their railway, from Hull to Aylmer, a subsidy	
212.	not exceeding \$3,200 per mile, nor exceeding in the whole To the Montreal and Lake Maskinongé Railway Company, for	24,000
	three and a half miles of their railway, the distance which the subsidy granted by the Act 49 Vic., chapter 10, is short of covering from St. Félix to Lake Maskinongé, in the parish of St.	
	Gabriel, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	10,200
213.	To the Great Eastern Railway Company, for a bridge over the Nicolet River, and also a bridge on the St. Francis River, a subsidy of 15 per cent on the value of the structure, not to	
214.	exceed	37, 500
215.	nor exceeding in the whole	76,800
216.	Railway, between Joliette and St. Félix de Valois, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole To the Lake Temiscamingue Colonization Railway Company, for twenty miles of their railway, from the northern end of the	48,000
217.	fifteen miles subsidized by the Act 52 Vic., chapter 3, to the Long Sault, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	64,000
218.	subsidized by the Act 52 Victoria, chapter 3, towards the parish of St. Michel des Saints, on the River Mattawa, in the province of Quebec, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	48,000
219.	not exceeding \$3,200 per mile, nor exceeding in the whole To the Quebec Central Railway Company, for ninety miles of their railway, from St. Francis Station, on the Quebec Central Railway, to a point on the Atlantic and North-western Railway,	57,600

	near Moose River, or from a point on the Quebec Central Railway between the Chaudière River and Tring Station, to a point on the International Railway at or near Lake Megantic, in lieu of the subsidy granted by the Act 51 Victoria, chapter 3, a subsidy not exceeding \$21,191.54 per annum for twenty years, or a guarantee of a like sum for a like period, as interest on the bonds of the company, such annual subsidy for twenty years representing a grant in cash of	\$288,000
220.	To the Quebec and Lake St. John Railway Company, for a railway bridge over the St. Charles River, to give access to the city of Quebec, a subsidy not to exceed in the whole \$30,000; also for twelve miles of their railway from Lorette via Charlesbourg to Quebec, a subsidy not exceeding \$3,200 per mile, nor	•
	exceeding in the whole \$38,400	6 8, 400
221.	For a railway from Summerside to Richmond Bay, in the province of Prince Edward Island, three miles, a subsidy not ex-	0.000
222.	ceeding \$3,200 per mile, nor exceeding in the whole To the Columbia and Kootenay Railway Company, for thirty-five miles of their railway, from the outlet of Kootenay Lake to a point on the Columbia River as near as practicable to the junction of the Kootenay and Columbia Rivers, a subsidy not	9,600
223.	exceeding \$3,200 per mile, nor to exceed in the whole For a railway from a point on the Intercolonial Railway through the Stewiacke Valley on a line which will afford facilities of communication with the Iron Mines, Springside, Upper Stewiacke and Musquodoboit settlements, twenty-five miles, in lieu of the subsidy granted by the Act 49 Victoria, chapter 10, a subsidy	112,000
224.	not exceeding \$3,200 per mile, nor exceeding in the whole For a railway from Fredericton to the village of Prince William in the province of New Brunswick, twenty-two miles, in lieu of the subsidy granted by the Act 49 Victoria, chapter 10, a	80,000
· ·	subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	70,400
225.	To the St. John Valley and Rivière du Loup Railway Company, for twenty-two miles of their railway from the village of Prince William towards the town of Woodstock, in lieu of the subsidy granted by the Act 50-51 Victoria, chapter 24, a subsidy not	,
226 .	exceeding \$3,200 per mile, nor exceeding in the whole To the Témiscouata Railway Company, for sixteen miles of their railway, from the west end of the twenty miles of their branch railway from Edmundston, subsidized by the Act 51 Victoria, chapter 3, towards the St. Francis River, a subsidy not exceed-	70,400
227.	ing \$3,200 per mile, nor exceeding in the whole For a railway from the north end of the fourteen miles for which a subsidy was granted by the Act 50 and 51 Victoria, chapter 24, to the Tobique Valley Railway Company, from Perth Centre	51,200
228.	towards Plaister Rock Island, eleven miles, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole To the Orford Mountain Railway Company, for thirty one miles of their railway, between Eastman and Kingsbury, a subsidy not	35,200
229	exceeding \$3,200 per mile, nor exceeding in the whole For a railway from Lachine Bank, on a line of the Grand Trunk Railway, to a point at or near Rivière des Prairies, a distance of	99,200
	fifteen miles, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	48,000

"The subsidies hereinbefore mentioned as to be granted to companies named for that purpose, shall be granted to such companies respectively; the other subsidies,

including subsidies granted for railways over a line extending beyond a point to which any company hereinbefore mentioned by name is authorized to construct its railway, shall be granted to such companies as shall be approved by the Governor in Council as having established to his satisfaction their ability to construct and complete the said railways respectively. All the lines for the construction of which subsidies are granted shall be commenced within two years from the first day of July next, and completed within a reasonable time, not to exceed four years, to be fixed by Order in Council, except the Erie and Huron Railway, which shall be completed within two years from the first day of July next. And they shall also be constructed according to descriptions and specifications, and upon conditions to be approved by the Governor in Council, on the report of the Minister of Railways and Canals, and specifying an agreement to be made in each case by the company with the Government, and which the Government is hereby empowered to make. The location, also, of every such line of railway shall be subject to the approval of the Governor in Council. And all the said subsidies respectively shall be payable out of the Consolidated Revenue Fund of Canada, by instalments, on the completion of each section of the railway of not less than ten miles, proportionate to the value of the portion so completed in comparison with that of the whole work undertaken, to be established by the report of the said Minister, or upon the completion of the work subsidized—except as regards the Erie and Huron Railway Company, upon which payment shall be made only upon the completion of the work—except, also as regards the subsidies to the Inverness and Richmond Railway, which shall be paid on the completion of each ten mile section, in accordance, as nearly as practicable, with the agreement between the company and the municipality of Inverness, and with section four of the Act of the Legislature of Nova Scotia, 1890, intituled: An Act to enable the county of Inverness to borrow money—except, also, as regards the subsidies to the Great Eastern Railway Company for bridges over the Nicolet and St. Francis Rivers. and to the Quebec and Lake St. John Railway for the bridge over the St. Charles River, upon which shall be paid fifteen per cent of the value of work done, on monthly progress estimates certified by the Chief Engineer and upon the approval of the Minister of Railways and Canals—and except also the subsidy granted to the Quebec Central Railway Company, the first annual payment upon which shall be made at the end of twelve months from the date of the Chief Engineer's certificate of the completion of the work, and each subsequent payment at the end of each twelve months thereafter, for the term of twenty years.

"The granting of such subsidies to the companies mentioned, respectively, shall be subject to such conditions for securing running powers or traffic arrangements or other rights as will afford all reasonable facilities and equal mileage rates to all railways connecting with those subsidized, as the Governor in Council determines."

By the special Act 53 Vic., ch. 5, 1890 (Assented to 16th May, 1890):-

230. In order to enable the Calgary and Edmonton Railway Company to construct so much of their railway as reaches from a point on the line of the Canadian Pacific Railway Company within the town of Calgary to a point on the North Saskatchewan River near Edmonton, the Governor in Council may enter into a contract with such company for the transport of men, supplies, materials and mails for twenty years, and may pay for such services during the said term, eighty thousand dollars per annum, in manner following, that is to say: the sum of eighty thousand dollars to be paid annually on the construction of the railway from Calgary to a point on the North Saskatchewan River near Edmonton,—such payment to be computed from the date of the completion of the railway between such points: Provided that the Governor General in Council may order such sums to be paid in semi-annual instalments, and may permit the company to assign the same by way of security for any bonds or securities which may be issued by the company in respect of the company's undertaking.

By 54.55 Victoria, ch. 8, 1891 (Assented to 30th Sept., 1891):—

231. To the Great Northern Railway Company, for a railway from a point at or near New Glasgow or St. Lin to or near to Montcalm, in the province of Quebec, eighteen miles, the balance

remaining unpaid of the subsidy, not exceeding \$3,200 per mile granted by the Act forty-ninth Victoria, chapter ten, no exceeding in the whole	\$ 28,100 00
to the company and the sum of \$30,000 mentioned as not to be exceeded by the Act fifty-third Victoria, chapter two, a subside not exceeding	9 7 . 5,250 00 - 7
chapter twenty-four, a subsidy not exceeding \$3,200 per mile nor exceeding in the whole	22,400 00 7
St. John Railway, the balance remaining unpaid of the subsider granted by the Act passed in the session held in the fiftieth and fifty-first years of Her Majesty's reign, chapter twenty-four, no exceeding in the whole	1 t . 92,784 00 r
subsidy, not exceeding \$3,200 per mile, granted by the Ac passed in the session held in the fiftieth and fifty-first years of Her Majesty's reign, chapter twenty-four, not exceeding in the whole	t f e . 79,700 00 d
in the province of Ontario, in lieu of the subsidy for a lik amount granted by the Act fifty-second Victoria, chapter three a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	o, e . 158,400 00 e s
balance remaining unpaid of the subsidy granted by the Acpassed in the session held in the fiftieth and fifty-first years of Her Majesty's reign, chapter twenty-four, not exceeding in the whole	t f e . 46,040 00 f
Island, in lieu of the subsidy for a like amount granted by th Act passed in the session held in the fiftieth and fifty-first years of Her Majesty's reign, chapter twenty-four, a subside not exceeding \$6,400 per mile, nor exceeding in the whole 239. To the Kingston, Smith's Falls and Ottawa Railway Compans for fifty-six miles of their railway from the city of Kingston to Smith's Falls, in lieu of the subsidies, not to exceed \$179,200	t y . 89,600 00 y
granted by the Acts fifty-second Victoria, chapter three, an fifty-third Victoria, chapter two, a subsidy not exceeding \$12,534 per annum, to be paid in semi-annual instalments of \$6,267 each, for twenty years, which represents a grant it cash of	d g f n

"Provided, that upon the completion of twenty-eight miles of the said railway a semi-annual subsidy may be paid proportionate to the value of the portion so completed in comparison with that of the whole fifty-six miles; Provided also, that the company may deposit with the Minister of Finance and Receiver General a sum not exceeding \$1,170,000, in consideration whereof there shall be paid to the company, for twenty years, a semi-annual annuity calculated on a basis of three and one-half per cent on the amount so deposited; Provided further, that the Governor in Council may permit the company to assign the said subsidy and annuity to trustees by way of security for any bonds or securities which may be issued by the company in respect of their undertaking."

\$64,000 00

"Provided that the subsidy hereby granted to the Brockville, Westport and Sult Ste. Marie Railway Company may be paid by instalments, on the completion of each section of the railway as follows, that is to say:—

Sections.	Length in miles.
From, at or near Newboro' to Westport	. 4
From Westport towards Palmers Rapids	. 16

"The subsidies hereinbefore mentioned as to be granted to companies named for that purpose shall be granted to such companies respectively; all the lines for the construction of which subsidies are granted, unless they are already commenced, shall be commenced within two years from the first day of August next, and completed within a reasonable time, not to exceed four years, to be fixed by Order in Council; and shall also be constructed according to descriptions and specifications and upon conditions to be approved by the Governor in Council, on the report of the Minister of Railways and Canals and specified in an agreement to be made in each case by the company with the Government, and which the Government is hereby empowered to make; the location, also of every such line of railway, shall be subject to the approval of the Governor in Council; and all the said subsidies respectively shall be payable out of the Consolidated Revenue Fund of Canada, by instalments, on the completion of each section of the railway of not less than ten miles, proportionate to the value of the portion so completed in comparison with that of the whole work undertaken, to be established by the report of the said Minister, or upon the completion of the work subsidized—except as to the subsidy granted to the Kingston, Smith's Falls and Ottawa Railway Company, the first semi-annual payment upon which shall be made at the end of six months from the date of the Chief Engineer's certificate of the completion of twenty-eight miles of the railway, and each subsequent payment at the end of each six months thereafter, for the term of twenty years, - except also as to the Quebec and Lake St. John Railway Company, the subsidy to which shall be paid upon the completion of the work,—except also as to the Brockville, Westport and Sault Ste. Marie Railway Company, the subsidy to which shall be paid as follows: on the completion of that portion of the said road from, at or near Newboro' to Westport, a distance of four miles, the sum of twelve thousand eight hundred dollars, and on the completion of the remaining sixteen miles from Westport towards Palmer's Rapids, the sum of fifty-one thousand two hundred dollars.

"Within one month after the commencement of each session of Parliament, whilst any of the said moneys are being paid out, there shall be laid before Parliament a statement showing all payments of such moneys during the then next preceding year, the names of the respective persons to whom such payments have been made, and the amounts paid them respectively, together with the engineer's report upon which pay-

ments have been recommended, and copies of all contracts between the Government

and the company under which the said subsidies are authorized to be paid.

"The granting of such subsidies respectively shall be subject to such conditions for securing such running power or traffic arrangements and other rights as will afford all reasonable facilities and equal mileage rates to all railways connecting with those so subsidized, as the Governor in Council determines.

By the Act 55-56 Victoria, chap. 5, 1892 (Assented to 9th July, 1892) : 	
241. To the Lake Erie and Detroit River Railway Company, for fifty-eight miles of their railway from a point at or near Cedar Creek to the town of Ridgetown, in lieu of the subsidies granted to the Lake Erie and Detroit River Railway Company by the Act 53 Victoria, chapter 2, and to the Amherstburg, Lake Shore and Blenheim Railway Company by the Act 52 Victoria, ch. 3. 242. To the Ottawa, Arnprior and Parry Sound Railway Company, for fifty-five miles of their railway from Barry's Bay towards the Northern Pacific Junction Railway, a subsidy not exceeding \$6,400 per mile on the first twenty-seven and a half miles out from Barry's Bay, and not exceeding \$3,200 per mile on the		00
second twenty-seven and a half miles, nor exceeding in the whole. 243. To the Canadian Pacific Railway Company or to the Columbia and Kootenay Railway and Navigation Company, for a railway from a point on the Canadian Pacific Railway at or near Revelstoke to the head of Arrow Lake, for twenty-five miles of such railway, a subsidy not exceeding \$3,200 per mile, nor	264,000	,
exceeding in the whole	80,000	
\$3,200 per mile, nor exceeding in the whole	9,600	
\$3,200 per mile, nor exceeding in the whole	67,200	
whole		
sidy of	15,100	
chapter 24, not exceeding in the whole	35,480	
mile, nor exceeding in the whole	60,800	00

250 .	For a railway from the parish of St. Rémi, in the county of Napierville, to St. Cyprien in the said county, for twelve miles of such railway, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	\$ 38,400 00
251.	To the Inverness and Richmond Railway Company (or any other company undertaking the work), for twenty-five miles of their railway from a point on the Cape Breton Railway, at or near Orangedale, to Broadcove, a subsidy not exceeding \$3,200 per mile, in lieu of the subsidy of \$50,000 granted to the said railway company by 53 Victoria, chapter 2, and on the same condi-	
252 .	tions, not exceeding in the whole	80,000 00
253.	or near Spence's Bridge towards Nicola Lake	80,000 00
254 .	lons towards Glen Lloyd, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	48,000 00
255 .	granted by the Act 53 Victoria, chapter 2, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole To the Philipsburg Junction Railway and Quarry Company, for six and seven-hundredths miles of their railway from Stanbridge	80,000 00
256.	Station to Philipsburg, in the county of Missisquoi, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole To the Kingston, Napanee and Western Railway Company, for three miles of their railway from a point at or near Harrowsmith to a point at or near Sydenham, in lieu of the subsidy granted for this section of road by the Act 52 Victoria, chapter 3, a subsidy not exceeding \$3,200 per mile, nor exceeding in the	21,600 00
257.	whole For a railway from Cape Tourmente towards Murray Bay, in the province of Quebec, twenty miles, in lieu of the subsidy granted	9,600 00
258	by the Act 52 Victoria, chapter 3, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	64,000 00
259	Act 52 Victoria, chapter 3, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	156,800 00
260	whole	48,000 00
281	whole	102,400 00
	sidy not exceeding \$3,200 per mile, nor exceeding in the whole. For a railway to complete the connection between Sydney and Louisburg, in the county of Cape Breton, for twenty-eight miles of such railway, a subsidy not exceeding \$3,200 per mile, nor	25,600 00
	exceeding in the whole	89,600 00

263. To the Belleville and Lake Nipissing Railway Company, for thirty miles of their railway from Belleville to Tweed and thence to Bridgewater, in lieu of the subsidy granted by the Act 53 Victoria, chapter 2, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole......

\$ 96,000 00

264. To the Kingston, Smith's Falls and Ottawa Railway Company, for fifty-six miles of their railway from the city of Kingston to Smith's Falls, in lieu of the subsidies, not to exceed \$179,200, granted by the Acts 52 Victoria, chapter 3, and 53 Victoria, chapter 2, a subsidy calculated on a basis of three and a half per cent on the amount of such subsidies so granted, to be paid in semi-annual instalments for such period not exceeding twenty-one years, as the company may elect, which represents a grant in cash of

179,200 00

"Provided, that upon the completion of twenty-eight miles of the said railway a semi-annual subsidy may be paid proportionate to the value of the portion so completed in comparison with that of the whole fifty-six miles: Provided also, that the company may deposit with the Minister of Finance and Receiver General, a sum not exceeding \$1,170,000, in consideration whereof there shall be paid to the company for such period not exceeding twenty years as the company may elect, a semi-annual annuity calculated on a basis of three and a half per cent on the amount so deposited. Provided further, that the Governor in Council may permit the company to assign the said subsidy and annuity to trustees by way of security for any bonds or securities which may be issued by the company in respect of their undertaking."

265. To the St. Catharines and Niagara Central Railway Company, for thirty-four miles of their railway from the city of St. Catharines to the city of Hamilton, in lieu of the subsidies, not to exceed \$108,000, granted by the Acts 52 Victoria, chapter 3, and 53 Victoria, chapter 2, a subsidy calculated on a basis of three and a half per cent on the amount of the said subsidies, to be paid in semi-annual instalments for such period, not exceeding twenty years, as the company may elect, representing a grant in cash of \$108,000: Provided that, upon the completion of ten miles of said railway, a semi-annual subsidy may be paid proportionate to the value of the portion so completed in comparison with that of the whole thirty-four miles. Provided also, that the company may deposit with the Minister of Finance and Receiver General a sum not exceeding \$400,000, in consideration whereof there shall be paid by the Government to the company, for such period not exceeding twenty years, as the company may elect, a semi-annual annuity, calculated on a basis of three and a half per cent on the amount so deposited, or a guarantee of a like sum, as interest on the bonds of the company: Provided further, that the company, with the approval of the Governor in Council, may assign the said subsidy and annuity to trustees by way of security for principal, or interest of any bonds or securities which may be issued by the company in respect of their undertaking, and the subsidy last above mentioned to the St. Catharines and Niagara Central Railway Company shall be paid in instalments, the first semi-annual payment upon which shall be made at the end of the six months from the date of the Chief Engineer's certificate of the completion of the first ten miles of railway, and each subsequent payment at the end of six months thereafter, for the term of twenty years or less. It is a condition of this subsidy that the sum not exceeding \$400,000 above mentioned shall be deposited with the Finance Minister before January 1st, 1893.

266. To the Woodstock and Centreville Railway Company, for a rail-	
way from Woodstock towards Centreville, twenty miles, in lieu of the subsidy granted by 50-51 Victoria, chapter 24, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole 267. To the Brockville, Westport and Sault Ste. Marie Railway Com-	\$ 64,000 00
pany, for the balance remaining unpaid of the subsidy granted by the Act 52 Victoria, chapter 3, not exceeding \$3,200 per mile, and also for the balance remaining unpaid of the subsidy granted by the Act 53 Victoria, chapter 2, nor exceeding in the	06 800 00
whole	96,800 00
of such railway, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	40,000 00
of the subsidy granted by the Act 52 Victoria, chapter 3, not exceeding in the whole	
northern extension of their railway.	iso manion or
270. To the Manitoulin and North Shore Railway Company, for thirty miles of their railway from Little Current to the Algoma Branch of the Canadian Pacific Railway, in lieu of the subsidy granted by the Act 53 Victoria, chapter 2, a subsidy not exceeding	
\$3,200 per mile, nor exceeding in the whole	\$96,000 00
per mile, nor exceeding in the whole	51,200 00
polis, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	240,000 00
the counties of Peterborough, Hastings, Addington, Frontenac or Leeds, towards iron deposits, a subsidy not exceeding \$3,200 per mile, payable in instalments regulated by the length of each of the said extensions, additions or branches, the subsidy not exceeding in the whole	64,000 00
274. To the St. John Valley and Rivière du Loup Railway Company, for ten miles of their railway from the north end of the line subsidized by the Act 53 Victoria, chapter 2, towards the town of Woodstock, a subsidy not exceeding \$3,200 per mile, nor	·
exceeding in the whole	48,000 00

275.	To the Cobourg, Northumberland and Pacific Railway Company, for thirty miles of their railway from Cobourg to the Ontario and Quebec Railway, in lieu of the subsidy granted by the Act 53 Victoria, chapter 2, a subsidy not exceeding \$3,200 per mile,		
276.	nor exceeding in the whole	\$ 96,000	00
277.	whole	96,000	00
278.	the Act 51 Victoria, chapter 3, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	70,400	00
279.	chapter 3, and 53 Victoria, chapter 2, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	112,000	00
280.	addition to the subsidy already granted, and not exceeding in the whole	21,600	00
281.	whole	51,200	00
282.	Victoria, chapter 2, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole. To the Lake Témiscamingue Colonization Railway Company, for 15 miles of their railway from the Long Sault to the crossing of the Kippewa River, a subsidy not exceeding \$3,200 per mile—and a subsidy of fifteen per cent on the value of a wooden	19,200	00
283.	truss bridge over the Ottawa River near Mattawa, not exceeding \$15,000,—nor exceeding in the whole	63,000	00
284.	in the whole	99,200	
285.	ing in the whole	25,600	00
286.	sidy not exceeding \$3,200 per mile, nor exceeding in the whole. To the Nipissing and James Bay Railway Company, for twenty-five miles of their railway from, at or near North Bay station on	48,000	00

\$ 80,000 00
160,000 00
172,400 00
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114,125 00
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14,720 00
t 8 - 1
25,024 00

"The subsidies hereinbefore mentioned as to be granted to companies named for that purpose shall, if granted by the Governor in Council, be granted to such companies respectively; the other subsidies may be granted to such companies as shall be approved by the Governor in Council as having established to his satisfaction their ability to construct and complete the said railways respectively; all the lines for the construction of which subsidies are granted, unless they are already commenced, shall be commenced within two years from the first day of August next, and completed within a reasonable time, not to exceed four years, to be fixed by Order in Council, and shall also be constructed according to descriptions and specifications, and upon conditions to be approved by the Governor in Council, on the report of the Minister of Railways and Canals, and specified in an agreement to be made in each case by the company with the Government, which agreement the Government is hereby empowered to make; the location also of every such line of railway shall be subject to the approval of the Governor in Council; and all the said subsidies respectively shall be payable out of the Consolidated

Revenue Fund of Canada, by instalments, on the completion of each section of the railway of not less than ten miles, proportionate to the value of the portion so completed in comparison with that of the whole work undertaken, to be established by the report of the said Minister, or upon the completion of the work subsidized,—except as to subsidies with respect to which it is hereinbefore otherwise provided, and except also as to the subsidy granted to the Kingston, Smith's Falls and Ottawa Railway Company, and the subsidy granted to the St. Catharines and Niagara Central Railway Company, the first semi-annual payments upon both of which shall be made at the end of six months from the date of the Chief Engineer's certificate of the completion of their railways respectively, and each subsequent payment at the end of each six months thereafter, for the term of twenty years or less.

"The granting of such subsidies respectively shall be subject to such conditions for securing such running powers or traffic arrangements and other rights as will afford all reasonable facilities and equal mileage rates to all railways connecting with those so

subsidized, as the Governor in Council determines."

294. Notwithstanding the expiration of the time limited by the Act 47 Victoria, chapter 8, and by the contract entered into with the Pontiac Pacific Junction Railway Company, the Governor in council may pay the balance remaining unpaid of the subsidy granted by the said Act to the said company, according as it becomes due and payable in accordance with the said contract, and subject to the terms and conditions applicable to the said subsidy under the terms of the said Act.

295. Notwithstanding the expiration of the time limited by the Act 52 Victoria, chapter 3, and by the contract entered into with the Quebec and Lake St. John Railway Company, the Governor in Council may pay the balance remaining unpaid of the subsidy granted by the said Act to the said company, according as it becomes due and payable in accordance with the said contract, and subject to the terms and conditions applicable to the said subsidy under the terms of the said Act; and notwithstanding anything contained in the Act 50-51 Victoria, chapter 24, the Governor in Council may also pay to the said company the balance remaining unpaid of the subsidy granted to the company by the said Act, amounting to \$12,800, on the four miles of their road from the north end of the main line subsidized towards Roberval.

By the Act 56 Vic., chap. 2, 1893 (Assented to 1st April, 1893):—
296. To the Great Eastern Railway Company, for twenty miles of their railway, from the east end of the line subsidized by the Act 50-51 Victoria, chapter 24, at St. Grégoire, towards the Chaudière Junction station on the Intercolonial Railway, in the province of Quebec, in lieu of the subsidy granted by the Act 52 Victoria, chapter 3, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole.

\$ 64,000 00

102,400 00

298. To the Ontario, Belmont and Northern Railway Company, for ten miles of their railway, divided into two sections: first, from the Belmont Iron Mines to Marmora village; second, from Marmora village to the junction with the Ontario Central Railway, in lieu of the subsidy granted by the Act 55-56 Victoria, chapter 5, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole.

32,000 00

299. To the Central Ontario Railway Company, for twenty miles of their railway, from Coe Hill or Gilmore, or some point between

	Coe Hill and Gilmore, to Bancroft, via L'Amable, or as near thereto as practicable, in lieu of the subsidy granted by the Act		
	48-49 Victoria, chapter 59, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	\$ 64,000	00
300 .	To the Quebec and Lake St. John Railway Company, for thirty miles of their railway, from Lake St. John towards Chicoutimi, the balance remaining unpaid of the subsidy granted by the	01 040	00
301 .	Act 51 Victoria, chapter 3, not exceeding in the whole To the Irondale, Bancroft and Ottawa Railway Company, for fifty miles of their railway, from the Victoria branch of the Midland Railway to the village of Bancroft, in the county of Hastings,	81,040	00
	the balance remaining unpaid of the subsidy granted by the Act 47 Victoria, chapter 8, and again granted by the Act 52 Victoria, chapter 3, not exceeding in the whole	145,000	00
802.	To the Beauharnois Junction Railway Company, for thirty miles of their railway, from Ste. Martine towards St. Anicet, the	•	
949	balance remaining unpaid of the subsidy granted by the Act 50-51 Victoria, chapter 24, not exceeding in the whole To the St. Stephen and Milltown Railway Company, for three and	3,500	00
9 U 0.	a half miles of their railway, from the town of St. Stephen to the town of Milltown, in lieu of the subsidy granted by the Act	•	
964	53 Victoria, chapter 2, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	11,200	00
3 U 4.	To the Quebec, Montmorency and Charlevoix Railway Company, for thirty miles of their railway, from the east bank of the River St. Charles, to or near to Cape Tourmente, in the province		
PAK	of Quebec, the balance remaining unpaid of the subsidy granted by the Act 52 Victoria, chapter 3, not exceeding in the whole. To the Ottawa and Gatineau Valley Railway Company, for sixty-	30,400	00
3 00.	two miles of their railway, from Hull station towards Le Désert, the balance remaining unpaid of the subsidy granted by the Act		
306 .	52 Victoria, chapter 3, not exceeding in the whole To the Grand Trunk, Georgian Bay and Lake Erie Railway Company, for fifteen miles of their railway, from the village of Tara,	89,248	00
	or some point between Tara and Hepworth, to the town of Owen Sound, in the province of Ontario, in lieu of the subsidy	•	
	granted by the Act 52 Victoria, chapter 3, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	48,000	00
807.	To the Nova Scotia Central Railway Company (or to such person or persons or company as in the opinion of the Minister or acting Minister of Justice are entitled to the same) for eighty miles of their railway, from Lunenburg, on the east coast of		
	Nova Scotia, westward to a point in the district of New Germany, together with a spur about three-fourths mile long to		
	Bridgewater railway wharf, and from a point thirty-three and a half miles from Lunenburg and running to Middleton on the		
	Windsor and Annapolis Railway, of unpaid subsidies granted by the Acts 50-51 Victoria, chapter 24, and 51 Victoria, chapter 3, an amount not exceeding in the whole	4,500	00
308 .	To the Great Northern Railway Company, for eighteen miles of their railway, from a point at or near New Glasgow or St. Lin, to or near to Montcalm, in the province of Quebec, the balance	, ,-,-	
	remaining unpaid of the subsidy granted by the Act 54-55 Victoria, chapter 8, not exceeding in the whole	25,600	ሰሰ
309 .	To the Great Northern Railway Company, for fifteen miles of their railway, from, at or near Montcalm to the Canadian Pacific	<i>20</i> ,000	.

Railway between Joliette and St. Félix de Valois, in lieu of the subsidy granted by the Act 53 Victoria, chap. 2, a subsidy not		
exceeding \$3,200 per mile, nor exceeding in the whole 810. To the Montfort Colonization Railway Company, for twenty-one miles of their three-feet gauge railway from Lachute, St. Jérôme, or a point at or near St. Sauveur, on the line of the Montreal and Western Railway, to Montfort and westward, in lieu of the subaidy granted by the Act 55-56 Victoria, chapter 5, a subsidy		
not exceeding \$3,200 per mile, nor exceeding in the whole 811. To the Maskinongé and Nipissing Railway Company, for fifteen miles of their railway, from a point on the Canadian Pacific Railway at or near Maskinongé or Louiseville, towards the parish of St. Michel des Saints, on the river Mattawa, in the province of Quebec, and for fifteen miles of their railway from the north end of the fifteen miles above referred to, towards the parish of St. Michel des Saints on the river Mattawa, in the province of Quebec, in lieu of the subsidies granted by the Acta	67,200 00)
52 Victoria, chap. 3, and 53 Victoria, chap. 2, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole 312. To the Parry Sound Colonization Railway Company, for forty miles of their railway, from the village of Parry Sound to the village of Sundridge, or some other point on the Northern Pacific Junction Railway, in the province of Ontario, the balance remaining unpaid of the subsidy granted by the Act 52 Victoria,	96,000 00	0
chapter 3, not exceeding in the whole	97,600 00	
the Act 50-51 Victoria, chapter 24, a subsidy of 814 To the Oshawa Railway Company, for seven miles of their railway and branches as follows: from Port Oshawa to a point at or near Edmondson's Falls mill site, near Mill Street, in the town of Oshawa (this portion being known as the "Lake" section of the said railway); thence to a point at or near the town hall in the town of Oshawa, and thence to the Oshawa station of the Grand Trunk Railway Company of Canada (this portion being known as the "Town" or "Northern" section of the said railway)—in lieu of the subsidy granted by the Act 54-55 Victoria, chapter 8, a subsidy not exceeding \$3,200 per mile, nor exceed-		0
ing in the whole	22,400 0	0

"All the lines for the construction of which subsidies are granted, unless they are already commenced, shall be commenced within two years from the first day of August next, and completed within a reasonable time, not to exceed four years, to be fixed by Order in Council, and shall also be constructed according to descriptions and specifications and upon conditions to be approved by the Governor in Council, on the report of the Minister of Railways and Canals, and specified in an agreement to be made in each case by the company with the Government, which agreement the Government is hereby empowered to make; the location, also, of every such line of railway shall be subject to the approval of the Governor in Council.

"The granting of such subsidies respectively shall be subject to such conditions for securing such running powers or traffic arrangements and other rights as will afford all reasonable facilities and equal mileage rates to all railways connecting with those so

subsidized, as the Governor in Council determines.

"All the said subsidies respectively shall be payable out of the Consolidated Revenue Fund of Canada, by instalments on the completion of each section of the railway of not less than ten miles, proportionate to the value of the portion so completed in comparison with that of the whole work undertaken, to be established by the report of the said Minister, or upon the completion of the work subsidized,—except as follows:—

"(a) The subsidy to the Ontario, Belmont and Ottawa Railway Company, which shall be paid as follows: on the completion of the first section, an instalment proportionate to the value of the said section in comparison with that of the ten miles hereby subsidized, to be established as aforesaid, and the balance of the said subsidy on the completion of the second section;

"(b.) The subsidy to the Oshawa Railway Company, which shall be paid as follows: on the completion of the "Town" or "Northern" section, an instalment proportionate to the value of the said section in comparison with that of the seven miles hereby subsidized, to be established as aforesaid, and the balance of the said subsidy, on the com-

By the Act 57-58 Vic., cap. 4, 1894. (Assented to, 23rd July, 1894):—

pletion of the "Lake" section of the said railway."

315. To the Bracebridge and Baysville Railway Company, for fifteen miles of their railway from Bracebridge towards Baysville, in lieu of the subsidy granted by chapter 5 of 1892, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole...... 48,000 316. To the Brockville, Westport and Sault Ste. Marie Railway, the balance remaining unpaid of the subsidy granted by chapter 3 of 1889, not exceeding \$3,200 per mile, and also the balance remaining unpaid of the subsidy granted by chapter 2 of 1890, which was re-granted by chapter 5 of 1892; the whole not ex-86,800 317. To the Tilsonburg, Lake Erie and Pacific Railway Company, for sixteen miles of their railway, from Port Burwell to Tilsonburg, in lieu of the subsidy granted by chapter 5 of 1892, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole 51,200 318. To the Brantford, Waterloo and Lake Erie Railway Company, for eighteen miles of their railway, from the town of Brantford to the village of Hagarsville or the village of Waterford, or some intermediate point on the Canada Southern Railway, the balance remaining unpaid of the subsidy granted by chapter 24 of 1887, not exceeding \$3,200 per mile, nor exceeding in the whole · **4,**790 319. To the St. Catharines and Niagara Central Railway Company, for 34 miles of their railway from the city of St. Catharines to the city of Hamilton, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole..... 108,800 320. To the Montreal and Ottawa Railway Company (formerly the Vaudreuil and Prescott Railway Company), for thirty miles of their railway from Vaudreuil towards Hawkesbury, the balance remaining unpaid of the subsidy granted by chapter 24 of 1887; and for 30 miles of their railway from the western end of the 30 miles first mentioned towards Ottawa, the balance remaining unpaid of the subsidy granted by chapter 2 of 1890, not exceeding \$3,200 per mile; the whole not exceeding...... 118,400 **321** Notwithstanding the expiration of the time limited by chapter 2 of 1890, and by the contract entered into with the Quebec Central Railway Company, and notwithstanding anything otherwise in the said chapter 2 contained, the Governor in Council may pay the subsidy granted by the said chapter to the said company at the present worth of the twenty annual payments mentioned in the said chapter (interest computed at four per cent), for and upon the completion of its railway extending from a point between the Chaudière River and Tring Station to a point on the International Railway at or near Lake Megantic, and upon the inspection and acceptance of the same by the Chief Engineer of Railways and Canals, the sum in all of..... 288,000

322 .	To the Philipsburg Junction Railway and Quarry Company, for for mile of their railway from Stanbridge Station to Philipsburg, in the county of Missisquoi and a branch to Missisquoi	
	Bay, the balance remaining unpaid of the subsidy granted by chapter 5 of 1892, not exceeding \$3,200 per mile, nor exceeding in the whole	\$ 2,912
323 .	To the Joliette and St. Jean de Matha Railway Company, for 8 miles of their railway from St. Félix de Valois to St. Jean de Matha, in lieu of the subsidy granted by chapter 5 of 1892, a subsidy not exceeding \$3,200 per mile, nor exceeding in the	• -,
824 .	whole	23,600
325 .	ceeding For a railway from St. Placide to St. Andrews, 8 miles, in lieu of the subsidy granted by chapter 5 of 1892, a subsidy not exceed-	274,940
326 .	ing \$3,200 per mile, nor exceeding in the whole For a railway from St. Eustache to St. Placide, in the county of Two Mountains, for 18 miles of such railway, in lieu of the subsidy granted by chapter 5 of 1892, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	25,600 57,600
827 .	For a railway from a point on the line of the Canadian Pacific Railway on Isle Jésus, in the county of Laval, towards St. Eustache, for 12 miles of such railway, in lieu of the subsidy granted by chapter 5 of 1892, to the Carillon and Grenville Railway Company, for 12 miles of their railway, from St. Eustache to Sault au Récollet, a subsidy not exceeding \$3,200 per mile, nor	
325 .	exceeding in the whole	38,400
329 .	the whole	38,400 41,100
	Bromoon of our stoo mos on opposed in one whole	±1,1,00

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60 Victoria.

 830. To the Pontiac Pacific Junction Railway Company, for the construction or acquisition of 7½ miles of railway, from Hull to Aylmer, in lieu of the subsidy granted by chapter 2 of 1890, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole. 831. To the Pontiac Pacific Junction Railway Company, for 85 miles of their railway from Aylmer to Pembroke, the balance remaining unpaid of the subsidy granted by chapter 8 of 1884, less the subsidy granted for the line from Hull to Aylmer, provided the Ottawa River is crossed at some point not east of Lapasse, a 	\$ 24,000
subsidy not exceding \$3,200 per mile, nor exceeding in the whole 832. To the Harvey Branch Railway Company, for 3 miles of their railway from the southern terminus of the Albert Railway to Harvey Bank, the balance remaining unpaid of the subsidy granted by chapter 24 of 1887, not exceeding \$3,200 per mile,	
nor exceeding in the whole	4,046
the whole	19,200
3 of 1889, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole. 335. To the Woodstock and Centreville Railway Company, for a railway from Woodstock to the international boundary between the province of New Brunswick and the state of Maine, 26 miles, in lieu of the subsidies granted by chapter 24 of 1887 and	16,000
chapter 2 of 1890 a subsidy not exceeding \$3,200 per mile nor exceeding in the whole	83,200
subsidy of 15 per cent on the value of the structure; the whole not exceeding	300,000
Bay towards Lake Tamagaming, a subsidy not exceeding \$3,200 per mile; the whole not exceeding	217,000
ing in the whole	48,000
exceeding \$3,200 per mile, nor exceeding in the whole	96,000

340. For a railway from Lime Ridge, in the county of Wolfe, in the	
province of Quebec, northerly through the county of Wolfe and	
into the county of Megantic, a distance not exceeding 50 miles	
from Lime Ridge, a subsidy not exceeding \$3,200 per mile, nor	
exceeding in the whole	\$ 160,000
341. To the Strathroy and Western Counties Railway Company, for 25	
miles of their railway from St. Thomas through the counties of	
Elgin and Middlesex, towards Forest Station or Park Hill, on	
the Grand Trunk Railway, a subsidy not exceeding \$3,200 per	
mile, nor exceeding in the whole.	80,0 00
342. To the Parry Sound Colonization Railway Company, for 20 miles	
of their railway east from Parry Sound, a subsidy not exceeding	
\$3,200 per mile, nor exceeding in the whole	64,0 00
843. To the Manitoulin and North Shore Railway Company, for 10	
miles of their railway from Little Current to Nelson, on the	
Algoma Branch of the Canadian Pacific Railway, a subsidy not	
exceeding \$3,200 per mile, nor exceeding in the whole	32,0 00
844. To the United Counties Railway Company for 32 miles of their	
railway from Iberville to Sorel, in addition to the 32 miles	
already subsidized, a subsidy not exceeding \$3,200 per mile, nor	100 /00
exceeding in the whole	.102,400
345. To the Joliette and St. Jean de Matha Railway Company, for 12	
miles of their railway from St. Jean de Matha to Ste. Émelie de	
L'Energie, a subsidy not exceeding \$3,200 per mile, nor exceed-	90 400
ing in the whole	38,400
346. To the Great Northern Railway Company, for 22 miles of their	
railway, from the eastern end of the 15 miles subsidized by	
chapter 2 of 1893 to a point between Joliette and St. Félix de	
Valois, a subsidy not exceeding \$3,200 per mile, nor exceeding	70.400
in the whole	70,400
of the Chicoutimi branch of their railway, from the east end of the 50 miles already subsidized and built eastward to deep water	
at Chicoutimi, a subsidy not exceeding \$3,200 per mile; also for	
12 miles from the 52nd mile on the Chicoutimi branch to Ha Ha	
Bay, a subsidy not exceeding \$3,200 per mile; the whole not	•
exceeding.	44,800
348. To the Pontiac and Ottawa Railway Company, for 23 miles of	_ 4,000
their railway from the point of divergence from the Pontiac	
Railway to Ferguson's Point, a subsidy not exceeding \$3,200 per	
mile, nor exceeding in the whole	73,600
849. To the Ottawa and Gatineau Valley Railway Company, for 20	
miles of their railway from the eastern end of the 62 miles	
already subsidized towards Désert, a subsidy not exceeding	•
\$3,200 per mile, nor exceeding in the whole	64,000
350. To the Canada Eastern Railway Company for 6 miles of their rail-	
way from the town of Chatham to Black Brook, a subsidy not	
exceeding \$3,200 per mile; also for 4 miles of their railway for	
a branch to the village of Nelson, a subsidy not exceeding	
\$3,200 per mile; the whole not exceeding	32,000
351. For a railway from Cross Creek Station, on the Canada Eastern	
Railway to Stanley village, in the county of York, in the	
province of New Brunswick, 6 miles, a subsidy not exceeding	
\$3,200 per mile, nor exceeding in the whole	19,200
352. To the Restigouche and Victoria Railway Company, for 20 miles of	\$
their railway from the western end of the 15 miles subsidized	
by chapter 5 of 1892, towards Grand Falls, a subsidy not exceed-	04.000
ing \$3,200 per mile, nor exceeding in the whole	64,000

353.	To the Central Railway Company of New Brunswick, for 15 miles of their railway from Chipman station to the Newcastle coal fields, a subsidy not exceeding \$3,200 per mile, nor exceeding in	
354 .	the whole	\$ 48,000
355 .	whole	48,000
356 .	To the Boston and Nova Scotia Coal and Railway Company, for 10½ miles of their railway from the north end of the section already subsidized to Broad Cove, a subsidy not exceeding \$3,-200 per mile; also for 25 miles of their railway from a point on the Cape Breton Railway at or near Orangedale towards Broad Cove, in Neu of the subsidy granted by chapter 5 of 1892, a	
357 .	subsidy not exceeding \$3,200 per mile; the whole not exceeding For a railway from Port Hawkesbury towards Cheticamp, 25 miles, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole.	113,600 80,000
358.	To the Manitoba North-western Railway Company, for 100 miles of the extension of their main line from its present western terminus towards Prince Albert,—the company relinquishing 3,200 acres of the land grant per mile, and the whole road to be operated as a continuous line of railway under one management, a subsidy not exceeding \$3,200 per mile, nor exceeding in the	00,000
359 .	whole For a line of railway from the junction of the Elk and Kootenay Rivers to Coal Creek, a distance of 34 miles, a subsidy not ex-	320,000
360 .	ceeding \$3,200 per mile, nor exceeding in the whole For a railway from Abbotsford Station on the Mission Branch of the Canadian Pacific Railway to the town of Chilliwack, 21 miles, a subsidy not exceeding \$3,200 per mile, nor exceeding in the	108,800
361.	whole	67,200
362.	exceeding \$3,200 per mile, nor exceeding in the whole To the Nakusp and Slocan Railway Company, for 38 miles of their railway from the town of Nakusp to a point at or near the Forks of Carpenter Creek, a subsidy not exceeding \$3,200 per mile,	89, 600
363.	nor exceeding in the whole	121,600
364 .	ing in the whole	70,400
365.	not exceeding \$3,200 per mile, nor exceeding in the whole To the South Shore Railway Company, for 35 miles of their railway from Yarmouth towards Shelburne and Lockport, a sub-	16,000 00
366.	sidy not exceeding \$3,200 per mile, nor exceeding in the whole. To the Cape Breton Railway Extension Company, for 30 miles of railway from Port Hawkesbury to St. Peter's, on their line of railway from Port Hawkesbury to Louisbourg, a subsidy not	112,000 00
	exceeding \$3,200 per mile, nor exceeding in the whole	96,000 00

2	64.000	00
•	•	
	,	
	9,600	00
	3,200	00
	06 000	00
	90,000	00
1	.02,400	00
	38,4 00	00
	38,400	00
		32,000 9,600 3,200 96,000 102,400

The subsidies hereinbefore mentioned as to be granted to companies named for that purpose shall, if granted by the Governor in Council, be granted to such companies respectively; the other subsidies may be granted to such companies as shall be approved by the Governor in Council as having established to his satisfaction their ability to construct and complete the said railways respectively; all the lines for the construction of which subsidies are granted, unless they are already commenced, shall be commenced within two years from the first day of August next, and completed within a reasonable time, not to exceed four years, to be fixed by Order in Council, and shall also be constructed according to descriptions and specifications and upon conditions to be approved by the Governor in Council, on the report of the Minister of Railway and Canals, and specified in an agreement to be made in each case by the company with the Government, which agreement the Government is hereby empowered to make; the location also of every such line of railway shall be subject to the approval of the Governor in Council.

The granting of such subsidies respectively shall be subject to such conditions for securing such running powers or traffic arrangements and other rights as will afford all reasonable facilities and equal mileage rates to all railways connecting with those so

subsidized, as the Governor in Council determines.

The said subsidies respectively shall be payable out of the Consolidated Revenue Fund of Canada, by instalments, on the completion of each section of the railway of not less than ten miles, proportionate to the value of the portion so completed in comparison with that of the whole work undertaken, to be established by the report of the said Minister, or upon the completion of the work subsidized,—except as to subsidies with respect to which it is hereinbefore otherwise provided, and except also as to the

subsidy granted to the Great Northern Railway Company by chapter two of 1893, for fifteen miles from Montcalm to the Canadian Pacific Railway, which shall be paid as follows: on the completion of the eighteen miles from New Glasgow to Montcalm and of two miles out of the fifteen miles from Montcalm to the Canadian Pacific Railway, an instalment proportionate to the value of the ten miles out of the total mileage subsubsidized by chapter two of 1893, to be established as aforesaid, and the balance of the said subsidy on the completion of the remaining thirteen miles of the said railway.

LAND SUBSIDIES.

By 47 Vic., chap. 25, clause 7, 1884 (Assented to 19th April, 1884):-

1. The Governor in Council is hereby authorized in aid of the construction of a railway from some point on the Canadian Pacific Railway to Hudson's Bay, to make a free grant of not more than six thousand four hundred acres for each mile of railway within Manitoba, and not more than twelve thousand eight hundred acres for each mile in the North-west Territories.

By 48-49 Vic., chap. 60, 1885 (Assented to 20th July, 1885):-

2. To the North-western Coal and Navigation Company (Limited), Dominion lands to an extent not exceeding three thousand eight hundred acres for each mile of the company's railway, from Medicine Hat to the coal banks on the Belly River, about one hundred and ten miles.

3. To the Manitoba and South-western Colonization Railway Company, Dominion lands to an extent not exceeding six thousand four hundred acres for each mile of the company's railway from its commencement at Winnipeg to its

terminus at Whitewater Lake, about one hundred and fifty miles.

4. To the Manitoba and North-western Railway Company, Dominion lands to the extent of six thousand four hundred acres for each mile of the company's railway, for the whole distance from Portage la Prairie to the crossing of the South Branch of the River Saskatchewan, twenty miles from Prince Albert, about four hundred and thirty miles.

5. To the Qu'Appelle, Long Lake and Saskatchewan Railroad and Steamboat Company, Dominion lands to an extent not exceeding six thousand four hundred acres for each mile of the company's railway, from its commencement near

Regina to the navigable waters of Long Lake.

"The said grants, and each of them, may be so made in aid of the construction of the said railways respectively, in the proportion and upon the conditions fixed by the Orders in Council made in respect thereof,—each of the said enterprises being respectively subject to any modification thereof which may hereafter be made by the Governor in Council; and except as to such conditions, the said grants shall be free grants, subject only to the payment by the grantees respectively of the cost of survey of the lands and incidental expenses, at the rate of ten cents per acre in cash on the issue of the patents therefor."

By 49 Vic., cap. 11, 1886 (Assented to 2nd June, 1886):-

- 6. To the Manitoba and North-western Railway Company, Dominion lands to the extent of six thousand four hundred acres per mile for each mile of the company's branch railway running from a point on the main line of that railway, at or near Todburn, in a north-westerly direction through the county of Russell to the Assiniboine River, near the town of Shellmouth, about twenty-six miles.
- 7. To the North-west Central Railway Company, or to such other company as may undertake the construction of the railway, or a railway from a point on the Manitoba and North-western Railway via Rapid City, westward, Dominion lands to the extent of six thousand four hundred acres for each mile of the company's railway, for the whole distance from Brandon station on the Canadian Pacific Railway, or from such point on the Manitoba and North-western Railway as aforesaid, to Battleford, in the provisional district of Saskatchewan, about four hundred and fifty miles.

8. To the Wood Mountain and Qu'Appelle Railway Company, Dominion lands to the extent of six thousand four hundred acres for each mile of the company's railway for the whole distance commencing at a point in township number four, in range number thirty, west of the second meridian, in the Dominion lands system of survey, passing through the town of Fort Qu'Appelle, to join the Manitoba and North-western Railway at a point to be fixed for that purpose by the Governor in Council, about two hundred and forty miles.

"The said grants, and each of them, may be so made in aid of the construction of the said railways respectively, in the proportions and upon the conditions fixed by the Orders in Council made in respect thereof,—each of the said enterprises being respectively subject to any modification thereof which may hereafter be made by the Governor in Council; and, except as to such conditions, the said grants shall be free grants, subject only to the payment by the grantees respectively, of the cost of survey of the lands and incidental expenses, at the rate of ten cents per acre in cash on the issue of the patents therefor."

By section 5 of this Act authority was given for the incorporation by the Governor in Council of a company to construct the line from Brandon, or other point indicated, to Battleford, subsidized by this Act.

By 50-51 Vic., cap. 22, 1887 (Assented to 23rd June, 1887):—

The subsidy to the North-western Coal and Navigation Company, granted by 49 Vic., chap. 60, was increased from 3,800 acres per mile to 3,840 acres per mile.

By 50-51 Vic., cap. 23, 1887 (Assented to 23rd June, 1887):—

10. To the Alberta and Athabasca Railway Company, Dominion lands to an extent not exceeding six thousand four hundred acres for each mile of the company's railway from some point on the Bow River or Canadian Pacific Railway, at or between Calgary and Crowfoot Creek, to a point near the town plot of Edmonton, about three hundred miles.

11. To the Qu'Appelle, Long Lake and Saskatchewan Railway and Steamboat Company, Dominion lands to an extent not exceeding six thousand four hundred acres for each mile of the company's railway, from a point near the northern terminus of the completed portion of that railway, at or near Long Laketon, on the navigable waters of Long Lake, to a point at or near where the fifty-second parallel of latitude crosses the South Saskatchewan River, thence to a point at or near the elbow of the North Saskatchewan River, with branches to Prince Albert and Battleford, about three hundred and twenty-five miles.

12. To the Medicine Hat Railway and Coal Company, Dominion lands to an extent not exceeding six thousand four hundred acres for each mile of the company's railway, from a point at or near Medicine Hat, on the line of the Canadian Pacific Railway, to the coal field in or near townships twelve and thirteen, range six, west of the fourth principal meridian, a distance of about eight miles, to be selected out of such lands as are at the disposal of the Government in the proximity of the line of the company's railway.

"The said grants, and each of them may be, so made in aid of the construction of the said railways respectively, in the proportions and upon the conditions fixed by the Orders in Council made in respect thereof, each of the said enterprises being respectively subject to any modification thereof which may hereafter be made by the Governor in Council; and, except as to such conditions, the said grants shall be free grants, subject only to the payment by the grantees respectively, of the cost of survey of the lands and incidental expenses, at the rate of ten cents per acre in cash on the issue of the patents therefor."

By 52 Vic., chap. 4, 1889 (Assented to 2nd May, 1889):-

13. To the North-western Coal and Navigation Company (Limited), in addition to the grant provided for by section one of the Act passed in the session held in the forty-eighth and forty-ninth years of Her Majesty's reign and chaptered sixty, Dominion lands to an extent not exceeding two thousand six hundred

acres for each mile of the company's railway from Dunmore station, on the Canadian Pacific Railway, to Lethbridge, on the Belly River, the present terminus of the said railway, a distance of one hundred and nine and one-half miles,—such additional grant to be made only on condition that the gauge of the said railway be made standard width; and also to the said North-western Coal and Navigation Company (Limited), Dominion lands to an extent not exceeding six thousand four hundred acres for each mile of the company railway from Lethbridge to the international boundary, a distance of about fifty miles.

14. To the Red Deer Valley Railway and Coal Company, Dominion lands to an extent not exceeding six thousand four hundred acres for each mile of the company's railway from Cheadle Station, on the Canadian Pacific Railway, to its terminus at a point in or near township twenty-nine, range twenty-three, west of the fourth meridian, a distance of about fifty-five miles.

15. To the North-western Railway Company of Canada, Dominion lands to an extent not exceeding ten thousand acres for each mile of the company's railway from Calgary, on the Canadian Pacific Railway, northerly to a point on the North Saskatchewan River, at or near Edmonton, a distance of about two hundred and ten miles; and also to the said North-western Railway Company of Canada, Dominion lands to an extent not exceeding ten thousand acres for each mile of the company's railway from Calgary southerly to Lethbridge, a distance of about one hundred and twenty miles.

16. To the Lake Manitoba Railway and Canal Company, Dominion lands to an extent not exceeding six thousand acres for each mile of the company's railway from Portage la Prairie to the southern boundary of Lake Manitoba, a distance of about seventeen miles.

"The said grants, and each of them, may be so made in aid of the construction of the said railways respectively, in the proportions and upon the conditions fixed by the Orders in Council made in respect thereof, and except as to such conditions, the said grants shall be free grants, subject only to the payment by the grantees respectively, of the cost of survey of the lands and incidental expenses, at the rate of ten cents per acre in cash on the issue of the patents therefor.

"The Governor in Council may make the grant of land provided for by section three of the Act forty-ninth Victoria, chapter eleven, being for the line of the Wood Mountain and Qu'Appelle Railway, of about two hundred and forty miles in length, applicable to the line of railway of the said company, as authorized by the Act respecting the Wood Mountain and Qu'Appelle Railway Company, passed during the present session of Parliament, upon the like terms and subject to the like conditions as those upon which the grant hereinbefore mentioned was authorized to be made to the said company by the Act in this section first cited."

By the Act 53 Vic., cap. 4, 1890 (Assented to 16th May, 1890):—

- 17. To the Canadian Pacific Railway Company, Dominion lands to an extent not exceeding six thousand four hundred acres per mile for a branch line to be constructed from Glenboro' westerley a distance of about sixty miles to a point on the proposed branch railway of the said company running from Brandon south-westerly.
- 18. To the Canadian Pacific Railway Company, Dominion lands to an extent not exceeding six thousand four hundred acres per mile for a branch line of railway from a point at or near Brandon, on the main line of the Canadian Pacific Railway, south-westerly to or near township three, range twenty-seven, west of the first principal meridian, and thence westerly, a total distance of one hundred miles; and also a similar grant, at the same rate per mile, for the said company's proposed branch railway from a point on the line just described at or near township three, range twenty-seven, west of the first principal meridian, easterly to Deloraine, a distance of about twenty-five miles, making the total length of railway to which this grant is applicable one hundred and twenty-five miles.

- 19. To the Brandon and South-western Railway Company, Dominion lands to an extent not less than six thousand four hundred acres per mile for the line of railway from a point in township one, in either range twenty-three or twenty-four west of the first principal meridian, to Deloraine, a distance of about seventeen miles.
- 20. To the Lac Seul Railway Company, Dominion lands to an extent not exceeding six thousand four hundred acres per mile for a line of railway from a point at or near Shelly Station, on the main line of the Canadian Pacific Railway, to a point at or near White Mud Lake, on the Winnipeg River, a distance of about eighteen miles.
- 21. To the Calgary and Edmonton Railway Company, Dominion lands to an extent not exceeding six thousand four hundred acres for each mile of the company's railway from Calgary to a point at or near Edmonton on the North Saskatchewan River, a distance of about one hundred and ninety miles; and also a grant of six thousand four hundred acres for each mile of the company's railway from Calgary to a point on the international boundary between Canada and the United States, a distance of about one hundred and fifty miles.
- 22. To the North-western Coal and Navigation Company (Limited) Dominion lands to an extent not exceeding three thousand eight hundred and forty acres for each mile of the company's railway from Lethbridge to the Crow's Nest Pass, a distance of about one hundred miles.
- 23. To the Lake Manitoba Railway and Canal Company, Dominion lands to an extent not exceeding six thousand four hundred acres per mile, for a line of railway from Portage la Prairie to Lake Winnipegosis, at or near Meadow Portage, a distance of about one hundred and twenty-five miles.
- 24. To the Manitoba and South-eastern Railway Company, Dominion lands to an extent not exceeding six thousand four hundred acres per mile, for a line of railway from Winnipeg southerly or south-easterly to a point on the west side of the Lake of the Woods, a distance of about one hundred and ten miles.

The said grants and each of them may be made in aid of the construction of the said railways respectively, in the proportion and upon the conditions fixed by the Orders in Council made in respect thereof, and except as to such conditions, the said grants shall be free grants, subject only to the payment by the grantees respectively of the cost of survey of the lands and incidental expenses, at the rate of ten cents per acre in cash, on the issue of the patents therefor.

The lands by this Act authorized to be granted to the Canadian Pacific Railway Company shall be taken and held, and may be disposed of, free and clear of any encumbrance on the lands or property of the said company created before the passing of this Act.

By the special Act 53 Vic., cap. 3, 1890 (Assented to 26th March, 1890):-

- 25. The Act 52 Victoria, chapter 4, authorizing, in error, the grant of land to the North-western Coal and Navigation Company, for fifty miles from Lethbridge to the international boundary, was amended—the said grant being made to the Alberta Railway and Coal Company.
 - By 54-55 Vic., cap. 9, 1891 (Assented to 30th September, 1891):-
- 26. In lieu of the subsidy in land authorized by the Act 52 Victoria, chapter 4, to be granted to the Red Deer Valley Railway and Coal Company, and subject to the conditions in the said Act mentioned, the Governor in Council may grant Dominion lands to the said company to an extent not exceeding six thousand four hundred acres for each mile of the said company's railway, from the town of Calgary, in the district of Alberta, in the North-west Territories, to a point in or near township twenty-nine, range twenty-three, west of the fourth meridian, a distance of about fifty-five miles.

By 54-55 Vic., cap. 10, 1891 (Assented to 30th September, 1891):-

27. To the Manitoba South-western Colonization Railway Company, in addition to the subsidy for one hundred and fifty miles of railway authorized by the Act passed in the session held in the forty-eighth and forty-ninth years of Her Majesty's reign, chapter sixty, Dominion lands to the extent of six thousand four hundred acres per mile for the balance of the two hundred and twelve miles of railway which have been constructed and are in operation, that is to say, for a distance of sixty-two miles.

28. Also, to the Manitoba South-western Colonization Railway Company, Dominion lands to the extent of six thousand four hundred acres for each mile of the company's branch line of railway from Carmen to Barnsley, a distance of about

six and one quarter miles.

29. To the Canadian Pacific Railway Company, in addition to the subsidy authorized by the Act 53 Victoria, chapter 4, for the company's branch line running in a south-westerly and westerly direction from a point at or near Brandon for a distance of one hundred miles, Dominion lands to the extent of six thousand four hundred acres for each mile of the extension westward of the said branch line, from the western limit of the said one hundred miles to a point at or near La Roche Percée, situated in township one, range six, west of the second meridian, a distance of about sixty miles.

"The said grants and each of them shall be made in aid of the construction of the said railways respectively, in the proportion and upon the conditions fixed by the Orders in Council made in respect thereof, and, except as to such conditions, the said grants shall be free grants, subject only to the payment by the grantees respectively, of the cost of survey of the lands and incidental expenses, at the rate of ten cents per acre in cash,

on the issue of the patents therefor."

By the Act 57-58 Vic., cap. 6, 1894 (Assented to 23rd July, 1894):-

- 30. To the Rocky Mountain Railway and Coal Company, Dominion lands to an extent not exceeding six thousand four hundred acres per mile for a line of railway from a point at or near Olds Station on the line of the Calgary and Edmonton Railway in a westerly direction to the Red Deer River and thence along the said river in a westerly direction to the coal fields, a distance of about sixty miles.
- 31. To the Canadian Pacific Railway Company, Dominion lands to an extent not exceeding six thousand four hundred acres per mile for a line of railway from a point at or near Souris on the Souris Branch of the Canadian Pacific Railway, in a westerly direction to the Pipestone Valley, a distance of about thirty-two miles.
- 32. To the Brandon and South-western Railway Company, Dominion lands to an extent not exceeding six thousand four hundred acres per mile for a line of railway from a point in township one, in either range twenty-three or twenty-four west of the first principal meridian, to a point at or near Deloraine, a distance of about seventeen miles.

33. To the Saskatchewan and Western Railway Company, Dominion lands to an extent not exceeding six thousand four hundred acres per mile for a line of railway from Minnedosa to Rapid City, a distance of about fifteen miles.

The said grants and each of them may be made in aid of the construction of the said railways respectively in the proportion and upon the conditions fixed by the Orders in Council made with respect thereto; and, except as to such conditions, the said grants shall be free grants, subject only to the payment by the grantees respectively of the cost of the survey of the lands and incidental expenses at the rate of ten cents per acre in cash on the issue of the patents therefor.

The lands authorized by this Act to be granted to the Canadian Pacific Railway Company shall be taken and held, and may be disposed of, free and clear of any encumbrance on the lands or property of the said company created before the passing of this

Act

PART IV.

MISCELLANEOUS STATEMENTS.

No. 1.

STATEMENT of Contracts entered into during the Fiscal Year ended 30th June, 1896.

1. SUBSIDIZED RAILWAYS.

No. of Contract.	Contractor.	s	Date of ignatur	e.	General Description
11944	Canada Eastern Railway Co	22nd	Nov.,	1895.	From west end of their line to connect C. P. R. with St. Mary's Bridge, 1 mile.
12035	Cap de la Madelene Railway Co.	26th	June,	1896.	From Cap de la Madeleine to Piles Branch of the C. P. R., 3 miles.
12058		7th	Oct.,	1895.	From eastern end of 62 miles already subsidized towards Desert, 20 miles.
12276	Gulf Shore Railway Co. of N. B.	22nd	April,	1896.	From a point on Caraquet Railway, at or near Pokemouche Siding, towards Tracadie Village, 12 miles.
12280	Ontario, Belmont and Northern Railway Co.	23rd	do	1896.	From Belmont Iron Mines to Marmora Village; and from Marmora Village to junction with Ontario Central Railway, in 2 sections, 10 miles.
12293	Lake Manitoba Railway and Canal Co.	5th	Feb.,	1896.	From Portage La Prairie and a point half way to the mouth of the Saskatchewan River and transport Government supplies, &c.
1 23 06	Lotbinière and Megantic Railway Co.	3rd	July,	1896	Amending subsidy contract No. 11908 of 19th Nov., 1894, by substituting 2½ miles on the northern end of their line for the 2½ miles from Lyster Station to Lyster, 2½ miles.
12421	Winnipeg Great Northern Railway Co.	12th	Мау,	1896.	From Lake Dauphin or thereabouts to the Sas- katchewan River and transport Government supplies, &c.
12479	Midland Railway Co	30th	July,	1896.	From Newport or Windsor to Truro or to a point between Truro and Stewiacke, and from a point on the said railway to a point at or near Eastville, and from Eastville through the Valley of Musquodoboit River towards a point on the proposed branch of the Intercolonial Railway, 90 miles; also a railway bridge over
12511	Montfort Colonization Railway Co.	30th	do	1896.	the Shubenacadie River. From end of the 21 miles already subsidized westward to a point on the Rouge River, County of Argenteuil, 12 miles.
	2]	INTE	RCOL	ONIA	AL RAILWAY.
	Rathbun Co Thomas Robley	6th	Sept.	1895. 1895.	25 platform cars. Baggage room at Sydney, C.B.

						I.
1	2178	Rathbun Co	6th	Sept.	1895.	25 platform cars.
1	2192	Thomas Roblev	30th	do	1895.	Baggage room at Sydney, C.B.
1	2193	Hugh McDonald & Son	4th	do	1895.	Station at Eureka, N.S.
1	2218	Power & Co.	16th	Oct.	1895.	Heating system in freight shed and warehouse,
-			1			Deep Water Terminus, Halifax,
1	2227	Piton & Samson	9th	do	1895.	Warehouse at Deep Water Terminus, Halifax.
1	2247	C. O. Foss	16th	Nov.	1895.	Supply 2,630 sq. yds. granite paving blocks.
- 1	2260	Canadian Bridge & Iron Co	24th	Oct.	1895.	I deck beam bridge near Lévis
ĩ	2261	Canadian General Electric Co.	30th	Dec.	1895.	Put electric lights in warehouse, Deep Water
-			1			Terminus, Halifax.
1	2262	James and A. Robert Munro.	11th	đо	1895.	625 farm crossing gates.
		J. S. & A. S. Ross		do	1895.	40 standard switch gates, and 50 standard switch
-	2200	0. 10. 00 == 10. 00 = 0.00 = 1.11 = 10.				stands.
1	2269	Rhodes, Curry & Co	28th	do	1895.	2 snow-ploughs.
						Install 145 incandescent lamps in brick freight-
. •	I		-50			shed, Deep Water Terminus, Halifax.
		10 11***			3	the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s

2. INTERCOLONIAL RAILWAY-Concluded.

No. of Contract.	Contractor.	Si	Date of gnature	e.	General Description.
12323 0	J. Matheson & Co Canadian Bridge & Iron Co Jas. Watson & Co., J. R.	10th	Mar.,	1896. 1896.	2 iron bridges. 3 do
12350 V	Hutchins, agent	Not a	signed . April, May,	1896. 1896.	Supply 3,000 tons steel rails. Coal shed and trestle approach at Truro. Additions to station and freight shed buildings, Windsor Junction.
12490 1	Rhodes, Curry & Co Rathbun Co Rhodes, Curry & Co	17th	do	1896.	50 box freight cars. 50 box freight cars. 50 box freight cars.
12494 12496	do Crossen Car Manufacturing Co (Limited)	15th 17th	do	1896. 1896.	Freight shed at Dartmouth. 75 platform cars.
125571.	John McDongall & Co	lst	do	1896.	A 55 feet turntable for Dartmouth, N. S. 1,500 car wheels. Supply Sibley's and galena oil for Government railways.
12562	do do	23rd	do	1896.	Deliver entire quantity of signal oil.
	3. PRIN	CE E	EDWA	RD I	SLAND RAILWAY.
12240 12504	Rhodes, Curry & Co Sidney Grey	20th 1st	Nov., May,	1895. 1896.	125 car wheels. Sell newspapers, &c.
		4.	. RIDI	EAU	CANAL.
12298	H. Harris	. 21st	Feb.,	1896.	Supply 4,000 cub. ft. white oak timber.
	5.	SAU	LT ST	E. M	ARIE CANAL.
12230	J. & R. Miller Dominion Bridge Co	. 5th	Dec.,	1895.	Offices and workshop. Operate by electricity a railway swing bridge and construct a motor house.
12313 12460	J. & R. Miller	. 23rd 6th	March July,	, 1896. 1896.	Drill holes, &c., on the lift walls. Residence of masomy for superintendent.
		6. \$	SOUL	ANGI	ES CANAL.
12330	Dominion Bridge Co	. 23rd	April,	1896	Five highway bridges.
		7. TR	ENT	VAL	LEY CANAL
12185 12289	Warde & Ritchie	. 18th . 12th	Oct., Jan.,	1895 1896	. 3 lock houses. 1 deck and 2 dump scows. Section No. 2 Peterborough-Lakefield division.
12418 12456	Corry & Laverdure Rathbun Co	. 7th . 30th	May, June,	1896 1896	Supply 14,000 barrels Portland Cement "Starr
12506	Larkin & Sangster	. 12th	Aug.,	1896	Brand. Abutunents and piers for Grand Trunk Railwa Bridge at Auburn, Peterboro'.
				4	

8. WELLAND CANAL.

No. of Contract.	Contractor.		Date of ignatur	e.	General Description.					
12197 12332	W. A. N. West	5th 30th	Nov., May,	1895. 1896.	Clear out and deepen back ditch north side of Feeder. Clear out and deepen back ditch south side of Feeder. Supply iron castings for 1896. Supply brass and phosphor bronze castings for 1896.					
	9	. wi	LLIAN	MSBU	RG CANAL.					
	Kerr Brothers Gilbert Blasting and Dredging Company				Renew part of superstructure north pier, lower entrance, Farran's Point Canal. Dredge and deepen Farran's Point Canal.					
	10. CORNWALL CANAL.									
12150 12175 12330	J. & R. Miller Wm. Davis & Sons Dominion Bridge Co. (Ltd.)	30th 26th 23rd	Sept., Oct., April,	1895. 1896. 1896.	3 pairs lock gates, locks 15 and 17. Reconstruction south pier and ice breaker. 2 highway bridges.					

WALTER S. DOULL, Law Clerk.

October 14, 1896.

No.

GENERAL.

Showing Water power and other Public Property leased by the Department

	: 1			
Date of Signature.	Term of Lease.	Lessees.	Property Leased.	Area of Property Leased.
			1. Lachine Canal.	
Nov. 28, '95	Pleasure of Government.	Armstrong & Cook	Connect drain Montreal west with Lachine drain.	
June 27, '95	do	James Ferrier, jr	Surplus water and part cad. lot 326, St. Ann's Ward, Parish of Montreal, Mill	
Dec. 2, '95	3 years	Northern Paving & Construction Co.	street. Land at St. Gabriel south of canal, near	19,200 ft.
do 18, '95.	Pleasure of Government.	Montreal Water and	Atwater avenue. May lay a 14-inch cast iron pipe under canal at St. Henri.	
Meh. 5, '96	21 years only	Montreal Park and Island Railway Co.	Pts. lots 1005, 950 and 964, Parish of La- chine, Co. Jacques Cartier, Que.	5·111, 0·233 0·215.
April 11, '96	Pleasure of Government.	Grand Trunk Ry. Co.	Railway tracks from St. Henri bridge to Montreal Rolling Mills and to Clendin-	
April 23, '96	do do	Thos. A. Trenholme.	neng & Sons Foundry at St. Henri. Surplus land, 4 parcels, 3 being crossed by government collecting drain.	Over 90 ar pents.
May 2, '96	do do	Charles Sénécal	Surplus land, 2 lots north and south G. T. Ry., one crossed lengthways by government collecting drain.	Over 74 aı
do 1, '96	5 years	William E. Muir	Pt. cad. lot 324, St. Ann's ward, Montreal, west side Wellington Basin.	0.6267
June 17, '96	Pleasure of Government.		Lay a 3-inch pipe from Wellington Basin to their power house.	
			2. Rideau Canal.	
Oct. 15, '9	ő do	Fannie M. Wise, widow.	Lots 2 and 3, Hogsback Lock Station	4.80 and 5.7 sq. chains
Nov. 14, '9	5 do		Tract of land at Head of Deep Cut	1,400 sq. ft.
Jan. 10, '9	6 do	Matthew Ryan	Tract of land at Jones' Lock	4,000 sq. ft.
Mch. 14, '9	thereafter re- n e wable 10	Broom,	Surplus water and pt. lot 21, 7th con., Tp. Storrington, Brewer's Lower Mills Lock Station.	
Sept. 18, '9			Wharf lots 5 and 6, west side Canal Basin, Ottawa.	6,000 sq. ft.
June 12, '9	Government.	Ottawa Forwarding	Wharf lots 1, 2, 3, 4, west side Canal Basin	12,900 sq. f
May 30, '9	6 21 years renew- able.	Co. Corporation of the City of Ottawa.	Ottawa. Pts. Canal Reserve S, E. end Deep Cut in Lot Letter E, Con. Letter D, Rideau	
July 4, '9	6 Pleasure of Govt.	Michael Keily	Pts. Nov. 1, 2, 3, 4, Rideau Canal Reserve	
do 4, '9			Deep Cut, Ottawa. Reserve Land, Pt. Tp. Lot 35, Con. Letter	3.18
Aug. 12, '9	6 do	Thomas Birkett	B, Tp. Nepean. Wharf Lots 9 and 10, West side Canal between Sappers bridge and Basin Ottawa.	
Mar. 2, '9	6 21 years	Ottawa, Arnprior & Parry Sound Ry Co.	t Lot Letter C., Con. letter C, Tp. Nepean Pt. Canal Reserve E. side of canal.	7:365

2.

STATEMENT

of Railways and Canals during the Fiscal Year ended 30th June, 1896.

				Terms o	f Payment.		
For what purpose used.	Amount of Water Power Leased.	Date from which Lease is reckoned.	Annual Rental.	Amount of each instal- ment.	When due each year.	When first instalment was due.	
			\$ cts.	\$ cts.			
Carrying off surface wa- ter.	`	May 1, 1895	1 00		May 1	May 1, '95	In advance.
Nail factory	75 h. p	Jan. 1, 1895	2,000 00	1,000 00	July 1,Jan. 1	July 1, '95	do
Manufacture.	••••	Oct. 1, 1895	100 00	i	Oct. 1	i	
Supply water to St. Henri, &c.		Dec. 1, 1895	1 00		Dec. 1	Dec. 1, '95	do
Construct a railway.		May 1, 1896	10 00		Jan. 2		
Recv. or deliver goods,&c		April 1, 1896	500 00		April 1	April 1, '96	do
Pasturage		May 1, 1896	90 00	. 	May 1	,	
d o		do 1, 1896	74 00	•••	do 1	do 1, '96	do
Erect a shed.		, i	450 00		do 1 .	do 1, '96	do
Obtain water for their en- gines.	••••	June 1, 1896	30 00		June 1	June 1, '96	do
Summer residence.		Sept. 1, 1895	2 00		Sept. 1	Sept. 1, '95	do
Yacht house.		Nov. 1, 1895	2 00		Nov. 1	Nov. 1, '95	do
Ice house		'	7 50		do 1	,	
Grist mill	40 h. p	Jan. 2, 1896	65 00	32 50	Jan. 1,July 1	Jan. 2, '96	Rent of first year no charged on account of erection of buildings
Loading car-	· • • • • • • • • • • • • • • • • • • •	May 1, 1896	54 60		May 1	May 1, '96	In advance.
do] .	do 1, 1896	104 65		do 1	do 1, '96	do
Extension of King street &c.		do 1, 1896	1 00		do 1		
•••••		June 1, 1896			June 1		
•		 			do 1		
••••		July 1, 1896	54 6 0	[. 	July 1	July 1 '96	do
Approaches to a central station.		May 1, 1895	500 00	7	May 1	May 1 '96	do

GENERAL STATEMENT showing Water Power and other Public Property

	=	·			
Date of Signature	e. }	Term of Lease.	Lessees.	Property Leased.	Area of Property Leased.
				3. Williamsburg Canal.	
Dec. 27,	95	Pleasure of Govt.	Lucius Flagg	Lot No. 7, Con. 1, Tp. Matilda, County of Dundas.	0.56
				4. Welland Canal.	
do 3,	95	do	Sperry Carter	1½-in. iron pipe to house on West St., Port	
Jan. 10, '	96	10 years		Colborne. Parcel of land W. of west pier, Port Dal-	6.00
Oct. 29,	95	21 years		housie. Lay a 2nd 16-in, pipe through W. bank	800 ft. by 250
do 29,	'95	Pleasure of Govt.	of Merritton. Charles McDermott.	canal Reservoir, adjoining Lock No. 25. Pt. Lot 14, 6th Con., and 14, 7th Con., Tp. of Grantham, near lock No. 5, St. Cath-	$1\frac{1}{2}$
Nov. 14,	'95	21 years		arines. Portion canal lands, village of Dunnville	0.35
Feb. 6,	'96	5 years	Dunnville. James Walker,	Pt. Lot 29, Canal Reserve land, Tp. of	11.9
Apl. 11,	'96	10 years .		Thorold, Co. of Welland. Surplus water and Pt. Mittleberger Mill	0.3
do 23,	'96	10 years	Haskins. John Reeb	site and adjoining land, Dunnville. Lay gas pipe along canal lands and across Canal, Co. of Welland.	· · · · · · · · · · ·
May 28,	'96	thereafter 10 years renew-		Surplus water and water lots at locks 16, 18, 19 and 21, Merritton.	
July 2,	'96	able. Pleasure of Govt.		Cross Welland Canal Feeder by a Swing Bridge.	
do 3,	'96	do		Pt. Lot 26, 5th Con., Crowland	0.40
Aug. 20,	'96	do	W. B. Clark	Pts. Lots 20 and 21, 2nd Con., Tp. Grant- ham.	15.00
Oct. 6,	'96	21 years renew- able once only.		Lot 14th, 7th Con., Tp. of Grantham, old lock house lot at lock No. 6.	1
				5. Intercolonial Railway.	
May 21,	'9 5	Pleasure of Govt.	Rambler's Bicycle Club.	May erect foot bridge across I. C. Ry. Prince's Lodge, Co. of Halifax.	•••••
Dec. 30,	'95	dovi.	Quebec Central Ry.	Lot of land near St. Henri Junction, Que.	2,581 sq. ft.
Mar. 16,	'96	3 years	Geo. L. Hanington	Privilege selling newspapers &c. on I. C. Ry. trains between Truro & Sydney.	
do 24,	'96	do	Canada Ry. News Co.	Privilege selling newspapers on I. C. R., trains except between Truro & Sydney.	
Oct. 23,	'95	• • • • • • • • • • • • • • • • • • • •	Town of Campbellton	May build level crossing over I. C. Ry. at Andrews St. extension.	
				6. Trent Valley Canal.	
Nov. 7,	'94	Pleasure of Govt.	Frank Sandford	May cut a flume through Government dain, Fenelon Falls.	

leased by the Department of Railways and Canals-Concluded.

		Date from which Lease is reckoned.			Terms o			
For what purpose used.	Amount of Water Power Leased.			Annual Rental.	Amount of each instal- ment.	When due each year.	When first instalment was due.	
As a lawn	••••	Jan. 1,	96	\$ cts.	\$ cts.	Jan. 2	Jan. 1 '96	In advance.
Domestic	1] -in. pipe	July 1,	95	2 00		July 1	July 1 '96	do
Summer hotel	· • • • • · · • • •	Jan. 2,	96	25 00		Jan. 2	Jan. 2 '96	đo
Settling pond	16-in. pipe	Oct. 1,	95	1 00		Oct. 1	Oct. 1 '95	do
Piling lumber		do 1,	95	7 5 00	• • • • • • •	do 1	do 1 '95	do
Market ground.			95	5 00	· · · · · · · · ·		Nov. 1 '95	1
Pasture		,	96	25 00		j	Jan. 2 '96	
Power house.	25 h. p.		96	45 00	22 50	1	l	Cancels lease No. 9057
Supply gas to town Wel- land,				25 00	107.00	May 1		,
Paper mills	700 h. p. & 800 h. r. not over 1,500.	§	96	242 00	121 00	Jan. 1, July	Jan. 1 '96	Cancels lease No. 5895
Connect with C. S. Ry.		June 1,	96	1 00		June 1	June 1 '96	In advance.
Coal, lumber yard.	• • • • • • • • • •	July 1,	96	25 00	• • • • • • •	July 1	July 1 '96	do
	••••	do 1,	96	37 50	• • . • • •	do 1	do 1 '96	do
Flour and card mill.	•••••	Oct. 1,	96	75 00		Oct. 1	Oct. 1 '96	do
Foot bridge								The Crown at liberty t
Freight plat-	· • • • · • · • · · · · · · · · · · · ·	June 30,	95	1 00		June 30	June 30 '95	remove it at any time In advance.
form&shed Sell news-		Apl. 1,	- 1	725 00		Monthly		ļ
papers. do		do 1, '96	Ш	lst year 3,375 00 2nd year				
 		ao 1, 50	11	3,475 00 3rd year 3,575 00		} <u>}</u>	do 1'96	do
Power house.	Surplus water.	Nov. 1.	94	1 00		Nov. 1	Nov. 1 '94	do

WALTER S. DOULL, Law Clerk.

No.

AGREEMENTS respecting Subsidies in aid of construction of

nature.		_	Acts	Amount o	f Subsidy.
Date of Signature.	Name of Railway Company.	Line of Railway to be constructed.	of Canada granting Subsidy.	Per mile.	Not more in all than.
1895.				*	*
Nov. 22 1896.	Canada Eastern Ry.	From west end of their line to connect C.P.Ry. with St. Mary's bridge.	57-58 V., c. 4	3,200	! }••••••
June 26 1895.		From Cap de la Madeleine to the Piles Branch of the C.P.Ry.	57-58 V., c. 4	3,200	9,600
		From eastern end of 62 miles already subsidized towards Désert.	57-58 V., c. 4	3,200	64,000
		From a point on Caraquet Railway at or near Pokemouche siding towards Tracadie Village.	57-58 V., c. 4	3,200	38,400
April 23	Ontario, Belmont and Northern Ry. Co.	From Belmont Iron Mines to Marmora Village; and from Marmora Village to Junction with Ontario Central Railway.	56 V., c. 2	3,200	32,000
Feb. 5	Lake Manitoba Ry. and Canal Co.	From Portage La Prairie or Glad- stone to a point half way to the mouth of the Saskatchewan River, and transport Government supplies, &c.	58-59 V., c. 8		40,000 for 20 yrs.
July 3	Lotbinière and Mégantic Ry. Co.	Amending subsidy Contract No. 11908 of 19 Nov., 1894 by substituting 2½ miles on the northern end of their line for the 2½ miles from Lyster Station to Lyster.	57-58 V., c. 4	3,200	48,000
May 12	Winnigeg Great Nor- thern Ry. Co.	From Lake Dauphin or thereabouts to the Saskatchewan River, and trans- port Government supplies. &c.	58-59 V., c. 8		40,000 for 20 yrs
July 30	Midland Ry. Co.	From Newport or Windsor to a point on proposed branch of the Inter- colonial Railway, also a railway bridge over the Shubenacadie River.	1	3,200	300,000
June 26	Montreal and Ottawa Ry. Co.	From Vaudreuil towards Ottawa.	57-58 V., c. 4	3,200	118,400
July 30.,		From end of the 21 miles already sub- sidized westward to a point on the Rouge River, County of Argenteuil.		3,200	38,400

October 14, 1896.

3. Railways entered into during the fiscal year ended 30th June, 1896.

No. of miles subsidized.	Maximum Grade Feet per mile.	Radius of curvature not less than.	Width of clearing each side.	Width of cutting.	Embankment.	Steel rails, lbs. per lineal yard.	When to be completed.	Remarks.
1	Feet.	Feet.	Feet.	Feet.	Feet.	Lbs.	T 1 1 100m	
3	105	1,433 574	50 50	20	15 15	56 56	July 1, 1895. Oct. 1, 1895.	
20	105	574	50	20	15	56	Aug. 1, 1897	
12	53	955	50	20	15	56	June 1, 1897.	
10	80	716	50	20	14	56		Cancels No. 11327.
	65	955	50	20	14	56	Feb. 1, 1898.	
$2rac{1}{2}$	80	1,910	50	20	14	56	July 1, 1897.	
	65	955	50	20	14	56	Dec. 31, 1898.	
90	65	881	50	20	15	56	Aug. 1, 1898.	
60	53	955	50	20	15	56	do 1, 1898.	
12	175	573	50	19	14	56	do 1, 1897.	

WALTER S. DOULL,
Law Clerk.

No. 4.

th June, 1896,	Remarks.	Damage by Str. "Ocean," Release. do do do	32.48 in from acceptii	·	And \$196.70 costs.
r ended 30	Amount paid.	\$ cts. 64 50 163 50 158 75	828 00	280 00 100 00 100 00 100 00 100 00 170 00 475 00 125 00	686 40 8,154 85 118 36
ne fiscal yea	Area of land.		Pch. feet. 73 175	Acres. 6.5 2.3 0.06 0.07 1.60 2.71	1.39 & 0.77 3.11, 5.24 & 0.14 2 69
als during th	County.	Beauharnois do	Chambly	Stormont do do do do do do do do do do do do do d	Victoria 1 · 39 & 0 · 77 Cape Breton 3 · 11, 5 · 24 & 0 · 14 Victoria 2 69
Property purchased, or damaged, by the Department of Railways and Canals during the fiscal year ended 30th June, 1896,	District.	Beauharnois Canal. Beauharnois	Chambly Canal. ph de Chambly Canton	Cornwall Con 1, Cornwall do do do do do do do do do do do do do d	Grand Narrows North Sydney. Grand Narrows
aged, by the Depa	Lot.	Lot 18		Lot 30 R \$ 31 B \$ 37 Pt. lot 32 Front 32 Fr. \$ lot 32 Pts. lots 31, 32. Pt. E \$ lot 32.	Lots 32, 28, 28A. Lots 32, 28, 28A. Lot 186
ввту purchased, or dam	Who sold, &c., to Her Majesty.	Nov. 9, 1895 Alexandre Théoret		samuel Moss, et ux. G. Snetsinger G. Snetsinger Who H. Miller, et ux. ohn G. Snetsinger, ohn U. Thompson, I. W. Dickson, D. Olllan.	 July 15, 1895. Rev. Alex. F. McGillivray. Mar. 6, 1896. Geo. Campbell, et al, Exrs. J. S. Mclean. May 25, 1896. Chas. J. Campbell.
Prop	Date of Signature.	Nov. 9, 1895. Dec. 4, 1895.	do 4, 189b. 7 Aug. 1, 1895. Sept. 23, 1895.	Dec. 23, 1885. S do 24, 1895. J April 16, 1886. J May 14, 1886. J do 14, 1886. J do 18, 1896. J do 18, 1896. J do 16, 1896. J	July 15, 1895. Mar. 6, 1896. May 25, 1896.

	200 009	56,594 79 And \$1, Halifax Ry. ex- tension.	1 00 Quit-claim deed. 1 00 do do	318 73 And \$126.68 costs.		175 00 Leakage claim. 150 00 do do 800 00	30 00	388	288	388	546 00 do 548 00 do do do do			275 00 Kelease, damages.	25 00 60 00 do		200 00 Flooding public highway. 100 00 10 72 Release for a fence.
Acres	Cumberland So. feet.	Halifax { 76,518 }	do 76,518	Cape Breton 2.77		Hochelagado	Hochelaga	op op	do do	do do	3000	00000000000000000000000000000000000000		Pontiac.	op op		Lanark 1 acre
Intercolonial Railway.	Nappan River C.		op op	, A	Lachine Canal.	Parish of Montreal H	Parish of Lachine H	Ä	do do do do do			do do op op	Ottawa River Works— Culbute Dams.		Tp. Mansfielddo	Ridean Canal.	S. Elmsley N. Elmsley do
		2 lots covered with Halifax	Water.	Lot 236B				do 927, 930, 932 do 3616	do 3912	do 3614 do 3615	do 3726, 3504. do 142	do 145		ie, et al Lot 8, E. side Main Bryson. St., to lot 9, F. side			uz. Pt. S. W. ½ lot 17
	Sept. 25, 1895. R. Thompson Coates	1895. William Roche, et ux	Oct. 9, 1895. Julia B. Grant, et ux	Isabella Cameron, et al	Dec. 13, 1895. H. F. Burton, injuries at a fire at deep water terminus.	July 8, 1895. William Presseu Lot 140. Sept. 13, 1895. J. F. Regis Prudhomme, et al Lot 152. Nov. 9, 1895. George 3, Brash. compen.	sation for use of 2 scows and injury to the same.	1895. Joseph and Aldéric Larche. 1896. Francoise X. Jarry.	1896. John & Peter Jackson	Alex. Aubertin.	Patrick Farmer, et al A. & H. Mills Thos. A. Trenholme.	Hormisdas Poirier, et al Hugh McGee		Feb. 19, 1895. Richard McC. Ritchie, at a	June 5, 1895. Catharine Boothe Oct. 12, 1895. Miss J. & J. W. Bryson		Dec. 14, 1895. Cor. Tp. South Elmsley Jan. 14, 1896. William J. McLean, et ux. April 13, 1896. William J. McLean
	Sept. 25, 1895.	July 2, 1895.	Oct. 9, 1895.	Sept. 29, 1894.	Dec. 13, 1895.	July 8, 1895. Sept. 13, 1895. Nov. 30, 1895.	100k	July 5, 1895. May 15, 1896.	do 15, 1896. EMch. 27, 1896.	က် ထုံ ထုံ	do 16, 1896. do 20, 1896. do 20, 1896.	do 20, 1896. do 20, 1896. June 12, 1896.		Feb. 19, 1895.	June 5, 1895. Oct. 12, 1895.		Dec. 14, 1895. Jan. 14, 1896. April 13, 1896.

PROPERTY purchased, or damaged, by the Department of Railways and Canals, during the fiscal year ended 30th June, 1896-Continued.

Signature.	Who sold, etc., to Her Majesty.	Lot.	District.	County.	Area of Land.	Amount paid.	Remarks.
			Rideau Canal—Continued.			s cts.	
Jan. 2, 1896.	2, 1896. John J. Armstrong, et al	S. E. 119, Pt. S. W.	W. N. Elmsley	Lanark	:		
2, 1896.	William Beveridge, et ux	1 lot 18, 7th Con. 5.	ор	ф			
2, 2, 1896 1896 1896	2, 1896. John Beveridge 2, 1896. Richard Bolton, et al.	S. W. 4 23, 8th Con.	op	် မှ မှ			
Dec. 31, 1895.	Alonzo King, et ux	N. 1, 22, N. F. 1, 23 &					
Jan. 2, 1896.	Sam. T. Dowson, et al	S. \$ 24, 9th Con. Lot 21, 9th Con	op	op			
2, 1896.	Chas. Foster, et ux	Pt. 19, 9th Con	op	••••••	:::::::::::::::::::::::::::::::::::::::		
2, 1896	Richard Frizell	Pt. 18, Con. 9 and 8.	op	do		:	
6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6		Pts 18 and 17 Con 9	op Op	 00 O			
2, 1896.		Pts. 24 and 25, Con. 7.	op				Damages by Tay River
	George Groome, et al	Pt. 20, Con. 7.	op	do		:	Dam.
1896	George Hogg, et al	Pt. 21, Con. 10	op	တို		:	Note: The sum of
	B. & J. Kerr. et al	do 20. Con. 9	200				the payment of these
	James King, et al	21, Con. 8		· · · · op			Yay River dam claims
	John Matthews, et al	당		do	:	: : :	and the cheque for
2, 1896		Pt. 19, Con. 9.	op	م م			that amount has been
	W. H. MoLosn of and	Pt. 17, Con. 3	00 op	9-6		:	pand over to the Jus-
2, 1896.	Dan. McNaughton, et al.	Pts. 19, and 20, Con.					nice Department.
1006	Dan Makan at al	7, &c,	7	ć			
1806	David McLean of al	Pt. 20, Con. 7	3-6			::	
2, 1896.	William R. McLean, et ux.	Lot 22, 7th con., pt.					
2, 1896	:	lot 22, con. 8. Pts. 17, con. 7,18, con.	op	do		:	
9 1806	Goorge Bothwell of al	8. Dt lot 92 con 0	c c				
1806	Robert Smith of ur	Pt 99 con 4		:	:		
1896	Francis J. Spalding	Pt 22 con 9	00	3.6			
2,1896	Annie Wilson, et al.	Pt. 21, con. 7.	op	op			
2, 1896.	James Wilson, et al		op	ob			
June 2, 1896.	Geo. A. Harris and The	Tota 9 & 3 nt of ro. 1	Ottowo	Composition		_	O. i.e. ole in

50 00 Judge, Exchequer Court.	Quit claim deed.	\$180.67 was paid in full settlement for all the lots contained in both deeds.	Exchange of land.	Receipt for two months' interest on \$4,000, com-	Est. V. B. Cassidy. And \$250.00 interest \$380.06 do \$324.00 do	Rele	N. Maria Street. Tp. Smith.
<u>50</u> 00			1 00	40 00	1,600 00 2,600 00 2,600 00 1,800 00 1,800 00	1,240 1,000 1,175 3,900 1,25 1,75 1,75 2,550	30 00 115 00 770 00 660 00 400 00
0.25 acres		:	2.65		6.87 4.07 5.80 5.70 5.70 6.17	5.51 0.09 6.77 8.00 & 21.00 	#6 #666
Frontenac	Provencher	op	Algoma		Soulanges do do do do	do do do do do do Como do Como Vaudreuil Peterborough do do do Victoria	Peterborough. do do do do
	Canadian Pacific Railway. Emerson	op	Sault Ste. Marie Canal. Sault Ste. Marie	Soulanges Canal.	St. Ignace St. Joseph do do do	do Jgnace do do Coteau St. Michael Lakefield Eldon	Douro
Lots 33, con. 10 Tp. Pittsburg.	Pt. lots 1, 8, 9, blk. 11, 13, 5, blk. 18, 10, blk. 18, 10, blk. 10, blk. 10, blk. 10, blk. 31, 6, 5, 5	10, blk. 40, 8, 9, 10, blk. 40. Lots 6, 7, 8, blk. 45, 7, 8, 9, 10, blk. 54, 4, 5, blk. 59.	Scult Ste. M. Pt. Laird & Hender-Sault Ste. Marie. son mill site.			124 3. 114 107, 112 1. 56, 57 pt. blk. B. 55, 56, S. side &	55, 56, N. Portage Road. Pt. lot 13, Con. 8 Pt. lot 15, Con. 8 Pt. 16, E. Zavoline St. N. pt. blk. A. Quarry Reserve, pt. 28, Con. 7.
Nov. 4, 1895. John Tierney, et al	3, 1895. W. N. Fairbanks	do	Nov. 12, 1895. Lake Superior Power Co	Aug. 26, 1895. Mrs. Henriette Lamothe	G. L. A. Beaudet, executor Pt. several lots Moise Thanvette, jr. Pt. lot 329. Octave Leroux. do 140. Raphaël Menard. do 139. Emilier Cuillerer. do 319, 320	oseph Monpeit. oseph Leroux. J. Beaudet. J. Baudet. J. Langlois. ames Ahearn, et al. efer Hamilton. lary Ann Hurl, et al.	artin Coughlin, et uxdo do r. M. Graham, et ux artha Wilson
Nov. 4, 1895.	Oct. 3, 1895.	May 12, 1896.	Nov. 12, 1895.	Aug. 26, 1895.	Jan. 2, 1896. do 7, 1896. Feb. 8, 1896. do 12, 1896.	Mar. 10, 1896 J. 1896 do 25, 1896 Go 27, 1896 Go 27, 1896 Go 27, 1896 Go 27, 1896 Go 27, 1896 J. 1895 Popular, 18, 1895 Popular, 1895 Popular, 1895 Co 25, 1895 Co 25, 1895 Co	do 30, 1895. do 11, 1895. do 13, 1895. Oct. 4, 1895.

Remarks.		200 00 Between Maria and Cuth- arine streets.	ΑH	op				And N. Maria street.				950 00 Tr. Smith
Amount paid	e cts.	200 00	1,275 00 1,275 00 10 00 70 00	25 00 30 00 450 00 240 00 325 00	00 006	125 00	1,500 00	125 90 650 90 100 90	185 00 300 00 450 00	1,275 00 $400 00$	1,900 00 125 00 780 00	000 000
Area of Land.		0.013	6000 8600 8600 8600 8600 8600 8600 8600	0.005 1.27 9.12 22.7 1.08	4.14	2.22	5.76	3.26 0.27 0.12	4.88 12.35 2.27	26.66	42·13 6·96 21·59	01:0
County.		Peterborough.	do do do Victoria	Peterborough. do do Victoria	- op	do	op	: : : op op	 op op	doVictoria	Peterborough.	Ç
District.	Trent Valley Canal.	Lakefield	do do do Gudon	Lakefield do do do Douro. Eldon Smith	Douro	do	ор	Smith. Lakefield. do	Douro Smith Douro	do	Dourodo	1.1.06.14
Lot.		S. 4 lot 12	Pts. lots 13 and 14 N. ½ 11 and 12 Pt. 2, E. Caroline St. N. pt. 28, Con. 7 Pt. 59, N. side Por	tage Rd. Pt. 1ot 25. Pt. 1ot 25. Con. 5 do Pt. blk. C.& D. Plan 15 Douro Pts. 1ots 59 and 60 Eldon Pt. 3 blk A Onarre Smith	Reserve, pt. 28 Pt. 43, Subd. lot 1, Douro	Con. 12. E. 4 of W. 4 3, Con.	Ht. 37, 38, subd. 1,	Pt. E. 425, Con. 5. Smith Lot I7, E. Caroline St. Lakefield Quarry Reserve, do	Pt. lot 13, Con. 8 Ft. S. pt. 28, Con. 7. Ft. 44, subd. lot 1, I	C. 12. Pt. E. 4 4, Con. 11. Lot 51, N. side Por-	tage Rd. W. 44, Con. 11. E. pt. 24, Con. 5. Smith Pt. 23, Con. 4, W. pt. do	24, C. 5. D. 6 F. cf Champarts I allocald
Who sold, etc., to Her Majesty.	1	3 71	27, 1895, S. J. Wallace, et ux. 20, 1896, Nathan D. Ennis 11, 1895, S. A. Montgomery, et ux. 5, 1895, Thomas Cox, et ux. 19, 1895, David Wright, et ux.	x x x		16, 1895. Charles McColl	16, 1895. Frederick Edwards	19, 1895, Josiah Hunter, et vez. 18, 1895, S. E. & H. Snelgrove, Ex're. 18, 1895, Charlotte Snelgrove, et al	4, 1895. Hanna & T. Hammond 5, 1895. W. A. Hunter, et uz 18, 1895. William Little	30, 1895. John Shea	18, 1895. W. G. Thompson	90 1405 W T T T Statistical
Date of Signature.			Sept. 27, 1895. do 20, 1896. Oct. 11, 1895. do 5, 1895. do 19, 1895.	do 12, 1895 Nov. 12, 1895 do 16, 1895 00 23, 1895 4, 1895		do 16, 1895.	do 16, 1895.	do 19, 1895. do 18, 1895. do 18, 1895.	Dec. 4, 1895. do 5, 1895. do 18, 1895.	Nov. 30, 1895. Dec. 17, 1895.	do 18, 1895. do 9, 1895. do 9, 1895.	3- 00 1008

											lan 4.	
											N. Nelson st., plan 4.	
											s. Nelsc	
$\begin{vmatrix} 675 & 00 \\ 1,125 & 00 \end{vmatrix}$	3,275 00	2,325 00 3,900 00	200 00 500 00 700 00	675 00	810 00	1,250 00 830 00 350 00 2,250 00 4,400 00	750 60 175 00 700 00 1,485 00	1,270 00 200 00 875 00	1,050 350 350 350 350 350 350 350 350 350	2,600 00 2,600 00 2,75 00	4,000 00 1 15 00 2,900 00	2,300 00 2,300 00 1,450 00 65 00 140 00
23:83 4:05	3.205	53-22	1.71 2 acres. 1.14	1.56	3.55	2.28 0.92 0.33 3 acres. 132.50	36.60 0.05 48 acres. 41 do	2.58 0.33 1.86	21.40	64.50 44.30	0.66 0.03 71.20	1 acre. 57.25 0.2 2.12 4 acres. 0.3
::	:	::	:::	:	:	:::::	mgh.	ngh.	:::	: : :	. ugh.	ngh.
ф фо	op	op op	666	qo	op	do do do do Victoria.	do Victoria do	Peterboroug	366	Victoria do	Peterborough Victoria do	do do Peterborough Victoria
9, Con. 10 Douro	1, 7, 12. 12. Con. 18. N. 4 21. Con. St. N. 4 21. Ots. 22, 23, 24, N. Maria St. and pts. 66, 67, 68, 69, S.	blk Q do Douro do do do do do do do do do do do do do	3, Con. 12. do 1, 30, Con. 6. Dummer 1, 15, 16, 17, Ashburnham	Pt. 35, subd. lot 1, Douro	Pt. blk. U, plan 1 Ashburnham	do do do do do do do do do do do do do d	con. 3. - lot 2, con. 4 Carden 2, 8. Bridge st. Lakefield 1, con. 7 Carden 2, con. 5 do	s. Zi, Zo, con. Z Lafton	pian L Eldo 4 Eldo 11 do	. 21, con. 4. do	ance bet. con. 3 & 4 t. 1 & 2 Eakefield t. 5 Balsover t. 31, con. 4 & rd. do	attowance. 13, con. 3. 23, con. 4. do 3, plan 15, con. 2. do 3, 4, A, C, E, blk. B Ashburnham 3, 10, 27, con. 11. Eldon 3, 9, W con.
18, 1896 Daniel Maloney Pt 7, 1896 Michael Sullivan Pt	23, 1896. Z. J. Burnham, et al Pr	23, 1893, Z. J. Burnham, et al P. 7, 1896, L. & W. C. Taylor P.	1896. Wm. C. Taylor F. 1896. H. T. Strickland F. 1896. John Burnham, et al. P. P.	Samuel Edwards	27, 1896. Annie Erskine Pt	27, 1896, David Oliver. Pt. 12, 1896, R. S. Tivey, & uz. Pt. 10, 1896, T. P. Armstrong Pt. 12, 1896 (§eo. J. Horkins. Pt. 21, 1896, Peter Macpherson. Pt.	1895. Margaret McDonald	1896 Esther & J. Collins P. 1896 Theodore T. Ludgate P. 1896 John Burnham, et ux P.	1896. Ellen & J. Carlisle	$\begin{bmatrix} y, \ et \ al \dots \end{bmatrix}$	Vm. Ashe	96 Ben. Cowie, et ux 96 Elizabeth & R. Comolly. P 96 Fred. A. Stabback 96 Ellen & J. Carlisle 96 Angus McPherson, et ux. P 96 David Conroy, et ux. P
18, 189 7, 189			8,7,9 8,7,9	19, 1896.	27, 18	F,010,01-1	22, 182 11, 186 18, 186 27, 189	න්න්න්	පී.ක.ඞ		17, 189 2, 189 6, 189	9, 186 9, 186 9, 188 1, 189 17, 189
Jan. do	දි 10—2*		Jan. Feb. do	qo	ор	do 2 Mar. 1 do 1 do 1 April 2	do Nov. April		do April do	දිදිදි	April 17, 1896. May 2, 1896. A	May 9, 1896. Bed of 9, 1896. RI RPG of 9, 1896. RI May 23, 1896. April 1, 1896. Ar April 17, 1896. Da April 17, 1896. Da

1 Year ended 30th June. 1896 - Concluded. Ġ

Date of Signature.	Who sold, &c., to Her Majesty.	Lot.	District.	County.	Area of land.	Amount paid.	Remarks.
			Trent Valley Canal—(Continued).			es cts.	
				-	100	00 002	
April 25, 1896.	James May	Pt. 21, N. Maria st.	Ashburnham	Feternorougn.	# ¥	35	
Oct. 18, 1895	Elizabeth J. Crowe	Pt. 15, plan 8.		do	02:09	020 020	
	David S. Brown.	rt. rtge 11, 12, con z		v iccorna.	399	200	
do 29, 1896.		Lot 4		reteroorougu.	ع د ع د	32	
ž,		Pt. 1, con. 7	u	v ictoria.	0 10	200	
June 6, 1896.	W. E. Burke		op	:: :: :: ::	0.07	66 66	
do 6, 1896.	Jonathan W. Folliott, et al.	Pts. 9 to 15, & lot 6. Eldon	Eldon	op	0.53	96 96 97	
do 6, 1896.	Lucinda Silverthorne.		op	٠٠٠ - و	70.0	10 00	
	F A Stabback of un	D+ 30 & Pton 10 c 9		qu	37.60	355 00	
5,	City of the Diamer, of the	1 50 to 1 50 to 1 5			14.61	00 002	
Τ,	Charlotte Dalgilsh, et al	Ft. 20, con. J	op	: ::	100	983	
Ξ,	John Harrigan, et ux	Pt. 24, con. 4.	op	op	07.62	90 00	
do 11, 1896	Neil McLeod	Pt. 4. con. 1	op	go	1.60	3 8 8	
=	Thos Crawford	Pt. 2, con 3	Carden	qo	08.02	1.050 00	
=		Dt 9 30% 6			6.64	515 00	
í	Mished Duck of al	D. Die Sk 2000	Eldin	•	06.86	315 00	
1;	The Man Durk, et al	Fig. Fuge 29, com. 5	Fideli	•	20.02	775 00	
į	John Murphy, et ux.	Pt. 2, con. 5	Carden	op	20.00	38	
13	Eliza Marsh	Pt. 8, plan 15	Eldon	op	60.0	ON OT	
do 11, 1896.	Henry Folliott, et ux	Pt. 4 & 26, C. 1, & pts	ф		76.80	1,050 00	
		Ptge lots 7, 8, 9, c 2					
do ' !s	Wm. Crawford.	Pt. 3. con. 4.	Carden	do	26.10	450 00	
-		Tot 1 14 104 8 6 4	0	- P	173 acres.	9.700 00	
10, 10,		Dr 4 200 4 C. T.	On	2	0F-61	990 00	
10, 12, 1830.	Kuel Hamel, et ux	Ft. 4, con. 4	0p	on	21 01	00 000	
lo 22, 180 :	2, 1855. Dougal A. McGillivray	Pt. 1. con. 3	····· ορ	op	's acres.	1,200 W	
lo 18 189		Pt. 28	Eldon	طو ح	13.80	250 000	
1, 95, 1806		Dt bill W man 1	Achtumbon	Peterborongh	1 acre.	00 008 %	
10.00 10.00 O		r. olk. W, pian I	Ashuminani	17: 4: 1	00.00	1,050	
lay Z/, 1890.		Pts. 32, 31, con. 111.	Eldon	v ictoria	2000	1,650	
nne 13, 1896		Pt. 1, plan 15.	Balsover	op	eeeeeee	3 2 3 3	
1800		D+ 2 gen 111	Carden	-2	36.30	495 00	
5 6	:	5, 5, con 111				3 440	
Ď.	. ingus Mcrnerson, et ux	Ft. 7, con. 11.	Luoran	Unitario.	2 6	200	
C	:	Pt. 11, con. 9.	op	op	4.00	20 007	
do 11.	ux	Pts. 24. con. 1	Eldon	Victoria	- 03.6 -	310 00	
3, 93		D+ 3 con X	Thorah	Ontario	0.14	10 00	
	The Complete of the	D. 0 cen 10		do	4.50	050	
2000	Charles Wallington, to are.	D. E. C. C. J. 4 227 D		· · ·	41.30	1 755 00	
do - , 1020.	Donald McLae	pt. 5, con. A, pt. 4,		:		2,001,1	
		con. 11.					
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	Estate : f George Gaddy.		Estate of Jas. McGregor. Executors, John Cowie.		Release damages. Dunnville damages. Release damages.	
1,700 00 1,000 00 930 00 700 00 975 00 1,750 00	200 00 25 00 1,450 00 1,300 00	2,050 00	30 00 250 00	350 00 55 00 55 00 975 00	200 00 566 86 575 00	300 00
3 acres. 10.75 13.50 7.80 182.25	5 acres. 0.35 9.60 0.05 47.10	08.22	1 acre. 9·30	3.95 1.40 3.5 64.70	0.0	0.44
Victoria Ontario do do do Victoria	Ontariodo do do Victoría	Ontario	do	do Peterborough . Victoria	Lincoln Haldimand Welland	Grenville
Carden Thorah do Mara Thorah Eldon	1896 Hamilton P ovident L. Sy. Fr. 2. or A. Mara. Mara. Contario. 1896 John McArthur, et al., ex'rs. Pr. 10, con. X. Thorah. do do 1896 Geo. A. Wescott, et ux. Pr. 10, con. 10 do 1896 Esther E. Stabback. Portage or 11, pt. 2, do 1896 Ben. Madill, et ux. Portage or 12, and pt. 27,	Thorah	July 18, 1896 John McKay, executor Pt. 6 con. B. Mara. do 23, 1896 Wm. Kean, et al., executors Pt. 1, cons. A and B do do 23, 1896 Wm. Kean, et al., executors Pt. 1, cons. A and B	road allowance. Pt. 9, con. 10 Pt. 6, con. B. Mara. Pt. 14, con. B. Douro Pts. 18, 19, cons. 3 Eldon and 4.	Welland Canal. Grantham Damage to roads. Grayuga. Johns, Lot 27, West street. Pt. Colborne	urgh Canal.
Pt. 1, con. VI Carden Pt. 2, con. X Thorah Thorah Pt. 6, con. XI do Pt. 13, 14, con. C Pt. 11, con. X Thorah Pt. 11, con. X Thorah Pt. Portage lots 14, Eldon	Ft 2, con. A. Pt 10, con. A. Pt 10, con. X. Pt 10, con. IV. Pt 4. Portage 10, pt. 27, con. 2 and pt. 27,	Con. 1. Pts. 5, 6, con. XI, pt.	Pt. 6, con. B Pt. 1, cons. A and B	road allowance. Pt. 9, con. 10 Mara. Pt. 14, con. 8 Mara. Pt. 14, con. 8 Douro. Pts. 18, 19, cons. 3 Eldon and 4.	Pt. 15, con. 5 Damage to roads Lot 27, West street.	Lots 11, 12, con. 1 Pt. 10, con. 1
), 1896. Thos. Byrne, et ux. Ph. 1896. John D. Cowie. Ph. 1896. Selina Brown, admrstx. Ph. 1896. Joseph Hodgson, et ux. Ph. 1896. Sarah Gildenist. Ph. 1896. Sarah Gildenist. Ph. 1896. Geo. McKelvey, et ux. Ph. 1, 1896. Geo. McKelvey, et ux. Ph. 1, 1896. Geo. McKelvey, et ux. Ph. 1, 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. McKelvey, et ux. Ph. 1896. Geo. Ph. 1896. Geo. Ph. 1896. Geo. Ph. 1896. Geo. Ph. 1896. Geo. Ph. 1896. Geo. Ph. 1896. Geo. Ph. 1896. Geo. Ph. 1896. Geo. Ph. 1896. Geo. Ph. 1896. Geo. Ph. 1896. Geo. Ph. 1896. Geo. Ph. 1896. Geo. Ph. 1896. Geo. Ph. 1896. Geo. Ph. 1896. Geo. Ph. 1896	Hamilton P ovident L. Sy. Join McArthur, et al, ex'rs. Geo. A. Wescott, et ux Esther E. Stabback Ben. Madill, et ux	Wm. Kean, ct ux	John McKay, executor Wm. Kean, et ux, executors	June 30, 1896. Peter Campbell, et ux do 20, 1896. Thus. Morgan, et ux Mar. 31, 1896. Garret I. Galvin Sept. 26, 1896. Robert Lunan, et ux	Nov. 13, 1895 Martha Ann Carlson, et al do 7, 1885. Cor. Tp. N. Cayuga. Jan. 15, 1896. F. J. Quinn & P. Gibbons, Executors.	Mar. 4, 1896. Jeremiah McLaughlin, et uz Lots 11, 12, con. 1 Edwardsburgh. do 6, 1896. Geo. P. Anderson Pt. 10, con. 1 do do
do 30, 1896. do 20, 1896. do 30, 1896. do 20, 1896. do 30, 1896. April 11, 1896.	July 7, 1896. do 15, 1896. June 30, 1896. Aug. 6, 1896. do 10, 1896.	June 20, 1896.	July 18, 1896. do 23, 1896.	June 30, 1896. do 20, 1896. Mar. 31, 1896. Sept. 26, 1896.	Nov. 13, 1895 do 7, 1895 Jan. 15, 1896	Mar. 4 , 1896. do 6, 1896.

WALTER S. DOULL. Law Clerk.

october 14, 1896.

No. 5.

LANDS granted by the Department of Railways and Canals, during the Fiscal Year ended 30th June, 1896.

	Remarks.	ts Township of Grantham With adjacent waters.
	Area of Amount land.	es cts.
And the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t	Area of land.	10.10
D	County.	B. Columbia Wellan-l Algoma
	District.	Co. Between Ashcroft and Kamloops Division Spence's Bridge Co., Special grant of cer-Thorold tain lands. Co. Pt. St. Mary's Island Sault Ste. Marie
•	Lot.	Between Ashcroftand Spence's Bridge Special grant of cer- tain lands.
0	To whom granted.	May 15, 1896. Canadian Pacific Ry. Co do 13, 1896. Grand Trunk Ry. Co., Mar. 18, 1896. Lake Superior Power Co
17 (17 (17 (17 (17 (17 (17 (17 (17 (17 (Date of Signature.	May 15, 1896. do 13, 1896. Mar. 18, 1896.

WALTER S. DOULL, Law Clerk.

PART V.

CANAL STATISTICS

CANAL STATISTICS

FOR

SEASON OF NAVIGATION 1895.

REVENUE.

The total revenue, exclusive of hydraulic rents for two years, is as follows:

For 1894	\$307,824	67
For 1895		

By comparing the statistics of 1894 with 1895, it will be seen that the gross revenue has decreased \$24,613.26.

The increases and decreases are as follows:-

		Increase.	Decrease.
On the	Welland Canal		\$21,018 18
66	St. Lawrence Canals		3,699 70
"	Chambly Canal	\$4,732 19	
"	Rideau Canal		150 51
"	Ottawa Canals		2,096 64
"	St. Peter's Canal		2,210 51
66	Trent Valley Canals	58 35	
"	Murray Canal		228 26
	Total		\$29,403 80
	Total decrease		24,613 26

In compliance with the renewed request of forwarders and shippers of Montreal for a continuance of the reduction of tolls on certain agricultural products, His Excellency the Governor General in Council on 1st April, 1895, authorized a reduction of canal tolls, as follows:—

For the season of 1895 the canal tolls for the passage of the following food products, wheat, indian corn, pease, barley, rye, oats, flax-seed and buckwheat for passage eastward through the Welland Canal, shall be ten cents per ton, and for passage eastward through the St. Lawrence canals only, ten cents per ton, payment of the said tolls of ten cents per ton for passage through the Welland Canal to entitle these products to free passage through the St. Lawrence Canals.

In consequence of the reduced rates of tolls as above, being applicable to the said food products, irrespective of their destination, the reduced rate of ten cents a ton only was collected, and therefore no refunds were made on these articles for 1895.

It may be observed, however, that the reduction of tolls from twenty to ten cents per ton on the articles referred to, for passage through the Welland Canal, amounts to \$39,369.60.

QUANTITY OF GRAIN PASSED DOWN THE WELLAND CANAL.

The quantity of barley, corn, oats, pease, rye and wheat passed down the Welland Canal, from ports west of Port Colborne for a period of fourteen years is as follows:—

			ich full Tolls were Paid.
QUANTITY PASSED DOWN TO MON	TREAL.	To ports in Ontario.	Quantity from U. S. Ports to U. S., Ports.
	Tons.	Tons.	Tons.
82	180,694		63,881
83	186,814	10,650	121,876
84	142,194	12,153	104,537
85	96,569	11,909	117,346
86	203,940	9,881	151,551
87	185,034	11,838	134,868
88	160,358	25,599	169,664
89	267,769	19;075	213,766
90	228,513	16,899	245,932
91	(295,509	6,805	202,710
92	261,954	8,942	201,540
94	* \ 501,806	25,555	222,958
94 95	$\begin{array}{c} \ 273,651 \\ \ 231,491 \end{array}$	16,699 32,096	203,979 133,823

The tolls on grain for passage through the Welland Canal, prior to 1884, were 20 cents a ton, since that date, however, reductions have been made by Orders in Council from year to year as follows:—Upon the urgent request of forwarders and others interested in the grain trade, a reduction was made of one-half the usual rate of tolls on grain passing down the Welland Canal and the St. Lawrence Canals to Montreal; and in 1885 tolls were reduced to 2 cents a ton, and thereafter from year to year, including 1891.

In 1892 the tolls were reduced to 2 cents a ton on grain passed down the Welland and St. Lawrence Canals and exported, and in such cases only.

In 1893, by Order in Council of 13th February, the tolls were reduced to ten cents a ton on grain passing eastward through the Welland Canal irrespective of its destination, and the same rate of tolls for 1894 were allowed by O. C., 16th April, 1894.

For the year 1895 (O. C., April 1st, 1895,) the same rate of tolls was allowed as was granted for the year 1894.

The rate through the St. Lawrence Canals only, was 10 cents a ton.

It may be remarked that goods having paid full tolls on the Welland Canal are allowed to pass down the St. Lawrence Canals to Montreal free from payment of any further tolls.

During the last decade the quantity of agricultural products, as above passed down the Welland and St. Lawrence Canals to Montreal, has increased from 203,940 tons in 1886 to 231,491 tons in 1895; and the quantity passed down the Welland Canal, from United States ports to United States ports, has decreased from 151,551 to 133,823 tons for the same years.

^{*} Of the quantity of grain passed down to Montreal there were transhipped at Ogdensburg in 1891 17,817 tons, in 1892 4,341 tons, in 1893 71,445 tons, in 1894 23,030 tons and in 1895 18,987 tons.

The quantity of barley, corn, oats, pease, rye and wheat, arrived at Montreal via Grand Trunk and Canadian Pacific Railways for a period of 13 years, is reported as follows:—

	Tons.
For 1883	98,672
1884	142,231
1885	160,821
1886	165,613
1887	191,760
	113,794
1889	94,943
1890	119,208
1891	184,410
1892	291,680
1893	147,610
1894	60,666
1895	51,114

The quantity of the same articles passed down the whole length of the St. Lawrence Canals to Montreal, for the same period was:—

		Tons.
For	$1883\dots 2$	
	1884	74,496
	1885	34,824
	1886	72,133
	1887	37,881
	1888	66,191
	$1889.\dots 2$	75,414
	$1890\ldots$	
	1891	20,434
	1892	02,899
	1893 5	32,084
	1894	88,015
	1895 2	47,550

Comparative shipments of grain by the St. Lawrence route, and rail and water via the state of New York, are as follows:—

QUANTITY OF GRAIN TO SEA-BOARD BY COMPETING ROUTES.

The quantity of grain and pease passed down the whole length of the St. Lawrence Canals to Montreal, is as follows:—

For 1894	288,015 247,550
Showing a decrease of	40,465

The quantity of grain and pease carried to Montreal via Canadian Pacific and Grand Trunk Railways, is reported as follows:—

For 1894	10ns. 60,666 51,114
Showing a decrease of	9,552

The quantity of grain arrived at tide-water by New York Canals, is reported as follows:—

For 1894	
Showing a decrease of	783,357

The quantity of grain carried to tide-water by the New York railways, is reported as follows:—

For 1894	
Showing a decrease of	345,361

The increases and decreases for 1895 as compared with 1894 on the several routes, competing for the carrying trade to the sea-board, are as follows:—

	Increase.	Decrease.	Increase.	Decrease.
•	Tons.	Tons.	Per cent.	Per cent.
On the St. Lawrence Canals do Canadian Pacific and Grand Trunk Railways. do New York Canals do do Railways		9,552 783,357		14·02 15·75 67·31 10·25

By reference to Appendix U, it will be seen that the quantity of freight from ports west of Port Colborne to the United States ports, Oswego, Ogdensburg, &c., has increased from 165,543 tons in 1884 to 247,035 tons in 1895, and the quantity to Ontario ports, between Port Dalhousie and Cornwall, has increased from 100,425 tons in 1884 to 111,946 tons in 1895. The quantity passed down to Montreal shows an increase from 168,715 tons in 1884 to 266,659 tons in 1895.

TRANSHIPMENT OF GRAIN.

The quantity of grain passed down the Welland Canal in Canadian and United States vessels to Kingston for twelve years, is as follows:—

In Canadian vessels there were in-

		•		Tons.
1884, 111 c	eargoes, w	ith an aggregate	quantity of	70,475
1885, 75	do	do		45,639
1886, 244	do	do		143,330
1887, 284	do	\mathbf{do}		178,233
1888, 182	do	do		143,025
1889, 208	do	do		165,117
1890, 203	do	do		184,275
1891, 209	do	do		190,664
1892, 158	do	do		159,018
1893, 146	do	do		148,962
1894, 125	do	do		,
1895, 123	do	\mathbf{do}		
•		e		,

In United States vessels there were in-

				Tons.
1884, 117	cargoes v	vith an aggregate quantity	of	75,787
1885, 79	do	do		55,982
1886, 97	do	do		62,222
1887, 19	do	do		12,477
1888, 60	do	do		43,667
1889, 114	do	do		108,358
1890, 35	do	do		35,560
1891, 77	do	do		90,153
1892, 89	do	do		109,812
1893, 257	do	do		328,269
1894, 84	do	do		106,236
1895, 56	do	do		

Four vessels took cargoes of 1,344 tons through to Montreal intact in 1895, two cargoes of 810 tons in 1894, none in 1893, two in 1892 of 924 tons, and three in 1891 of 1,441 tons. Six vessels lightened a portion of their cargoes in 1895, against 19 in 1894, 34 in 1893, 25 in 1892, and 44 in 1891. 169 vessels discharged the whole of their cargoes at Kingston in 1895 against 188 in 1894, 369 in 1893, 220 in 1892 and 293 in 1891.

The quantity of grain transhipped at Port Colborne in 1895 and the four previous years is given below.

The total number of grain laden vessels lightened at this port in 1895 was 162, against 59 the previous year.

The quantity of the grain lightened was as follows:-

Articles.	1891.	1892.	1893.	1894.	1895.
Wheat Corn Rye Oats Barley	Bush. 16,665 482,802 13,318 257,000	Bush. 68,736 576,289 2,467 102,529	Bush. 47,558 759,000 11,540 35,353	Bush. 104,827 260,657 Nil 63,412	Bush. 322,662 870,705 Nil 71,648 21,003

The quantity discharged at this port from vessels which did not enter the canal was as follows:

Articles.	1891.	1892.	1893.	1894.	1895.
Wheat	Bush. 16,628 Nil Nil Nil	Bush. Nil Nil Nil Nil	Bush. Nil Nil Nil Nil Nil	Bush. Nil Nil Nil Nil	Bush. Nil Nil Nil Nil

WELLAND CANAL

The total quantity of freight passed on the Welland Canal during the season of 1895 was 869,595 tons; of this quantity 17,569 tons were way or local freight.

East and west bound freight.

There were 635,712 tons of freight passed eastwards, and 233,883 tons passed westwards.

The total quantity of freight passed through the whole length of the Welland Canal during the season of 1895 was 852,026 tons.

Of this quantity 230,100 tons were west bound and 621,926 east bound freight.

Of the east bound freight Canadian vessels carried 274,561 tons and United States vessels carried 347,365 tons; and of the west bound freight Canadian vessels carried 15,516 tons, and United States vessels carried 214,584 tons.

Of the total quantity of through freight Canadian vessels carried 290,077 tons, and United States vessels carried 561,949 tons.

St. LAWRENCE CANALS.

East and west bound freight.

Of the total quantity of freight passed through the canals during 1895 there were 596,771 tons passed eastward and 231,457 tons passed westward.

The total quantity of through freight was 496,944 tons; of this quantity 469,735 tons were east bound and 27,209 tons were west bound.

Of the total quantity of (way) or local freight, 127,036 tons were east bound and 204,248 tons west bound freight.

THROUGH TRAFFIC BETWEEN MONTREAL AND PORTS ON LAKES ERIE, MICHIGAN, &C.

The total quantity of freight passed eastward and westward through the Welland and St. Lawrence Canals, from Lake Erie to Montreal, during fifteen years, is as follows:—

	Eastward.	Westward.
	to Montreal.	from Montreal.
	Tons.	Tons.
1881	169,213	37,190
1882		24,488
1883		27,488
1884	168,715	9,425
1885		16,115
1886		16,801
1887	213,834	14,075
1888	183,899	19,310
1889	298,197	25,370
1890	231,746	31,951
1891	309,593	14,060
1892	263,144	9,452
1893	508,016	16,545
1894	292,191	9,439
1895		10,555
Q	•	

FREIGHT FROM UNITED STATES PORTS TO UNITED STATES PORTS.

The total quantity of freight passed eastward and westward through the Welland Canal, from United States ports to United States ports, for a period of fourteen years, is as follows:—

	Eastward. Tons.	Westward. Tons.	Total. Tons.
1882	110,286	172,520	282,806
1883	174,912	257,699	432,611
1884	163,998	243,081	407,079
1885	168,212	216,297	384,509
1886	224,916	239,562	464,478
1887	189,427	151,074	340,501
1888	221,062	213,689	434,751
1889	297,353	266,231	563,584
1890	318,259	215,698	533,957
1891	306,257	247,543	553,800
1892	300,733	240,332	541,065
1893	384,559	247,108	631,667
1894	361,319	230,948	592,267
1895	255,259	214,520	469,779

The total quantity of freight passed through the Welland Canal from United States ports to United States ports shows a decrease of 122,488 tons as compared with the previous year; and an increase of 186,973 tons as compared with 1882.

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Fiscal year.	Aggregate number of Vessels.	Total quantity trans- ported on the Welland Canal.	Quantity passed from United States ports to United States ports.
1867 1868 1869 1870 1871	No. 5,405 6,157 6,069 7,356 7,729	Tons. 933,260 1,161,821 1,231,903 1,311,956 1,478,122	Tons. 458,386 641,711 688,700 747,567 772,756
Season of Navigation. 1872	6,063 6,425 b,814 4,242 4,789 5,129 4,429 3,960 4,104 3,332 3,334 3,587 2,738 2,738 2,738 2,738 2,647 2,975 2,647 2,975 2,843 2,615 2,843 2,412	1,333,104 1,506,484 1,389,173 1,038,050 1,099,810 1,175,398 968,758 865,664 819,934 686,506 790,643 1,005,156 837,811 784,928 980,135 777,918 878,800 1,085,273 1,016,165 975,013 955,554 1,294,823 1,008,221	606,627 666,208 748,557 477,809 488,815 493,841 373,738 284,043 179,605 194,173 282,806 432,611 407,079 384,509 464,478 340,501 434,753 563,584 533,957 563,680 541,065 631,667 599,267

The total quantity of freight passed through the several divisions of the canals during the season of 1895 is as follows:—

	Farm Stock.	Forest, Produce of Wood.	Manu- factures.	Merchan- dise.	Agricultural Products.	Total.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Welland	26	121,846	25,438	232,537	489,748	869,595
St. Lawrence	2,730	111,533	59,312	338,793	315,860	828,228
Chambly	316	226,197	7, 44 7	103,611	21,456	359,027
Ottawa	998	532,084	148	4,827	3,163	541,220
Rideau	15	55,563	3,031	26,342	3,802	88,753
St. Peter's		712	3 9	6,944	2,133	9,828
Murray	18	4,446	821	4,224	1,815	11,324
Trent Valley	48	30,899	440	678	201	32,266

The total quantity of freight moved on the Welland Canal was 869,595 tons, of which 489,748 tons were agricultural products.

On the St. Lawrence Canals the total quantity of freight moved was 828,228 tons, of which 315.860 were agricultural products, and 338,793 tons were merchandise.

On the Ottawa Canals the total quantity of freight moved was 541,220 tons; of this quantity 532,084 tons were the produce of the forest.

STATISTICAL COMPARISON OF VARIOUS UNITED STATES ROUTES.

The statistical comparisons heretofore given in respect to the quantities of the principal articles carried through the Welland Canal, and those carried over routes in the United States, in competition with that work, have been continued to date.

By reference to statement H, as to the quantity of vegetable food carried to tidewater, it will be observed that the quantity carried by the New York Canals was 602,505 tons in 1895, 1,400,129 in 1894, 1,452,563 in 1893, 937,999 in 1892, and 1,092,355 in 1891.

The quantities of vegetable food carried by the New York Central, Erie and New York, West Shore and Buffalo Railways being:—

	Tons.	Tons.
In 1895	/3,798,574	In1887*3,847,766
1894	4,281,056	1886
1893	5,107,426	18854,105,594
1892	5,913,613	18843,639,805
1891*	3,565,381	1883 4,422,461
1890	4,336,199	1882 3,888,557
1889		18804,732,385
1898		18691,087,809

Flour and grain only.

The following figures are an abstract of the quantities of vegetable food carried to tidewater by the canals and railways of the state of New York, during twenty-seven years.

	Canals.	Railways.	Total.	Proportions by Canals.
	Tons.	Tons.	Tons.	
869	1,302,613	1.087.809	2,390,342	-545
870	1,295,010	1,766,457	3,061,467	423
871	1.850.198	2,205,589	4.055,787	456
872	1.674.320	1,870,614	3,544,934	472
873	1,745,171	2,036,992	3,782,163	461
874	1,767,598	2,791,517	4,559,115	387
875	1,305,550	2,343,241	3,648,791	357
876	1,064,293	2,875,803	3,940,096	270
877	1,498,984	2,493,683	3,992,667	375
878	1,912,734	3,695,764	5,608,498	341
379	1,833,399	4,353,617	6,187,016	296
380	2,371,090	4,732,385	7,103,475	333
381	1.116.561	4,983,722	6,100,283	183
382	1,118,776	3,885,557	5,004,333	223
383	1,379,000	4,422,461	5,801,461	237
384	1,236,986	3,639,805	4,876,791	253
885	1.063.310	4,105,594	5,168,904	205
386	1,489,886	3,802,262	5,292,148	281
387	1,539,403	3,847,766	5,387,169	285
888	1,166,958	3,197,734	4,364,692	267
990				262
889	1,296,896	3,654,984	4,951,880	
	1,167,901	4,336,199	5,504,100	212
891	1,092,355	3,565,381	4,657,736	234
892	937,999	5,913,013	6,851,012	137
893	1,452,563	5,107,426	6,599,989	284
894	1,400,129	4,281,056	5,681,185	327
895	602,205	3,798,574	4,401,079	159

COMPARATIVE STATEMENT OF TRAFFIC BY RAILWAYS AND CANALS VIA THE STATE OF NEW YORK.

On reference to the returns made by the railways to the state authorities of New York, and to the canal statistics submitted to the state legislature, I find that of the total tonnage of freight carried by the canals and railways, the state canals carried:—

P	er cent.	Per cent.
In 1859	68 · 9	In 1882 19·0
1869	47.0	1883 18.7
1870	38.9	1884 19.0
1871	38.9	1885 17.1
1872	40 · 1	1886 16.9
1873	34 · 9	1887 16.3
1874	31.7	1888 18.8
1875	28 · 4	1889 15.1
1876	24.6	1890 13.9
1877	28.3	1891 13.4
1878	27 · 1	1892 9.8
1879	23.7	$1893 \dots 10 \cdot 1$
1880	$25 \cdot 1$	$1894 \dots 10 \cdot 2$
1881	18.5	$1895 \dots 9 \cdot 7$

The quantity of freight carried by the canals and railways was less in 1895 by 1,746,073 tons than the quantity carried in 1894 and an increase of 23,717,165 tons over 1869.

The quantities carried were as follows-

	•	Total Tonnage.	Proportion by Canals.
In	1859	5,485,076	6890
	1869	12,453,174	· 4705
	1870	15,148,274	3895
	1871	15,844,152	$\cdot 3896$
	1872	16,631,609	·4012
	1873	18,200,208	· 3 497
	1874	18,283,547	·3174
	1875	17,101,758	· 2841
	1876	16,948,627	$^{\cdot} 2462$
	1877	17,489,770	$\cdot 2833$
	1878	19,017,301	$\cdot 2719$
	1879	$22,\!590,\!766$	$\cdot 2373$
	1880	25,706,586	$\cdot 2512$
	1881	27,857,394	· 18 5 9
/	1882	28,693,054	· 1905
	1883	30,167,119	1877
	1884	26,293,844	1905
	1885	27,543,948	1718
	1886	31,168,744	1 69 8
	1887	34,029,791	1632
	1888	26,244,610	1883
	1889	35,466,042	1514
	1890	37,624,199	·1394
	1891	38,524,179	· 1343
	1892	43,618,569	0982
	1893	42,953,233	1009
	1894	37,916,412	1024
	1895	36,170,339	.0967

Average freight rates, grain, Chicago to Buffalo:-

Year.	Wheat	Year.	Wheat.
1878	3.1	1888	2.7
1879	4.7	1889	$2 \cdot 5$
1880	$5 \cdot 7$	1890	1.9
1881	3.2	1891	$2 \cdot 5$
1882	$2 \cdot 5$	1892	$2 \cdot 2$
1883	$3 \cdot 5$	1893	1.6
1884	$2 \cdot 1$	1894	1.2
1885	2.0	1895	1.9
1886	1		
1887	4.1	Average eighteen year	rs 2·8

COMPARATIVE Statement of the Commerce through the U. S. St. Mary's Falls Canal, and Canadian Sault Ste. Marie Canal, for the Seasons of 1894 and 1895.

United States *Canad. Season of Canal. Season of Canal. Season of Canal. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount. Amount.		Traffic for 1895.	r 1895.	Total Traffic for 1895.	c for 1895.	Increase	Decrease.
stered Number 16,793 1,191 17,984 14,491 3,493 stered Net tons 16,763 1,191 17,984 14,491 1,307 stered Net tons 16,089,778 749,689 77,896 16,830,404 13,110,386 3,729,038 stered Number 30,910 2,386 15,067,485 13,110,386 1,871,625 number Number 30,910 2,386 15,067,485 13,110,386 1,871,625 number Number 30,910 2,386 15,067,485 13,110,386 1,871,625 number Number 30,910 2,386 15,067,386 1,873,600 1,871,625 number 100,114 122,763 2,123,904 2,284,317 3,895,431 3,895,431 number Net tons 105,337 2,176 4,510,066 4,510,066 4,510,067 4,600,1767 3,910 3,910 3,910 3,910 3,910 3,910 3,910 3,910 3,910 3,910 <		United States Canal.	*Canadian Canal.	Season of 1895.	Season of 1894.	Amount.	Amount.
Parrels 8,732,795 122,763 2,233,904 2,234,314 wheat) Bushels 4,518,075 4,518,077 34,860,483 11,222,284 wheat) Net tons 7,834,870 707,340 8,542,210 1,545,008 6,937,202 pig iron Barrels 100,337 2,176 102,513 60,659 41,854 Parrels 283,079 7,994 271,073 237,461 7,879 Ros, 3079 7,994 271,073 237,461 7,879 Ros, 3079 107,147 305 107,452 99,573 1,785,609 Ros, 3079 11,762,144 12,491,397 7,248 11,768,609 Ros, 3079 100 23,910 21,417 24,93 Ros, 3070 28,410 28,706 458,379 451,186 7,194		16,703 7,039 16,089,778 14,471,648 30,910 424,627	1,191 699 749,626 595,837 2,326 24,910	17,984 7,738 16,839,404 15,067,485 33,236 449,537	14,491 6,431 13,110,366 13,195,860 27,236 532,870	3,493 1,307 3,729,038 1,871,625 6,000	88.88
d and pig iron Net tons Barrels 23,079 7,994 17,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 271,073 27	hart	2,001,141 8,732,795 41,573,692 7,834,870	122,763 165,366 4,518,075 707,340	2, 123, 904 8, 898, 161 46, 091, 767 8, 542, 210	2,264,314 8,965,773 34,869,483 1,545,008	11,222,284 6,997,202	: :
M ft., B.M. 729,253 11,762,144 12,491,397 722,788 11,708,009 11,708,009 100 1412 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1412 11,708,009 100 1	d and pig Iron	100,337 263,079 107,147 7,850,065	2,176 7,994 305 214,290	102,513 271,073 107,452 8,064,355	60,659 237,461 99,573 6,548,876	41,854 33,612 7,879 1,515,479	
		729,253 100 23,410 419,673	11,762,144	12,491,397 100 23,910 458,379	722,788 412 21,417 451,185	11,768,609 	312
	1894.	`	,	1895.			

The United States canal was open to navigation during the season of-

1889	234 days.
1890	228 do
1891	225 do
1892	
1893	
1894	
1895	231 do

The Canadian canal was open to navigation during the season of-

1895..... 87 days.

The average number of vessels passing per day for the whole season of 1895 wa seventy-seven.

R. DEVLIN, Compiler of Canal Statistics.

OTTAWA, Nov. 18, 1896.

EXPORTS by Lake from the port of Chicago during 1895. From Report of Board of Trade, Chicago.

Commodities.	Quantity.	Value.
Corn	25,056	\$ cts 959,039 00 5,763 00 140,050 00
Vileat. Steel rails. Coal do Total.	122	6,775 00 638 00 1,112,265 00

Note—Nothing exported in foreign vessels.

SHIPMENTS of Grain (in Transit and Export) by Lake from Chicago during 1895.

From Report of Board of Trade, Chicago.

	Co	orn, Bushe	LS.	0.	ats, Bushe	LS.	Wheat, Bushels.	Totals.
	Transit.	Export.	Total.	Transit.	Export.	Total.	Export.	
Kingston, Ont Midland, Ont Pt. Edward, Ont. Sarnia, Ont Walkerville, Ont.	90,799 320,857 411,656	1,604,642 398,225 99,208 2,102,075	1,604,642 398,225 90,799 320,857 99,208 2,513,731	15,948 1,000,756 1,016,704	25,056	41,004 1,000,756 1,041,769	202,000 20,000	1,806,642 418,225 131,803 1,321,613 99,208 3,777,491

GRAIN FREIGHTS BY LAKE, SEASON OF 1895.

The following were the current rates of freight on wheat and corn from Buffalo to Chicago, Kingston, Ogdensburg and Montreal (steam); also to New York by Lake and Erie Canal; for each week during the season of navigation (from Report, Board of Trade, Chicago):—

1895.	To Burralo.		To Kings- TON.	To OGDENS- BURG.	To Montreal, (Steam).		Erie Canal, Buffalo to New York.		CHICAGO TO NEW YORK, LAKE AND CANAL, INCLUDING BUFFALO CHARGES.	
1890.	Wheat per Bushel	per	Corn per Bushel	Corn per Bushel.	per	Corn per Bushel	Wheat per Bushel.	Corn per Bushel.	Wheat per Bushel.	Corn per Bushel.
	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.
April 6			25	} 						
do 13	18	11	i						1	
do 20	1	1								
do 27	18 18 18 18 14	1		37	5 1					
May 4	14	11	$2\frac{1}{2}$	4	$5\frac{1}{8}$					<u></u>
do 11	14	118					2 to 2\frac{1}{8} 1\frac{7}{8} to 2	$1\frac{7}{8}$ to 2	41 to 41	37 to 4
do 18	1½ 1½ 1½	1						12 16 15 15	37 to 4	34 34 34 34 34 34
do 25	14	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	$2\frac{1}{2}$	27			17	15	4	38
une 1		14		3° 3			14	15	418	32
do 8		$1\frac{1}{8}$	j • • • • •	3 21			15	15	4	38
do 15	1	1					19	16	33 33 34 38	31/2
do 22	1	1	21				19	15	93	21
uly 6.		1			,		17	18	33	1 21
do 13.		i	1			41	17	15 15 15 15	33	31 31 31 31
do 20.		î	21		1	*2	2*	13	37	34
do 27.		13	-4				21	2*	48	4
Aug. 3.		11	21			1	21 to 21	2 1½ to 2 1½ to 1½	41 to 41	37 to 4
do 10.		18	25			41	2 to 21	12 to 13	4 to 4	4 to 4
do 17.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	13	1				2	13	43	44
do 24.	17	13					2	12	43	48
_do 31.	. 17	13			.)		17	19	48	44
Sept. 7.	. 17	13	31/2	33	1		17 to 22	1 to 2	48 to 5	4 to
do 14.	2 21	17				• • • • •	2 to 2	12 to 1	47 to 5	45 to
do 21. do 28.	. 24	2 2					2 to 21/2 to 21/2	17 to 2 25 to 2	5 to 5 to 5 to 5 to 5 to 5 to 5 to 5 to	45 to
Oct. 5	$ \begin{array}{c c} 2\frac{1}{4} \\ 2\frac{1}{3} \end{array} $	21		37		• • • •	25 10 25	25 60 2	ti og mog	1 58
do 12	3	23				,	25	21	6	58 58
do 19.	41	4		*4	1	,	21	21		71
do 26.	3	93					21/2	51	6	57
Nov. 2.	3	23 23	1				21	21 21	7 1 6 2 6 8	57
do 9.	. 3	2.3	1	1			32	$\frac{2^{\frac{3}{4}}}{2^{\frac{3}{4}}}$	67	57 57 68
do 16.	. 3	23	1	6	1		3	28	67	68
do 23.	· 28 · 28	25		·				1		
_do 30.	. 25	25			.]					
Dec. 7.		21 21		1						
do 14.	. 27	25	1		. (1

Lake Freights from Chicago to Buffalo on Wheat and Corn (as reported by Secretary of the "Merchants' Exchange," Buffalo, N.Y.)

STATEMENT showing the dates of the changes in the ruling rates of lake freight, on wheat and corn from Chicago to Buffalo, during 1895.

1895.	Wheat, bush.	Corn, bush.	1895.	Wheat, bush.	Corn, bush
Opening.	Cts.	Cts.	Opening.	Cts.	Cts.
April 5. do 15. do 30. May 6. do 8. do 10. do 15. do 16. do 22. do 23. do 27. June 1. do 7. do 8. do 10. do 14. July 15. do 16. do 17. do 26. do 29. do 30. Aug. 1. do 2. do 3. do 8. do 9. do 8. do 9. do 13.	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	do 19	2 21 21 21	

Note.—Corn from Chicago to Kingston ranged from $2\frac{1}{4}$ to $3\frac{2}{4}$ cents, and wheat from $2\frac{1}{4}$ to $2\frac{2}{4}$ cents per bushel during the season. Corn to Port Huron, 1 to 2 cents, and to Odgensburg in April, $2\frac{2}{4}$ cents per bushel. Barley to Oswego in September, 4 cents, and to Cape Vincent in October, $5\frac{1}{4}$ cents per bushel. Wheat to Toledo, $1\frac{1}{4}$ cents to $3\frac{1}{4}$ cents per bushel; corn to Oswego in July, $2\frac{1}{4}$ cents per bushel; wheat to Cleveland in August, 2 cents, and in September, $2\frac{3}{4}$ cents per bushel; wheat to Detroit in August, $1\frac{1}{4}$ cents per bushel.

Rates from Milwaukee about the same as from Chicago.

AVERAGE LAKE FREIGHTS.

The following statement shows the average rates of lake freights on wheat and corn between Chicago and Buffalo during each month in the past ten years, the highest and lowest rate on wheat in each year, and the average rate on wheat each year, in cents, per bushel:—

(Per Report of the Secretary of Merchants' Exchange, Buffalo.)

Grain, Bushels.	May.	June.	July.	August.	Sept.	Oct.	Nov.
·	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.
1886 { Wheat	3·1	2·7 2·5	2·7 2·5	$\substack{3\cdot2\\2\cdot9}$	4·5 4·2	4·8 4·6	4·3 4·0
Highest rate, wheat, 1886, 580	; lowest,	2c.; aver	age for th	e season,	3·6c.		
/ 3371	0.4	v.4	• •				• •
1887 {Wheat	34	51 4.7	3·8 3·5	3·5 3·3	4·1 3·8	4·7 4·4	3·9 3·6
Highest rate, wheat, 1887, 6c.					·1c.		
(Wheat	0.1	1.0	0.0	9.0	9.≃	0.4	0.5
1888 (Wheat	18	1.7	1.9	$\begin{array}{c} \mathbf{3\cdot2} \\ \mathbf{2\cdot9} \end{array}$	$egin{array}{c} 3.5 \ 3.2 \end{array}$	$\begin{array}{c} 2\cdot 4 \\ 2\cdot 1 \end{array}$	$\begin{array}{c} 2.5 \\ 2.3 \end{array}$
Highest rate, wheat, 1888, 4c.					7c.		
(Wheat	9.9	9.0	0.1	9.7	3.0	9.0	0.5
$1889 egin{cases} ext{Wheat} \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots $	2.0	1.8	1.9	2.4	2.7	$\substack{ 3.0 \\ 2.7}$	2·5 2·3
Highest rate, wheat, 1889, 3.6					2·5c.		
(Wheat	1.8	2.9	2.3	1.5	2.0	1.8	2.0
1890 { Wheat	1.6	2.0	$\mathbf{\tilde{2}}\cdot\mathbf{\tilde{0}}$	1.5 1.3	1.8	1.6	1.8
Highest rate, wheat, 1890, 210	c.; lowest	, 1 5c.; av	erage for	the season	n, 1 ⁵ 9c.		
Wheat	1.4	1.2	2·1	2.7	3.3	2.2	4.1
$1891 \left\{ egin{matrix} ext{Wheat} \dots & ext{Corn} \ ext{} \end{aligned} ight.$	12	$\tilde{1}\cdot\tilde{1}$	$\mathbf{\tilde{2}}\cdot\mathbf{\tilde{0}}$	$\mathbf{\tilde{2}\cdot\tilde{5}}$	3.0	$\overline{2}\cdot\overline{1}$	3.8
Highest rate, wheat, 1891, 51	c.; lowest,	1c.; aver	age for th	e season,	2·4c.		
Too (Wheat	1.9	1.8	2.0	2:3	2:3	2:3	2.6
1892 $\left\{egin{array}{ll} ext{Wheat} \dots & \dots & \dots \\ ext{Corn} \dots & \dots & \dots \end{array}\right.$	1.7	1.6	2.0 1.8	2.1	$\overline{2}\cdot\overline{1}$	$\mathbf{\tilde{2}}\cdot\mathbf{\tilde{1}}$	2.3
Highest rate, wheat, 1892, 3c.	; lowest,	1c.; avera	ge for the	e season, 2	2c.		
1909 (Wheat	1:3	1.8	1.2	1:3	1.7	2.1	2.0
$1898 \Big\{ \begin{matrix} \text{Wheat} \\ \text{Corn} \end{matrix} \Big.$	1.2	1.6	ī·ī	1·3 1·2	1.5	1.9	1.8
Highest rate, wheat, 1893, 23	c.; lowest	, 1c.; aver	age for th	ne season,	1.6c.		
1904 (Wheat	1.4	1.2	0.9	1.0	1.4	1·1	1.3
$1894 \left\{ egin{matrix} ext{Wheat} & \dots & \dots \\ ext{Corn} & \dots & \dots \end{matrix} \right.$	1.2	Ĩ· ī	0.9	0.9	1.3	10	1.3
Highest rate, wheat, 1894, 3c.	; lowest,	₫c.; avers	ge for the	e season, 1	·2c.		
1905 Wheat	1.2	1.2	1:1	1.6	2.1	3.0	3.0
$1895 egin{cases} ext{Wheat} \dots \\ ext{Corn}. & \dots \end{cases}$	î.î	îĩ	îô	1.4	1.9	2.9	2.7
Highest rate, wheat, 1895, 3c.					·9с.		

Lake Freights from Duluth to Buffalo on Wheat (as reported by the Secretary of the Merchants' Exchange, Buffalo, N.Y.)

The following statement shows the weekly ruling lake freight rates on wheat from Duluth to Buffalo, during the season of 1895:—

1895.	Wheat Bushels.		1895		Wheat Bushels.
•	Cts.				Cts.
April 1 to 16	Not quoted.	Week end	ing August	t 12	21
Week ending April 27		do	do	19	21 23 24 31 31 32
do May 4		do	do	26	27
do do 11	3	do		3	$3\frac{1}{2}$
do do 18		∐ do	do	10	$3\frac{1}{2}$
do _do 25		do	do	16	4
	3	do	do	23	4
do do 8	23	do	do	30	4
do do 15 do do 22		do do	Oct. do	7	-4
	24	do do	do do	14	5 to 6
	2	do	do	21 28	6 to 54
do do 13	21	do	Nov.	4	5½ to 6
do do 20	24	do	do	11	6
do do 27	21	do	do	18	to 5 2
	24 34 24 22 2 2 21 24 24 24 24 24	do	do	25 to close	6

In 1885, the range of freight on wheat, Duluth to Buffalo, was $1\frac{1}{2}$ to five cents; in 1886, $3\frac{1}{4}$ to 8 cents; in 1887, 5 to 8 cents; in 1888, 2 to 5 cents; in 1889, 2 to 5 cents; in 1890, 2 to 5 cents; in 1891, $1\frac{1}{4}$ to $9\frac{1}{2}$ cents; in 1892, $2\frac{1}{4}$ to 4 cents; in 1893, $1\frac{1}{4}$ to $3\frac{1}{4}$ cents; in 1894, $1\frac{1}{4}$ to 3 cents, and in 1895, 2 to 6 cents per bushel.

The first departure by lake at Duluth in 1895 was on April 27th; and the first arrival on April 30th. In 1894, season opened on April 20th; in 1893, on May 8; in 1892, on April 21st; in 1891, on April 30th; in 1890, on April 23rd; in 1889, on April 20th; in 1888, on May 12th; in 1887, on May 8th; and in 1886, on May 4th.

Wheat was shipped to Kingston, Canada, per bushel, during the season 1887, at 6\frac{2}{4} to 7\frac{3}{4} cents; in 1888 at 4 to 5 cents; in 1889, at _______; in 1890, 5\frac{3}{4}, 5\frac{1}{2}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4\frac{1}{4}, 4

LAKE FREIGHT RATES FROM TOLEDO TO BUFFALO ON WHEAT.

The following statement shows the ruling rates of lake freights on wheat from Toledo to Buffalo during the season of 1895, on the dates specified; (as reported by the Secretary of the Merchants' Exchange, Buffalo):—

Date, 1895.	Wheat, bush.	Date, 1895.	Wheat, bush.
Opening to May 17th. May 18th to July 29th. July 30th to August 7th. August 8th to September 18th. September 19th to October 11th.	111	October 12th to 22nd do 23rd to 27th do 28th to 30th do 31st to November 3rd November 4th to close	Cts. 2\frac{1}{2} 2\frac{1}{2} 2\frac{1}{2} 2\frac{1}{2} 2\frac{1}{2}

The range for 1886 was $1\frac{3}{4}$ to 3 cts.; for 1887, $2\frac{1}{4}$ to 3 cts.; for 1888, $1\frac{1}{2}$ to $2\frac{1}{6}$ cts.; for 1889, $1\frac{3}{4}$ to 2 cts.; for 1890, $1\frac{1}{2}$ to 2 cts.; for 1891, 1 to 3 cts.; for 1892, $1\frac{1}{2}$ to $2\frac{1}{2}$ cts.; for 1893, 1 to 2 cts.; for 1894, 1 to 2 cts.; and for 1895, 1 to $2\frac{1}{4}$ cts. per bushel.

From Toledo to Ogdensburg, wheat and corn shipped at 6 to 7 cts. in 1887; at 4½ to 6 cts. for wheat and 5 cts. for corn in 1888; and 5 to 5% cts. for wheat in 1889 per bushel.

From Toledo, on October 8th, 1887, corn shipped to Kingston at $3\frac{1}{2}$ cts. and on November 12th at $4\frac{1}{2}$ cts. per bushel. In 1888, corn Toledo to Kingston at $4\frac{1}{2}$ to 3 cts.; and wheat at $3\frac{1}{2}$ to 3 cts. per bushel. In 1889, wheat Toledo to Kingston at 3 cts., and in 1891, rye Toledo to Kingston at 3 cts. per bushel. From Toledo, on June 2, 1887, wheat shipped to Montreal by propeller at $6\frac{1}{2}$ cts.; on June 14th corn at same price; but on September 26th the rate on corn was only 5 cts. per bushel. In 1888, corn Toledo to Montreal at 6 to $5\frac{3}{4}$ cts., and wheat at $5\frac{1}{2}$ cts. per bushel. From 1889 to 1895 no shipments to Montreal or other places in Canada reported.

CANAL FREIGHTS FROM BUFFALO TO NEW YORK.

The following table shows the changes in the ruling rates of freight to New York, from Buffalo, on the days specified in 1895 (as reported by the Secretary, Merchants' Exchange, Buffalo):

Date.	Wheat, bush.	Corn, bush.	Date.	Wheat, bush.	Corn, bush.
1895.	Cts.	Cts.	1895.	Cts.	Cts.
May 3	215 2 2 115 2 2 25 2 25 2 25 2 25	2 12 140 40 60 60 40 11 11 12 15 15 15 15 15 15 15 15 15 15 15 15 15	Aug. 7	2 1 ₇₈ 24 24 22 24 24 25 25 25 25 27 27 27 27 27 27 27 27 27 27 27 27 27	12 18 2 12 12 2 2 2 2 2 2 2 2 2 2

The freight on oats varied from 1 to $2\frac{1}{8}$ cts. per bushel.

Pine lumber, per 1,000 feet, was carried from Buffalo and Tonawanda to New York as follows: Opened at \$1.75; changed on June 8th to 12th to \$1.60 and \$1.65; and October 3rd to the close, \$2. Rates to Albany, 50 cents per 1,000 feet less than on preceding figures.

AVERAGE CANAL FREIGHTS.

BUFFALO TO NEW YORK.

The following statement shows the average rates of canal freights on wheat and corn between Buffalo and New York during each month in the past ten years, and the highest and lowest rates on wheat, and average rate on wheat in each:—

Grain.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.
Gram.	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.
1886 $\left\{ egin{array}{lll} ext{Wheat} & \dots & \dots & \dots \\ ext{Corn} & \dots & \dots & \dots \end{array} \right.$. 5.7 5.1	3·8 3·4	4.0 3.6	5·4 4·8	6 · 0 5·5	5·5 5·0	4·8 4·5
Highest rate, 1886, 6.5c.; low	est, 3c.;	average fo	or the seas	son, 5c.			
1887 $\left\{ egin{array}{lll} ext{Wheat.} & \dots & \dots & \dots \\ ext{Corn.} & \dots & \dots & \dots \end{array} \right.$	5·1 4·6	4.5 4.1	3·8 3·4	4.0 3.6	4·5 4·1	4·8 4·4	5·8 5·3
Highest rate, wheat, 1887, 7c.	; lowest,	3.5c.; av	erage for	the season	n, 4.6c.		
1888 { Wheat	3·4 3·1	2·5 2·3	$\begin{array}{c} 2.5 \\ 2.3 \end{array}$	4·1 3·8	3·9 3·6	3·7 3·4	$\begin{array}{c} 3.5 \\ 3.2 \end{array}$
Highest rate, wheat, 1888, 4 t					n, 3 [.] 4c.		
$1889 egin{cases} ext{Wheat.} & \cdots & \cdots & \cdots \\ ext{Corn.} & \cdots & \cdots & \cdots & \cdots \end{cases}$	4·0 3·6	3·8 3·4	4.0 3.6	4·4 3·9	5.0 4.5	5·0 4·5	5·0 4·4
Highest rate, wheat, 1889, 5c.	; lowest,	3 7c.; av	erage for	the season	n, 4·8c.		
1890 ${f Wheat \ Corn}$	3·9 3·5	3·8 3·4	3·6 3·2	3·8 3·4	3·9 3·5	4.0 3.6	3·5 3·1
Highest rate, wheat, 1890, 4:2	c.; lower	st, 3c.; av	erage for	the season	n, 3·8c.		
1891 $\left\{ egin{matrix} \mathbf{W} \mathbf{heat} \\ \mathbf{Corn} \end{matrix} \right.$	28 25	2·9 2·6	2·8 2·5	3·8 3·5	4·2 3·8	4.6 4.2	4·0 3·6
Highest rate, wheat, 1891, 420	:.; lowest	, 2·5c. ; a	verage for	the seaso	n, 3·5c.		
$1892 egin{cases} ext{Wheat.} & \cdots & \cdots & \cdots \\ ext{Corn.} & \cdots & \cdots & \cdots \end{cases}$	2.7 2.4	2·2 2·0	2·4 2·2	3.0 2.6	3·8 3·4	4·7 4·4	4.6 4.3
Highest rate, wheat, 1892, 6c.	; lowest,	21c. ; ave	erage for t	he season	, 3·5c.		
1893 { Wheat	4·8	4·8 4·4	4.6 4.3	4.6 4.2	4.0 3.6	4·7 4·3	4·8 4·5
Highest rate, wheat, 1893, 5	c.; lowes	t, 3 [.] 6c. ; s	verage fo	r the seas	on, 4.6c.		
1894 (Wheat	3·1 2·8	2·9 2·6	3.0 3.3	3·4 3·1	3·6 3·3	2·9 2·6	3·0 2·7
Highest rate, wheat, 1894, 4c.	; lowest,	2 6c.; a	verage for	the seaso	n, 3·2c.		
$1895 \left\{ egin{array}{ll} ext{Wheat} & \dots & \dots \\ ext{Corn} & \dots & \dots \end{array} \right.$	1.9	1·7 1·5	2.0 1.7	2·0 1·7	2·1 2·0	2·5 2·2	2·7 2·5
Highest rate, wheat, 1895, 3c.							

Note.—Canal free of tolls since 1882.

FREIGHT, TOLLS, ELEVATING AND STORAGE RATES COMPARED.

The following statement shows the receipts of grain and flax-seed at Buffalo, the average canal freight on wheat, and the tolls on wheat to New York, and the elevating and storage rates at Buffalo for a series of years (as reported by Secretary, Merchants' Exchange, Buffalo):

Year.	Grain received.	Average Canal Freight on Wheat.	Tolls on Wheat.	Elevating including Storage.
	Bush.	Cts.	Cts.	Cts.
870	32,208,039	11.2	3.1	11
871	61,319,313	12.6	3.1	17
872.	58,703,666	13.0	3.1	14
873	65,498,955	11 · 4	3.1	1
874	55,660,198	10.0	3.1	11
875	52,833,451	7.9	2.0	1
876	44,207,121	6.6	2.0	1
877.	61,822,292	7.4	1.0	1
878	78,828,443	6.0	1.0	1
879	75,089,768	6.8	1.0	1
880	105,133,009	6.5	1.0	1
881	56,389,827	4.7	1.0	1 3
882	51,501,503	5.4	1.0	1 7
883	65,722,080	4.9	None.	7-007-1007-1007
884*	58,011,800	4.2	do	7
.885*	52,671,090	3.8	do	7
886*	75,570,850	5.0	do	7 8
887*	87,073,570	4.6	ďo	7
888*	73,977,390	3 4	do	1 7
889*	92,290,550	4.8	do	7
890*	91,994,680	3.8	do	7
891*	135,315,510	3.5	do	7 8
892*	138,872,560	3·5	do	7
893*	140,796,410	4.6	do	1 7
894*	105,435,577	3.2	do	i Ž
.895*	121,225,497	$2 \cdot 2$	do	1 7

Note.—Prior to 1870 tolls 6:21 cents per bushel, and the elevating charge 2 cents per bushel.

^{*}Including flax-seed.

AVERAGE FREIGHT CHARGES PER BUSHEL

For the transportation of wheat and corn from Chicago to New York for a series of years.

(From Report of Board of Trade, Chicago.)

		Corn.			WHEAT.	
	By lake and canal.	By lake and rail.	By all rail.	By lake and canal.	By lake and rail.	By all rail.
58	127		3619	1550		386
59	1570		3248	1663		.348
60	a 0833		3248	a · 095		.348
61	a 1062		3881	a 1210		•415
62	a 0957		4480	a 1062		• 480
63	a 063		4592	a 1002		• 492
64	a · 09		5600	a 012		-60
65	a · 0864		4188	a 0894		448
66	a 1075		4312	a 1377		• 462
67	a 0511		4176	a 08		44
68	a 0604		3532	a 0802		. 37
69	a 0584	2355	3320	a 0651	2520	35
70	a 16	2220	.28	a 0677	2250	30
71	a 0754	2372	2968	a 0687	2542	31
72	a 1072	2660	3266	a 1110	2950	.34
73	a 0816	2298	2893	a 1110	2461	.31
74	a · 0382	1388	2450	a 0400	1709	.26
75	a 034	1303	2240	a 0378	1389	24
76	5.0875	1079	1574	6.0982	1136	.16
77	6.0959	1406	1890	b·1109	1546	20
78	b · 0883	1053	1652	6 0996	1209	17
79	6.1049	1220	1456	6.1187	1313	17
80	b 1341	1443	1748	6.1313	1580	19
81	b·0777	0942	1340	b·0867		.14
82	b 0672	1028	1350		1049	14
83	b·0803	1028	1512	b:0723	1091	
	b·0655	.085	1232	6:0901	1163	. 16
	b·063	0801	1232	6.07	10	13
0.0		1120		b:0654	0902	13
86	b·0845 b·0850		14	6.0910	12	15
87		1120	1470	b:0950	12	15'
88	b:0671	1026	1354	b·0705	1114	14
89	b:0632	0819	126	b:0692	0897	15
90	b:0593	0732	1136	b.0676	0852	14
91	b:0632	0753	1400	b.0695	0857	150
92	b.0595	0721	1296	b 0645	0759	13
93	b·0718	0797	1365	b 0766	0848	.14
94	b 0493	0650	1232	6.0511	.0700	13
95 . 	b · 0450	0640	1029	b.0486	.0696	.11

a To Buffalo only. b Including Buffalo charges and tolls.

FOREIGN FREIGHT RATES.

Annual average Freight Rates on Grain, Flour and Provisions (per 100 lbs.), from Chicago to European Ports, by all Rail to Sea-board and thence by steamers.

Shipped to Artic	les. 1895.	1894.	1893.	1892.
	\$	\$	8	\$
Liverpool		3250	·3410	3287
do		·3316	3515	3625
do		4406	4547	4575
Glasgow Grain		3463	3585	3550
do Sacked flour		3503	3625	3906
do Provisions		4659	4828	4969
London Grain		3288	3760	3462
doSacked flour		3493	3794	3681
do Provisions		4575	4828	4688
222011011		4688	·4828	5025
zzuzzuzzung.		5000	5250	5000
	5000	5000	5000	5500
20000001	4800	5000	5000	5500
	5531	5531	5531	6094
· • • • • • • • • • • • • • • • • • • •	6656	6656	6656	·7219
200000000000000000000000000000000000000	5531	5531	5531	6094
Bordeaux do	6413	6250	.6000	6200

LAKE FREIGHTS ON COAL FROM BUFFALO TO CHICAGO AND OTHER PORTS.

The following statement shows the ruling freight rates on coal per net ton, in cents, from Buffalo to the Ports named, during the season of 1895, for the week ending on the dates specified.

1895.	•030	злкее.	Duluth and	n Bay	вропе.	ogsu.	do.	.tio	.əui	.Wani	· City.	sppntn.	.եռուն
Week ending.	Ohie	wliM	Superior Ports.	991Đ	Glad	грер	•loT	Detr	ъвЯ	Sec.	Вау	8W	18A
	9	Cts.		Cts.	Cts.	Cts.	Cts.	Cfs.	Cts.	Cts.	Cts.	Cts.	Cts.
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	9		ន	88	83				40				
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	28	\$	8	45	28		ន	: ;	83	⊋ ¥	3 %	36	3 6
	28	45	R	:::::::::::::::::::::::::::::::::::::::		45	ន	8 8	2	8 %	3 6	3	3
	25		8	:	8		83	និង	83	ક	3	26	:
	20		25		3	:::::::::::::::::::::::::::::::::::::::	និ	8	3	•		3	:
	26		ଛ	45	3	:	83			2 %	3 %		
	26		ଛ	45	8	:	នុះ	 જ	6	3 8	3		
	3		38		36	:::::::::::::::::::::::::::::::::::::::	3 8	:	7.8	3 85	8		
	21		88	3 8	3		3.5	:	25	3	8		8
	2.5		88	3 6	3 8		25 to 30			4 5	8		æ
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Dec. 1, to close.	-	•	,		•								

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NOTE.—All coal carried on the lakes is loaded and unloaded free of expense to the vessel.

TOTAL VALUES of Merchandise Received from British North America for Immediate Transit across United States Territory, for Immediate Transhipment in Ports of the United States to British North America, and so shipped, during each year from 1873 to 1895 inclusive.

Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Scotia Quebec Nova Sc	British North America , On- fami- and British and British lan erri- cts. \$ cts. \$ cts. \$ 5,240,344 97,691,345 226,074,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375,375	found-d and brador.		Nova Scotia New Brunswick, and Prince Edward Island. \$ cts.	Nova Scotia Quebec, On-Brunswick, toba and and Prince the North-Edward the North-tories.	British North America On- fami and British Ian British Ian Columbia. Lak s.	nerica. Newfound-land and	Total.
Nova Scotia Quebec, On-New tarlo, Manibrunswick, tolas and tarlo, Manibrunswick, tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and tolas and t		!— , ; ; ; ; ;		Nova Scotia New Brunswick, and Prince Edward Island. \$ cts.	Quebec, On- tario, Mani- toba and the North- west Terri- tories.	British Columbia.	Newfound- land and Labrador.	Total.
873 485, 289 874 449, 655 876 449, 655 877 261, 443 878 160, 658 879 194, 129 880 215, 131 881 171, 383 882 164, 990 883 164, 990 883 164, 990 883 561, 791	\$ cts. 5,240 97,691 256,074	cts.	\$ cts.	\$ cts. 5,282,290				
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251,445 160,658 163,978 194,129 215,131 171,383 161,990 164,990	195,047	<u></u> -	18,042,577	8,999,596		517,060		29,800,295
163,978 194,129 215,131 171,383 164,990 164,990	()	1,137	22,591,902 12,471,695	9, 102,600 2,879,422		544,018	2.475	24,419,888 18,977,153
194,129 216,131 171,383 164,990 164,990	412,966		12,204,058	951,268		524,013	934	12,912,685
171,383 164,990 561,791	280,079	යි	12,081,095	889,539 1,643,716		476.824 531.436	288 2882	17,042,103
164,990 561,791	72,555		17,002,046	1,778,836		719,268	88	23,356,264
TO (TOO)	113,018 36,973	— ≅%	28,543,178 29,862,820	2,732,665	35,878,389	855,784 971.307	1,190	37,595,484 39,312,568
656,233	188,041		13,419,227	1,740,900		1,475,833	5,186	22,939,385
	359,104	32.079	10,861,020	2,040,298		1,825,178	6,174	20,241,079
1,684,730	213,816		11,504,721	1,621,748		635,841	02	22,187,955
1,525,048	372,934		8,542,817	1,781,028		370,322 665,597	1,137	13,611,656
3.070.657	306,897	174.584	16,001,910	5,277,210		913,106	4,690	27,335,204
	422,806		19,780,470	5,605,614		547,144	34,273	27,883,023
4,393,062	201,373		23,928,255	2,079,783	24,189,181	428,188	6,962	26,704,114
1,009,597	89,565		17,885,573	2,052,357	20,232,400	409,000	26,289	22,720,111
1894	411.557		19,621,862	1,834,745	19,320,714	558,991	7,844	21,722,294

TOTAL VALUES of Merchandise received from the Principal and other Foreign Countries for immediate Transit across United States
Territory or for Immediate Transhipment in Ports of the United States to other foreign countries, and so shipped, for each
Year from 1868 to 1895 inclusive.

		Count		ries from which received	,			ဝိ	Countries to which shipped	nich shippec	ri		Total Value of
Year ending June 30.	Great Britain and Ireland.	Germany.	British North American Possessions.	Mexico.	Cuba.	Other Countries.	Great Britain and Ireland.	Germany.	British North American Possessions.	Mexico.	Cuba.	Other Countries.	Merchandise received and shipped.
	69	99	69	66	**	**	6€	99	69	66	€€	6 9	99
26 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 18	10,664,576 10,891,636 10,210,455 117,633,231 117,633,231 117,633,231 119,144,815 118,657,276 11,064,137 11,084,137 11,084,139 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084,130 11,084	132,074 159,385 322,110 227,235 227,110 227,235 220,483 327,897 376,484 327,897 376,704 721,397 629,704 721,344 721,344 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,414 1,462,	4, 864, 200 7, 79, 57, 500 1, 78, 600 13, 374, 600 12, 600 12, 600 12, 600 12, 600 12, 600 12, 600 12, 600 13, 410 13, 410 14, 600 15, 600 15, 600 16, 600 17, 184 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 600 18, 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176,528 176,528 176,528 176,528 176,528 176,528 176,528 176,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 178,528 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1,847,162 1,284,462 1,785,947 1,686,733 1,480,733 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 1,521,153 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1,521,	2,025,028 2,946,038 4,001,319 2,743,494 7,731,200 7,731,200 7,732,912 11,712,912 11,712,912 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 11,712,913 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FOREIGN CARRYING TRADE.

foreign vessels during each Fiscal Year, from 1857 to 1895 inclusive, with the percentage carried in American vessels (coin and bullion are included from 1857 to 1879, inclusive,) as method of transportation of specie and merchandise cannot be separately stated. VALUE of the Imports and Exports of the United States carried respectively in cars and other land vehicles, in American vessels and in

Percentage carried	in American vessels.		70.5	6.98 6.38 6.38	85.55 85.55	50.0 41.4	25.6	- 57 - 58 - 58 - 58	& & •	88.1	9.22.e	1 40 c	88. 8. 5.	-⊗ 38		6 8 8 8	9.53.5	17.18 16.91	15.40	15.54	16.60	12.65 13.80 13.80
30	Total.	\$ \$	723,850,823 607,257,571	695,557,592	584,995,066	584,928,502	669,855,034	1,010,938,552	879,165,307	876,448,784	991,896,889	1,212,328,233	1,340,899,221	1,119,434,544	1,142,904,312	1,134,045,627	1,202,708,609	1,506,535,404	1,475,181,831	1,547,020,316	1,408,211,302	1,314,960,966
TOTAL IMPORTS AND EXPORTS.	In Foreign vessels.	66	213,519,796 160,066,267	229,816,211 255,040,793	203,478,278	343,056,031	485, 793, 548	685,226,691	581,330,403	586,492,012	755 822 576	839,346,362	966,723,651	884,788,517	813,354,987	876,991,129	911,269,232	1,224,200,454	1,212,978,769	1,258,506,024	1,127,798,199	1,073,911,113
Total Import	In cars and In American other vessels.	₩	510,331,027 447,191,304	507 947 757	381,516,788	241,695,418	184,061,486	325,711,861	297,834,904	289,956,772											233,699	
	In cars and other land vehicles	66		:							99 985 510	27,650,770	27,869,978	20,388,235	18,473,154	20.477.364	19,423,685	20,361,333	34,973,317	48,092,892	46,714,068	43,700,350
	In Foreign vessels.	66	111,745,825 81,153,133	107,171,509	69,372,180	199,880,691	237,442,730	351,754,928	301 886 491	285,979,781	329,786,978 392,801,932	393,929,579	533 886 071	501,838,949	492,215,487	569,583,564	600,769,633	777 169 714	641,460,967	694,331,348	615,287,007	581,973,477 621,802,292
Exports.	In American vessels.	60	251,214,857 - 243,491,288	249,617,953	179,972,733	132,127,891	102,849,409	213,671,466	180,625,368	153,154,748	199,732,324	168,044,799	171,566,758	156,385,066	167,686,467	166,551,624	128, 425, 339	116,955,394	96,962,919	104, 418, 210	98,652,828	72,991,253
	In cars and other land vehicles	••									7 798 156	10,015,089	10,799,430	7,304,356	6,324,487	7.511.365	7,439,862	9,000,920	12,118,371	25,089,844	26,573,774	19,144,667 21,389,666
	In Foreign vessels.	99	101,773,971 78,913,134	122,644,702	134,106,098	143, 175, 340	248,350,818	333,471,763	300,622,035 248,659,583	300,512,231	369,140,510	445,416,783	471,806,765	382,949,568	321,139,500	307,407,565	310,499,599	491 840 969	571,517,802	564,175,576	512,511,192	491,937,636 543,392,216
IMPORTS.	In American vessels.	89	259,116,170 203,700,016	216,123,428 228,164,865	201,544,055	109,744,580	81,212,077	112,040,395	122,965,225	136,802,024	153,237,077	177,286,302	176,739,834	157,872,726	143,389,704	146,499,282	143,590,353	133 631 146	130,266,826	136,002,290	135,046,207	118,942,817 121,365,493
	In cars and other other ves	49									15.187.354	17,635,681	17,070,548	13,083,859	12,148,667	12,965,999	11,983,823	17 193 913	22,854,946	23,003,048	20,140,294	24,555,683 27,562,059
Year	June 30.		1857 1858	1859	1861	27	1864	1866	1868	1869	1870	1872	1873	1875	1876	1878.	1879	1881	1882	1883	1884	1886 1887

VALUE of the Imports and Exports of the United States carried respectively in cars and other land vehicles, etc.—Concluded.

Percentage carried	in American vessels.		13.44	12·29 11·94	11.85	12.2	11.7
ź	Total.	66	1,419,911,621	1,647,139,093	1,857,680,610	1,714,066,116	1,589,508,130
Total Imports and Exports.	In Foreign vessels.	66	1,174,697,321	1,371,116,744	1,564,559,651	1,428,316,568	1,285,896,192
Total Impor	In cars and other other other ressels.	96	190,857,473	202,451,086	220,173,735	197,765,507	170,507,196
	In cars and other land vehicles	49	54,356,827 66,664,378	73,576,263	72,947,224	87,984,041	83,104,742
	In Foreign vessels.	**	606,474,964 630,942,660	747,376,644	916,023,675	733,132,174	695,357,830
Exports.	In cars and In American In Foreign other vessels.	*	67,332,175	77,502,138	81,033,844	70,670,073	62,277,581
		66	22,147,368 28,436,517	32,949	33,220	43,862	49,905
	In cars and In American In Foreign other vessels.	**	568,222,357	623,740,100	648,535,976	503 810 334	590,538,362
IMPORTS.	In American vessels.	••	123,525,298 120,782,910	124,948,948	139,139,891	127,095,434	108,229,615
	In cars and other land vehicles	69 -	32,209,459	40,621,361	39,726,595	44,121,094 20,633,095	33,201,988
Year	June 30.		1886	1890	1892	1893	2681

Nores.—1. The amounts carried in cars and other land vehicles, were not separately stated prior to July 1, 1870. 2. Exports are stated in mixed gold and currency con last to 1879, inclusive.

STATEMENT showing the Total Values of Foreign Merchandise transported in the In-Transit and Transhipment Trade of the United States with the British North American Possessions during each year from 1871 to 1895.

Year ending 30th June.		transit and titish North A Possessions.		Shipped in transit to or transhipm for British North American Possessions.					
	By Land.	By Water.	Total.	By Land.	By Water.	Total.			
	\$	\$	\$	\$		*			
871	6,035,585	1.918,475	7,954,060	15,624,591	2,781,884	18,406,475			
.872		1,038,310	9,276,169	19,357,342	4,685,448	24,042,79			
.873	. 11,700,787	1,693,906	13,394,693	20,178,666	6,605,518	26,784,18			
874		1,468,100	14,163,690	20,572 299	6,938,430	27,510,73			
.875		1,152,555	18,042,577	23,794,129	6,006,166	29,800,29			
876	. 21,301,262	1,290,640	22,591,902	19,369,958	5,049,930	24,419,88			
877	. 10,835,642	1,636,053	12,471,695	17,066,855	1,910,298	18,977,15			
8 7 8	10,314,534	1,889,524	12,204,058	11,914,321	998,364	12,912,68			
879	. 10,098,998	1,982,097	12,081,095	12,030,635	858,952	12,889,58			
880	. 15,265,177	1,869,570	17,134,747	16,388,673	653,430	17,042,00			
881		1,801,079	17,002,046	22,828,270	527,994	23,356,26			
882		3,878,149	28,543,178	36,613,465	982,019	37,595,48			
883		3,420,450	29,802,820	38,389,318	923,250	39,312,56			
884	. 13,043,498	375,729	13,419,227	22,120,587	818,798	22,939,38			
885	. 12,755,686	767,927	13,523,613	19,105,476	594,982	19,700,45			
886	9,593,344	1,267,676	10,861,020	19,428,867	812,212	20,241,07			
887		2,127,680	11,504,721	20,178,365	2,009,590	22,187,95			
888	. 6,309,024	2,033,793	8,342,817	13,347,876	2,063,780	15,611,65			
889	. 8,303,171	3,032,952	11,336,123	19,299,966	2,849,263	22,149,22			
890	. 13,524,298	2,477,612	16,001,910	24,788,152	2,547,052	27,335,20			
891	. 18,065,925	1,714,545	19,780,470	25,185,706	2,697,317	27,883,02			
892	21,346,413	2,581,842	23,928,255	23,989,746	2,714,368	26,704,11			
.893	. 13,807,662	4,077,911	17,885,573	20,151,432	2,568,679	22,720,11			
894	. 13,501,664	3,840,429	17,342,093	17,974,332	2,207,884	20,182,21			
.895	14,068,922	5,552,940	19,621,862	18,752,226	2,970,068	21,722,29			

Note.—This movement forms no part of the import and export trade.

C.—Table showing the Tonnage of the undermentioned Articles moved on

			VK	GETABLE FOOD).		
YEARS.	Flour.	Wheat.	Corn.	Barley.	Oats.	Rye.	Other Vegetable Food.*
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
1869	71,051	670,534	256,475	99,012	92,309	13,489	99,743
1870	54,978	658,524	193,129	123,191	117,941	19,520	127,727
1871	41,211	748,549	672,057	113,992	129,891	34,563	109,935
1872	20,534	403,903	902,753	120,061	92,959	13,357	120,753
1873	19,307	803,064	637,296	70,586	70,023	30,160	114,735
1874	29,134	772,163	519,203	98,654	59,408	8,215	280,821
1875	17,635	744,293	282,031	104,475	62,717	8,309	86,090
1876	9,290	416,376	365,254	96,494	52,147	19,949	104,783
1877	8,923	448,043	723,458	139,453	66,045	35,948	77,114
1878	5,904	844,555	734,993	89,534	85,029	64,613	88,106
1879	7,164	949,466	621,180	96,144	23,164	59,210	77,071
1880	8,266	966,052	1,156,619	106,247	20,893	26,340	86,673
1881	6,926	444,832	475,823	81,587	30,321	15,484	61,588
1882	9,372	642,215	251,687	96,650	22,180	43,372	53,300
1883	9,047	573,740	522,978	58,787	51,607	95,246	67,595
1884	7,251	790,409	198,216	65,008	52,696	71,462	, 51,944
1885	6,869	565,922	359,982	64,587	8,234	10,211	47,505
1886	9,005	993,129	354,765	62,854	7,278	3,073	59,782
1887	4,089	936,840	446,617	75,458	35,365	6,717	47,678
1888	3,287	491,419	499,218	41,100	70,315	12,532	49,087
1889	4,429	484,141	592,550	66,110	63,674	36,329	49,663
1890	3,489	353,738	616,702	90,754	48,438	21,657	33,123
1891	3,126	756,101	142,141	71,903	16,362	68,771	33,951
1892	4,879	620,768	150,269	51,596	72,444	4,236	33,807
1893	2,367	1,093,927	252,283	49,651	24,714	6,518	20,656
1894	2,909	903,361	275,377	89,700	100,874	5,288	22,620
1895	2,240	280,550	94,403	77,868	87,839	205	59,400

^{*} Apples, meal all kinds, pease, potatoes.

all Canals in the State of New York, during a series of twenty-seven years.

			HEAVY G	oods.		
Total.	Railway Iron.	Other Iron.	Salt.	Coal.	Ores.	Total.
Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
1,302,613	137,677	79,652	263,333	1,324,408	183,992	1,989,0
1,295,010	135,930	89,708	266,740	1,558,185	238,802	2,289,3
1,850,198	178,269	100,310	248,709	1,194,037	289,952	2,011,2
1,674,320	161,667	96,996	248,558	1,462,590	377,592	2,347,4
1,745,171	53,363	62,581	216,706	1,625,859	415,968	2,374,4
1,767,598	24,511	82,955	173,590	1,413,162	232,544	1,926,7
1,305,550	36,603	95,305	186,785	1,217,091	283,219	1,819,0
1,064,293	11,691	69,450	114,070	1;036,698	173,530	1,405,4
1,498,984	10,341	58,828	156,918	1,286,881	250,573	1,763,
1,912,734	8,385	65,642	139,927	889,873	210,078	1,313,
1,833,399	27,634	99,568	136,021	971,074	314,411	1,548,
2,371,090	93,613	139,993	144,487	959,342	370,884	1,709,
1,116,561	78,650	205,005	113,756	1,092,003	337,873	1,827,
1,118,776	58,921	122,786	108,040	1,228,435	364,361	1,882,
1,379,000	46,553	47,412	190,392	1,152,849	293,892	1,731,
1,236,986	28,513*	54,471	161,788	954,288	210,610	1,400,
1,063,310	12,215	38,726	161,272	1,025,941	195,750	1,433,
1,489,886	10,878	152,030	112,002	857,884	269,914	1,402,
1,552,764	21,368	224,979	124,054	905,424	243,578	1,539,
1,166,958	2,596	43,881	106,344	1,219,680	259, 269	1,631,
1,296,896	3,278	78,135	112,100	1,094,897	234,948	1,523,
1,167,901	5,800	26,804	93,181	830,154	202,072	1,157,
1,092,355	1,960	36,770	81,232	881,502	215,686	1,217,
937,999	524	40,073	93,216	832,397	136,612	1,102,
1,450,116	536	25,204	52,094	741,934	102,275	922,
1,400,129	267	22,614	70,353	609,368	37,641	740,
602,505	4,263	59,402	71,334	766,723	144,076	1,045,

D.—TABLE showing the Tonnage of the undermentioned Articles, moved through

			V	egetable Fo	ю.		
YEAR.	Flour.	Wheat.	Corn.	Barley.	Oats.	Rye.	Other Articles.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
1869*	45,674	313,825	120,599	20,951		904	1,937
1872	26,651	239,998	254,902	6,035	7,752	64	2,745
1873	30,665	355,847	180,169	8,225	1,194	3	3,777
1874	24,019	413,212	181,151	18,871	5,954	513	8,677
1875	13,964	253,835	103,749	35,751	3,383	917	6,337
1876	15,778	201,906	144,501	18,455	24,496	1,454	3,198
1877	13,558	253,953	169,196	19,870	2,810	2,439	2,355
1878	9,121	191,982	185,931	10,979	3,088		2,302
1879	10,710	274,570	144,506	4,655	1,239	440	2,444
1880	12,679	242,020	163,738	17,772	477	1,016	1,480
1881	9,959	127,832	101,075	24,509		1,844	2,086
1882	12,261	215,056	54,799	20,126	611	3,226	403
1883	13,471	152,794	182,269	10,436	731	1,642	10,983
1884	13,683	144,851	118,811	7,155	10,746	1,320	9,168
1885	13,334	124,206	117,536	15,801	1,116		1,912
1886	19,474	154,169	219,442	1,595	4,911	564	14,657
1887	23,949	221,927	114,938	9,574	12,050		12,533
1888	16,983	160,963	194,886	5,906	26,629	811	13,608
1889	7,931	126,664	353,595	4,272	28,356	2,673	18,552
1890	14,461	118,002	327,394	10,830	27,728	1,549	20,876
1891	13,517	198,658	185,180	8,113	52,959	65,888	28,042
1892	17,046	232,019	192,548	6,433	37,173	9,392	32,815
1893	15,235	258,392	441,092	18,599	31,283	3,671	36,981
1894	33,628	270,993	169,233	28,353	27,962	567	60,673
1895	44,044	203,088	164,894	8,689	18,236	1,007	46,463

^{*}Fiscal. †Apples, meal, all kinds, pease, potatoes.

the Welland Canal, during a series of Twenty-five Years ended 31st Dec., 1895.

			:	HEAVY GOODS	•		
Total.	Railway Iron.	Other Iron.	Salt.	Iron and salt having paid full tolls on St. Lawrence Canals.	Coal.	Ores.	Total.
Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
503,860	68,064	16,924	91,575	37,153	103,126	58,781	275,62
538,147	26,217	17,141	50,540	44,243	186,932	98,605	423,67
579,880	6,923	20,754	40,850	17,157	339,016	118,685	543,38
647,397	6,032	12,068	23,309	9,579	323,503	56,825	431,31
417,936	1,517	7,588	13,509	9,962	321,306	43,683	397,56
409,788	51	7,997	30,300	20,327	288,211	81,654	378,54
464,181	9,630	9,696	9,173	3,983	323,869	42,758	399,10
403,403	10	11,518	3,980	12,686	295,318	15,229	338,74
438,564	2,782	5,797	7,174	17,796	192,957	19,164	245,67
442,182	5,360	4,812	413	22,273	109,986	34,139	176,98
269,395	4,585	7,013	10	30,682	128,113	18,785	189,18
306,482		5,348	50	17,327	237,559	23,700	283,98
373,326	1,237	7,922	66	17,037	307,058	31,785	365,10
305,734	698	652	461	3,242	274,471	53,205	332,72
273,905	78	2,055	597	14,243	248,272	26,728	291,97
414,812	166	6,123	48	12,324	271,356	27,447	317,46
394,971	1,351	5,636		6,715	145,193	13,866	172,76
419,786	93	3,220	316	13,617	223,871	16,872	257,98
542,043	47	2,479	1,254	20,269	268,305	2,435	294,78
519,291	· • • • · • • • • • • • • • • • • • • •	753	1,027	28,047	202,384	8,138	240,34
367,177	127	1,610	2,567	7,953	224,644	3,415	240,31
527,426	163	1,567	878	3,666	211,616	355	218,24
805,253	6	2,075	374	8,139	233,096		243,69
591,409	•••••	3,072	159	977	203,608		207,81
486,421	185	6,245	54	2,819	158,866	1,140	169,30

E.—Table showing the Tonnage of the undermentioned Articles cleared at Buffalo and Tonawanda, for transit through the Erie Canal, for a series of twenty-seven years.

VEGETABLE FOOD.

Year.	Flour.	Wheat.	Corn.	Barley.	Oats.	Rye.	Other Articles *	Total.	Increase.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons,	
L 869		490,904	219,874	1,978	63,728	2,150	2,193	786,436	••••
1870	8,258	,	165,577		89,156	10,593	6,906	802,592	2.05
1871	5,607	570,849	579,709		106,391	27,622		1,315,693	67 · 59
1872		330,032	866,169		73,572	5,900	88	1,317,276	67 · 50
1873	6		611,675	8,636	51,615	22,441	634	1,432,174	82.10
1874		650,161	459,728	3,192	44,079	112	237	1,157,509	47 18
1875	5,859	695,315	273,006	1,156	36,609	2,242	3,372	1,017,559	29 38
1876	231	377,317	356,064	6,334	24,488	12,205	4,691	783,331	0
1877	1,710	398,416	709,723	26,351	52,559	27,365	4,976	1,223,100	55·52
1878	987	775,953	718,714	21,665	69,256	51,064	6,662	1,644,301	109.08
1879	1,239	892,404	602,171	7,193	14,537	40,471	7,528	1,565,543	99:07
1880	2,743	897,603	131,857	434	16,154	12,137	4,256	2,065,184	162 06
1881	1,491	386,605	458,318	86	24,751	107	7,484	878,842	11.75
1882	1,123	586,019	241,406	1,858	9,046	19,158	6,216	864,826	9.96
1883	538	535,150	517,219	6,816	47,190	79,010	6,051	1,191,974	51.06
1884	520	767,784	194,368	4,910	47,060	57,856	4,411	1,078,909	37.18
1885	323	540,533	356,737	3,317	5,610	6,405	5,427	918,352	14.36
1886	488	955,851	351,272	6,799	5,180		4,001	1,353,591	72.11
1887	334	914,152	438,069	15,207	32,907	4,612	44,693	1,449,984	85 64
1888	534	469,965	494,110	6,589	68,922	10,997	1,717	1,052,834	33 87
1889	845	457,922	579,526	16,380	61,175	34,167	5,160	1,155,175	46.88
1890	195	329,531	498,641	58,563	45,202	16,903	4,362	953,397	21 23
1891	1,071	733,967	137,679	43,779	14,803	66,278	2,594	1,000,171	27 18
1892	2,485	611,177	141,506	37,570	70,363	3,997	3,472	870,570	
1893	424	1,086,834	240,767		21,981	6,156	1	1,395,391	-
1894	327	887,908	265,947	69,707	99,898				
1895,	98	1	83,611	f	85,507		1		

^{*}Apples, meals all kinds, pease, potatoes.

STATEMENT to Table E showing the shipments at Oswego, during the same period. VEGETABLE FOOD.

Year.	Flour.	Wheat.	Corn.	Barley.	Onts.	Rye.	Other Articles	Total.	Increase.	Decrease.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.		
869	7,361	141,360	28,585	66,794	1,113	8,569	14,033	267,815		
870	11,440	115,732	10,120	77,906	3,953	7,402	11,628	238,181		11.0
871	10,043	123,173	70,218	72,675	1,806	6,250	13,259	297,424	11.05	
872	4,773	57,865	27,148	62,172	684	6,751	10,425	169,818		36 :
873	4,061	53,361	10,578	46,337	670	6,019	10,739	131,765		50 . 8
874		108,288	46,127	77,007	1,103	7,053	3,747	243,525		9.1
875	1,728	32,690	3,034	75,083	3,308	4,989	5,931	126,763		52
876	967	21,890	1,324	63,336	117	5,703	6,638	99,975		62
877	855	28,955	3,308	80,306	316	6,603	6,556	126,399		52
878	1,394	24,171	1,383	50,381		10,598	5 222	93,149		65
879	734	25,740	9,268	71,693		16,623	3,110	127,168		52 ·
880	951	17,466	15,656	82,743		12,593	5,996	135,410		49
881	758	25,352	8,064	62,793	200	14,444	4,027	115,638	. ,	56
882	813	20,274	4,401	70,862	416	22,265	7,773	126,804		52 ·
883	432	22,634	535	32,557		14,384	1,967	72,507		73
884	404	5,932	413	48,391		12,173	2,819	70,132		73
885	519	6,484	22	45,264		4,613	2,945	59,847		77
886	737	9,579	154	42,261		1,671	4,814	59,216		77
887	790	675	2	44,580		716	1,370	48,133	. 	82
888	384	2,206	168	6,237		• - • • •	2,196	11,191		95
889	473	8,002	8,950	40,096	16	1,405	1,003	59,945		77
890	545	10,378	10,408	26,639	8	4,635	2,356	54,969		79
891	292	4,298	1,652	27,418		2,130	3,620	39,410		85
892	273	4,806	5,657	5,283		199	2,340	18,558		93
893	119	2,036	3,968	8,476		237	2,784	17,620		93
894	8	'	10,514	17,160	 	 -	2,609	40,584	 	84
895	66		1	1			258	14,465		94

^{*}Apples, meal all kinds, pease, potatoes.

F.—Table showing the Tonnage of the undermentioned Articles cleared downward on the Welland Canal, during a series of Twenty-five Years, ended 31st December, 1895.

VEGETABLE FOOD.

Year.	Flour.	Wheat.	Corn.	Barley.	Oats.	Rye.	Other Articles.+	Total.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
869*	44,110	310,090	119,541	3,920		680	1,541	479,882
872	26,648	231,056	254,534	693	7,594	64	2,300	524,889
1873	30,660	345,720	180,042	643	1,188	3	3,557	563,813
874	24,017	406,157	181,128	377	5,953		3,301	620,933
875	13,930	248,555	103,477	813	3,383	500	4,304	374,962
876	15,735	194,559	144,501	1,110	24,496	1,454	2,949	384,807
1877	13,588	248,894	169,185	10,216	2,810	2,405	1,833	448,931
1878	8,854	188,106	185,931	1,217	3,088		2,100	389,296
1879	10,588	271,545	114,276	803	1,196		2,387	430,795
1880	12,467	240,601	162,891		477		1,418	417,853
1881	9,655	121,393	103,075	252		6	1,371	235,752
1882	12,205	205,876	54,797	537		1,954	225	275,594
1883	13,256	146,741	182,143	975	731	518	10,971	355,335
1884	13,626	135,804	118,811	270	10,746	477	9,018	288,752
1885	13,322	114,090	117,536	618	1,116		1,628	248,310
1886	19,418	146,151	218,897		4,891		14,581	403,928
1887	23,940	210,755	114,938	1,711	12,050		12,149	375,543
1888	16,973	150,833	194,886	555	26,629	811	13,358	404,045
1889	7,922	120,498	353,595	197	28,356	1,918	18,273	530,759
1890	14,461	114,924	327,394	6,519	27,728	1,121	20,836	512,983
1891	13,517	196,326	185,177	8,113	52,959	65,071	27,895	549,058
1892	17,046	229,569	192,548	6,433	37,173	9,392	32,548	524,709
1893	15,232	257,203	441,092	18,461	31,283	3,671	36,981	803,923
1894	33,628	270,514	169,233	28,353	27,962		60,587	590,277
1895	43,895	202,636	164,894	, 8,689	18,236		46,435	484,785

^{*} Fiscal. † Apples, meal all kinds, pease, potatoes.

G.—Table showing the Tonnage of the undermentioned Articles passed through the Welland Canal in transit between Ports in the United States during a series of Twenty-five Years, ended 31st December, 1895.

				Vegetable Food	LE FOOD.						HEAVY	Heavy Goods.		
Year,	Flour.	Wheat.	Corn.	Barley.	Oats.	Rye.	Other Articles.*	Total.	Railway Iron.	Other Iron.	Salt.	Coal.	Ores.	Total.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
1869	30,681	211,085	91,149	2,942		. 299	1,006	337,530	68,064		89,086	23,566	35,912	235,962
1872	10,482	124,695	101,761	1,391	7,400	67	909 809 809 809 809 809 809 809 809 809	234,337	24,040 659	13,239	10.507	170,241	62.942	242,264
1874	2,30	929,053	125,627	2	5.948	· :	5,368	374,226	5,742		22,888	203,673	19,621	260,895
1875	1,881	113,832	54,188	2,641	2,946	98	1,920	177,908	#		12,931	192,767	34,616	244,451
1876	5,187 2,249	107,247	85,138 85,038	1 603	1,300 314	- 25 25 25 25 25 25 25 25 25 25 25 25 25 2	24 4	180,400	926.8		20,000	172.868	41,107	230.975
1527 X720	1.316	65.542	60,026		277		341	128,361			3,892	150,583	13,535	178,723
	129	53,791	33,401		464		11	87,826	2,405		6,318	118,573	17,797	148,741
7	:	30,611	16,122	1,551	963 530	:		48,580	4,743		371	65,945	18,380	92,954
1881		34,320	30,031	924	:	100	9;	65,285	1,313			83,808 15,808	6,464	97,205
1882	707	50,227	62,455	38.5	731	# <u>C</u>	#T &	139,496	1 200		: oc	196,562	24,891	229.471
1884	15.	40.956	53.707	3	9.874		8,170	114,422	869		,	210,790	15,100	227,187
1333	124	53,235	63,220	732	885		-	118,203	:			198,416	15,029	215,039
1886	7,591	53,258	94,048	-: :: ;	4,790		13,201	172,888	156		-	189,964	11,364	206,813
1887	11,780	37,678	83,431	1,732	12,050		10,859	157,530	15			82,780	627	87,828
1888	8,563	966,686 686,6866	102,974	23	26,510	179	11,598	189,825	63		3	173,259	2,300	177,288
1889	5,017	39,220	147,045	:	24,495		17,225	236,208		1,587	9680	227,476	1,204	231,103
1890	9,204	31,527	180,842	6,519	27,030		20,497	275,619	:	Ē	808	162,231	1,620	164,563
1891	6,802	32,097	127,494	8,113	52,823	•	26,115	253,444	:	202	202	186,572	1,773	189,342
1892	11,018	26,950	131,222	6,433	36,935		31,992	244,550	:::::::::::::::::::::::::::::::::::::::	576	67	183,895	:	184,473
1893	6,588	28,187	198,777	16,751	23,870	864	36,352	311,389	:	#	:	206,827	 : :	207,171
1894	17,795	53,846	10,539	28,095	27,621	:	60,462	198,358	:		:	188,521	:	184,818
1803	10,169	27,881	100,512	76:2	17.020		46.316	300	<u> </u>	376		40.40		\ S

* Apples, meals all kinds, pease, potatoes.

H.—TABLE showing the Tonnage of Vegetable Food carried on each of the Lines of Canals and the two principal Railways, competing for the Carrying Trade between Lake Erie and Tidewater, for a series of Twenty-five Years, ended 31st December, 1895.

Year.	Total on New York Canals.	Total on Welland Canals.	Total on New York Central and Erie Railways.	Quantity cleared at Buffalo and Tonawanda by Erie Canal.	Quantity cleared at Oswego by Canal.	Quantity charged through the Welland Cana in transit between ports in the United States.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
1869*	1,302,613	503,860	1,087,809	786,436	267,815	337,530
1872	1,674,320	538,147	1,870,614	1,317,276	169,818	234,337
1873	1,745,171	579,880	2,036,992	1,432,174	131,765	243,366
1874	1,767,598	647,397	2,791,517	1,557,509	243,325	374,226
1875	1,305,550	417,936	2,343,241	1,017,559	126,763	177,908
1876	1,064,293	409,788	2,875,803	783,331	99,975	162,405
1877	1,408,984	464,181	2,493,683	1,223,100	126,899	180,586
1878	1,912,734	403,403	3,695,764	1.644,301	93,149	128,361
1879	1,833,399	438,564	4,353,617	1,565,543	127,168	87,826
1880	2,371,090	442,182	4,732,385	2,065,184	135,410	48,580
1881	1,116,561	269,395	4,983,722	878,842	115,638	65,285
1882	1,118,776	306,482	3,885,577	864,826	126,804	64,002
1883	1,379,000	372,236	4,422,461	1,191,974	72,507	132,496
1884	1,236,986	305,734	3,639,805	1,078,909	70,132	114,422
1885	1,063,310	273,905	4,105,594	918,352	59,847	118,203
1886	1,489,886	414,812	3,802,262	1,353,591	59,216	172,888
1887	1,552,764	394,971	3,847,766	1,449,984	48,133	157,530
1888	1,166,958	419,786	3,197,734	1,052,834	11,191	189,825
1889	1,296,896	542,043	3,654,984	1,155,175	59,945	236,208
1890	1,167,901	519,291	4,336,199	953,397	54,969	275,619
1891	1,092,355	367,177	3,565,381	1,000,171	39,410	253,444
1892	937,999	527,426	5,913,013	870,570	18,558	244,550
1893	1,452,563	805,250	5,107,426	1,395,391	17,620	311,389
1894	1,400,129	590,409	4,281,056	1,331,101	40,584	293,148
1895	602,505	486,421	3,798,574	508,596	14,465	209,802

I.—STATEMENT showing the Quantity of Freight passed down the Welland Canal in Canadian and United States Vessels entering the Canal at Port Colborne during the Seasons of Navigation in 1884, 1885, 1886, 1887, 1888, 1889, 1890, 1891, 1892, 1893, 1894 and 1895.

		Canadian	VES	SELS.	U	NITED STA'	res V	ESSELS.	7	COTAL.
Articles.	s	team.		Sail.	S	Steam.		Sail.	Steam	m and Sail
ARTICIAS.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	173	68,250	285	73,057	99	67,637	364	97,794	921	306,738
		Tons.		Tons.		Tons.		Tons.		Tons.
1884.										
Wheat		38,859		11,618		5,461		75,474	İ	131,412
Corn		10,841		, 13,609		26,452	ļ	67,909	1	118,811
Barley Rye		90 477								90 477 .
Oats		872			1	7,963		1,911		10,746
Coal		497		28,275		301		10,154		39,227
Shingles, firewood and wood- enware		548		2,538		49		30		3,165
Miscellaneous merchandise.		2,073		3,804		11,793		428		18,103
Lumber Ft. B.M.	3	,393,351		,680,976	8	3,987,558	18	3,126,215	32	2,188,100
Timber Cub. ft		437,356	2	2,107,780 75,000		33,741	1	159,647 301,267	2	2,704,783 410,008
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	199	67,461	347	80,828	81	35,613	350	106,873	977	290,775
1885.		Tons.		Tons.		Tons.		Tons.		Tons.
Wheat		26,025		3,153		6,882		72,478		108,538
Corn		16,046		2,462		20,589		78,439		117,536
Barley				228	 	<u></u>				228
Oats	٠.	11				217		665	1	882 11
Pease	l . .	11					1		:	
Coal		1.005		20,318	1			18,560	1	39,883
Miscellaneous merchandise		1,941		3,689		1,111	ļ	1,086		7,827
Shingles, woodenware, &c Sawed lumber Ft. B.M.		223 7,725,105	1	9 3,681,081		53 9,381,654	24	58 0,935,270	44	343 6,723,110
Square timber Cub. ft.	'	601,516		2,849,526	'	20,692	~	113,682		3,585,416
StavesNo.		104,000		44,000	1	83,500				231,500
FirewoodCords										
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	261	95,928	426	123,297	118	86,937	358	108,344	1163	414,506
1886.	_	Tons.		Tens.	-	Tons.		Tons.	-	Tons.
Wheat		38,984		30,834		2,937		70,019		142,774
Corn		48,547	1	33,315	ļ	36,852	1	99,644		218,358
Barley			$\cdot \cdots$			4 991	•	572		572
OatsPease		6 450		41 158		4,331		459		4,837 608
Rye			1				.]::::		:	
Coal		4,007		45,018	ļ		.	11,647		60,672
Miscellaneous merchandise		2,936		6,728		23,687	1	.281	1	33,622
Shingles, woodenware, &c Sawed lumber Ft. B.M.	1	329 6,915,390	1	5,719,631	1	252 8,953,478	1	215 8,405,961	1	1,152 9,994,460
Square timberCub. ft.		564,827		2,335,205	1	·,,,,,,,,,,,,	. 1	35,500		2,935,532
Staves,No.	1	221,280		697,933			11		.	919,213

I.—Statement showing the Quantity of Freight passed down the Welland Canal in Canadian and United States Vessels, &c.—Continued.

	Canadian	VES	SELS.	U:	nited Sta	TES V	ESSELS.	1	TOTAL.
ARTICLES.	Steam.	<u> </u>	Sail.	\$	Steam.		Sail.	Stea	m and Sa
	No. Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage
•	250 86,344	372	101,745	107	94,029	163	46,152	892	328,270
	Tons.		Tons.		Tons.		Tons.	i	Tons.
1887.									
Wheat	80,757		81,652		200	1	46,186	1	208,796
Corn	12,341		14,775		65,981		20,582	1	113,679
Barley Dats			1,376		$\frac{9}{11,098}$		575 279	1	584 $12,753$
Pease			362	١	11,000	١			362
Rye				·				ļ	.
Coal	1,436	İ	25,165				2,108		28,709
Miscellaneous merchandise Shingles, wooden ware, &c	$2,179 \\ 1,716$		4,609 1,081		$24,395 \\ 26$		415		$31,598 \\ 2,823$
Sawed lumberFt. B.M.	2,894,767	19	329,728	1	,161,349	15	091,355	34	,477,199
Square lumber Cub. ft.	498,770		285,594			1		1	,784,364
Staves			266,697						266,697
FirewoodCords	299		466		··· ····		· · · · · · · · ·		765
	No. Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	l'onnage.	No.	Tonnage.
	242 86,838	339	93,450	114	104,505	219	60,500	914	345,293
1000	Tons.	,	Tons.	-	Tons.	,	Fons.		Tons.
1888.								1	
Wheat	45,481	ĺ	60,379		1,353		40,779		147,992
Barley	38,620	ĺ	14,251		71,988	i	71,175		196,024
Oats	672				24,967		1,311		26,950
Pease		l	54	l	57				111
Rye					71	j	632	1	703
Jorn	1,603	ĺ	20,064		00.710		4,208		25,897
Miscellaneous merchandise Shingles, woodenware, &c	$\substack{2,165\\66}$		3,291 84		$22,719 \\ 141$:	$\substack{3,722\\6}$		$31,875 \\ 297$
Sawed lumberFt. B.M.	5,262,700	11.	977,905	4	,451,360	12.	539,672	34	,230,637
Square timberCub. Ft.	687,728		555,307		19,000				262,035
taves No.	106,972		211,436			ĺ	34,000		352,408
irewoodCords	179		201				· · · · · · · · · · · · · · · · · · ·	! !	380
	No. Tonnage.	No.	Fonnage.	No.	Tonnage.	No.	Connage.	No.	Tonnage.
	317 106,048	427	118,071	208	172,873	268	92,442	1220	489,434
1889.	Tons.	7	Tons.		Tons.		ons.		Tons.
Vheat	38,127		28,054		1,679		46.767	İ	114,627
Corn	60,218		43,819		152,858		96,700	į	353,595
Barley									
Page	320				25,347		2,145		27,812
'ease'	948	• • • • •	634	• • • • •	336				1 010
oal	3,976		21,148		330 712		1,664		$\frac{1,918}{27,500}$
Iiscellaneous merchandise	6,339		5,749		25,082		3,030		40,200
hingles, woodenware, &c			1				51		52
awed lumber Ft. B.M.	5,789,226	11,	632,330	11.	,792,850	21,	026,211		240,617
quare timber Cub. Ft. taves No.	924,645 35,700	2,	934,989 194,649						,859,634 220,349

I.—Statement showing the Quantity of Freight passed down the Welland Canal in Canadian and United States Vessels, &c.—Continued.

		Canadian	VE:	SSELS.	U	NITED STA	tes V	ESSELS.	Т	OTAL.
Articles.		Steam.		Sail.	5	Steam.		Sail.	Steam	n and Sail
Zittiomas.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	342	110,056	443	117,400	202	204,542	142	50,622	1129	482,620
		Tons.		Tons.		Tons.		Tons.		Tons.
1890.										
Wheat		43,308 63,095		35,633 51,439		7,514 172,756 3,304		32,239 40,104 3,215		118,694 327,394 6,519
Oats Pease		479		73		$27,030 \\ 14$	1			$27,582 \\ 14$
Rye		1,121 1,049 3,146		21,732 5,683		32,194		615 2,510		1,121 23,396 43,533
Shingles, woodenware, &c Sawed lumber, Ft. B.M. Square timber Cub Ft. Staves No.		$\begin{array}{c} 15 \\ ,921,240 \\ ,141,194 \\ 12,255 \end{array}$		1,266 $5,167,201$ $3,395,832$ $19,947$	1),274,335 		,290,800		1,289 $,653,576$ $,537,026$ $32,202$
Firewood Cords.		15		566				• • • • • • • •		581
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	256	107,575	173	68,061	241	241,317	130	50,063	800	467,016
1891.		Tons.		Tons.		Tons.		Tons.		Tons.
Wheat Corn Barley Oats		62,859 20,510		56,953 9,550		36,425 137,852 5,444 50.212		33,853 17,039 4,061 1,076		190,090 184,951 9,505 51,288
Pease Rye Coal Miscellaneous merchandise Shingles, woodenware, &c		390 29,581 158 8,369		11,296 20,388 6,007		16,361 37,537		7,343 3,851 2,578 4		390 64,581 24,397 54,491 4
Sawed lumber Ft. B.M. Square timber Cub. ft. Staves No. Firewood Cords		,268,874 449,406 1,000		4,648,824 566,109		3,067,351		3,745,628		,730,677 ,015,515 1,000
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	239	100,324	186	73,140	245	248,837	134	52,087	804	474,388
1892.		Tons.		Tons.		Tons.		Tons.		Tons.
Wheat		74,578 17,477		54,764 7,369		60,364 146,080 3,995 36,935		36,898 21,631 2,438		226,604 192,548 6,433 36,935
Pease		524 5,066 775		13,350		3,718		608 1,365		524 9,392 15,490
Miscellaneous merchandise. Shingles, woodenware, &c Sawed lumber. Ft. B.M. Square timber. Cub. ft. Staves. No. Firewood. Cords	6	2,139 1 $2,278,253$ $754,213$ $46,800$		2,786 7,504,256 1,421,260 32,838	10	44,117 45 0,494,692 2,601	26	9 3,832,564 1,310		$\begin{array}{r} 49,042 \\ 55 \\ ,109,765 \\ ,179,384 \\ 79,638 \end{array}$

I.—Statement showing the Quantity of Freight passed down the Welland Canal in Canadian and United States Vessels, &c.—Continued.

	,	Canadian	VES	ssels.	U:	NITED STAT	res V	Tessels.	r	OTAL.
Articles.		Steam.		Sail.		Steam.		Sail.	Steam	m and Sail
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	193	100,107	143	58,652	390	375,682	236	122,326	962	656,767
		Tons.		Tons.		Tons.		Tons.		Tons.
1893.										
Wheat. Corn Barley.		83,447 23,817 1,527		31,185 12,946 183		72,671 313,246 16,189		68,628 91,083 562		255,931 441,092 18,461
Oats		638		13,580		27,903 3,216	 	3,038 455 5,849		31,164 3,671 20,067
Miscellaneous merchandise. Shingles, woodenware, &c. Sawed lumber	1			286 15 2,748,941 1,437,893 18,484		44,976 22 17,359,573 5,133		1,647 11,863,852		53,088 37 5,722,633 2,279,074 18,484
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	199	104,649	112	57,668	287	279,621	144	63,770	742	505,708
1894.		Tons.		Tons.		Tons.		Tons.		Tons.
Wheat. Corn Barley. Oats Pease.		98,583 10,368 258 175		54,444 5,614	1	79,715 122,211 28,095 27,621		37,095 31,040		268,840 169,233 28,353 27,903
Rye	 . :			1,892 664		61 83,198		11,109 1,977		14,545 102,788
Shingles, woodenware, &c Sawed lumber Ft. B.M. Square timber Cub. ft. Staves No.		8,423,295 771,328		279,330 1,578,981		11,719,664		31,891,456		52,313,745 2,350,309
Firewood Cords										

I.—Statement showing the Quantity of Freight passed down the Welland Canal in Canadian and United States Vessels, &c.—Concluded.

		Canadian	Vĸs	sels.	U	NITED STA	res V	essels.	1	OTAL.
ARTICLES.	8	team.		Sail.	s	Steam.		Sail.	Stear	n and Sail
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage
•	209	108,776	151	73,895	205	223,743	101	41,327	666	447,741
		Tons.		Tons.		Tons.		Tons.		Tons.
1895.										
Wheat		72,895	ĺ	68,935		29,345		30,723 17,369		201,898 164,890
CornBarley		16,854 798		$3,724 \\ 162$		$126,943 \\ 7,729$		17,309	-	8,689
Oats	}	1,531		246		16,442			-	18,219
Pease				· • • • • • • • • •		· • • • • • • • • • • • • • • • • • • •				· · · · · · · · · · · · · · · · · · ·
Coal		2		3,984				4,426		8,412
Miscellaneous merchandise		37,356	}	2,361		67,705	1	1,324		108,746
Shingles, woodenware, &c.		20		949.071		863	1 14	1,079	OF	1,962 $620,841$
Sawed lumber Ft. B.M. Square timber Cub. ft.		,057,146 ,027,913		248,071 2,049,368	1	9,385,890	14	1,929,734 35,000		,020,841
Staves	l*	,021,010	i		١:::.]			
Firewood Cords.										

Statement showing the Quantity of Through Freight passed up the Welland Canal, in Canadian and United States Vessels, during the Season of 1895.

	•	Canadian	VES	SELS.	Un	nited Sta	tes V	ESSELS.	r	OTAL.
A rticles.	s	team.	:	Sail.	s	Steam.	:	Sail.	Steam	n and Sai
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage
	210	109,401	157	75,086	219	238,165	101	42,982	687	. 465,634
		Tons.		Tons.		Tons.		Tons.		Tons.
1895.										
Class 3.			į						-	
Cement and water lime		1,860								1,860
Fish		4 56						• • • • • • • • • • • • • • • • • • • •	1	- 4 56
Iron, all other		2,522				32				2,554
Salt		940								940 555
Articles not enumerated		555 778		491		1,813		· · · · · · · · · · · ·		3,082
Class 4.	: : :								1	
Crockery and earthenware	1	16			Ì	25				41
Marble		1,226				860			1	860
Nails Paint		1,226 82	1			12	İ		j	1,226 94
Pitch and tar	1	98				0.001				98
Sugar Tin	i	$1,460 \\ 436$		• • • • • • • • • • • • • • • • • • • •		6,621			. !	8,081 436
Merchandise not enumerated.		2,544		2		52,851				. 55,397
Class 5 .									:	
Produce of wood		95		2		31				128
Special Class.	:									
Coal		1,104		461		116,118		: 2,769		150,452
Stone unwrought Kryolite or chemical ore				784		• • • • • • • • • • • • • • • • • • • •		3,096 356		3,096 1,140
Total	į	13,376	1-	1,740		178,363		36,221	- :	230,100

Canadian steam vessels carried	13,776
Canadian sailing do do	
United States steam vessels carried	178,363
United States sailing do do	36.221

WELLAND CANAL THROUGH FREIGHT RECAPITULATION.

WELLAND CANAL-WEST-BOUND FREIGHT.

The total quantity of Through Freight passed up the Welland Canal in Canadian and United States vessels during the Season of Navigation in 1895, is as follows:

Summary.	Tons.	Tons.
In Canadian steam vessels	13,776 1,740	
Total quantity in Canadian vessels		15,516
In United States steam vessels	178,363 36,221	
Total in United States vessels		214,584
Grand total quantity of freight passed up the Welland Canal in Canadian and United States vessels		230,100

STATEMENT of the Quantity of Through Freight passed on the Welland Canal, during the Season of Navigation in 1895.

	Summary.	Tons.	Tons.
In Canadian s	team vessels, updo down		
	Total in Canadian steam vessels		165,596
In Canadian s do	ail vessels, up	1,740 122,741	
	Total in Canadian sail vessels		124,481
	Total quantity in Canadian vessels		290,077
In United Sta	do down	178,363 265,849	
	Total in United States steam vessels		444,212
In United Sta do	ates sail vessels, up	36,221 81,516	
	Total in United States sail vessels		117,737
	Total quantity in United States vessels	•••••	561,949
	Total in Canadian and United States vessels		852,026
	vessels	East bound. 274,561 347,365	West bound 15,516 214,584
	Total	621,926	230,100

J.—Statement of Large Class Vessels Lightened at Welland Railway Elevator at Port Colborne; showing the Tonnage, Dimensions, Depth of Water and Cargoes passed through the Enlarged Welland Canal during the Season of Navigation in 1895.

CANADIAN STEAM VESSELS.

	•																												
ons.	.etsO	Tons.	:	:	:	:	:	:	:	:		:	:	:	:	:	:						:	:	:	:	:		:
in T	Barley.	.suoJ	, <u>:</u>	:	:	:	:	:	•	:	:	:	:	:	:	:	:	:	:				:	:	:	•	;		:
Lighterage in Tons.	Corn.	Tons.	:	•	:	:	:	:	:		:	:	:	:		:	:	:	:	:				:	:	:	:		:
Ligh	Wheat.	Tons.	001	2	2	201	20.	2 6	612	707	0 :	111	7	777	147	342	33	264	163	156	150	7.4	070	7 6	319	55	8		4,247
land	Oats.	Tons.	:	:::::::::::::::::::::::::::::::::::::::			:	:		:	:	:	:	:	:	:	:	:	:			:	:	:	:	:	:		:
ver We	Barley.	Bush.	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:		-		:	:	:	:	:	:		:
Lighterage over Welland Railway.	Соги.	Bush.	:	:::	:	:	:	:	:	:	:	:	:	:	:	:		:				:			:		:		
Light	Wheat.	Bush.	3,601	3,617	88 9	3,377	, 25 25 26 26 26 26 26 26 26 26 26 26 26 26 26	0,00	S	0,037	200	4,00	4,764	7,379	4,873	11,377	5,091	8.79	2,400	5,169	5,930	9,450	, i	200	10,619	4,629	6,785	1	141,143
	tugieri gailloA	Toms.	:		:	:	:	:	:	· :	:	:	:	-	:		•	:				:	 :	:	:	:	:	Ť	
mal.	.ктвО	Toms.	:	:	:		•	:	:	:	8/6	:	•	:		:	:	-	:			:	:		:	:	:		278
go to Ca	Barley.	Bush.	:		:	:	:	:	:		7.203	:	:		-	-:	:	-			:			:	:		:		7,263
Original Cargo to Canal.	Соги.	Bush.										:															:		:
0	Wheat.	Bush.	57,000	67,000	61,250	27,000	59,200	61,250	20,000	99,09	:6,150	41,000	33,390	61,091	41,000	60,902	40,709	58,760	49,934	40,500	20 500	20,00	170,67	000,00	28,000	40.950	57,628		1,267,177
oth Ser on val.	Aft.	Ft. in.	12 8	14 3	14 6	12	14	7	14 2	4	13	27	14 0	14 33	14 6	7	14 0										13 10	Ī	::
Depth of Water on Arrival.	Forward.	Ft. in. Ft. in. Ft. in. Ft. in.	12 5	14	14 0	12	14 3	5	14 6	14	27.	23	14 0		13			14 2	14					0 t		13 7	13 10		:
	Depth of hold.	Ft. in.		70.175	18	9 83	9 33				_		13	8	13 6	81			14	7	1 1 2	200	3:	77	9 33	13 6	18		:
Dimensions.	Width of beam			40	0 05	== %		\$	_	35	\$			9		40	3												:
а	Length over all.	F.	252			- 22	_		245	_			_												٠.	180	245		<u>:</u>
nage.	Registered Ton	Tons.	226	1,172	1,035	97	977		1,172	977	1,035	2		1,035	771	1.03	. 22	1 03		7	- 8	300	3	1,172	97.	2	1,035	1	:
	Names of Vessels.		4 Rosedale	2 Algonquin	20 Bannockburn	21 Rosedale	op 8	I Bannockburn	24 Algonquin	26 Rosedale	30 Bannockburn	10 Arabian	2 Tecumseh	16 Bannock bnrn	27 Arabian.	4 Bannockburn	4 Arabian.	21 Bannockburn	Winningo	Collink	94 Merlos	7 m	/ recumsen	30 Algonquin	0 Rosedale	4 Arabian	4 Bannockburn		
	Date of Arrival.	1895.			go op	do 2	Sept.		qo		မွ မွ	_	_	_	64		_			26							op 7		

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24 John Duncan	29 George Spencer.	Z. G. W. Morley	:		:	::::	Samoa	:	:	-	-	- - - -		15. John Bucke	:		r. Langdon		28 H. R. James.	3 John Rugee	3 Omaha	_	11 F. H. Prince	14 A. McVittie	17 H. R. James.	18 Gov. Smith.	18 John Rugee	23 Kate Buttironi	26 J. R. Langdon	29 A. G. Lindsay	30 F. H. Prince	1 W. L. Frost	3 A. McVittie	H. R. James	8 Gov. Smith	11 Wm. J. Averill	14 W. A. Haskell.	14 J. R. Langdon	15 A. G. Lindsav.	21 F. H. Prince	23 A. McVittie	24 H. R. James	28 Gov. Smith	99 Omaha	Co Ciliania
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J.—Statement of Large Class Vessels Lightened at Welland Railway Elevator at Port Colborne; showing the Tonnage, Dimensions, Depth of Water and Cargoes passed through the Enlarged Welland Canal during the Season of Navigation in 1895—Continued.

CANADIAN STEAM VESSELS—Concluded.

			Grain	Cargo aı	ıd Rollin _ı	Grain Cargo and Rolling Freight through the Canal	t through	ı the Ca	nal.		on&y ty	through.	Destin	Destination.	ge ber	
Date of Arrival.	Names of Vessels,	Wheat.	Согп.	Barley.	Oats.	Wheat.	Corn.	Barley.	Oats.	tdgiert gnilloA	Total Cargo thr Canal.	Tepth of Water biM lansO edt	From	To	Cost of Lightera,	
1895.		Bush.	Bush.	Bush.	Tons.	Tons.	Tons.	Toms.	Tons.	Tons.	Tons.	Ft. in.			C.	H. M
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UNITED STATES STEAM VESSELS-Continued.

J.—Statement of Large Class Vessels Lightened at Welland Railway Elevator at Port Colborne; showing the Tonnage, Dimensions, Depth of Water and Cargoes passed through the Enlarged Welland Canal during the Season of Navigation in 1895.—Continued.

UNITED STATES STEAM VESSELS—Concluded.

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ver We	Barley.	Bush.	
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J.—Statement of Large Class Vessels Lightened at Welland Railway Elevator at Port Colborne; showing the Tonnage, Dimensions, Depth of Water and Cargoes passed through the Enlarged Welland Canal during the Season of Navigation in 1895—Continued.

UNITED STATES STEAM VESSELS—Concluded.

Destination.	From To		Chicago Ogdensburg. do do do do do do do do do do do do do do do do do do do Mingston do Ogdensburg. do Ogdensburg. do Ogdensburg. do Ogdensburg. do Ogdensburg. do Ogdensburg. do Ogdensburg. do Ogdensburg. do Ogdensburg. do Ogdensburg. do Ogdensburg. do Ogdensburg. do Ogdensburg. do Ogdensburg. do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do do
through gids.	Depth of Water biM Isna Dent	ii.	13. 7
	Total Cango thr	Tons. Ft.	11, 12, 13, 13, 13, 13, 13, 13, 13, 13, 13, 13
	Rolling freight	Tons.	227 7722 8309 844 745 867 884 884 887 887 887 887 887 887 887 88
nal.	Oats.	Tons.	1,063
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through	Corn.	Tons.	1,000 1,136 1,136 1,136 1,136 1,234 1,136 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360 1,360
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Свгко вп	Barley.	Bush.	
Grain	Сота.	Bush.	8,113,44,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,
	Wheat.	Bush.	49, 461 17, 142 57, 57, 67, 67, 67, 67, 67, 67, 67, 67, 67, 6
	Names of Vessels.		4 W. A. Haakell 5 J. R. Langdon 8 F. H. Prince. 9 A. McVittio. 12 H. R. James. 14 John Bugee. 15 John Duncan. 16 Grash. 16 Gov. Smith. 19 W. J. Averill 20 Den ve. 22 Nicaragua. 22 Nicaragua. 22 Nicaragua. 22 Nicaragua. 22 John Rugee. 24 John Rugee. 25 John Rugee. 36 ov. Smith. 18 F. H. Prince. 16 Montagle. 17 Den ve. 18 A. McVittie. 18 A. McVittie. 18 A. McVittie. 16 Montagle. 16 Montagle. 16 Montagle. 17 Den ve. 18 A. McVittie. 18 A. McVittie.
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J.—Statement of Large Class Vessels Lightened at Welland Railway Elevator at Port Colborne; showing the Tonnage, Dimensiors, Depth of Water and Cargoes passed through the Enlarged Welland Canal during the Season of Navigation in 1895—Continued.

CANADIAN SAILING VESSELS.

ons.	.atsO	Tons.		:
in T	Barley.	.enoT		:
Lighterage in Tons.	Corn.	Tone.	150	150
Ligh	Wheat.	Tons.	137.57.51.57.57.57.57.57.57.57.57.57.57.57.57.57.	3,315
lland	.ets.	Tons.		•
er Wei	Barley.	Bush.		<u>:</u> ::
Lighterage over Welland Railway.	.птоО	Bush.	90 S	5,358
Light	Wheat.	Bush.	8,444,834,835,845,855,855,855,855,855,855,855,855,85	110,141
	Rolling freight	Tons.		
anal.	Oats.	Tons.	90	178
go to C	Barley.	Bush.	6,734	6,734
Original Cargo to Canal.	Corn.	Bush.		64,300
0	Wheat.	Bush.	66,141 61,567 62,000 62,000 62,000 62,000 62,112 62,120 62,120 63,856 64,856 64,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65,120 65	1,224,435
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UNITED STATES SAILING VESSELS.

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J.—Statement of Large Class Vessels Lightened at Welland Railway Elevator at Port Colborne; showing the Tonnage, Dimensions, Depth of Water and Cargoes passed through the Enlarged Welland Canal during the Season of Navigation in 1895—Continued.

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16 Winnipeg. 47,745 16 Winnipeg. 47,745 16 Selkirk. 47,342 17 Minnedosa. 1,420 17 Minnedosa. 1,946 1,346 1,346 1,346 1,346 1,346 1,346 1,346 1,346 1,346 1,346 1,346 1,346 1,547 1,572 1,544 1,518 1,544 1,518 1,547 1,518 1,547 1,547 1,547 1,547	20 Winnipeg.	47,999				1,417		:		-:	1,417		~	မွ.	op .
16 Selkirk 47,342 1,420 1,420 1,547 17 Minnedosa 54,680 1,640 1,346 13 4 Winnipeg 44,863 1,346 1,346 13 4 Selkirk 52,399 1,572 1,572 1,444 15 Augustus 50,811 1,518 13 0 4 Minnedosa 50,591 1,547 1,518 13 0	16 Winningo.	47.745				1,432	:	:	:	:	1,432		0 7		9-6
17 Minnedosa. 54,680 1,940 1,346 13 13 4 Winnipeg. 44,863 1,346 13,46 13 1,346 13 1,547 12 11 9 Minnedosa. 52,399 1,672 1,444 12 11 15 Augustus. 48,114 1,544 1,518 13 0 4 Minnedosa. 50,591 1,547 1,518 13 0	16 Selkirk	47,342	:	- -	:	1,420	:	:	:	:	1,420		3 ~		
4 Winnepeg. 44,855 1,346 13 0 1,346 13 0 1,346 13 0 1,346 13 0 1,572 12 11 1,672 12 11 1,672 12 11 1,444 12 11 1,444 12 11 1,547 12 10 1,547 12 10 1,547 12 10 1,547 12 10 1,547 12 10	17 Minnedosa	2,680	:	:	:	1,040		:		:	1,346		.		₽
Sekark 1,572 12 1,572 12 1,572 12 1,572 12 1,572 12 1,572 12 1,572 12 1,444 12 15 144 12 15 15 15 15 15 15 15	v. 4 Winnipeg.	44,803	:	-	:	1,246		:			1,346		70	<u>의</u>	
1 444 12 1,444 12 1,444 12 1,518 13 1,518 13 1,518 13 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,547 12 1,5		44,045	- - - -	:		1,579		: ;			1,572		-0	<u>و</u>	
15 Augustus. 50,114 1,518 13 15 15 15 15 15 15 15 15 15 15 15 15 15		40,000	:	:		4				:	1,444		-	o	
4 Minnedoss. 51,569 1.547 1.547 1.2		70,707	:			1.518		:			1,518		·	٠ 2	- op -
		51,569				1,547		:	:		1,547	-			. op . ot

UNITED STATES SAILING VESSELS—Concluded.

26 Baltic	55,038	:	:	:	1,652	:	:	:	:	1,652	13 6	Chicago	2	Ogdensburg.	457
do 29 F. D. Ewen.	8 4	:	25 004	:	1,469	1 799	-			1,792	13.5	38	: :	Ogdensburg.	
29 Iron City.			37,815			1,059				1,059	13.5	ę,	:	ှ မေ	Ť.
May 4 Grampian.	56,838		:	:	1,706		:	:	:	9,7	5 E	8-8		9-6	44
4 Dundee	00,250	59.566			•	1,668	: :			1,668	133	_{සි} දි	: :	· ·	
		53,755			:	1,506	<u>:</u>			1,506	12 8	op	:	do	22
	217,066	215,130	215,130		6,515	6,025	:			12,540					
Grand Total 2,851,6	2,851,662	662 3532,558	192,995	12,412	85,562	98,959 4,635	4,635	12,412	33,307	33,307 234,875		: :	:	:	:

K.—Statement showing the Quantity of Freight passed Eastward, from Lake Erie, through the whole length of the Wel and St. Lawrence Canals, to Montreal, during the Seasons of Navigation in 1883, 1884, 1885, 1886, 1887, 1888, 1889, 1890, 1891, 1892, 1893, 1894 and 1895.

Articles,	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Class 3.	· v.												
Iron, pig. do all other Steel	10		t-	15		418			371			195	79 1,766 394
Stone for cutting		: :8	513	40	88				: :	. 72	: :6	50	88
Barley. Corn. Flour Meal, all kinds.	109,191 5,089 1,188		44, 401 2,874 16	116,517 2,934 125	24,609 6,140 87	66,443 3,865 100	195,350 6,841 148	139,798 3,065 222	52,539 3,324 67	2,874 2,874 16	278,564 5,514	60,661 16,503 175	20,235 30,916 65
Oaks. Pease Rye	726	433	11	809	362		1,284	1,120	390 64,978	524 9,119	3,669	2 : :	3 · · · · · · · · · · · · · · · · · · ·
Seeds, all kinds Tobacco, raw	9	04 090	42	8 8 18 7	160 063	03 015	20.215	75.515	159 785	194 981	909 919	919.557	158.643
All other agricultural products, vegetable.	<u> </u>	200	1		17		798	60	67			83	
Indes, skins, horns and hoofs Iorses				g	-	67 2	63	က	. 8	8 63	-	1	-
Light and lard off. Pork All other agricultural products, animals	212	318	30	936	418		1,220	221	202	103		717	
Total, Class 3.	193,393	152,171	100,058	208,148	191,759	165,113	276,813	220,545	281,762	260,757	507,321	291,151	264,740
Class 4.	6	8	1.6	44	113	75	101	02	4	12	8	19	8
Furniture Glass, all kinds	9-1	9	70	9	6	67 69			67-1	-		67 :	
Molasses	43	-	:	88	-	:			:				8
Oil		87		9	14		4	9					9

	12	72 105 193 142 278 86	236 198 324 246 426 60		88 40 1,001 5,175 6,118 3,579 3,908 1,678	1,623 270	14,390 11,586 9,302 5,680 400				213,834 183,899 292,827 224,371 291,776 263,144 508,016
1		8 100	193		18,707	788	15,410	36,173			244,514
: : :	317	37	480 138		37 128 7,531 19,945	<u>:</u>	7,365 11,128	32			168,715 132,968
:	269	88	412		:		2,314	11,589			205,394
	Pitch and tar. Sugar Stone, wrought.	Lurpentine	Total, Class 4	Class 5.	Barrels, empty	e and parrelest India and pipe	Timber, square, in Vesselsdo	Total, Class 5.	Special Class.	Coal	Grand total

Sessional Papers (No. 10.)

length of the St. Lawrence and 77, 1888, 1889, 1890, 1891, 1892,	
e Quantity of Freight passed Westward from Montreal, through the whole length of the St. Lawrence and ake Erie, during the Seasons of Navigation in 1883, 1884, 1885, 1886, 1887, 1888, 1889, 1890, 1891, 1892,	
uantity of Freight passed Westwar Erie, during the Seasons of Nav	
L.—Statement showing the Qu Welland Canals to Lake 1893, 1894 and 1895.	•

	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.
Articles.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Bricks Class 3. Cement and water lime Clay, lime and sand	78 508 55	200	117	66 498 1	1,740 134 134	187 1,177 1	823 833 80	252 62 8 8	469 2,380 206 7	1,570 240 426	3,169	2,281 253 512	1,859
Gypsum Iron, railway do pig do all other Ogasit	8,725 2,460 528 5,324 3	2,031 43 366 802 142	13,356 23,23 290 1,574	6,629 10 76 5,609	153 368 1,997 4,197 423	9,148 573 297 3,599	15,513 250 290 4,216	20,003 20 584 7,440	2,855 112 595 4,391	1,171 74 387 2,034 269	6,576 25 24 548 995 426	20 1114 843 248	1,231 932 932 528
Stone for cutting Flour Hay	21		2					284		2 : : : : : : :	က	15	124
Meals Oats Potatoes	. 284 				4		215	100				: : :	32
Seeds, all kinds Agricultural products not enumerated, vegetables.	8	Ħ	=			8	19		52				88
Horses Lard and lard oil Pork		45	en :		နေ		29 : :	33.2	: : : c	16			
enumerated.	::1			9	44	77		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	22 23	6.076	11 776	10	904
Total, Class 3	17,994	3,707	14,428	12,896	8,702	10,244	21,430	20,01	11,011	256			
Crockery and earthenware	137	27	226 10	84-	164	386	112	91	25	28 x	86	107	12

Glass, all kinds.		160	83	38	55 ro	77	11	83	æ :	152	365	175	394
Molasses Nails	1,085	160	202	88	147	578	38 E	453	260	27.6	472	200	1,149 149 149
Oil, in barrels.	: 182 183	æ191	28	88	88	328	. .	## 	3 5	15.2	\$ 2	x x	31 75
Pitch and tar	38	-	:	Ð		:		13	83	12	8	152	29
Soda, ash	1,801	1,427	164	975	1,116	1,196	766	554	377	352	89 41	\$	2
Sugar Sugar Tin	375	1,832	23	316 549	2,235	88.88	r-8	551 40	23	1,320	2,218	2,72 4 327	1,430 396
Turpentine. White lead		es	: : (€	4·1	- 67	4-6	262	. m	: ° E	:8:	:67	7
Whiting Whisky, beer, &c	191 191 190	38.5	250	174	287	228	27 24 28 24 25	2 2 2 3 3 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3	294	250 280 280 280 280	188	- 125 S	188
Total, Class 4	1 ∞	5,687	1,725	3,678	ž	4,066	3,873	3,277	2,989	3,394	4,769	5,352	5,651
Class 5.													
Barrels, empty. Lumber, sawn, in vessels. Woodenware.	318		63	222			61						
Total, Class 5	497	3	2	227									
Special Class.													
Coal	9	88		:			:						
Grand Total	27,488	9,425	16,155	16,801	14,075	19,310	25,370	31,951	14,060	9,470	16,545	9,439	10,555

60 Vi	CTA	ria.

Sessional Papers (No. 10.) A. 1897

M.—Statement showing the Quantity of Freight passed Eastward through the Welland Canal, from U States Ports, during the Seasons of Navigation from 1883 to 1895 inclusive.	f Freight ts, during	ht passeng the S	ed East Seasons	passed Eastward through the Seasons of Navigation	rough igation	the We from 18	Welland Canal, from 1883 to 1895 inclusiv	anal, fr 895 inc	om Un lusive.	United Stree.	States Pc	Ports to	to United
Articles.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Class 3.													
ime	: :	: :		31		4	: :	4	: :-				
I fall from railway. do all other Salt.	-318°°	-			9 : :		280		10.1		102	• : :	181 214
ng.	88	15		: :	: :	e :			: :				
Apples Barley 9 Corn	735 66,128	53,707	63,229	93,503	1,709 83,431	102,974 8 563	147,045	6,519 180,842 9,904	8,113 127,494 6,802	6,433	16,751 198,777 6,588	28,095	7,904
Hay, pressed Meal, all kinds	8,579	8,170	1	13,201	10,726	11,598	17,224	20,482	26,096	31,724	36,352	60,390	46,316
Oil cake Oaks Potetoes	731	9,874	885	4,790	12,050	26,510	27,492	27,030	52,823	36,935	23,870	27,621	16,442
Rye Seeds, all kinds Wheat	662 54,282	511	53,235	236	44 37,678	179 48 39,999	151 39,229	135	256 32,097	26,950	864 16 28,187	53,846	14 27,881
Agricultural products, vegetable. Hides and skins, &c. Horses	ශ පි ල	£ 9		414	170			14	2 : €		63	4	oc :
Lard and lard oil, &c. Meats, other than pork. Pork	12 163 163	1~4		13	14 18 108	3 4 5	8 ° 5	858	325	- 18	1 52	92	& & °
Sheep. Wool.	 32	-		1,125	8	18	452		1,237	0.2	: &	1,484	1,536
Total, Class 3	133,782	115,092	117,470	174,359	157,820	189,986	237,188	275,893	255,553	244,433	311,647	294,654	211,300
Class 4.													
Agricultural implements Crockery and earthenware Furniture.	2-1-2	16		21	9	8		21			9		60

Giass, all kinds. Nails. Oil, in barrels.	206	255 255		140	 							22	
Faint. Soda, ash. Stone, wrought.	9	2		: : : : : : : : : : : : : : : : : : :				ກ : : : :		4 : :			
Sugar White lead Whisky, beer and all other spirits	156	: :8				151	190	228	167				. 15
Merchandise, not enumerated Total, Class 4.	941	481	62 63	924	573	1,453	i	- 2	1,865	1,331	1,693	3,033	7,656
Class 5. *													
Empty barrels. Lumber, sawn, in vessels.	34,189	43,713	14,668	43,776	29,845	28,333	55,074	38,030	45,504	54,173	9 68,985	62,905	41,574
Railway ties, in vessels Shingles	ş :6;	94	 	463		• • • • • • • • • • • • • • • • • • •	51.				13		446
Staves, barrel. Timber, square, in vessels.	ୟ : :				: : : : : : : : : : : : : : : : : : :	28 E	333	: a		: : 2			200
Total, Class 5	34,279	43,800	44,779	44,241	29,871	28,562	55,458	38,038	45,508	54,227	69,007	62,905	42,920
Special Class.											·		
Coal. Stone, not suitable for cutting	5,372	4,293	4,974	5,400	1,163	878	1,124 1,681	615	1,382	651	2,123	727	603
Total, Special Class.	5,372	4,293	4,974	5,400	1,163	878	2,805	2,253	3,155	651	2,123	727	603
Grand Total.	174,912	163,997	167,225	224,916	189,427	221,064	207,353	318,259	306,257	300,733	384,559	361,319	262,585

N.—Statement showing the number of Vessels and their Cargoes of Wheat, from ports west of Port Colborne to Montreal; the quantity transhipped at Kingston, and the quantity of each Cargo through the St. Lawrence Canals, during the Season of Navigation in 1895.

Names of Vessels.	Original Cargo through the Welland Canal.	Quantity. transhipped at Kingston.	Cargo through the St. Lawrence Canals.
	Tons.	Tons.	Tons.
Canadian steamer "Shickluna". Canadian sail "Dunmore". do "Selkirk". do "Winnipeg".	1,305 1,474	223 670 783 791	257 635 691 681
Total,	4,731	2,467	2,264

Number of cargoes of wheat	4
Quantity through Welland Canal to Kingston	4,731 tons
do transhipped at Kingston	•2,467 do
do taken to Montreal in vessels in which it arrived at Kingston.	2,264 do

N.—Statement showing the number of Vessels and their Cargoes of Corn, from ports west of Port Colborne to Montreal; the quantity transhipped at Kingston, and the quantity of each Cargo through the St. Lawrence Canals, during the Season of Navigation in 1895.

Names of Vessels.	Original Cargo through the Welland Canal.	Quantity transhipped at Kingston.	Cargo through the St. Lawrence Canals.
	Tons.	Tons.	Tons.
Canadian steamer "Acadia". do "Arabian". do "Cuba". do "Melborne". do do do	252 392 252	616	448 541 252 392 252 339
Total	3,202	978	2,224

Number of cargoes of corn	6∙
Quantity through the Welland Canal to Kingston	3,202 tons
do transhipped at Kingston	978 do
do taken to Montreal in vessels in which it arrived at Kingston	2,224 do

RECAPITULATION of the Number of Vessels passed down the Welland Canal with Cargoes of Grain for Montreal, the Quantity transhipped at Kingston, and the Quantity taken to Montreal, for the season of 1895.

·	Number of Cargoes.	Total Number.
Wheat Corn.	4 6	
Total		10
Quantity of wheat through the Welland Canal bound for Montreal	Tons. 4,731 3,202	Tons.
Total through Welland Canal		7,933
Quantity of the above transhipped at Kingston, viz:— Wheat Corn	2,467 978	
Total transhipped		3,445
Quantity of the above cargoes taken to Montreal in vessels in which it arrived at Kingston, viz:— Wheat	2,264	
Corn.	2,224	
Total quantity to Montreal		4,488
Total		7,933

O.—Statement showing the Quantity of Grain passed down the Welland Canal to Kingston in Canadian and United States Vessels, entering the Canal at Port Colborne, during the Season of Navigation in 1895.

		Canadian	VES	SSELS.	τ	United Sta	res V	ESSELS.	r	OTAL.
		Steam.		Sail.		Steam.		Sail.	Steam	and Sail.
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
·	79	56,210	44	33,337	43	38,934	13	9,664	179	138,145
		Tons.		Γons.		Tons.		Tons.		Tons.
Barley		798		162						960
Com		15,489		3,193		38,422		4,663		61,767
Oats	}	1,476		178	····					1,654
Pease	İ		ļ							
Wheat	1	56,949		58,372		17,857		13,045		146,223
Total		74,712		61,905		56,279	-	17,708		210,604

79 ca	rgoes in	n Canadia	n steam ves	sels, tota	ıl quanti	t y.		 74,712 tons	3
44	do	do		do	do _	• • • •	· · · ·	 61,905 do	
43	do	United S	tates steam	vessels,	total qua	antity		 56,279 do	
13	do	do	sail	do		do		 17.708 do	

P.—Statement of the total Quantity of Grain arrived at Kingston in Vessels which passed down the Welland Canal during the season of Navigation in 1895.

Summary.	Tons.	Tons.
Canadian steam vessels—79 cargoes of graindo sail do 44 do		
Total in Canadian vessels		136,617
United States steam vessels—43 cargoes of grain do sail do 13 do		
Total in United States vessels		73,987
Total in Canadian and United St	tates vessels	210,604
Distributed as follows:— 10 cargoes arrived at Kingston in Canadian vessels w Transhipped at Kingston	vith an aggregate quantity of 7,933 3,445	
Quantity taken to Montreal in vessels in which it arrive Vessels arrived at Kingston and discharged all their car 113 cargoes in Canadian vessels	goes as follows: 128,684	4,488
Aggregate quantity discharged	202,671	
Quantity transhipped to Montreal	200,213	
Total quantity transhipped from Kingston to Montreal. Quantity remaining at Kingston		203,658 2,458
Total		210,604

Q.—Comparative Statement of the quantity of Grain passed down the Welland Canal to Kingston for the Seasons of Navigation in 1894 and 1895.

	1894	1.	189	5.
	No. of Cargoes.	Tons.	No. of Cargoes.	Tons.
Quantity arrived at Kingston in Canadian vessels do do United States vessels Total	125 84 209	159,145 106,236 265,381	123 56 179	89,547 48,598 138,145
Quantity transhipped at Kingston in Canadian vessels for Montreal Quantity taken to Montreal in vessels in which it arrived at Kingston		240,557 9,554		203,658
Quantity remaining at Kingston Quantity transhipped to Cardinal. Quantity taken to elevator at Ogdensburg, N. Y., and transhipped to Montreal.		10,806 3,888 576		2,458
Total		265,381		210,604

R.—Statement showing the number of Vessels, their Tonnage, number of Passengers, and Tons of Freight passed down the Rapids of the St. Lawrence Canals during the Season of Navigation in 1895.

Destination.	No. of Sec.	of	Tonnage of Vessels	No. of Passengers.	Class Three.	Class Four.	Class Five.	Tolls.
								g ets.
Prescott to Montreal	4	49	24,053	5,066	100	263	J j	754 40
do Lachine	3	20	8,564	1,998	310	71		244 20
do Valleyfield		21	11,197	926	966	192]	179 96
Dickinson's Landing to Montreal		23	15,634			4	1	88 83
Valleyfield do	2	53	32,448	1,379	8	35		195 22
do to Lachine	1	184	19,102	1,856	1,184	393	37	152 78
Lachine to Montreal	1	292	62,118	18,128	514	275		534 38
Total		642	173,116	29,353	3,082	1,233	37	2,149 77

⁴ vessels took their cargoes through to Montreal intact in 1895, against 2 in 1894. 6 vessels discharged part of their cargoes in 1895, against 19 in 1894. 169 do all of their cargoes in 1895, against 188 in 1894.

S.—The quantity of Coal passed through the Welland Canal during a series of years from 1885 to 1895, inclusive, and the amount of Tolls collected thereon, is as follows:—

Year.	From Canadian Ports to Canadian Ports.	United States Ports United States Ports		Total Tons.	Amount of Tolls Paid.		
	Up.	Up.	Down.	Up.	Down.		20 cents a ton.
	Tons.	Tons.	Tons.	Tons.	Tons.		\$ cts.
1885 1886	! ! 	193,442 184,564	4,974 5,400	10,321 22,187	31,350 49,724	240,087 261.875	48,017 40 52,375 00
1887 1888		81,617 172,381	1,163 878	26,775 17,365	25,968 27,183	135,523 217,807	27,104 60 43,561 40
1889 1890	80	226,352 116,616	1,124 615	12,036 17,280	25,931 22,781	265,443 202,372	53,188 60 38,222 30
1891	1	183,244	1,382 651	17,374	20,698 15,330	224,644 211,616	44,928 20 42,284 13
1893 1894 1895		204,704 187,794 148,887	$2{,}123$ 727 603	8,325 $1,269$ $1,565$	$17,944 \mid 13,947 \mid 7,807 \mid$	$233,096 \\ 203,737 \\ 158.866$	46,619 20 40,789 93 31,773 05

NOTE.—Tolls on soft coal passed down the Welland Canal, during the season of 1890, were reduced from 20 to 10 cents a ton, per O.C. 11th May, 1890, for the season of 1890 only, the rate for 1891, 1892, 1893, 1894 and 1895 being 20 cents a ton for passage either eastward or westward.

T.—Statement showing the quantity of Coal passed through the whole length of the St. Lawrence Canals during the seasons from 1885 to 1895, inclusive.

Year.	Quantity passed up Free of Tolls.	Quantity passed down to Montreal.	Total Quantity passed up and down.	Amount of Tolls on Quantity passed down to Montreal.
	Tons.	Tons.	Tons.	\$ cts.
.885	5,035	122,829	127,864	18,424 35
	3,301	118,802	122,103	17,820 70
	7,579	121,618	129,197	18,242 70
	8,341	123,050	131,391	18,423 90
1000	5,360	124,290	129,650	18,604 90
0.00	6,538	135,168	141,706	20,275 20
891	7,951	141,701	149,652	21,255 15
1004	7,043	157,134	164,677	23,570 10
1000	2,285	147,139	149,424	22,070 85
LOTE	16,213	169,552	185,765	25,432 80
.895 ,		165,151	165,151	24,772 65

NOTE.—Coal is allowed to pass free up the St. Lawrence Canals.

U.—Comparative Statement of the Quantity of Freight passed down the Welland Canal, showing the Quantity to Montreal, the Quantity to Canadian Ports between Port Dalhousie and Cornwall, and the Quantity to United States Ports, Oswego, Ogdensburg, &c., on the south side of Lake Ontario, for the years 1884 to 1895, inclusive.

Articles.	Quantity passed down to Montreal.	Quantity passed down to Canadian Ports between Port Dalhousie and Cornwall.	Quantity passed down to United States Ports.
1884.	Tons.	Tons.	Tons.
Ashes, pot and pearl Agricultural products, not enumerated, vegetable		10 7	
do do animal,		2 9	• • • • • • • • • • • • • • • •
Agricultural implements			· · · · · · · · · · · · · · · · · · ·
Barley		52	4.000
		32,598	4,293
Corn	55,552	9,552	53,707
Cattle		. 13	
Flour		, 13	1,715
Furniture	10	17	1,713
Glass, all kinds		10	10
Hay, pressed		10	13
Horses		2	6
Hides, horns and hoofs.		_	73
Iron, all other.		8	40
Kryolite and chemical ore, and other ore, except iron.			10
Lard and lard oil			7
Meal, al kinds			8,170
Meats, other than pork		28	4
Marble			î
Nails			26
Oats	872		9,874
Oil, in barrels		354	255
Pease			
Pork.			
Rye	477		
Salt		364	,
Stone, intended for cutting		2.059	15
do wrought	317	190	7
Seeds, all kinds	1	111	511
Sheep.			1
Spirits, beer, &c		11	26
Turpentine			
Wheat	84,822	2,549	40,975
All other goods and merchandise not enumerated	37	104	480
Barrels, empty	37	3	1
Firewood, in vessels		930	
Lumber, sawn, in vessels	7,531	85	45,239
Staves and headings, barrel		22	
do do pipe	200	487	
do do West India		406	
Shingles		7	76
Timber, square	7,365	50,414	
Woodenware and wood, partly manufactured	68	3	11
Total	168,715	100,425	165,543

A refund of 10 cents per ton was allowed on wheat, corn, oats, barley and rye passed down to Montreal, per O. C. 28th May, 1884.

U.—Comparative Statement of the Quantity of Freight passed down the Welland Canal, &c.—Continued.

Articles.	Quantity passed down to Montreal.	Quantity passed down to Canadian Ports between Port Dalhousie and Cornwall.	Quantity passed down to United States Ports.
1885.	Tons.	Tons.	Tons.
Ashes, pot and pearl	97 513 1 2		228
Coal. Coal. Corn Crockery and earthenware.	44,401	31,350 9,906	4,974 63,229
Flour. Furniture. Horses Iron, pig do all other.	2,874 5 2	11 1 100	124
Iron ore. Lard and lard oil. Meal, all kinds.	16	2	987
Oats	7 11	568	882
Paint Pork. Salt	30	68	
Stone for cutting	49	3,749 8 10	
Spirits, beer, &c	2	25 4	**************************************
Wheat. All other merchandise, not enumerated Barrels, empty	52,157 28 128	2,003 8 8	53,235 2
Firewood, in vessels Lumber, sawn Staves and headings	19,945 856	540 6,774 604	49,561
Shingles Timber, square Woodenware	11,767	69,616	111
Total	132,968	125,762	173,333

A refund of 10 cents per ton was allowed on wheat, corn, oats, pease, barley and rye passed down to Montreal, per O.C. 17th June, 1885, and a refund of 18 cents per ton from 1st July, 1885, per O.C. 4th July, 1885.

U.—Comparative Statement of the Quantity of Freight passed down the Welland Canal, &c.—Continued.

Articles.	Quantity passed down to Montreal.	Quantity passed down to Canadian Ports between Port Dalhousie and Cornwall.	Quantity passed down to United States Ports.
1886.	Tons.	Tons.	Tons.
Ashes, pot and pearl		10	. 11
Apples	49	1	· · · · · · · · · · · · · · · · · · ·
Bricks			41
Cement and water lime			26
CoalCorn	118 517	49,724	• 5,400 93.503
Corn Flour	$116,517 \\ 2,934$	8,871	7,591
Furniture	2,304	15	21
Glass, all kinds			2
Horses	1	• • • • • • • • • • • • • • • • • • • •	1
Hides and skins, &c		617	414 43
ron, pig	15	12	1
Lard and lard oil	22	9	$1\overline{3}$
Meal, all kinds	125	18	13,201
Meats, other than pork	67	$rac{64}{2}$	1
Marble	90	7	
Nails	20		4
Dats		41	4,790
Dil	6	28	6
Pease	608 936	407	106
Pork	1	1	100
Rags	1	*	13
Salt		29	1
Stone, for cutting		4,314	
do wrought	33	103 3	38
Seeds, all kinds	00	J	3
Spirits, beer, &c	8	12	21
Tabacco, raw	25		
Tallow	00 015	2	1 2 050
Wheat	86,815	969	53,258 1,125
Merchandise not enumerated	100	46	793
Barrels, empty	6	2	
Floats	10 808	20	*** **********************************
Lumber, sawn, in vessels	18,707	$\substack{7,546\\22}$	53,124
Masts, spars, &c		57	
do do pipe	332	339	· · · · · · · · · · · · · · · · · · ·
do do West India	287	444	
Shingles	10.740	12	463
Fimber, square	16,740 101	44,335 45	·····2
Total	244,514	118,127	234,254

A refund of 18 cents per ton was allowed on wheat, corn, oats, pease, barley and rye, passed down to Montreal, per O. C. 21st April, 1886.

U.—Comparative Statement of the Quantity of Freight passed down the Welland Canal, &c.—Continued.

Articles.	Quantity passed down to Montreal.	Quantity passed down to Canadian Ports between Port Dalhousie and Cornwall.	Quantity passed down to United States Ports.
1887.	Tons.	Tons.	Tons.
Ashes, pot and pearl	33	25,968	2 9 1,709 1,163
Corn Fish Flour Furniture	24,609 6,140 9	6,898	83,431 2 11,780 24
Horses Hides, skins, &c Iron, pig. do all other Lard and lard oil Meal, all kinds. Meats, other than pork. Nails		1,137 7 6 42 15	170 14 10,726 18
Oats Oil cake. Pease. Pork Stone, for cutting. do wrought. Seeds.	14 17 362 418	190 86 3,531 543 4	12,050 8 108
Sugar Spirits Wheat	15 160,063	99 4,94 0	1 63 37,678
Wool All other merchandise not enumerated. Barrels, empty. Lumber, sawn Staves and headings, barrel.	72 88 7,001	123 1,816 27	86 468 24 44,733
do pipe do West India Timber, square Woodenware and wood partly manufactured	184 131 14,390 45	838 21,351 1	2
Total	213,834	67,632	204,315

A refund of 18 cents per ton was allowed on wheat, corn, pease, barley and rye passed down to Montreal, per O.C. 21st March, 1887.

U.—Comparative Statement of the Quantity of Freight passed down the Welland Canal, &c.—Continued.

Articles.	Quantity passed down to Montreal.	Quantity passed down to Canadian Ports between Port Dalhousie and Cornwall.	Quantity passed down to United States Ports.
1888.	Tons.	Tons.	Tons.
Ashes, pot and pearl	85		
Apples		45	
Barley			4
Coal		27,183	878
Corn	66,443	25,469	102,974
Crockery and earthenware	3,865	4	$\begin{array}{c} 1 \\ 8,563 \end{array}$
Furniture	3,005	1	30
Glass, all kinds	3	2	
Hay, pressed	2	20	
Hides and skins			39
Iron, pig		549	
do all other	418	490	
Lard and lard oil. Meal, all kinds	54 100	12	18 11,598
Meats, other than pork		6	14
Oats			26,510
OilPease.		3	
Pork.	265	54 61	19
Rags.		l	14
Rye		632	179
Stone, for cutting		6,535 126	
Seeds, all kinds	12	1 120	48
Steel			3
Sugar	9	2 2	4.
Spirits Tallow	3	2	, 151
Wheat	93,915	14,365	39,999
Wood			18
All other goods and merchandise not enumerated Barrels, empty	105 40	34	1,435 133,
Lumber, sawn.	5,174	4,515	45,818
Staves and headings, barrel	15	7	,
do pipedo West Indies	124 1,623	10	
do West Indiesdo salt barrel	1,023	13	
Shingles			6
Timber, square, in vessels	11,586	33,669	
Woodenware	25		8
Total:	183,899	113,801	238,467

A refund of 18 cents per ton was allowed on wheat, corn, pease, barley and rye passed down to Montreal, per O. C. 20th April, 1888.

U.—Comparative Statement of the Quantity of Freight passed down the Welland Canal, &c.—Continued.

Articles.	Quantity passed down to Montreal.	Quantity passed down to Canadian Ports between Port Dalhousie and Cornwall.	Quantity passed down to United States Ports.
1889.	Tons.	Tons.	Tons.
Ashes, pot and pearl	107	5	
CoalCorn.	195,350	25,931 11,200	1,124 147,045
Crockery and earthenware		1 5	1
Flour Furniture	6,841		5,017 30
Horses. Iron, pig.	2	 	1
_do		. • • • • • • • • • • . • • • • • •	520
Lard and lard oil	148	5	$19 \\ 17,224 \\ 3$
Molasses			88
Oats Oil, in barrels Oil cake	4	2	27,492
Potatoes			1
Pork Rye. Salt	1,284	114 634 316	21
Stone, for cutting		6,784	2
do not suitable for cutting		375	1,681
Seeds, all kinds Spirits, beer, &c. Tallow.	20	8	15I 190 13
Wheat	70,815	7,241	39,229 452
Merchandise	193	129	1,591 173
Lumber, sawn.	6.118	4,669	71,055
Railway ties		852	180
Saw logs. Staves and headings, barrel do do pipe.		4 304	198
do do West India	68	559	51
Split posts, &c.		17	
Timber, square. Woodenware, &c	9 302	70,579	240 2
Total.	292,827	130,584	313,574

A refund of 18 cents per ton was allowed on wheat, corn, pease, barley and rye passed down to Montreal, per Order in Council 18th March, 1889.

U.—Comparative Statement of the Quantity of Freight passed down the Welland Canal, &c.—Continued.

Articles.	Quantity passed down to Montreal.	Quantity passed down to Canadian Ports between Port Dalhousie and Cornwall.	Quantity passed down to United States Ports.
. 1890.	Tons.	Tons.	Tons.
Ashes All other products, animal do vegetable Barley	70 14 1		,
Bricks. Coal Corn Fish	134,966 49 *	22,781 11,584	615 180,842
r isin Flour Furniture Glass, all kinds.	3,065 1 1	1	9,204 21
Horses	3	1,280	1 1,620
Lard and lard oil	222	73	30 20,482 15 27,030
Oil, in barrels Oil cake Paint	6 2		3
Pease Pork Potatoes	221	19	14 88 1
Rye Salt Stone, for cutting do wrought	· · · · · · · · · · · · · · · · · · ·	$\begin{array}{c} 1 \\ 701 \\ 5,761 \\ 639 \end{array}$	18
Seeds, all kinds Spirits, &c Tallow	2 26 54		135 228
Wheat	142	5,241	31,527 1 $1,822$
Barrels, empty Firewood, in vessels Lumber, sawn, in vessels do rafts.	3,195	1,398 3,767	47,590
do rafts. Staves and headings, pipedo West Indies		187 36	14
Square timber, in vessels do rafts		73,112	1
Corn	219,539	144,301	327,833
Oats	$\frac{16,433}{235,972}$	144,301	*16,433

^{*}This quantity of grain was transhipped at Ogdensburg and passed down the St. Lawrence canals to Montreal.

A refund of 18 cents Welland Canal tolls was allowed on wheat, Indian corn, pease, barley, rye (and oats for export), when shipped for Montreal or some port east of that point, per Orders in Council 26th February and 5th May, 1890.

U.—Comparative Statement of the Quantity of Freight passed down the Welland Canal, &c.—Continued.

Articles.	Quantity passed down to Montreal.	Quantity passed down to Canadian Ports between Port Dalhousie and Cornwall.	Quantity passed down to United States Ports.
1891.	Tons.	Tons.	Tons.
Ashes	40 2		42
Barley	52,539	5,144	8,113 127,494
Coal Flour Fish	3,324	20,698	1,382 6,802 1
Furniture Glass Horses	2 1 2	2	7 1 3
Hay . Iron, pig . do all other.	371	21 128 1,036	10
Lard and lard oil	100 67	16	26,096
Meats, other than pork		1 20	2 18 52,823
Oil Pease. Pork.	390 201		73
Rags	64,978	969	60 256
Salt Stone for cutting do wrought		1,861 6,602	494
Tobacco. Tallow	1.	9	8
Wheat. Staves, pipe.	159,785	692	32,097
Whisky and all other liquors	105	57	$\begin{array}{c c} 167 \\ 1,237 \\ 1,779 \end{array}$
Kryolite Lumber, in vessels	2,991	1,098 1,300	1,773 56,456
do in rafts	917 5,680	14,638	4
a	291,776	54,315	317,209
Corn. 12,169 Wheat 5,648	17,817		*17,817
Total	309,593	54,315	299,392

^{*} This quantity of grain was transhipped at Ogdensburg and passed down the St. Lawrence Canals to Montreal.

A refund of 18 cents a ton Welland Canal tolls on wheat, Indian corn, pease, barley, rye and (for export) oats, originally shipped for Montreal or some port east of Montreal, per Order in Council, 25th March, 1891.

U .- Comparative Statement of the Quantity of Freight passed down the Welland Canal, &c.—Continued.

. $f Articles.$	Quantity passed down to Montreal.	Quantity passed down to Canadian Ports between Port Dalhousie and Cornwall.	Quantity passed down to United States Ports.
1892.	Tons.	Tons.	Tons.
Ashes, pot and pearl	17 54	2	,
Barley Corn	53,689	7,637	6,433 131,222
CoalFlourFish	2,874	14,839	651
Furniture Hides and skins Horses	1 20 2		7
Iron, railway do all other Meal, all kinds	16	100 765	1 21 704
Meats, other than porkOats	94		31,724 29 36,935
O 1PeasePotatoes	524	7	1
Pork Rye Salt	9,119	273 865	44
Seeds, all kindsSteel	75		50 1
Stone for cutting Sugar Wheat	194,281	1,264	20 26,950
Whisky, beer, spirits, &c	6 36	15	46 70 1,304
Barrels, emptyLumber, sawn, in vessels	1,678	150	1,304 29 83,403
Square timberStaves and headings, pipedo West India	440 8 200	42,768 89 76	440
Shingles			25
*Wheat	263,144 +4,341	74,227 —4,341	330,403
Total	267,485	69,886	330,403

* This quantity of wheat was taken from Kingston to Ogdensburg and stored in elevators, and subsequently transhipped to Montreal.

A refund of 18 cents a ton, Welland Canal tolls, was allowed on wheat, Indian corn, pease, barley, rye, oats, flax seed and buckwheat, which passed down the whole length of the Welland and St. Lawrence Canals, to Montreal, or any port east of Montreal, and such products exported out of the country, and in such cases only.

U.—Comparative Statement of the Quantity of Freight passed down the Welland Canal, &c.—Continued.

Articles.	Quantity passed down to Montreal.	Quantity passed down to Canadian Ports between Port Dalhousie and Cornwall.	Quantity passed down to United States Ports.
1893.	Tons.	Tons.	Tons.
Ashes, pot and pearl	23 600	1,110	16,751
Bricks Corn	278,564	1,251 5,752 17.944	156,776 2,123
Flour Fish Furniture	5,514	,	6,588 5
Horses.	1	1	6 2 100
do all other		1,025	36,352 1
Dats.´Pork	9,761	1,090	20,313 52
Rye Salt Seeds, all kinds	3,669	286	1
Wheat	209,212 1	17,602	29,117 83
Wool. Merchandise not enumeratedBarrels, empty	4	2	1,693 9
Firewood (in rafts)	667	15 1,981	123,665
Square timberStaves and headings, barrel		45,605 12	
do pipedo West India		53	
Total	508,016	93,737	393,748

There was no rebate allowed of the Welland Canal toll on grain passed down to Montreal during the

There was no repate allowed or the Welland Canal toll on grain passed down to Montreal during the season of navigation in 1893.

The tolls were, however, reduced by Order in Council of 13th February, 1893, as follows:—"For the season of 1893, the canal toll for the passage of the following food products: wheat, Indian corn, pease, barley, rye, oats, flax seed and buckwheat, for passage eastward through the Welland Canal be ten cents products to free passage through the St. Lawrence Canals only, ten cents per ton, payment of the said toll of ten cents a ton for passage through the Welland Canal to entitle these products to free passage through the St. Lawrence Canals."

U .- COMPARATIVE STATEMENT of the Quantity of Freight passed down the Welland Canal, &c.—Continued.

Articles.	Quantity passed down to Montreal.	Quantity rassed down to Canadian Ports between Port Dalhousie and Cornwall.	Quantity passed down to United States Ports.
1894.	Tons.	Tons.	Tons.
Apples. Ashes. Barley Bricks Coal. Corn Dye woods and dye stuffs.	50 19 258 	552 13,818 3,243 4	28,095 727 105,329 2
Fish. Flour Flour Furniture Horses Iron, pig, do all other. Meals Nails	16,503 2 1 195 1	41 3 2 2,170 183	60,390 57
OatsOil cake	175 29	107	27,621
do in barrels	717	27 133 3	56
Spirits, beer, &c	212,557 16	13,349	52 42,934
Wool. Merchandise not enumerated. Barrels, empty.	314	16	1,484 2,889
Sawn lumber, in vessels. Square timber do Woodenware	683	47,030	86,545
Total	292,191	80,68	373,070

There was no rebate allowed of the Welland Canal toll on grain passed down to Montreal during the

season of navigation in 1894.

season of navigation in 1894.

The tolls were, however, reduced by Order in Council of 16th April, 1894, as follows:—"For the season of 1894, the canal tolls for the passage of the following food products: wheat, Indian corn, pease, barley, rye, oats, flax seed and buckwheat, for passage eastward through the Welland Canal be ten cents per ton; and for passage eastward through the St. Lawrence Canals only, ten cents per ton, payment of the said toll of ten cents a ton for passage through the Welland Canal to entitle these products to free passage through the St. Lawrence Canals."

U.—Comparative Statement of the Quantity of Freight passed down the Welland Canal &c.—Concluded.

Articles.	Quantity passed down to Montreal.	Quantity passed down to Canadian Ports between Port Dalhousie and Cornwall.	Quantity passed down to United States Ports.
1895.	Tons.	Tons.	Tons.
Apples Ashes Barley Bricks	28 34 959	15	7,730
Coal	70,235 30,916	7,809 2,912 1,824 12	$\begin{array}{c} 603 \\ 91,743 \\ \bullet 10,265 \\ 2 \end{array}$
Glass	1	1 1	8
Iron, railwaydo pigdo all other	79 1,766	1,994 1,408	181 214 6
Meal all kinds Meats other than pork Molasses	65		46,316 30
Oats Oil in barrels	1,654 6	123 41	16,442 30 87
PaintSaltStone for cutting	2	36 430	
Seeds all kindsSteelSugar	394		14 462 59
Spirits, beer &c	101	84 16 29,061	15
Wool	558	1,302	1,536 1,536 7,656
Barrels, empty Sawn lumber in vessels. Railway ties do		492	43,286 1,942
Shingles			500
Total	266,659	111,946	247,035

^{*}Of this amount 3,469 tons came down to Kingston in 1894—was stored there and taken to Montrea in 1895, and 245 tons came down to Ogdensburg in 1894, stored there and transhipped to Montreal in 189

U.—Statement showing the quantity of Freight passed down the Welland Canal to Canadian Ports, &c.—Continued.

RECAPITULATION.

Articles.	Quantity passed to Montreal.	Quantity passed down to Canadian Ports between Port Dalhousie and Cornwall.	Quantity passed down to United States Ports on the south side of Lake Ontario.
1884.	Tons.	· Tons.	Tons.
Bariey Corn Oats Rye Wheat	38 55,552 872 477 84,822	52 9,552 ·····2,549	53 707 9,874 40,975
Total GrainOther Articles.	141,761 26,954	12,153 88,272	104,556 60,987
Total	168,715	100,425	165,543
1885.	<u>.</u>		
Barley. Corn Oats Pease	44,401	9,906	228 63,229 882
Rye Wheat	52,157	2,003	53,235
Total GrainOther Articles	96,569 36,399	11,909 113,853	117,574 55,759
m	132,968	125,762	173,333
Total		•	,
Barley	116,517	8,871 41	93,503 4,790
Rye	86,815	969	53,258
Total GrainOther Articles	203,940 40,574	9,881 108,246	151,551 82,703
Total.	244,514	118,127	234,254
1887.			
Barley	24,609	6,898	1,709 83,431 12,050
Rye	160,063	4,940	37,678
Total GrainOther Articles	185,034 28,800	11,838 55,794	134,868 69,447
Total	213,834	67,632	204,315

^{*} There was no refund on oats for 1887, 1888 and 1889.

U.—Statement showing the Quantity of Freight passed down the Welland Canal to Canadian Ports, &c.—Continued.

RECAPITULATION—Continued.

Articles.	Quantity passed down to Montreal.	down to	Quantity passed down to United States Ports on the south side of Lake Ontario.
1888.	Tons.	Tons.	Tons.
BarleyOats	66,443	25,469	2 102,974 26,510
Oats Pease Rye Wheat	93,915	54 632 14,365	179 39,999
Total Grain Other Articles	160,358 23,541	+40,520 73,281	169,664 68,803
Total	183,899	113,801	238,467
1889. Barley	195,350 320	11,200	147,045 27,492
Pease Rye. Wheat	1,284 70,815	634 7,241	39,229
Total GrainOther Articles	267,769 25,158	19,075 111,509	213,766 99,808
Total	292,927	130,584	313,574
1890. Barley	150,999 879	11,584	6,519 180,842 27,030
Pease Rye Wheat	1,120 75,515	1 5,241	31,527
Total GrainOther Articles	. 228,513 7,459	16,899 127,402	‡245,932 81,901
Total	235,972	144,301	327,833
1891.			8,113
BarleyOats	52,539	5,144	127,494 52,823
Pease	390 64,978 159,785	969 692	32,097
Total Grain	277,692 + 17,817	6,805	220,527 - 17,817
Total	. 295,509 14,084	47,510	202,710 96,682
Grand Total	. 309,593	54,315	299,392

^{*} Owing to a break in the Cornwall Canal, 14,921 tons of the above quantity of grain were transhipped to Montreal via Canadian Pacific and Grand Trunk Railways, and the refund of 18 cents per ton allowed + Of this quantity of grain, 16,433 tons were transhipped at Ogdensburg to Montreal.

U .- COMPARATIVE STATEMENT of the Quantity of Freight passed down the Welland Canal. &c.—Concluded.

RECAPITULATION. - Concluded.

. Articles.	Quantity passed down to Montreal.	Quantity passed down to Canadian Ports between Port Dalhousie and Cornwall.	Quantity passed down to United States Ports on the south side of Lake Ontario.
1892.	Tons.	Tons.	Tons.
BarleyCorn	53,689	7,637	6,433 131,222 36,935
Pease	524 9,119 194,281	273 5,373	26,950
Total grain	257,613	13,283	201,540
Montreal	* 4,341	4,341	
TotalOther Articles	261,954 5,531	8,942 60,944	201,540 128,863
Total	267,485	69,886	330,403
1893. Barley	600 278,564 9,761	1,110 5,752 1,090	16,751 156,776 20,313
Pease Rye Wheat	3,669 209,212	17,602	29,117
Total grain	501,806 6,210	25,555 68,182	222,958 170,790
Total	508,016	93,737	393,748
BarleyOats	258 60,661 175	3,243 107	28,095 105,329 27,621
Rye	212,557	13,349	42,934
Total grain	273,651 18,540	16,699 63,982	203,979 169,091
Total /	292,191	80,681	373,070
1895.			
Barley. Corn. OatsRye	959 70,265 1,654	2,912 123	7,730 91,743 16,442
Rye	+ 158,643	29,061	17,908
Total grain	231,491 35,168	32,096 79,850	133,823 113,212
Other Articles Grand Total	266,659	111,946	247,035

^{*}This quantity of wheat was taken from Kingston to Ogdensburg and stored in elevators and subsequently transhipped to Montreal.

+Of this amount 3,469 tons came down to Kingston in 1894, was stored there, and taken to Montreal n 1895, and 245 tons came down to Ogdensburg in 1894, stored there and transhipped to Montreal in 1895.

V.—Summary of Quantity of Freight passed down Welland Canal on which full Tolls were paid.

•	Quantity passed down to Canadian Ports : Toronto, Hamilton, King- ston, Cornwall, &c.	Quantity passed down to United States Ports: Oswego, Ogdens- burg, &c., on south side of Lake Ontario.
1884.	Tons.	Tons.
Grain Other articles	12,153 88,272	104,556 60,987
Total	100,425	165,543
1885.		
Grain Other articles	. 11,909 113,853	117,574 55,759
Total	. 125,762	173,333
1886,		
Grain	9,881 108,246	151,551 82,703
Total	. 118,127	234,254
1887.		
Grain	. 11,838 55,794	134,868 69,447
Total	67,632	204,315
1888.		1 1
Grain		169,664 68,803
Total	. 98,880	238,467
1889.		
Grain	19,075 111,509	213,766 99,808
Total	130,584	313,574
1890.		
Grain Other articles	16,899 127,401	* 245,932 81,901
Total		327,833
1891.		
Grain	6,805 47,510	* 220,527 96,682
Total	54,315	317,209

V.-Summary of Quantity of Freight passed down Welland Canal on which full Tolls were paid—Concluded.

•	Quantity passed down to Canadian Ports: Toronto, Hamilton, King- ston, Cornwall, &c.	United States Ports: Oswego, Ogdensburg, &c., on south side of
		Lake Ontario.
1892.	Tons.	Tons.
Grain	8,942 60,944	201,540 128,863
Total	69,886	330,403
1893.		
Grain Other articles.		222,958 170,790
Total	93,737	393,748
1894.		
Grain	† 16,699 63,982	‡ 203,979 169,091
Grand total	80,681	373,070
1895.		
Grain	32,096 79,850	133,823 113,212
Total	111,946	247,035

· RICHARD DEVLIN,

Compiler of Canal Statistics.

OTTAWA, November 18, 1896.

^{*} Of this quantity of grain 16,433 were transhipped to Montreal in 1890; and 17,817 in 1891.
† Of this quantity of grain 3,469 tons were transhipped from Kingston to Montreal in 1895.
‡ Of this quantity of grain 245 tons were transhipped from Ogdensburg to Montreal in 1895.
There was no rebate allowed of Welland Canal tolls on grain passed down to Montreal during the season of 1895.

CANAL REVENUE

CANAL

COMPARATIVE STATEMENT for years

<u></u>	Janua	ry.	Febru	ıary.	Ma	rch.	Apri	l.	May	•
	\$	cts.	\$	cts.	8	ets.	\$	cts.	8	cts
Welland Canal, 1894do 1895	84	1 00				10 00	11,124 6,983		27,769 28,483	
Increase Decrease		1 00				10 00	4,141	03	714	
St. Lawrence Canals, 1894			1			75	1,355 588	5 23 3 15	11,962 11,497	36 90
Increase Decrease						75	767	7 08	464	46
Chambly Canal, 1894do 1895						•••••		l 67 3 81	3,308 3,736	79 20
Increase							7	86	427	41
Rideau Canal, 1894do 1895		 		••••			76	 5 80	1,161 663	
Increase							76	6 80	497	58
Ottawa Canals, 1894 do 1895						• • • • • • • • •		58 3 82	6,202 5,919	
Increase								3 24	282	86
St. Peter's Canals, 1894do 1895		4 33 2 52				1 50		L 80	211	57
Increase		81				1 50	· · · · · · j	80	211	 57
Trent Valley Canals, 1894 do 1895								53 5 57		82 19
Increase							4	96	37	63
Murray Canal, 1894do 1895								5 07 7 83		58 38
Increase	•••••						27	24	5	20
Total, increase Total, decrease	95	5 81				12 25	4,819	93	357	84

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 18th November, 1896.

REVENUE. ended 31st December, 1894 and 1895.

Total.	December.	November.	October.	September.	August.	July.	June.
\$ c1	\$ ets.	\$ ets.	\$ ets.	* ets.	\$ ets.	\$ ets.	\$ cts.
159,891 19 138,873 0	2,414 14 1,349 24	13,887 54 13,220 03	21,551 61 13,783 13	18,645 67 17,080 89	21,801 35 19,547 05	19,813 54 17,125 12	22,789 22 21,300 41
21,018 1	1,064 90	667 51	7,768 48	1,564 78	2,254 30	2,688 42	1,488 81
81,864 5 78,164 8	490 76 172 62	6,415 97 7,801 99	11,212 49 9,610 42	• 10,043 17 9,929 21	12,227 60 13,266 32	14,728 85 12,517 14	13,427 32 12,781 05
3,699 7	318 14	1,386 02	1,602 07	113 96	1,038 72	2,211 71	646 27
21,197 4 25,929 6		1,398 45 1,955 35	3,784 31 3,916 14	2,638 31 4,395 10	2,621 22 3,852 81	$3,966 \ 07 \ 4,717 \ 02$	3,458 66 3,343 24
4,732 1		556 90	131 83	1,756 79	1,231 59	750 95	115 42
6,299 6 6,149 1		522 30 247 34	563 30 620 6 5	882 20 788 59	1,238 62 965 96	910 90 1,431 00	1,020 94 1,354 79
150 5		274 96	57 55	93 61	272 66	520 10	333 85
34,066 7 31,970 1		2,369 02 1,648 14	4,935 44 4,339 48	4,465 67 4,425 84	5,233 52 4,194 62	5,255 10 5,771 97	5,405 16 5,416 84
2,096 6		720 88	595 96	39 83	1,038 90	516 87	11 68
2,637 1 426 6	182 70 222 32	372 22 201 79	401 43	382 21	378 19	353 15	338 04
2,210 5	39 62	170 43	401 43	382 21	378 19	353 15	338 04
1,111 7 1,170 0		13 29 65 54	105 13 164 97	218 43 211 13	209 02 250 51	241 98 213 99	175 53 158 18
58 3		52 25	59 84	7 30	41 49	27 99	17 35
756 2 527 9	25 1 89	86 70 14 70	102 25 54 45	86 43 76 03	120 90 118 75	141 45 100 15	120 57 96 76
228 2	1 64	72 00	47 80	10 40	2 15	41 30	23 81
24,613 2	1,341 78	89 39	10,166 52	455 30	1,634 40	3,534 65	2,284 17

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COMPARATIVE S	

		-	VEC	V есетавсе F00d.	. (10			Гомвек.	Torat.
	FLOUR.	WHEAT.	CORN.	BARLEY.	OATS.	RYE.	Аг. Отнев.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Welland Canal, 1894.	33,628 44,041	270,993 203,088	169,233 164,894	28,353 8,689	27,962 18,236	567 1,007	60,673 46,463	88,546 45,760	679,955 532,181
Increase Decrease.	10,416	67,905	4,339	19,664	9,726	440	14,210	42,786	147,774
St. Lawrence Canals, 1894.	23,135 35,375	219,240 164,310	65,624 78,593	. 525	2,094 2,305	673 456	30,739 20,353	42,293 43,192	384,323 346,668
Increase. Decrease.	12,240	54,930	12,969	1,559	211	212	10,386	668	37,655
Chambly Canal, 1894. do 1895.	567 649			68	633 977	: :	1,321 878	64,765 92,241	67,354 94,761
Increase, Decrease	82			52	344		443	27,476	27,407
Rideau Canal, 1894.	427 385	1,346	98 14	111.	11 45	10	205 213	39,843 37,238	41,933 38,726
Increase	42	579	64	51	34	10	œ :	2,605	3,207
Ottawa Canals, 1894 do 1895	77 63		-	1.5	428 249	22	521 229	401,526 368,168	402,526 368,713
Increase	8		1	1	179	50	292	33,358	33,813

St. Peter's Canal, 1894do	2, 24 2 687							6,269	8,511 1,128
Increase. Decrease.	1,555							5,828	7,383
Trent Valley Canals, 1894	: :	201						1,870 2,712	$\frac{1,870}{2,913}$
Increase.		201						842	1,043
Murray Canal, 1894	228	698 261	e :	657 293	9	205 374	2,057 515	370 377	4,224
Increase. Decrease.	224	437		364	9	169	1,542	2	2,400
Total increase	20,953	123,650	8,564	18,471	9,322	362	28,865	55,353	203,782
			Total	Total for year 1894. do 1892.	94				1,590,696
DEPARTEMENT OF RAILWAYS AND CANALS, OTTAWA, 18th November, 1896					RICH	RICHARD DEVLIN	EVLIN, piler of C	DEVLIN, Compiler of Canal Statistics	istics.

APPENDIX A.

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ATEMENT showing the Quantity of each Article transported on the Welland Canal, and the Amount	Danie
STATEMENT	
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	U.p.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.				
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			1,140			46,316			1,140	46,381	1,140	92 00	9,276 20	57 00 1 20 9,276 20
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:≅	-	518	-: - -		187	16,442		276 49	202	18,236	18,236 286	30.08	1,824 20	
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452 5	: &	81,376				27,881		93,379	452	202,636	203,088	33 91	20,250 99	20,284 90 0 75
1,512	<u>: :</u>	2,321	352		51,593	1,536			53,457	1,536	1,536	7,835 05	307 20	307 20
. 9	<u>: :</u>	::	:83	: :		: :		:		:	- SE	89 9	80 0	92 9

No. (A) 1.—General Statement showing the Quantity of each Article transported, &c.—Concluded.

Total Amount of Tolls.		es cts.	371 44	8,174 46		310 48	81 36 16 50	13 78	9,626 48	12 80	100
Amount of Tolls, Down.		e cts.	370 76	8,146 47		310 48	74 48 16 50	13 78	9,626 48	· · · · · · · · · · · · · · · · · · ·	
Amount of Tolls, Up.		es cts.	89 :	27 99			9			12 80	
Total Tons.			7,836	45,760		1,942	1,860		64,215	: %	
Tons.	Down.		7,755	45,513		1,942	1,713		64,215		
Ĕ	Up.		56	247			147				
From United States to Canadian Ports.	Down.			1,195				19	63,354		İ
From United State to Canadian Ports.	Up.										
From United States to United States Ports.	Down.	•		41,974		446			200		
Fr United United Pol	Up.										
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From Canadian to Canadian Ports.	Up.			146							-
Articles.			essels	Hop poles. Lumber, sawn, in vessels.	s and essels		do rafts Saw-logsStaves and headings, barrel	Staves, salt barrel. Shingles Split posts and fence rails,	Split posts and fence rails, in raths. Timber, square, in vessels.	Traverses Woodenware and wood partly manufactured	

138,873 01			rents	Total revenue, exclusive of hydraulic rents.	clusive o	venue, ex	Total re							
59 37									Other receipts	Other				
138,7		48,805 33				Total tolls.	Total to	:	Fines	Fines				
			\$1,583.25	:		:	:	free goods	do f	Ü				
9 16,381 04 5 390 33	8,146 09 200 05	8,234 95 190 28						Total tolls on vessels	tolls on v lo p	Total				
		•	869,595	635,712	233,883	271,375	1,565	262,585	4,126 214,520		12,470	97,626	5,328	Grand total freight
			1,268		1,268						1,074		194	Merchandise
					- 1- 9					: :	Ç [-		Ñ :	white lead.
			396 396		1,43 396 396				QCX · · ·		1,162		E 60	Sugar
			# 88°		28.3	: :	::		: :		528			Steel
			83		25						8		:	Seeds, all kinds
			67	:	939	:					67.	:		Pitch and tar
			75	:::	75			: :			3 2		20 00	Onls. Paint
			1,149		1,149					: :	19 1,147		2 2 2	Molasses
			1,001		1,001			: :			1,812			do all other.
			328		828	: :		: :			88		: :	fron, pig
			22.5		122						124			Glass, all kinds Hay
			\ \	:	12	:	:				1100	:		Crockery and earthenware.
			1,859	, ; ;	1,859						1.844		15	BricksCement and water lime
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RTMENT OF RAILWAYS AND CANALS, OTTAWA, 18th November, 1896.

Compiler of Canal Statistics.

APPENDIX A-Continued.

Articles.	Fro Cana ta Cana Por	From Canadian to Canadian Ports.	Fr Cans United Po	From Canadian to United States Ports.	Fre United United Pol	From United States to United States Ports.	From United States to Canadian Ports.	From ited States to Canadian Ports.	Tons.	ž	Total Tons.	Amount of Tolls, Up.	Amount of Tolls, Down.	Total Amount of Tolls.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.				
									17 -7-1			cts.	es.	es cts.
Ashes, pot and pearlApples		- R :	: :		8 :			2 88	æ :	2.8	88 88	5 70	e e 68	15 50 5 60
Agricultural products not en- umerated, vegetables Agricultural products not en		:	<u> </u>		:	:	:	:	ဇာ		က	GF 0	:	0 45
Goumerated, animals. Agricultural implements. Barley. Bricks.		785	: : :		76	7,904		651	77	8,689	8,689 651	11 55	868 90 130 20	211 268 368 30 130 20
Brimstone		: :			672	: :	: :	: ;	672		672	100.80		100.80
Buckwheat. Cement and water lime Clay, lime and sand. Coal. Coal.		280			148,887	603	1,565	7,807	1 174 150,452	8,412 164,890	174 174 158,864 164,890	0 15 26 10 30,090 40	1,682 40 16,489 00	0 15 26 10 31,772 80 16,489 00
Cotton (raw). Crockery and earthenware.			: ग		: S3				8		- 8i - :	4 35		4 35
Lye wood and dye seems. Fish. Flax and hemp. Flour. Furmiture			4 : 4		508	10,169		32,836	208	43,005	208 43,005 18	31 20	8,601 00	31 20 8,601 00 3 40
Gypsum. Glass (all kinds). Hay (pressed)	-		: 83 33 33 33					: :	: es &		:	0 45 4 95	0.50	
Hogs Horses Hides and skins, horns and		: :			: : 8			: CN	: : {	- RN - S	67		0+ 0	0 40

2,073 36 20 36 20 411 108 45 677 60 786 05	57	9,276 20 9,276 6 00 6		30 90 15 40 46	87 17 40 17 40 21 2 85 0 40 3 25 31 4 65 0 40 4 65	1 20 7 20 86 00	3,096 309 60 309 60 2 80 2 80	21 3 15 3 15 873 4 05 171 20 175 25 874 6 171 20 175 25 856 98 40 40 00 138 40 16 98 40 40 00 138 40 40 6 00 3 20 3 20 3 20 40 6 00 6 00 6 00	20,189 80 20,	1,536 307 20 307 20 61,531 7,800 75 1,903 20 9,703 95
2,073 2,073 3,388 4	: T	46,381 46,30		18,219	82.2		41	856 59 6, 200 16	୍ଷ :	1,536 1, 9,516 61,
723	1,140		£2381	902	119	80	3,096	6,651 6,651 656 696 696		52,005
2,073	: : : :	. 65	: :00	276	67 :	8.6			93,378	684
· · · · · · · · · · · · · · · · · · ·	- · · · · · · · · · · · · · · · · · · ·									
214	: :	46,316		16,442			14.	15	27,881	1,536
35			\$ 83 88 5 83 88	187	123		3,096	6,621	: : : :	51,593
	· : :									
290	1,140			2 2	9 1 9			288± :4		312
				1,501					80,639	1,176
10#								10 1	. 10	100
	Kryolite chemical ore and other ore, except iron	on		Nalls. Oats Oil (in barrels) Oil cake		itended for cutting.	not suitable for cutting, rought	Soda ash. Steel. Sugar. Shurits, beer, &c. Tobacco (raw) Tallow.		ds and merchan- umerated.

No. (A) 2.—General Statement showing the Quantity of each Article of Through Freight transported on the Welland Canal, &c.—Concluded.

Amount of Total Of Tolls, Amount of Tolls, Tolls.		cts.	8,077 17 8,088 09	310 48 310 48	13 50 13 50	9,626 48 9,626 48	80.828 91 121.025 66
Amount Ar of of Tolls, Up.		ee :::	10 92			6 .	12 80
Total Tons.			44,956	1,912	110	64,215	32
· ai	Down.		44,895	1,942	61	64,215	621.926
Tons.	Пр		61				32 32 219 545
From United States to Canadian Ports.	Down.		1,195		10	63,354	
Fr United	Up.						1.00
From United States to United States Ports.	Down.		41,974	446		200	262.585
Fr United Po	Up.						31
From Canadian to United States Ports.	Down.		1,312	1,496			808
Fr Cans United Po	Up.		66 : 				9.973
From Sanadian to to Sanadian Ports.	Down.		414			361	85.161
Fr Can Can Can Por	Up.		3:				1 442
Articles.		Floats Fireword, in vessels. do rafts	Hoope. Hop poles. Lumber, sawn, in vessels. Maste, spars, and telegraph	Mate, pars, and telegraph poles, in rafts. Railway ties, in vessels. Saw-logs. Staves and headings, harrel	do do pipe	Timber, square, in vessels	Traverses Woodenware and wood partly manufactured Total freight raving tolls

Articles having paid full tolls on the St. Lawrence Canals, free:—Agricultural products, vege-												-		
table.			88			- · ·			83		88			
Cement and water lime.	12		1,844	:	:	:	:	:	1,859	:	1,859	-		
Glass, all kinds	16-		382						36		68			
Hides, skins, &c.			8,8						2 8		27 S			
Iron pig.	<u> </u>		529						925		128 5			
Lard and lard oil	3 :		1,014				: :		1,001	<u>:</u> :	1,001			
Molasses	=	:	61,	:	• <u>•</u>	:	:		ଛ	. : . : : :	8			
Oils	N 69	:	1,147	:	: ::	<u>:</u>	:	:	1,149	:	1,149			
Paint	က	: :	12			- -			35		32			
Pitch and tar		:	67	:	: :	:	:	:	961	:	67			
ds. all kinds	5		 2 2	:			:	:	20.0	:	952 252			
la ash	က	:	8	:	:			:	25	:	2			
Sugar		:	1 58	:		: :	:	:	88.5	:	228			
Tin			388		3			: :	366		396			
Whiskey, &c	<u>~</u>	:	121	:	:		:	:	13	:	22			
Whiting		: :	113	: :					- 62	:	113			
Merchandise	194		1,074		:				1,268		1,268			
Grand total freight	1,797	85,161	12,218	2,808	214,520	262,585	1,565	271,372	230,100	621,926	852,026			
				Tots	l tons on do do	Total tons on vessels do passengers do free goods	£ 22				\$1,583 25	7,992 80 23 30	7,830 08	15,822 88 56 80
							Total th	Total through tolls.	lls		48	48,212 85	88,692 49	136,905 34
						-					-		•	

RICHARD DEVLIN, Compiler of Canal Statistics.

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 18th November, 1896.

APPENDIX A-Continued.

Articles,	Fr Cans Cans Po	From Canadian to Canadian Ports.	Fr Cana ta United Por	From Canadian to United States Ports.	From United St to United St Ports.	From United States to United States Ports.	Fr United t Cana Por	From United States to Canadian Ports.	Tons.	ns.	Total Tons.	Amount of Tolls, Up.	Amount of Tolls, Down.	Total Amount of Tolls.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.				
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s												66	es cts.	s cts.
Ashes, pot and pearl Apples	25 24	58		400					14	26	2 4 64	0 72	20 00	0 94 1 37 20 00
enumerateu, annua. Agricultural implements. Barley Bricks Bones.									72		72	8 11		8 11
Brinstone Buckwheat. Clay, lime and sand. Coal. Coal.			68						326 100		326 326 350	27 66	12 50 0 25 0 10	27 66 17 50 0 25 0 10
Cotton, raw Crockery and earthenware Dye wood and dye stuffs.														
Flax and hemp Flour Furniture Gypsum	149	890							149	890	1,039	2.80	74 76 0 25	77 56 0 25
Glass, all kinds Hay, pressed Hogs														

Hides and skins, horns and hoofs	:	<u>:</u>	:	:	:	:	:	:	:		- :		<u>:</u> :	:
	17.								474	: : : : : : : : : :	 471 	0 32		0 08 0 32 0 84
Kryolite chemical ore and other ore, except iron														
	* : :													
	23								29	17	-87	0 02		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Oil, in barrels.	-	: : :						87	=	27	m :	0 0 0	0 31	
Pease Potatoes Potatoes Potatoes Potatoes	41								14		41	1 05		1 05
									101		<u>: :</u> • : : : : : : : : : : : : : : : : : : :	61.0		0 19
Stone intended for cutting do wrought do not suitable for cutting, unwrought	84								489		488	30 51		30 51
									38		::::::::::::::::::::::::::::::::::::::	0 48		0 06
	11 452	737						F	11 462	738	1,190	33 91	61 19	95 10
Whiting Wool. All other goods and merchan- dise not enumerated	1,412	1,145	40						1,452	1,145	2,597		68	

101

												_		
Articles.	Fr Cans Cans Po	From Canadian to Canadian Ports.	Fron Canad to United S	From Canadian to United States Ports.	From United St to United St Ports.	From United States to United States Ports.	Fr United k Cans Poi	From United States to Canadian Ports.	Tons.	ns.	Total Tons.	Amount of Tolls, Up.	Amount of Tolls, Down.	Total Amount of Tolls.
•	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.				
												s cts.	e cts.	e cts.
BarkBarrels, empty		: :	: :		::							::		
Boat knees Floats Firewood, in vessels		7,755	81						81	7,755	988'1	89 0	370 76	371 44
les.		819	42						186	618	804	17 07	69	86 37
do do rafts			:	:	:	:	:	:	:	:		:		:
Masts, spars, and telegraph poles, in rafts														
Kaliway ties, in vessels do rafts. Saw-logs	147	1,008		705					147	1,713	1,860	88 9	74 48	81 36
do W. India.						: ; :								
Staves, salt barrel. Shingles. Split posts and fence rails, in		-								:	:		0.28	0 28
Split posts and fence rails, in rafts					: :					: :				
Timber, square, in vessels do rafts				:-		: :				-	-		0 57	0 57
Woodenware and wood partly manufactured.														
Total freight paying tolls.	3,531	12,465	252	1,318		:		က	3,783	13,786	17,569	183 35	733 26	916 61

102

558 16 333 53	808,
316 01 166 55	1,215 82
	592 48
l way tolls on vessels do passengers	Total way tolls

RICHARD DEVLIN, Compiler of Canal Statistics.

Department of Railways and Canals, Ottawa, 18th November, 1896.

APPENDIX A-Continued.

No. (A) 4.—General Statement showing the Quantity of each Article transported on the St. Lawrence Canals, and the Amount of Revenue collected during the Season of Navigation in 1895.

	Total Amount of Tolls.		& cts.	6 40 292 33	253 66					26,129 33 533 35 14 84		138 138 138 138 138 138			
	Amount of Tolls,		& cts.	6 40 292 13	90 43		112 18 6 75			26,128 80 532 85 12 20	1 60	377 06 95 15	o & & c o & & c o ∨ & & c	23 07 0 40	
-	Amount of Tolls, Up.		s cts.	88 00	163 23	4 49	0 10 274 27	79 82	0 84 933 27 735 26	0 53 0 50 2 64	22 6	8 24 24 8 8 8 8 8 8	425. 425.	. 25 . w	
	Total Tons.			33 2,097	3,867	1,753	1,125 7,088			187,527 8,358 200	135	4,511 965	1,222 1,390 1,390	2,271	
	Tons.	Down.		32 2,095	609	1,674	<u>–</u>			187,513 8,351 162		်က :	104 571 13		
0	To	Up.		-62	3,258	79	6,978	817	32 8,689 18,742	14.7.88	127.	246 255 255 255	2,135 1,118 819 1	1,891	
	om States odian ts.	Down.			:	:	: : :	ه		3,585				. :	
	From United States to Canadian Ports.	Up.			:	13	296								
0	From United States to United States Ports.	Down.				:	: :%			587		, ; ; ;			
0	From United St. to United St. Ports.	Up.				:				1 <u>4</u>					
	rom adian to I States orts.	Down.			:	306		313							
	From Canadian to United States	Up.		T :	88	:	18	- ::::::::::::::::::::::::::::::::::::	1,665		10	1 : : :	571	 	
	From snadian to snadian Ports.	Down.		2,095	609	1,368	1,124	:		45,748 4,766 162	:00.4.2	3,765	104	379	
	From Canadian to Canadian Ports,	цр		:69	3,219	67	6,364	817	7,024	38.7	117	25 78 18 18 18 18 18 18 18 18 18 18 18 18 18	2, 193 621 1	1,891	
	Articles.			Ashes, pot and pearl	Agricultural products not enu- merated, vegetable	Agricultural products not enu- merated, animal.	Barley. Bricks.	Brimstone	BuckwheatCement and water lime	Octob Corn Corn Cattle	Cotton (raw) Crockery and earthenware Dye wood and dye stuffs	Flax and hemp. Flour. Furniture.	Gypsum Glass (all kinds) Hay (pressed).	Horses Hides and skins, horns and hoofs	

	40.0	:			:	•	:	:		:	3 6		:	•	
pigall other.	363	1,354	155 1,919	: : : : : :		: : : :	: :		. 19,124	1,354	20,478	1,245 58	• • •	:8	er 48 1,311 91
Kryolite chemical ore and	:		:	:	: : :	:	:	:	<u>:</u>		:		:	:	:
other ore, except iron	06	946	:	:	:	:	:			:	266		:		
rinds	14.	1,449	જ						169		1,614		67	19	
Meats, other than pork	क्ष	6	- ` :			:	: :: -	:	등 		37			_	
Marble	<u> </u>	Ç			:	:	:	:			55	18 S	:	. •	
Mennika	986	79		:		:	066	:	. 689		724			•	•
: : : : : : : : :	26.5	145	35		:	:	9				2.593		38	2	
Oats	3.5	3 5	7								651				
Oil (in barrels)	677	214	67				43		787		1.008				_
Oil cake	21	13					1 :	:			32			_	_
Pease		16.509						:		_	16,509				
Potatoes	9	8							•		9				-
Pork .	182	164							185		346			_	
	215	949	. g	:		:			8		253			-	-
100	-	2	35			:	18,				431			_	_
Deces	211	5 6	-	:	:	:	5	:			121				
Dags	717	777	-	:		:	:	:	.		101				
	:	90	•	:	:	:	:	:	:		007		‡	•	-
		36	:	:	:	:	1 005	:	1 0.67	:	9.003		:		16 761
Positi.	107	88	0.00		:		1,906	:	1,30		0,000		- 6	8 6	
Salt.	00,7	33	818		:	CT	:	:			07)'6	20 704		-	
Jone Intended for cutoing	00	:	:	:	:	<u>:</u>				:	609	-	3.0	. 6	
do wrought	017	*	:	:	:	:	.) #	: :_	<u> </u>		760	-			
suitable for cutting,	46	9 197							46		9 183	_			_
Soods all binds	2 2	6,10 60 60 60 60 60 60 60 60 60 60 60 60 60	. 6	:		:		:			157	13.69			-
	3	244	3			:		:			944		2	42	-
Soda pah	74	67	234						32.2		791	•			-
Stoel	1 999	12	266						1 750		1 893				-
	000	1	250			: :	1 810		120		5,149				
Committee boom from	90.	103	6			: : :	-	:	306		102	_			•
or, co	3	90	5	: : :	:	<u>:</u> : :	:	:			3				
Totalous	5	3	:		:	:		:	. 71		1				
Latiow	007	9	: 16		:	:	•	:	192	:	767	_	: :_		_
	0.0	=	3		:	:	<u>:</u> :-	:	-		217	-			•
Turpentine	0 0	9 001	:	:	:	:	:	6100			# C02		4 6	38	
W heat.	3 6	2,001			:	:	:	Ą			0,00,0	01 ±	•		5 4 5
White lead	2 }		= 2	:	:	:	:	:		:	5 5			: 1	
w niting	120	•	10.	:	:	<u>:</u> ::	:	:			120			3	-
Wool	:	-	12	:	:	:	:	:	-	: : :	12	_	:	<u> </u>	•
goods and merchan-	2010	0 050	1 107		969	906	759				11 876	_			•
dise not enumerated	, 100 A	200,7	1,101	:	3			<u>-</u>	4	2,0	44,010	66.0	3	2	1,10 1,68 1,88
Dark	* 9	:		:::::::::::::::::::::::::::::::::::::::	:	:	:	:	-	:	H 6		:		
							_	_	1769				_	í	

No. (A) 4.—Statement showing the Quantity of each Article transported on the St. Lawrence Canals, etc.—Concluded.

Amount Total of Tolls. Down.		& cts.	73 24 139 39 224 05 241 75	1,351 91 1,984 92 5 25 5 5 25	537 55 537 55 5 53 55 55 55 55 55 55 55 55 55 55 55 55	199 98 277 64	0 24 0 24	0.20 0.20	16 46 9 00 9 25 156 28 158 03 20 65 20 65	1 90 20 50	94 79 42,329 84
Amount Amo of Tolls, Up. Dor		e cts.	66 15 2	633 01 1,3	5 35	77 66 1			16 46 0 25 1 75	18 60	9,035 05 33,294 79
Total Ar Tons. Tol			7,539	41,836	21,502 268	12,128		:-	720 660 6,031 8,192	65	455,911 9
Tons.	Down.		4,184	20,636	21,502	8,751	: : F	-	5,961 8,192		7,714 146,848 125,819 330,092
Ĭ	Up.		3,355	21,200	268	3,337		:	720 10 70	09	125,819
m States lian Es.	Down.									:	146,848
From United States to Canadian Ports.	Up.							:		:	7,714
From United States to United States Ports.	Down.						: : : :				922
From United States to United States Ports.	Up.	,									279
om dian States ts.	Down.										1,102
From Canadian to United States Ports.	Up.			1,304				:			11,989
m dian dian ts.	Down.		4,184 9,633	20,153	21,502	8,751			5,961 29,961	20	181,220
From Canadian to Canadian Ports.	Up.		3,355	19,896	268	3,377			720 10 70	. 8	105,837
Articles.	,		Floats Firewood, in vessels.		poles, in vessels Masts, spars and telegraph poles, in rafts Railway ties, in vessels	do rafts Saw logs Staves and headings, barrel	do pipe do W.India Staves, salt barrel. Shingles	Split posts and fence rails, in vessels.	rafts	Woodenware and wood partly manufactured	Total freight paying tolls. 105,837

tolls on the Welland Cand: Ashes, pot and pear		828						16		\$8	28 28			
empty		959 60,122 23,382						10,113		959 1 70,235 30,916	959 1 70,235 30,916	,		
(in vessels)		307 1,117 25 14						1,459 1,459 1,459		1,766 1,766 1,117 65 558	1,766 1,766 1,117 65 558			
	: : : : : : : : : : : : : : : : : : :	1,654						<u>e</u> :9		1,654	1,654			
Paint Steel Whiskey, and all other spirits Coal, free, per Order in Council Strictes free for canal construction, Order in Council,	68,172	394 35 148, 425	280				36,124	2 66 10,218	104,876	2 394 101 158,643	2 394 101 158,643 104,876			
O 1804:— Merchandise, not enumerated Lumber, sawn (in vessels) Square timber, in rafts	600 100 100 100 100 100 100 100 100 100	& : : :							40 100 600	8	66 60 60 60 60 60			
Grand total, freight	174,771	417,747	12,569	1,102	279	922	43,838	177,000	231,457	596,771	828,228			
					Total toll do do	s on s	ressels				\$33,927 98	9,240 02 590 97	6,797	16,037 10 2,776 72
					Total tolls Fines *Damages Wharfage and Other receipts	Total tolls	Total tolls Fines **Tomages Wharfage and storage Other receipts					18,866 04	42,277 62	61, 143 66 130 00 2,801 06 14,090 08
						Total	Total Revenue exclusive of hydraulic rents.	exclusiv	e of hydr	aulic rent				78,164 80

RICHARD DEVLIN, Compiler of Canal Statistics,

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 18th November, 1896.

APPENDIX A-Continued.

No. (A) 5.—Generat Stat Canal	Stare Canals	EMENT shis, and the	showing the Amo	the Quant of	antity Folls co	of each	during	showing the Quantity of each Article of Through the Amount of Tolls collected during the Scason of	rough	Freight transported Navigation in 1895	transpor on in 18	Freight transported on the St. Lawrence Navigation in 1895.	ie St. La	vrence
Articles	Fre Cana th Cana Po	From Canadian to Canadian Ports.	From Canadia to United St Ports.	From Canadian to United States Ports.	Fr. United United Po	From United States to United States Ports.	Fr United t Cans	From United States to Canadian Ports,	Tons.	ns.	Total Tons.	Amount of Tolls, Up.	Amount of Tolls, Down.	Total Amount of Tolls.
	Up.	Down.	Up.	Бомп.	Up.	Down.	Up.	Down.	Up.	Down.				
												e cts.	.⇔ cts.	\$ cts.
Ashes, pot and pearl	:	888	-		:		:	:	_	32	8 3	0 20	6 40	6 60
Agricultural products not enu- merated, vegetable.	313	009	8						352	009	952	52 80		142 80
Agricultural products not enu- merated, animal.	:	1,088	:		:		:	:		1,088	1,088	:	163 20	
Agricultural implements Barley. Bricks	: :18	1,121	18						73	1,121	1,121	10 95		112 10 11 40
Bones.	: 67	58	:		:	:	:	ಣ	. 27	919	9	0.45	9 15	
Buckwheat. Cement and water lime	9.480	699	1.593						4.073	699	669	610 95	06 99	
Clay, lime and sand.	58	3						122,218	98	501 165,151	527 165,151	3 90	75 15 24,772 65	79 05 24,772 65
Cattle		2,0 <u>29</u> 12	: :	: :				1,487		3,516 12	3,516 13	0 15	321 1 26 1 26	
Cotton (raw)	39	: oc c	. 10						49	: 00 G	52	08 6 6 6		
Fight.	123	:	-						9.9	· :	328	949		
Flat. Flour. Flour. Furniture. Furniture.	388	2,039							188	2,039 367	2,069 495	. 4 % . 8 %	305 85 73 40	310 35 99 00
Glass (all kinds)	464	. 63	571 198						1,035	. cq :	1,037	207 00		207 40
Horsen.	15	4 €		: :				:	15	48	4.74	2 25	6 8	0 60 7 05
Hides and skins, norns and hoofs		:	8		:	-:		:	58		26	3 30		3 90

108

do pig. do all other.	2,362	111	155					28.83 18.	:: :::::::::::::::::::::::::::::::::::	23 4 4,392	35 10 642 15	<u>:</u> :	16 65	: 558 : 558
: ਰੂ		2889	::&				: . : :	:5° 03 :	: 88°	2999 290	1 35	:	. 870 0 94 0 96 0 1	: 400
an pork	3 627	466	1.061				1,6	39		39 1,697 516	0 60 7 80 337 60 76 80	246	: :899	339 7 68 103 103
		6,145	5 : :			::		:	3,145	6,145		616		616
	152		69				: : 5N : : : : : : : : : : : : : : : : :	221 97 24	. 88 10 8 8 8 44 	28. 105 105 446			212114 98838	212 946 94 6
GFlax seed Rosin Sali Sali intended for cutting	445		918					. 4. 68 co		1,363	0 80 204 45 0 45	0.000		8
do wrought do not suitable for cutting, unwrought.		353	32:					: : : :8	353	93			28 1 05 •	88 83
Sheep Soda ash Skeel Sugar Surjats, beer, &c.	525 1,121 1,125	75	234 528 1,256				: : : : : : : : : : : : : : : : : : :	759 349 381	92	759 1,649 2,381 212			12 00	151 247 476 42
Tobacco (raw). Tallow. Tin Turnentine. Turpentine.	310	2,722	377			2,043	:	687 543 62	4,765	687 5,308 62	137 40 0 60 0 60 12 40		476 50	0 137 0 557 122
White lead Whiting Wol All other goods and mer- chandise not enumerated	461	1,544	1,187			:::::::::::::::::::::::::::::::::::::::	27 4,0	.,063 	1,571	552 12 5,634		:	4	1,126 0

(A) 5.—General Statement showing the Quantity of each Article of Through Freight transported on the St. Luwrence Canals, &c.—Concluded.

Articles.	Fr Can t Cans	From Canadian to Canadian Ports.	From Canadian to United States Ports.		Fr United United Po	From United States to United States Ports.		From United States to Canadian Ports.	Ţ	Tons.	Total Tons.	Amount	Amount of Tolls,	Total Amount of
	Up.	Домп.	Up.	own.	Up.	Down.	12	Down.	Up.	Down.		Lous, Op.		
												ee cts.	es cts.	& cts.
Boat knees	:	:		:		:				:	•	:		:
Firewood, in vessels Hoose		689								930	089		42 00	42 06
Hop poles.	19.4	11.049	1 904						067		10.401	06 001		1 100 90
do rafts Masts, spars and telegraph									} : : : :	<u>'</u>	:	<u>:</u>	:	<u> </u>
poles, in vessels. Masts, spars and telegraph		:-		:		<u>:</u>	: : : 	:	:	: : : : :	:	:	:	:
poles, in raftsRailway ties in vessels	:		:	:		- - -	:	:		:		:		:
do rafts														
Saw-logs Staves and headings, parrel		:	:	:	:	:	:	-	:	:	:	:	:	:
do pipe														
Staves, salt barrel														
Split posts and fence rails, in	:	:		:		:			:	:		:		:
Vessels. Split posts and fence rails, in		:	:	:		<u>:</u>	:	:	:	:	:	:	:	:
		200								20.20	280			1 00
Woodenware and wood partly manufactured	: # :	: T								. 4	: 88 : :	13 60	1 60	15 20
Total funiable mains tolla	1000	8	1					100	1	000 000	100 000	200 000 000 000 000 000 000 000 000 000		100

		90 11,035 96 1,521 75	8 46,158 97
		5,387	35,621 28
4	-	5,648 06 261 90	10,537 69
34, 25, 25, 25, 25, 25, 25, 25, 25, 25, 25	394 394 101 158,643 496,944	\$28,389 28	
34 959 959 70,235 30,916 711,17 65 65 100 100	156		
	27,209		ıgh tolls.
16 10,113 7,534 7,534 1,459 1,459 73	66 10,218 155,938		Total through tolls.
		Total tolls on vessels do passengers . do free goods	L
		otal tolls do do	
		H	
	716,		
88 88 88 88 88 88 88 88 88 88 88 88 88			
	313,		
	15,2		
Free articles having paid jull tooks on the Welland! Canal: Mill with the Welland! Canal: Ashes, pot and pearl. Apples. Barley. Barley. Barley. Barley. Barley. Corn. Flour Flour Horses. I amber, sawn, in vessels. Meals, all kinds. Merchandise, not enumerated Molasses.	Oils Paint Steel Whisky and oil other spirits. Wheat Grand total freight.		

RICHARD DEVLIN,
Compiler of Canal Statistics.

Department of Railways and Canals. Ottawa, 18th November, 1896.

APPENDIX A-Continued.

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Way	Leon C
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howing	Amount
ENERAL STATEMENT showing the Quantity of each Article of Way Freight transported on the St. Lawrence Canaly	and the
A) 6.—GENERAL	
No. (•

	S S	the A	mount	nd the Amount of Tolls collected during the Season of	collect	od darm	ng the	Soason		Mavigation in	in 1899.			
Articles.	Can Can Po	From Sanadian to Sanadian Ports.	Fr Can United	From Canadian to United States Ports.	Fr United United Poi	From United States to United States Ports.	Fr United ta Cana Por	From United States to Canadian Ports.	Tons.	ns.	Total Tons.	Amount of Tolls, Up.	Amount of Tolls, Down.	Total Amount of Tolls.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.				
												e cts.	& cts.	& cts.
Ashes, pot and pearl	: •	77.0	:		:	:	:	:	- G		00%	06 0	14 93	15 13
Aprieultural products not	7 00	•	:	:	:	:	:	:	9 50		0.00	•		110 00
A conjusted, vegetable	2,300		:	:	:	:	:		2,300	9	2,310	011	C# O	110 00
d, animal	19			306	:		12		73	586	665	4.	48 66	
Agricultural implements Barley	70			: :				: :	7	100	0.4	-0	0	
Bricks	6,30		:	213	:	fe	296		6,905	107	7,012			
Brimstone	814	:		010					814	:	814	2.0		
Buckwheat	33	:							32	က်	3,261	0	8	
Cement and water lime	4,54		22	:	: °	:		:	4,616		4,719	322	7 %	
Clay, time and sand	1,000				7 11	587	17)(7	18,960	16,610		22,376	0	1,356	
Corn Cattile	37	2,737						2,098	37.7	4,835 150	4,842	0 2 4 9	181 25 10 40	181 75 12 89
Cotton, raw.	: :	:			:	:	:		101	:		. C		
Crockery and earthenware	<u> </u>	:	:	:	:	:	14		3.0	:	3.0	363		38
Fish.	311	31					:		311	31	342	15	1 82	
Flax and hemp	716	:	: :		: :				716	1,726	2,442	49	71 21	
Furniture	127		:				:		127		470	17		
Gypsum	2,193			:	:	:		:	2,193		2, 195 185	77.		
Hay, pressed	474								474		1,045	83		
Hogs	1.876	348	:						$\frac{1}{1.876}$. %	2, 224	37 73 10	18 27	91 91 37
Hides and skins, horns and											, ,			

0 83 9 28 603 43 49	2 2 2 8 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9	63 85 42 96 1 1 46 2 35 03	17. 15. 15. 15.	124 61 203 17 0 37 35 52	0 90 0 79 83 83	234 933 4 4 2 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 55	436 09 144 28
13 289 16,086		12 695 896 185 492 492	9.4.32.88.92.1	1,999 2,355 693	.8.1 .9.44	2,74 2,761 289 5 5 112 80 80		5,942
1,243	1,413	636 636 135 83 83 83 83 83 83 83 83 83 83 83 83 83	4					1,696
13 254 14,843	11 145 255 21	646 260 50 50 403 21	182 182 64 247 86	1,963 2,305 5 688	46 11 19	2,684 261 261 3 123 3	22.	4,246
								4,
		329	1160	1,805	.ee : .	1,810		753
				15				286
								263
1,243	225	12 63 63 63 63 63 63 63 63 63 63 63 63 63	239 239 10 10			228 288 6 14	: :	1,406
13 284 14,843	11 145 25 25	317 260 50 360 212	182 182 63 78 87 87	2,305 2,305 2,305 213	8 8 119	261 261 10 10 10 261	22	3,230
	chemical, except and oil. inds		Potatoes Port Paint Paint Rags	Sale intended for cutting.	unwrought. Seeds, all kinds Sheep. Sola ash.	Steel. Sugar Sluits, beer, &c. Tobacco, raw Trallow Tin	Wheat. White lead. Whiting Wool	All other goods and merchandise not enumerated

No. (A) 6.—General Statement showing the Quantity of each Article of Way Freight transported on the St. Lawrence Canals—Concluded.

Total Amount of Tolls.		\$ cts. 139 39 199 75	862 62 5 25	537 55 5 35	277 64	0 20	8 152 20	5 30 8,728 58
Amount of Tolls, Down.		\$ cts. 73 24 182 05	358 nl 5 25	537 55	199 98	0 24	8 00 150 60 20 65	0 30
Amount of Tolls, Up.		\$ cts. 66 15 17 70	503 71	5 35	99 11	16 46	0 25 1 75	5 00
Total Tons.		7,539	29,355	21,502	12,128	1 1 1 220	640 5,974 8,192	225,626
š	Down.	4,184 9,003	9,593	21,502	8,751	- Н	630 5,904 8,192	26 98,610 127,016
Tons.	Up.	3,355	19,762	268	3,377	720	10 70	26 98,610
From United States to Canadian Ports.	Down.						: : :	21,062
Fr United Cans Po	Up.							7,714
From United States to United States Ports.	Down.							922
Fr United United Po	Up.							27.9
From Canadian to United States Ports.	Down.		483					1,102
Fr Cans t United Po	Up.							72
From anadian to anadian Ports.	Down.	4,184 9,003	9,110	21,502	8,751	: :=== : : :	630 5,904 8,192	90,545 103,930
Fr Cans Cans Po	Up.	3,355 1,062	19,762	268	3,377	720	0102	Į.
Articles.		Floats Firewood, in vessels do rafts.	Hop poles Lumber, sawn, in vessels. do rafts. Tal Masts, spars and telegraph	Marts, in vessels poles, in rafts. Railway ties, in vessels.	Stw-logs Staves and headings, barrel do pipe.	do W.India Staves, salt barrel. Shingles Split posts and fence rails, in vessels and fence rails, in Snlit posts and fence rails.	rafts. Timber, square, in vessels do Traverses Woodonwassend wood narthr	manufactured

Coal, free, per Order in Council. 68, 172			580	::	<u>:</u>			36,124 104,876	104,876	:	104,876			
Free articles for canal construction, O.C., 1884:														
Merchandise not enumerated. Lumber, snwn, in vessels do rafts Square timber, in rafts	000 22 40	28	20						100 100 600	22 22 00 00 00	60 100 600			
Freight, grand total	159,479	103,950	652	1,102	279	355	43,838	21,062	21,062 204,248 127,036	127,036	331,284			
					Tot	al way tol	lls on ves pass free	vessels passengers free goods			Total way tolls on vessels do passengers \$5,538 00	3,591 96 329 07	1,409 18	1,409 18 5,001 14 925 90 1,254 97
						ũ	tal way t	olls			Total way tolls	8,328 35	6,656 34	14,984 69

RICHARD DEVLIN,
Compiler of Cunal Statistics.

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 18th November, 1896.

APPENDIX A-Continued.

No. (A) 7.—General Statement showing the Quantity of each Article transported on the Ottawa Canals, and the Amount of Revenue collected during the Scason of Navigation in 1895.

Articles.	Fr Cans Cans Pol	From Canadian to Canadian Ports.	From Canadian to United States Ports.	m dian States ts.	From United St. to United St. Ports.	From United States to United States Ports.	Fr United t Cans	From United States to Canadian Ports.	Tons.	ns.	Total Tons.	Amount of Tolls.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		
Ashes, pot and pearl Apples Agricultural products, not enumerated, vegetable Agricultural products, not enumerated, animal Agricultural implements OBuckwheat		16 17 35 1,430 10 10							8	16 17 35 1,430 10	1,432 10 10 10 10	\$ cts 3 04 1 02 2 33 1 26 04 1 50 0 06 0 06
Bricks Bones		9								9	9	09 0
Brimstone Cement and water lime Clay, lime and sand Coal Corn Coal Corn	2	4,287 140 140 405							<i>L</i>	4,287 140 1 405	4,287 140 140 1 412	0 20 113 53 7 59 0 10 31 87
Cotton, raw Cockery and earthenware Dye wood and dye stuffs. Fish Flax and hemp Flux remover the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the first from the											 8 8 8 15 15 15	0 19 0 26 0 26 0 18 0 18 5 96
(Appsum. (Glass, all kinds Hay, pressed Hogs Hogs Hoges Hides and skins, horns and hoofs	20.	963 142 112		88					40	1,044 24 142 112	1,084 1,084 162 1102	0 76 103 76 1 83 8 01 0 94
Iron, railway.		: :										

do all other		41			:		:	:	:: ::	-	11	41	4 04
do ore		<u>:</u> ::	- : :	:	: : : : : : : : : : : : : : : : : : : :	: : : : :	:	:	: :-	:	:	:	:
Kryolite chemical ore and other ore, except iron	:	<u>:</u> :	:	:	:	:	:	:	:	:	:	<u>:</u> : :	:
Lard and lard oil		:	 	:	:	:	:	:	<u>:</u> :				09 0
Meal, all kinds		:	<u>:</u> ::	:	:	•	: : :	:	: : :	<u> </u>	,	,-:	
Meats, other than pork	:	: •	:								4	-	92 0
Manifla		•							:		:	: :	:
Molesses							:	:	:	:		: : :	
Noils		-:	:	:	:	:	:	:	:	:	:	:	
Onto		249		-	:	:	:	:	; <u>:</u> :		249	249	ZI 41
Ostes	:	9					•	_:		-:	9	9	1 05
Oil (in parteis)	-::::::::::::::::::::::::::::::::::::::	:	<u>-</u> -								:		: : : : : : : : : : : : : : : : : : : :
Oll cake		: :8	- -	:	:						92	92	2 08
Fease	- -		<u>-</u> : :				:	:	· · ·	-	6	+ =	803
Potatoes	N	:	<u>.</u>	:	:	:	:	:	:	1	1 3	d	
Pork	:	18	<u> </u>	:	:	:	:	:	<u>:</u> :	· -	9 -	-	90
Paint		<u>:</u>	::	:	:	:	:	: :	:	•		٦-	0.10
Pitch and tar		:		:			:	:	:	:::::::::::::::::::::::::::::::::::::::	:	:	
D		ox					-	:	-:	-	œ	.	1 25
Links	:	·	<u>.</u>								2	<u>61</u>	020
Kye	:	:	:- : :	•			:	<u>:</u>	: : :	•	_	-	
Flax seed	: : : : : : : : : : : : : : : : : : : :	:	<u>:</u> :	:	:		:	:	:	:	: : :	: <u>'</u> : :	
Rosin	:	:	- -	•	:	:	:	:	:	:	:	<u>:</u> :	•
+Le3.		:	:	:	:	:	•	:	:	:	:	:	
Then intended for outling							:	:	:		: :	:	
	<u>:</u>	: : 61	·								cc	ಣ	0 57
do wronght do wronght.	: : :	5	<u>:</u>	:	:			: : : -	: : :				
	•	:	<u>:</u> :		:	:	<u>:</u>	:	:	:	:	·	0.40
Seeds, all kinds	: : : : : : : : : : : : : : : : : : : :	: oc	:	:	:		:	:	:	:0	904	5	34 48
Sheep	က	397	:	:	: : : : : : : : : : : : : : : : : : : :		:	:	-			3	5
de abox		:	:	:	:	:	:	:	:	:	: :	<u>:</u> ::	
C+C)		:	-		:	:	:	-:	:	:	:	:	::
Steel	: :	: : c	<u> </u>	-							6.	6	171
Sugar		: : a	<u>. </u>								00	90	1 43
Spirits, beer, &c	:	:	:	:			:	: : : : :	:			-	
Tobacco (raw)	:	:	:-	:	:		:	: : :	: : :	: : : :		c	0 48
Tallow	:	0	:::::::::::::::::::::::::::::::::::::::	:	:	:	:	:	: : :		,	,	
Tin	:	:	:	:	: : : : : : : : : : : : : : : : : : : :	:	:	:	:	:	: :-	<u>:</u> :	
Turpentine	:	<u>:</u> :	:	:	:	:	:	:	:	:::::::::::::::::::::::::::::::::::::::	: :-		
Wheat	:	:		:	: : : : :		:	:	<u>:</u> :	:	:	<u>:</u> :	
White lead	:	<u>:</u> :	· ::	:	:	:	:	:	:	:::::::::::::::::::::::::::::::::::::::	: : :	:	:
Whiting	:	:	-			:	:	:	::	:	:	:	
Wool		∞	:	:	:	:	:	:	: :-		x 0 9	x 0 ,	200
All other goods and merchandise not enumerated.	88	353	-				:	-	-:	28	25	381	86 70
All Utilet goods and motoumers are the		-	-	-	:	:	: ::	:	: :		:	: :	
Dark	:	e e						:	:	:	83	æ	3 3 3 3
Barrels, empty	:-	3	: :							-	:	-	
Boat knees	:_	0.440	<u>-</u> : :	:			: : : :			20 59,440		59,460	495 70
Floats	3 9	976	- -	:			: : :	: : :-		49 25,3		5,418	784 39
Firewood, in vessels		0.00	<u> </u>		:	:	:	<u>:</u>	:			0,050	102 33
do rafts	- - - : :	: 000,0	:	•	:		:	:	:			10	
Hoops	:::::::::::::::::::::::::::::::::::::::	:	:	:	: : : :	:	: :	:	:	:		•	3
Hop poles	:	:	<u>:</u> ::		: : : : : : : : : : : : : : : : : : : :	:	:	:	:		:	200 0	96 810 20
fumber sawn in vessels.	<u>ي</u>	3,428	-	63,204			: :	: ::	-:	5, 500,002	_	000,000	60,010,00

No. (A) 7.—General Statement showing the Quantity of each Article transported, &c., Ottawa Canals—Concluded.

Articles.	From Canadian to Canadian Ports.	m dian dian ts.	From Canadia to United St Ports.	From Canadian to United States Ports.	From United States to United States Ports.	From United States to United States Ports.	From United St to Canadia Ports.	From United States to Canadian Ports.	Tons.	ns,	Total Tons.	Amount of Tolle,
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	\mathbf{Up}	Down.		
Lumber, sawn, in rafts. Masts, spars, and telegraph poles, in vessels.		412								412	412	\$ cts. 10 38 0 09
do do afres. Railway ties, in vessels. Saw-logs	: : :4	335 689 7,267		220						855 689 7,267	855 689 7,271	158 91 36 68 156 18
Staves and headings, barrel. do do pipe. do do West India. Staves, salt barrel.										46	46	17 43
Split posts and fence rails, in vessels. do do rafts.		:01								67		0 57
Traverses of wood partly manufactured		4,180								4,180	4,180 ₂₀	43 89
Total freight paying tolls	173	420,204	:	63,805					173	484,009	484,182	28,887 14
Free per Order in Council, 27th June, 1890. Floats Freewood, in rafts.	: :	32,746 5,173							: : : : : : : : : : : : : : : : : : :	32,746 5,173 1,119	32,746 5,173 1,119	
Lumber, sawe, in rates Railway ties, in rafts. Saw-logs. Staves and headings, barrel		11,426								11,426 11,426	11,426 11,426	
Split posts etc., in rufts. Timber, square, in rafts. Traverses		737 660 4,958				9.				4,958 20	737 660 4,958 20	
Freight, grand total	173	477,242		63,805					173	541,047	541,220	

2,905 07 167 08		10 85	₩	65 70
Total tolls on vessels 2,905 07 do passengers 167 08 do Free goods \$841 05	Fines *Damages	Other receipts	Total Revenue exclusive of Hydraulic Rents	*Amount of damages not included in above

RICHARD DEVLIN,
Compiler of Canal Statistics.

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 18th November, 1896.

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APPENDIX A-Continued.

No. (A) 8.—General Statement showing the Quantity of each Article transported on the Chambly Canal, and the amount of Revenue collected during the Season of Navigation in 1895.

	2	concordating and possess	2	2								
Articles.	Can Can Can Po	From Canadian to Canadian Ports.	From Canadia to United Str Ports.	From Canadian to United States Ports.	Fr United	From United States to United States Ports.	Fr United t Cans Po	From United States to Canadian Ports.	Tone.	ne.	Total Tons.	Amount of Tolls.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		
	 											ပ် %
rated,		722						153		875	875	09.89
Agricultural implements Barley Bricks Bonds Bricks Brinks			1,018					16 498	1,018	16	16 526 1,018	1 60 50 74 101 80
Buckwheat. Cement and water line. Clay, line and sand. Coal.	68							3,491 95,680	68 :	3,491 95,630	3,580 95,680	14 00 397 92 9,401 86
Corn Cattle	17	: 88		: :		: :	: :			88	105	3 93
Coton, raw. Crockery and earthenware. Dye wood and dye stuffs.								5		Ω :		0 20
Fish. Fish. Flour. Furniture	622	22							622	72	649	21 86
Gypsum. Glass, all kinds. Hay, pressed	153	2,562	15,106					. :06 	15,259	2,652	17,911	1,222 19
Horses Hides and skins, horns and hoofs	14	9							14	64	78	2 86 0 50
Iron, railway do pig do all other.									6 		6	02.0

Iron ore Kryolite chemical ore and other ore, except iron		<u>;</u> ;			<u>:::</u>	- : :	::				
Meal, all kinds.					<u>:</u> :	:	:	-	 : : :	:	:
Meats other than pork.							: :				
Marble		:	:	:	: : :	: :	<u>:</u> :	- <u>·</u> :			
Mohases	:	:	· : : : :	<u>:</u>	:	<u>:</u> ::		:0		000	0,00
Nails	•			:	<u>:</u> :	:	060	•	033	969	69 40
Oats						: : : :			97.7	977	32 63
Oils, in barrels		:	<u>:</u>	:	- <u>:</u> - <u>:</u> ::	<u>:</u>	: 66 67	- - :: ::	33	30	3 81
Oli cake	:	•	<u>:</u> :	<u>:</u> ::	<u>:</u> :	:	:	 	<u>:</u> ::	:	
Potatos	:	:		<u>:</u> : :	: :	:	:		:		
Pork	: : 3		:	:	: :	<u>:</u> :	-	ه	:	ကင	11 0
Paint.		:	:	:	:	<u>:</u> :	<u>:</u> :	:	7	7	900
Pitch and tar						: : :	204		20%	204	20.40
Rags	-	:									
Flax seed	:	-		:	:	-	56		92	26	2 60
Kye			<u>:</u>	:	:	:	- ::	:	•	:	:::::::::::::::::::::::::::::::::::::::
ROBIN		: : :	•		:	:	2,252	:	2,252	2,252	225 20
Stone intended for authing	18/	:	:	:	: : :	:	168	187	168	355	23 04
do monabt	:			:	<u>:</u> - ::	:	:	:	.,		
do not suitable for cutting unumburght	:		:	: : :	<u>:</u> ::	:	: C	:	Ici	151	01 ct
Seeds, all kinds	:	:	:	:	: : :	:	: : :	:	<u>:</u> :	: :: :	
Sheep	133		:	:	<u>:</u> :	: :	:	:	199	661	W 7 F
Soda ash				<u>:</u> : : : .	<u>:</u> :	<u>:</u> :	<u>:</u> :	:	3	eer	70 #
Steel										:	•
Sugar		:				: : :	3.570		3.570	3.570	357 00
Spirits, beer, &c	<u>:</u>	:	•	:	: :	<u>:</u> :	<u>:</u>				
Tobacco, raw		:	:	:	<u>:</u> ::	<u>:</u> :	<u>:</u> :	:	:		:
This	:	:	<u>:</u>		<u>:</u> :	:	<u>:</u> ::	:	<u>:</u>	:	
Turcentine	·	:	<u>:</u> :: ::	<u>:</u> : :	<u>:</u> ::	:	<u>:</u> :	:	-	:	
Wheat	:	: : : : : : : : : : : : : : : : : : : :	:	<u>:</u> ::	:	:	<u>:</u> :	:	:	<u>.</u> : :	
White lead.		:	:	<u>:</u> : :	: : :	<u>:</u> : :	<u>;</u> : :	: : :	:	: : :	
Whiting						-		:	:	:	:
Wool											
All other goods and merchandise not enumerated.	330	1,045	:	:		:	2,157	1,375	2,444	3,819	331 20
Dark.	:	:	<u>:</u> ::	: : :	<u>:</u> ::	:	<u>:</u> ::	:	:	:::	:
Boat knees		:	:	:	<u>:</u> :	<u>:</u> :	<u>:</u>	œ	:	9	02 0
Floats	480	:		<u>:</u> :	<u>:</u> :	<u>.</u> : :	<u>:</u> ::		:	100	00 00
Firewood, in vessels.	174 2.07	3 128 584			: :	<u>:</u> :	:	98 758	9 073	130 831	4 393 40
do rafts									i	100,001	01 070'I
model H	:	:	:		:	:					
Hop poles			:	:	:	÷	•	:	:		:
Lumber, sawn, in vessels	3,791	C17,88	:	:	:	:	3	95,006	223	92,229	5,446 12
TOTAL CO	16	-			::-	<u>:</u> ::	 :	12		12	1 40

No. (A)8.—General Statement showing the Quantity of each Article transported on the Chambly Canal, &c.—Concluded.

• Articles.	Fr Cam Can Can	From Canadian to Canadian Ports.	Fr Cana ta United Por	From Canadian to United States Ports.	Fr United To	From United States to United States Ports.	Fr United Cans Po	From United States to Canadian Ports.		Tons.	Total Tons.	Amount of Tolls.
	Up.	Бомп.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		
Masts spars and telegraph poles, in vessels.			38						8			\$ cts.
Railway ties, in vesselsdo rafts.			2,581						2,581		2,581	206 22
Saw-logs. Staves and headings, barrel. do do pipe do do West India												
Staves, salt barrel. Shingles. Split posts and fence rails, in vessels			:67						25		25.	5 98 0 14
Timber, square, in vessels do do Traverses UVCAbruses and unced northy manufactured												
Total freight paying tolls	5,942	6,935	236,594					109,556	242,536	116,491	359,027	22,289 06
		Tota Fin Oth	Total tolls or do Fines* *Damages Other receivil	Total tolls on vessels do passengers Fines ** * Damages ** * Cather receipts.								3,455 92 75 69 9 00
*Amount of damages not included in above, \$26.50.	6.50.	Tota	al revenu	e exclusiv	e of hyd	Total revenue exclusive of hydraulic rents	ıts					25,929 67

RICHARD DEVLIN,
Compiler of Canal Statistics.

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 18th November, 1896,

No. (A) 9,—General Statement showing the Quantity of each Article transported on the Rideau Canul, and the Amount of Revenue collected during the Season of Navigation in 1895. APPENDIX A-Continued.

Amount of Tolls.		\$ cts. 4 2 111 5 6 0 56 6 13 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	0 05 9 51 70 10 840 06 0 40	020 4 47 0 18 1 35	2 93 2 93 0 07 4 73 45 91	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Total Tons.		242 139 181 181 181 351 121	372 3,000 18,541 16	: : : : : : : : : : : : : : : : : : :	385 28 28 3 53 53 1,703		689
Tons.	Down.	481 01 04 05 38 28 28 38 38 38 38 38 38 38 38 38 38 38 38 38	2 17 18,541	.∞ &	314	- L	53
ŭ	Up.	44 112 112 112 112 112	355		71 17 3 3 42 42 1,684	9	219
From United States to Canadian Ports.	Down.		15,892				
Fr United t Can Po	Up.						
From United States to to to Tolited States Ports.	Down.						
Fr United United Po	Up.						
From Canadian to Canadian to Canadian Ports.	Down.						: i
	Up.						
	Down.	135 100 140 140 150 150 150 150 150 150 150 150 150 15	2,649 2,649		314	<u> </u>	22
Fr Can Can Po	Up.	88 111 421	3,000	: : : : : : : : : : : : : : : : : : :	71 17 17 8 42 1,684	9-1-48	617
Articles.		Ashes, pot and pearl. Apples Agricultural products not enumerated, vegetable. do Agricultural implements Barley Barley Denotes	Buckwheat. Cement and water lime Clay, lime and sand Coal.	Cattile. Cotton (raw). Crockery and earthenware. Dye wood and dye stuffs. Fish.	Flour Flour Gypsun. Glass (all kinds) Hay (pressed)	ao × 76 ° -	do all other.

No. (A) 9.—General Statement showing the Quantity of each Article transported on the Rideau Canal, &c.—Concluded.

Articles,	From Canadian to Canadian Ports.	m dian dian ts.	From Canadia to United St Ports.	From Canadian to United States Ports.	From United St to United St Ports.	From United States to United States Ports.	Fr United t Cans Po	From United States to Canadian Ports.	Tons.	ns.	Total Tons.	Amount of Tolls.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		
1 :	99								99		60 	. ee
Kryolite chemical ore and other ore, except iron Lard and lard oil	14	460 6							14	9 2	<u> </u>	300
Metals, an Amas Metals, other than pork Marble.	81					: :			% = 1	10	& II ?	
Manilla Molasses	97.	: :							198	2	1881	, ,
COA18 FOII (in barrels).	111	103							112	103 103 7	215 215	161
Oil cake. Pease.	968	G :							:• : :		919	0-10
	168	188				: :			25 25 26 4		9 9 9 1 1 1 1 1	8 00 1 71 3 76
Pitch and tarRags	 	10							i es	10	13	
Kye. Flax seed												: :
Kosin	1,676	342					:		1,676	342	2,018 15	
Stone intended for cutting do wrought.	14	. e. 88							14 :	458 8	488	-510
	_							: :	1		- 67	
Soda ash	왕											
Steel Sugar Sugar	522	57.2							522 64	10.4	579 106	
Tobacco (raw).			: :		: :	: :						
Dis.	2			_				:	18	:	24	_

Wheat White lead White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White White W	888	737				: : :	: : :			30 737 20 737 29 737	767 20 29 89	19 67 1 77 2 56
All other goods and merchandise not enumerated. Bark Barels, empty.	830 13 35	* # # # # # # # # # # # # # # # # # # #	67						:8°	832 340 13 32 35 2	•	107
Floats. Firewood, in vessels do rafts.	1,120	393	777						1,120	393	1,120	19 69 278 98
Hoops Hop poles Lumber, sawn, in vessels.	21,270	5,595	17,414	2,959					28,684	8,554	37,238	3 00 2,138 05
Masts, spars, and telegraph poles, in vessels. do rafts. Railway ties, in vessels	260					: : : : : : : : : : : : : : : : : : :			299	· · · · · ·	2000	66.29
do rafts. Saw-logs. Staves and headings harrel	218	132		::		<u> </u>	: ::: :::	. : :	. 218	8 132	350	8 11
Staves salt barrel						: : : : : : :						
Shingles. CSplit posts and fence rails, in vessels do do rafts	1 3									1 45	823	13 10 0 08
Timber, square, in vessels. Traverses Woodenware and wood partly manufactured.	96	: : :							: :96 : . : .			60 0 80 9
Total freight paving tolls	38,396	12,819	18,193	2,959				1 15,899	9 56,590	0 31,677	83,267 486	3,934 62
Grand total freight	38,882	12,819	18,193	2,959	:			1 15,899	9 57,076	6 31,677	88,753	
		Total d d d Wharf Other	Total tolls on vessels do passenge do free ceal Wharfage and storage. Other receipts	vessels.	\$12.97							1,657 64 87 00 74 68 395 20
		Total	Total revenue exclusive of hydraulic rents	xclusive	of hydr	aulic ren	ıts	:	•	:	:	6,149 14

DEPARTMENT OF RAILWAYS AND CANALS,
OTTAWA, 18th November, 1896,

RICHARD DEVLIN, Compiler of Canal Statistics.

APPENDIX A-Continued.

No. (A) 10.—General Statement showing the Quantity of each Article transported on the St. Peter's Canal, and the Amount of Revenue collected during the Season of Navigation in 1895.

From United States United States Tons Total Amount	328		e e	Total revenue	Total					6,410	3,139
From United States Canadian From Counted States Canadian From Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports	9,828	6,410	3,418		279					:	6,410
Prom Prom Prom Prom United States United States Canadian Ports Total Total Total Tons Total Tons Total Tons Tons Total Tons Tons Tons Total Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons Tons	4.64	4,908	4 2 78								4,908
From United States United States Tons, Total to Lo	r- 67	241	88		12				:		241
From United States United States Canadian From Forts Total Ports Prom Ports Town Up. Down Up. Down Up. Down Up. Down See See See See See See See See See S	9 1 1	21	1,425		8961 1361				::		21
From United States United States Tons, Total to	ဗ္	640	H . I						:		640
From United States United States Tons, Total to	O C	:	33	:	:	:	:	:	:	:	:
From From From United States United States Canadian Ports. Total Total Tons. Up. Down. Up. Down. Up. Down. Up. Down. Up. Down. Up. Down. Up. Down. Up. Down. Up. Down. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up. Up.	ಣನ	315 285	.10						::	: :	315
From United States Canadian Ports. United States Canadian Ports. Up. Down. Up. Down. Up. Down. Up. Down.	ļ										
From From Chited States United States to to Canadian Ports.		Down.	i	Down.	Up.	Down.	Up.	Down.	Up.	٦	Down. U
			Ton	m States dian ts.	Fro United to Canac Por	States States States ts.	Fro United to United Por	From Canadian to United States Ports.	Fro Canaa to nited Por	Þ	From Canadian to Canadian Ur

RICHARD DEVLIN,

Compiler of Canal Statistics.

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 18th November, 1896.

No. (A) 11.—General Statement showing the Quantity of each Article transported on the Trent Valley Canals, and the Amount of Revenue collected during the Season of Navigation in 1895. APPENDIX A-Continued.

	Can	From Canadian	From Canadian	m dian	Fre	From United States	Fre United	From United States	E			
Vessels.	Cana Po	to Canadian Ports.	United Po	United States Ports.	United Por	United States Ports.	Cans Por	to Canadian Ports.	Lons.	ns.	Total Tons.	Amount of
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		roms.
												e cts.
Ashes, pot and pearl. Apples Agricultural products not enumerated, vegetable												
Agricultural implements		: -										80 0
L British	394								394	40	434	4 90
Dones.												
Buckwheat Cement and water lime										: :		
Clay, lime and sand							:	:	:		:	
Corn												0.14
Cotton (raw).	•								:			
Dye wood and dye stuffs.	: :											
Flax and hemp.	: :											
Flour Furniture		: :	: :									
Gypsum Glass (all kinds)			: :						: :			
Hay (pressed)	. %			: :					:8; :		· &	0.44
Holses and skins, horns and hoofs												
Iron, railway								: :				
do pig do all other			: :	: :						:0	2	90 0
Iron ore		_ : :		_ : :		-						•
								,				

No. (A) 11.-GENERAL STATEMENT showing the Quantity of each Article transported on the Tront Valley Canal, &c.-Concluded.

Articles.	Cans Cans Cans	From Canadian to Canadian	Fr Cans t United	From Canadian to United States	United	From United States to United States	Fr United	From United States to Canadian	Ţ	Tons.	Potel	• • • • • • • • • • • • • • • • • • •
	Po	rts.	å å	rts.	Po Po	rts.	Po	Ports.			Tons.	of Tolls.
	Op.	Down.	Op.	Down.	Op.	Down.	Up.	Down.	Чр.	Down.		
												s cts.
Kryolite chemical ore and other ore, except iron				:	:				:		:	:
Meal, all kinds												
Marble	:	:	:	:	:	:	:	:				
Manilla									:	:	:	:
Molasses		:		:								
Oats								:	:	:		
COil cake	:											
& Pease								:		:		
Potatoes												
Paint	:	:	:	:	:	:	:	:		:		:
Pitch and tar.												
Rye		:		:	:	:	:	:		:		
ed ba												:
Rosin Salt.	:	:		:	:		:	:				
Stone intended for cutting		021								150	150	1 50
do not suitable for cutting, unwrought.		066								300	066	:
Scheb.	14	:		:		:	:	:		-		
Soda ash	:	: ;					: :				*	FT 0
Sugar	:			:	:	:	:	:	:	:		
Spirits, beer, &c.												
Tallow	:	:	:	:		:	:	:				
										:	:	:
:		:	:	:								
White land	707										2	6

Wool All other goods and merchandise not enumerated Bark	.25.25	88							<u>:</u> : : :	92	: : % .		4 07 3 72
Barrels, empty. Boat kness. Floats. Rivedod, in vessels. do rafts.	242	5,298 1,940 24							10,	242 5,298 10,725 1,940		5,540 12,665 24	43 94 149 85 0 37
oops op poles unber, sawn, in vessels	2,394	314							: : cí	2,394 3		2,708	47 01
do ratts rages, spars, and telegraph poles, in vessels do allway ties, in vessels.	118	761								118	25 761 ::	25. 17.1 17.1 17.1	- 0 0 0 c
do rattsw-logs. aves and headings, barrel	6,805	661							• • · · · · · · · · · · · · · · · · · ·			7,466	65 18
Staves, salt barrel Shingles Split posts and fence rails, in vessels.	173	4 w								90	. स : ल	94 173 3	2 1 86 1 1 86 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Timber, square, in vessels do rafts. Traverses. Voodenware and wood nartly manifactured		550								10	250	. 255 	11 00 25
Total freight paying tolls. Firewood, in vessels, free, per Order in Council, May 18, 1891.	21,626	10,349							 	291,626 10,349		31,975	368 71
Grand total freight	21,917	10,349					:		 	21,917 10,349		32,366	
	-		Tota	Total tolls on do do do Other receipts	Total tolls on vessels do passengers do free goods. Other receiuts	ars	-					2.50	500 54 172 83
				•	_			H + 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	1: -			1_	1 170 08

RICHARD DEVLIN,
Compiler of Canal Statistics.

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 18th November, 1896.

APPENDIX A-Continued.

No. (A) 12.—General Statement showing the Quantity of each Article transported on the Murray Canal and the Amount of Revenue collected during the Season of Navigation in 1895.

. Total Amount of Tons. Tolis.	Down.	\$ cts. 106 277 5 34 16 420 83 1 13 0 25 20 20 20 197 293 5 5C	120 250 4 69 120 250 4 69 19 0 37 262 535 10 05	2 4 4 0 08 2 2 0 05 1 0 02	126 312 8 12 3 19 0 49	5 18 0 37 9 0 18
Tons.	Up.	171 26 12 18	130 190 273		186	13 19
From United States to Canadian Ports.	Down.		262	4.0	: 100 : : : : : : : : : : : : : : : : :	
Fr United Cans Po	Up.		5258			
From United States to United States Ports.	Down.					
Fr United United	Up.					: : :
From Canadian to United States Ports.	Down.					
From Canadian to United Stat Ports.	Up.			: : : :	15	6
m dian dian ts.	Down.	106 16 1 20 20 197	120		121	
From Canadian to to Canadian Ports.	Up.	24 24 12 12 13	130 130 130 131		171	12
Articles.		Ashes, pot and pearl Apples Agricultural products, not enumerated, vegetable do do animal. L Agricultural implements © Barley Egicks.	Econes Brinstone Brinskone Buckwheat Cement and water lime Cay, lime and sand Con.	Cattle Cotton, raw Crockery and earthenware Dye wood and dye stuffs Fish	Flour Flour Flour Flour Flour Glass all kinds Hay, pressed	Hogs. Hogs. Hides and skins, horns and hoofs.

do pig. do all other do ore.	93	110			203	67	203	0 23
Kryolite chemical ore and other ore, except iron Lard and lard oil. Meal, all kinds.	H	2 10			: : : : - :			0 00 00 18
Meats, other than pork. Marble. Manila	:			: :	<u>:</u> : : :	: :01	: 63	90 0
Molasses Notalis Ovalis	<u> </u>				: : : : : : : : : : : : : : : : : : :		L-	0.18
Oaks Oil, in barrels	18 81		: :	: :-	18	: :88 :	100	2 53
Penser Potatoes	140 96			: 37	140	86	238	4 50
Pork. Paint						: : 61	6N 6N	0 04
Pitch and tar Rags Rve Rve	12	4			 16 330	: 4	16	0 40
Flax seed Bosin	: :							
Saft. Skope intended for cutting.				<u>: :</u> කි :	:	<u>:</u> ଛ : :	0g :	0 57
do wrought do not suitable for cutting, unwrought. Seeds, all kinds	1,606				1,606	<u>:</u> : : : : : : : :	1,606	16 06 0 04
Solds ash Steel	<u>.</u>				. : :10	· : : : :		0 13
Sugar Spirits, beer, &c. Tobasso reur	1314	. 2			101	: : : *		0 40 0 62
Tallow Tim	10			<u>: </u>	10	: -	10 :	0 19 0 03
Turbentume Wheat	60 201			<u>;</u> <u>;</u> ;	: :8 :	201	261	4 90
Whiting Wool Wool All other goods and merchandise not enumerated. Bark	78 1,155 863	1-4			78 20 1,159	874	78 23 2,033	1 97 0 45 51 19
Barrels, empty	:				: :			
Floats. Firewood, in vessels. do rafts.		98				: :	38	0 30
Hoppoles.			· · · · · · · · · · · · · · · · · · ·	<u>:</u> :		<u>:</u> : :::		

No. (A) 12.-Grubbal Statement showing the Quantity of each Article transported on the Murray Canal, &c.-Concluded.

Articles.	Cans Cans Po	From Canadian to Canadian Ports.	From Canadian to United States Ports.		From United States to United States Ports.	From United States to United States Ports.	Fr United tx Cana Por	From United States to Canadian Ports.	Tons.	ns.	Total Tons.	Amount of Tolls.
	Up.	Down.	Up.		Up.	Down.	Up.	Down.	Up.	Down.		
												es cts.
number, sawn, in vessels	19	:	358	:	:	:	:	:	377	:	377	4 30
do rafts fasts, spars and telegraph poles, in vessels									 : : : : : :			
do do rafts		:	:	:	:		:	:				
(allway ties, in vesselsdo rafts					÷ ;	: :						:
aw-logs	:	:::::::::::::::::::::::::::::::::::::::	:		:							
do bibe.			: T	: :					:	:	:	:
do West India	:		:		:	:	:	:	:	:		
taves, salt barrelhingles	:-		12			: :			13		13	1 05
plit posts and fence rails, in vessels		4.020	: :			: :			: :	4,020	4,020	50.25
Timber, square, in vessels								: :	: :			
Traverses Woodenware and wood partly manufactured	. 63						: :		:			0.10
Total freight paying tolls	4,253	5,926	561				258	326	5,072	6,252	11,324	188 60
				Tota	l tolls on do	Total tolls on vesselsdo passengers	æ					199 70 139 64
					Ē	tal revenu	e exclusi	Total revenue exclusive of hydraulic rents.	raulic rer		:	16 222

RICHARD DEVLIN, Compiler of Canal Statistics.

DEPARTMENT OF RAILWAYS AND CANALS, "IC." OTTAWA, 18th November, 1896.

No. (A) 13.—General Statement showing the Quantity of each Article transported on the Sault Ste. Marie Canal, during the Season of Navigation in 1895.

APPENDIX A-Continued.

From F		جر ک <u>و</u>	۾ ڪي	From	•	From United States	Fr United	From United States		`	
Articles.	Cana Por	to Canadian Ports.	United	to United States Ports.	ı	to United States Ports.	Cans Por	to Canadian Ports.	Tons.	ns.	Total Tons.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	
Ashes, pot and pearl	136		219			::		: :	355		355
Agricultural products not enumerated, vegetable do do do animal Agricultural implements. Barley		427				5,520			2	5,947	5,947 12
Bones Brinstone	: :										
Buckwheat. Comment and water line. Coal, ime and sand. Coal, soft.		2,650	144		515 515 108,703		13,996		187 515 515 122,763	2,650	3,165 3,165 122,763 94,910
do hard Com Sattle	⊇ : 63 :				24,300				24,310		27,010
Cotton, raw. Crockery and earthenware. Dise wood and dye stuffs.		305	12			: : : 8		100	12	425	12 425
	451	2,997				12,009		3,368	12	18,374	18,378
Gypsum. Glass, all kinds. Hay, pressed.	50.		 					10	79	47:	123
Horses Hides and skins, horns and hoofs.										41	#
Iren Local railway	-				:		∞		6	:	o

No. (A) 13,-General Statement showing the Quantity of each Article transported on the Sault Ste. Marie Canal &c.,-Concluded.

Articles.	Fr Cans t Cans Poo	From Canadian to Canadian Ports.	Fr Cans to United Pol	From Canadian to United States Ports.	Fr United United Po	From United States to United States Ports.	Fr United Cans	Fron: United States to Canadian Ports.	${ m T}^{ m o}$	Tons.	Total Tons.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	!
Iron, all other.	09 :	1,102			938	214,290	22		1,065	1,102 214,290	2,167 $214,290$
Aryotte chemical ore Lord and lard oil. Meal, all kinds. Meals, other than pork		75				305				305 465 15	305 3 465 17
Manilla Molasses Nails Oats Oli, in barrels.			57.		50 20 5,291	163	200		15 186 49 8,830	61	15 186 186 247 8,830
Oll cake. Oll cake. Potatoes Potatoes Potatoes Potatoes											91.2
Fitch and tar Rags. Rye. Flax seed	10	1,553	: -			1,610		1,347	# : : :	1,610	$\begin{array}{c} 11 \\ 1,610 \\ 9,750 \end{array}$
Kosin Salt. Skone intended for cutting do wrought. do not suitable for cutting, unwrought	92		235		815	466	: :8		1,142	466	1,142 499 1
Sugar Steel Sugar Spirit, beer, &c Tallow	885 830		955		372				1,400 124		50 1,400 124

Wheat,		25,879		16,755		82,803		10,113		135,550	135,550
Whiting.			10						10		101
Wool To ther goods and werehandise not enumerated Particular and werehandise not enumerated	5,773	303	7.13	30	6,218	1,081	175	106	12,879	1,520	15 14,399
Barrels, empty.											
Boat knees	92						1.618	20.	1.694	- 50	1.714
Firewood, in vessels.	3,186			2,400		320			3,186	2,720	5,906
Hoops Hop Poles Lumber, awn, in Vessels						18,769		248		19,616	19,618
do rafts. sts, spars and telegraph poles, in vessels.											
do ratts											
do rates y logs.		189								189	180
do pipe. do West India											
ves, sait barrel. 1916es 1927es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 1928es 192			413						463	: 3	2 €3
Timber, square, in vessels do rafts		40						- 11		17	. :40 1.1
verses odenware and wood partly manufactured	311								311	: :	311
Total freight.	10,419	35,570	5,804	19,185	147,838	344,693	16,344	15,984	180,405	415,432	595,837

RICHARD DEVLIN,
Compiler of Canal Statistics.

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 18th November, 1896.

APPENDIX

No. (A) 14.—Statement of Traffic on the undermentioned Canals, and

			1			
Articles.	Welland	Canal.	St. Lawrer	ice Canals.	Chambly	Canal.
Articles.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
Class No. 1.		\$ ets.		\$ cts.		\$ cts.
Canadian vessels, steam	352,680 464,951 165,947 84,795	3,984 99 6,957 17 3,525 97 1,912 91	18,405 926,257	4,170 26 119 75 11,064 26 682 83	80,644 776 51,464 198,952	250 83 7 95 736 78 2,460 36
Total, class No. 1	1,068,373	16,381 04	1,747,416	16,037 10	331,836	3,455 92
Class No. 2.	No. 34,038	3 90 3 3	No. 59,962	2,776 72	No. 5,225	7 5 6 9
Class No. 3. Bricks Brimstone	Tons. 723 672	138 31 100 80		281 02 79 82	Tons. 526	50 74
Cement and water lime. Clay, lime and sand Fish Gypsum.	524 4	27 81 43 60 0 60	24,020	937 90 997 70 19 52 27 53	140 3,580	14 00 397 92
Iron, railway do pig do all other	185 2,090 4,155	36 28 414 92 786 89	52 523 20,478	6 68 49 15 1,311 91	9	0 70
Salt Steel Stone, for cutting Apples	883 430 68	8 59 175 25 86 00 6 97	1,823 8 2,097	256 98 0 82	355 875	23 04 68 60
Barley Buckwheat Corn Cotton, raw	164,894	868 90 16,489 10	3,930	112 28 148 49 533 35	16	
Flax and hemp Flour Hay, pressed Meals, all kinds	208 44,044	31 20 8,678 56 4 95 9,276 20	4,511 1,390		649 17,911	21 86 1,222 19
Oil cake. Oats. Pease Potatoes.	18,236	1,824 20	34 651 16,509			32 63 0 11
Rye Flax seed. Seeds, all kinds	1,007	151 05	456	44 85		
Tobacco, raw	203,088 403	2 80 3 20 20,284 90 20 45	5,667 3,867	584 78 253 66		
Bones Cattle Hogs Hides and skins, horns and hoofs		11 05	490 200 14 31	44 49 14 84 1 36 4 30	1,918 105	101 80 3 93 0 50
Lard and lard oil Meats, other than pork	26 6 30	0 90 1 20 6 00	2,271 266 34	98 42 14 05 3 52	78	2 86
Pork. Sheep. Tallow. Wool.	696 1,536	17 40 104 40 307 20	244 14 12	18 42 0 82 1 80	133	0 08 4 67
All other agricultural products, animal. Total, class No. 3		•••••	1,753	216 35	00.000	10.7
100at, Class 110. 0	499,594	59,910 73	125,978	8,377 89	26,382	1,947 23

A-Continued.

the Amount of Tolls collected during the Season of Navigation in 1895.

Murray	y Canal.	Ottawa	Canals.	Rideau	Canal.	St. Peter	's Canal.	Trent Can	Valley als.
Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
	\$ cts.		\$ cts.		\$ cts.		\$ cts.		\$ cts.
157,737		138,690	597 78	98,262	704 32	5,908	118 17	49,990	363 04
154 4,228 295		3 134,895 15,528	$\begin{array}{c} 0 & 25 \\ 1,937 & 03 \\ 370 & 01 \end{array}$	2,586 54,798 13,206	25 59 656 38 271 35	10,508	210 18	35,325	137 70
162,414	199 70	289,116	2,905 07	168,852	1,657 64	16,416	328 35	85,315	500 54
No. 11,903	139 64	No. 13,645	167 08	No. 5,305	87 00	No.		No. 24,184	172 83
Tons.		Tons.		Tons. 351	9 93	Tons.		Tons. 434	4 90
1 19	0 02 0 37		0 20	372	9 51				
·····i		4,287 3	$113 \begin{array}{c} 53 \\ 0 \begin{array}{c} 26 \end{array}$	3,000 56	70 10 1 35	315 290			
••••				3	0 07				
··· i2	0 23		• • • • • • • • •	4 36	0 10 1 06				
203 30	3 83	41	4 04	639 2, 018	17 00 52 86	39 4	0 39 0 04		0 05
· • • • • • • • • • • • • • • • • • • •		,		53 15	1 34 0 37	640	6 40	150	1 50
277 293	5 34	17	1 02	139	4 23				
250 250		$\frac{1}{7}$	0 06 0 69	$\begin{array}{c} 62 \\ 2 \end{array}$	1 55 0 05				
		· i	0 10	16	0 40				
**************************************	0 08	3	0 18	8	0 20				
4	0 08	63	5 96	385	9 65		6 87		
		1,084 6	103 79 0 60	1,703	45 91 0 18	[
				5	0 13				
238	4 50	249 92	$\begin{array}{ccc} 21 & 41 \\ 7 & 08 \end{array}$	45 6	1 07 0 14				
		114	8 03	61	1 58			[
374	7 06	2	0 20	• • • • • • • • • • • • • • • • • • •	••• ••••		•••		
2	0 04	8	0 79	1	0 03				
261	4 90		• • • • • • • • •	767	19 67			201	2 01
42		35	2 33	18	0 56	1,446			2 01
• • • • • • • • •	••••	419	0 60 31 87	12	0 39				
		412 24	1 88					28	0 14 0 44
9		11	0 94	1	0 03				
18	0 37 0 06	162	8 01	13 20	0 58 0 50				
3 10				3 8	0 93) 			
2	U 04	18 400	1 05 34 48	356 2	8 66 0 05			14	Λ 1
10	0 19	6	0 48						
23 13	0 45	8	0 48 0 78 126 09	2 141	0 05 5 13				
						<u></u>			
2,099	39 78	8,494	476 45	10,357	265 36	3,421	34 21	838	9 18

No. (A) 14.—Statement of Traffic on the undermentioned

	Welland	Canal.	St. Lawrence	e Canals.	Chambly	Canal.
Articles.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
Class No. 4.		\$ cts.		\$ cts.		\$ ets.
Ashes, pot and pearl Agricultural implements Crockery and earthenware	137 77 29	16 44 11 55 4 35	63 135	8 55 23 73	5	0 50
Oye woods and dye stuffsurniture !lass, all kinds	28 4 860	3 65 0 65 129 00	1,222 21	228 27 3 81		
Manilla Molasses Nails Dil, in barrels	25 464 106 286	3 75 74 47 12 11 46 63	734 2,593	1 80 74 10 414 10 153 00	696	69 40
Paint Pitch and tar Rags Rosin	21 31	3 25 4 65	534	67 76 40 91 14 65 127 21	204 26 2,252	20 40 2 60 225 20
Soda ash Sugar Stone, wrought	6,735 84	3 15 1,009 93 10 50	791 5,142 692	155 78 715 13 35 72	3,570 151	357 0 15 1
Fin	5	6 21 0 75	47 84 621	149 50 3 13 15 95 122 37		
Whisky and all other spirits Merchandise, not enumerated Total, class No. 4	64,118	$ \begin{array}{r} 138 & 46 \\ 9,767 & 25 \\ \hline 11,246 & 75 \end{array} $	11,576	$ \begin{array}{r} 81 & 15 \\ 1,707 & 17 \\ \hline 4,295 & 08 \end{array} $	3,819	331 2
,	70,341	11,240 76	50,104	4,200 00	10,102	1,020 2
Class No. 5.			1	0 66		
Barrels, empty Boat knees. Floats Firewood, vessels.	36	6 76	300 7,539	45 05 139 39	6	28 8
do rafts	45.760			241 75	130,831	4,323 6 5,446
do rofts		i .	117	5 25	12	1 .
Hoops	1,012		200			
els. Masts, spars and telegraph poles, in rafts			21,502		38	
Square, timber, in vessels	. 1	0 5	6,031	158 03		
tured. Split posts and fence rails in vessels do do rafts	20				25 1	5 0
Saw-logsStaves and headings, barreldo do pipe	1,860 212		6 12,128			
do do West India do do salt barrel Traverses Hop poles			8,192	20 65		
Total, class No. 5.		18,614 6	-	ļ. 	-	10,014

Canals, and the Amount of Tolls collected, &c .- Continued.

Murray	Canal.	Ottawa	Canals.	Rideau	Canal.	St. Peter	's Canal.	Trent Car	
Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
	\$ ets.		\$ ets.		\$ cts.		\$ ets.		\$ cts.
		16	3 04	24	3 11				
20	0 50	10	1 90	81	8 85			1	0 03
2	0 05	3 1	0 57 0 19	50 2	4 47 0 18		* . • . • • • •		• • • • • • •
312	8 12	15	$\tilde{2}$ $\tilde{27}$	28	2 93				
19	0 49	4	0 76	53	4 73		· • • • • • • • • • • • • • • • • • • •		· · · · · · ·
2	0 05	4	0 76	11 12	0 96 1 05	• • • • • • • • • • • • •			• • • • • •
				97	8 48				
7	0 18			138	12 94		· • · • · • • • • • • • • • • • • • • •		• • • • •
100	2 53 0 05	6	1 05 0 19	215 19	$\begin{array}{c} 19 & 12 \\ 1 & 71 \end{array}$		• • • • • • • •		• • • • • •
				43	3 76				
16	0 40	8	1 25	13	1 85			· · · · · · ·	
5	0 13			33	2 89		• • • • • •		• • • • • •
15	0 40	9	1 71	579	51 95				
		3	0 57	17	1 49		· · · · · · · · · · · ·	390	3 9
1	0 03			18	1 62				
				20	1 77				
78	1 97			29	2 56	,	. 		· · · · · · ·
$\begin{array}{c} 24 \\ 2,033 \end{array}$	$\begin{array}{c} 0 & 62 \\ 51 & 19 \end{array}$	$\frac{8}{381}$	$\begin{array}{c} 1 & 43 \\ 57 & 38 \end{array}$	$\begin{array}{c} 106 \\ 1,172 \end{array}$	9 42 107 79	750	7 50	138	4 0
						l			
2,636	66 71	469	73 07	2,760	253 63	750	7 50	529	8 0
	<u>.</u>		•••	45	1 74	, , , , , , , , , , , , , , , , , , , ,		. 95	3 7
••••••	· · · · · · · · · · · · · · · ·	33	3 99	37	2 59				
	••••	59,460	495 70	1,120	19 60			5,540	43 9
36	0 30	25,418	784 39	15,186	278 98		2 71	12,665	149 8
377			102 33		0.100.05			24 2,708	0 3
	4 30	366,637 412	26,519 39 10 38	37,238	2,138 05	441	4 41	2,700	47 (
		5	1 05						
• • • • • •	· · · · · · · · · · · ·	855	158 91	560	65 99			177	3 5
		689	36 68		••••			180	7 1
• • • • • • • • •		1	0 09					25	0.2
								879	0.9
								019	9 3
4,020	50 25	4,180	43 89					550	11 (
2 13	0 10		<u>-</u> <u>-</u>	1	0 09				·
13	1 05	46	1		13 10 0 08		• • • • • • • • • •	1	7 1
		2	0 57		• • • • • • • •		· · · · · · · · · · · · · · · · · · ·	173	1 8
• • • • • • • •		7,271	155 18	350	8 11			7,466	65
•••••									1
• • • • • • • •									J
	•••••	20	0 05	960 21	6 08 3 00		· · · · · · · · · · · · · · · · · · ·	25	0
4,448	56 00	475,079	28,330 03	55,601	2,537 41	712	7 19	30,608	351

No. (A) 14.—Statement of Traffic on the undermentioned

Articles.	Welland	d Canal.	St. Lawren	ice Canals.	Chambl	y Canal.
Articles.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
Special Class.		\$ cts.		\$ cts.		\$ cts.
Coal	158,866 1,140		187,527	26,129 33		9,401 86
Stone, unwrought, not suitable for cut- ting	3,585	340 11	2,183	64 65		
Total, Special Class	163,591	32,170 16	189,710	26,193 98	95,680	9,401 86
Total freight and tolls	859,040	138,713 64	455,911 1,840		359,027	
etc., free	10,555	1,583 25	370,477	33,806 22		
Grand Totals, passengers and tonnage of vessels not included.	869,595	140,269 89	828,228	95,070 94	359,027	25,920 67

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 18th November, 1896.

Canals, and the Amount of Tolls collected, &c.-Concluded.

Murray	Canal.		Ottawa	Canals.	Rideau	Canal.	St. Peter	's Canal.		Valley nals.
Tons.	Tolls.	-	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons:	Tolls.
	\$ ct	s.		\$ cts.		\$ cts.		\$ ets.		\$ cts.
535	10 (5	140	7 59	18,541 460	840 06 23 00	4,945		 	
		-			60	3 00				
1,606	16 (6			488	12 66				
2,141	26 1	1	• 140	7 59	19,549	878 22	4,945	49 45		
11,324	527 9	ì	484,182 57,038			5,679 26	9,828	426 63	31,975 291	1,042 08 5 50
•		<u>. </u>			486	12 97				
11,324	527 9	14	541,220	32,800 34	88,753	5,692 23	9,828	426 63	32,266	1,047 58

RICHARD DEVLIN,

Compiler of Canal Statistics.

APPENDIX

No. (A) 15.—Summary Statement of Traffic on the undermentioned Canals during of each description of property passed through,

	Welland	Canal.	St. Lawren	ce Canals.	Chambly	Canal.
Articles.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
		\$ cts.		\$ cts.		\$ cts.
Vessels of all kinds	1,068,373	16,381 04	1,747,416	16,037 10	331,836	3,455 92
Passengers	No. 34,038	390 33	No. 59,962	2,776 72	No. 5,225	75 69
Forest, Produce of Wood.	m					
Bark	Tons.		Tons.	0 66	Tons.	
Boat kneesFloats			7,539	139 39	480	28 80
do Free Firewood	7,836	371 44	10,695	241 75	130,831	4,323 40
do Free Hoops and hop poles Lumber, sawed	45,760	8,174 40	41.953	1,990 17	92,241	5,447 5
do Free Masts, spars, &c			21,502	537 55		2 5 206 2
doFree	1.860	81 36	12,128	277 64		
do Free Staves, all kinds	212	16 50		•••••		
Shingles	20		. 721	0 24	25 1	5 9 0 1
do Free Timber, square Free	64,216	9,627 0	6,691	167 28		
Traverses Free			. 8,192			
Total	121,846	18,595 0	7 111,533	3,397 34	226,197	10,014 5
Farm Stock.						
Cattle			200 14 0 2,271	1 36		3 9 2 8
doFree			. 244	18 42		4 6
Total	26	0 9	2,730	133 04	316	11 4
Produce of Animals.						
Bones	71	11 0	490 31	44 49 4 30		101 8 0 5
$egin{array}{cccc} ext{do} & ext{do} & ext{Free} \ ext{Lard and lard oil.} & ext{.} & ext{.} & ext{.} \ ext{.} & ext{.} & ext{.} \ ext{.} & ext{.} & ext{.} \ ext{.} & ext{.} & ext{.} \ ext{.} & ext{.} \ ext{.} & ext{.} \ ext{.} \ ext{.} & ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ext{.} \ ex$	26	1 2	0 266	14 05		
do	30 87	6 0		3 52 33 83		0 0
do Free Tallow	696 1,536					
Agricultural products not enumerated,	1,000	301 2	1			
animal			. 1,753	216 35	i	.

A-Continued.

the Season of Navigation ended 31st December, 1895, showing the Total Quantity and the Amount of Tolls collected thereon.

Murray	Canal.	Ottawa	Canals.	Rideau	Canal.	St. Peter	's Canal.	Trent Can	
Tons.	${f T}$ olls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
	\$ cts.		\$ cts	3.	\$ ets.		\$ cts.		\$ cts
162,414	199 70	289,116	2,905 0	168,852	1,657 64	16,416	328 35	85,315	500 5
No. 11,903	139 64	No. 13,645	167 0	No. 5,305	87 00	No.		No. 24,184	172 8
Tons.		Tons.		Tons.	1 74	Tons.		Tons.	3 7
• • • • • • • • • •		59,460	495 7	1,120	19 60			5,540	43 9
36	0 30	32,746 35,468	886 7	2 15,186		271	2 71	12,689	150 2
377	4 30	5,173 5 367,049	1 0 26,529 7	5 21		441	4 41	291 2,712	47 0
• • • • • • • • • • • • • • • • • • • •	••••	1,119 1 1,544	0 0 195 5	9				904 357	9 6
• • • • • • • • • • • • • • • • • • • •	•••••	7,271	155 1	8 350	8 11			7,466	10 6
	••••	11,426					 		
13	1 05	$\begin{array}{c} 11\\46\\2\end{array}$	17 4 0 5		13 10 0 08			94 176	7 9
4,020		737 4,180	43 8						1 9
		5,618						550	11 0
	• • • • • • • • • • • • • • • • • • • •	20 20	0.0		6 08			25	0 2
4,446	55 90	532,084	28,326 0	55,563	2,534 73	712	7 12	30,899	351 5
•••••	•••••	412	31 8					6	0 1
18		$\begin{array}{c} 24 \\ 162 \end{array}$	1 8 8 0		0 58			28	0 4
• • • • • • • • • • •	•• • • • • • • • • • • • • • • • • • • •	400	34 4	.8	0 05			14	0 1
18	0 37	998	76 2	4 15	0 63			48	$-\frac{0.7}{0.7}$
9	0 18	6 11	0 6						
3									••••
				20			•••		
10 2		18	1 6	. 38 5 356	0 93 8 66				
10	, 010	6	0 4 0 7	8					
23	0 10	8			1				
		1,432	126 (_			************		
70	1 35	1,481	129 9	4 570	15 69	1	l .	1	

No. (A) 15.—Summary Statement of Traffic on the undermentioned Canals

A 42 Au	Welland	Canal.	St. Lawren	ce Canals.	Chambl	y Canal.
Articles.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
Agricultural Products.		\$ cts.		\$ cts		\$ cts.
Agricultural products not enumerated, vegetable	403	20 45	3,867	253 66		
do doFree		6 97		292 33	875	
do Free	. 	868 90	28			
doFree			959	112 28		
Buckwheat		••••	3,930	148 49		
doFree		16,489 10	8,358 70,235	533 35		
Tax and hemp	208 44,044	31 20 8,678 56	22	3 30 431 29	649	91 04
doFree Iay, pressed			30.864			21 80
doFree	33 124	4 95	52	112 32	17,911	1,222 19
Ieals, all kindsFree	46,381	9,276 20	65	78 15		
fanilla	25 18,236	3 75 1,824 20		1 80 53 45	977	32 6
lo Free			1,654			
otatoes	14	1 05		875 80 2 41	3	0 1
eeds, flax, clover and grass	1,007 14	151 05 2 80		44 85 16 75		
do doFree	25 16	3 20	5	38		
Vheat	203,088	20,284 90	5,667 158,643			
Total	<u></u> -	57,647 28		3,545 39	20,431	
Manufactures.						
Ashes, pot and pearl	137	16 44	1	6 60		
do doFree Agricultural implements	77	11 55		8 5 5		
arrels, empty Free	36	6 76	300	45 05	6	0 20
do Free	723 24	138 31	7,088	281 02	526	50 7
ement and water limeFree	327,	27 81	8,792	937 90	140	14 00
rockery and earthenware	29	4 35	135	23 73		0.50
do doFree urniture	12 28	3 65				
lass, all kindsFree	394	0 65		228 27		
ron, railway	185 2,090	36 28 414 92		6 68 49 15		
doFree		786 89	79			
do Free	1,831		1,766	1,311 91	····	0.70
do Free	464 20	74 47	100	74 10	696	69 40
failsFree	106 1,149	12 11		414 10		
oilFree	286 31	46 63	1,008	153 00	39	3 81
Dil cake			34	3 06		
Paint	[21	$\begin{array}{c} 3 \ 25 \\ 44 \end{array}$	534	67 76	• • • • • • • • • • • • • • • • • • • •	

during the Season of Navigation ended 31st December, 1895, &c.—Continued.

Murray	Canal.	Ottawa	Canals.	Rideau	Canal.	St. Peter	's Canal.	Trent Can	
Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
	\$ cts.		\$ cts.		\$ cts.		\$ cts.		\$ cts.
42	0 83	35	2 33	18	0 56	1,446	14 46		·····
277	5 34	17	1 02	139	4 23	· · · · · · · · · · · · · · · · · · ·			· · · · · · •
293	5 50	····i	0 06	62	1 55				
250	4 69	7	0 69	2	0 05	•••			
4	0 08		.	8	0 20				
			0 10	16	0 40	• • • • • • • • • •	• • • • • • • •		
4	0 08	3 63	0 18 5 96	385	9 65	687	6 87		
••••		1,084	103 79	1,703	45 91				
			. 						
		6	0 60	7	0 18	••••	• • • • • • • • •		
		249	21 41	12 4 5	1 05 1 07				.
238	4 50	92	7 08	6	0 14	• • • • • • • • • • • • • • • • • • • •			
	4 50	114	8 03	61	1 58	• • • • • • • • • • • • • • • • • • • •			
374 2	7 06 0 04	2 8	0 20 0 79	1	0 03				
				· • • • • · · · · · ·	• • • • • • • • •				
261	4 90		• • • • • • • • • • • • • • • • • • • •	767	19 67	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	201	2 0
					· · · · · · · · · · ·	····			•••••
1,745	33 02	1,682	152 24	3,232	86 27	2,133	21 33	201	2 01
		16	3 04	24	3 11				
20	0 50	10	i 90		8 85			······i	0 03
	••••	33	3 99	37	2 59				
• • • • • • • • •	••••			351	9 93	• • • • • • • • • • • • • • • • • • • •		434	4 9
·····i9	0 37	\cdots_{2}	0 20	372	9 51				
·····	· • • • • • • • • • • • • • • • • • • •	3	0 57	50	4 47		· · · · · · · · · ·		
	0 05							,	
312 19	8 12 0 49	15 4	2 27 0 76	28 53	2 93 4 73			· · · · • • • • • • • • • • • • • • •	
	•••••			4	0 10				
12	0 23			36	1 06				
203	3 83	41	4 04	639	17 00	39	0 39		0 0
			••• •••••	97	8 48			ļ	
	•••••				12 94				
7	0 18			138	1			1	
100	2 53	6	1 05	215	19 12				
2	••••			5 19	0 13				
91	0 05	1	0 19	19	: 171	1	,		

No. (A) 15.—Summary Statement of Traffic on the undermentioned Canals

A 1	Welland	Canal.	St. Lawren	ce Canals.	Chambly	Canal.
Articles.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
Manufactures—Concluded.		\$ cts.		\$ cts.		\$ cts.
PaintFree Pitch and tar	75 31	4 65	2 431	40 91	204	20 40
doFree Rosin Soda ash	67 21	3 18	2,003 791	1 2 7 21 155 78	2,252	225 22
do	84 859 77	138 46	501 101	81 15		
doFree	883 528 6,735	175 2t	394	256 98 715 13	3,570	987 0
Sugardo Free	1,430 51	6 21	1	149 50		357 00
do Free Furpentine	396 5	- 0 78	47 84	3 13 15 95		
do Free Whiting	7 113		621	122 37	· · · · · · · · · · · · · · · · · · ·	
Woodenware	32	12 80	.	20 50		
Total	25,438	2,935 27	59,312	5,437 58	7,447	741 9
Brimstone, crude	672 524 158,866	100 80 43 60 31,773 00	24,020	79 82 997 70 26,129 33	3,580 95,680	397 9 9,401 8
do Free Dye woods and dye stuffs Fish Fypsum	4	0 6	. 55	6 60 19 52 27 53		
Ores, all kinds	1,140 860	129 0	21 131	3 81 14 65	26	2 6
do Free	54 932 4,099	8 5 436 6		410 01 101 19	355 151	23 (
All other goods and merchandise, not enumerated	,	9,767 2	,	1,707 17	3,819	
Total	232,537	42,316 5	338,793	29,497 32	103,611	10,171
Grand totals, passengers and tonnage of vessels not included	869,595	138,713 6	828,228	61,143 66	359,027	25,920 6

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 18th November, 1896.

during the Season of Navigation ended 31st December, 1895, & 3.—Concluded.

Murray	Canal.	Ottawa	Canals.	Rideau	Canal.	St. Peter	's Canal.	Trent Can	
Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
	\$ cts.		\$ cts.		\$ cts.		\$ cts.		\$ cts.
	• • • • • • •			43	3 76		• • • • • • • • • • • • • • • • • • • •		• • • • • • • •
	0 13			33	2 89				
24	0 62	8	1 43		9 42	• • • • • • • • • •	****		
15	0 40	9	1 71	53	1 34				· · · · · · · · ·
1	0 03			18	1 62				
••••••				20	1 77				
78	1 97			29	2 56	• • • • • • • • •	• • • • • • • • •		
2	0 10	[1	0 09				
821	19 60	148	21 15	3,031	182 06	39	0 39	440	4 98
	0 02	4,287	113 53 7 59		70 10 840 06	315 4,94 5	3 15 49 45		
i	0 02	1 3	0 19 0 26	2			2 90		• • • • • • • • • • • • • • • • • • • •
2 16 30		8			26 00 0 96 1 85 52 86		0 04		•••••
1,606 2,033			0 57 57 38		14 02 107 79				5 40 4 0
4,224	78 36	4,827	181 53	26,342	1,115 24	6,944	69 44	678	9 4
11,324	527 94	541,220	31,959 29	88,753	5,679 26	9,828	126 63	32 266	1,042 0

RICHARD DEVLIN,
Compiler of Canal Statistics.

APPENDIX A-Continued.

No. (A) 16.—Statement showing the Amount of Tolls accrued each month during the Season of Navigation ended 31st December, 1895.

Total.		2,012 31 851 68 851 68 25,458 41 10,540 66 1,957 77	61,143 66 12,625 47 12,678 68 616 52 25,920 67
ecember.	ts	1,349 24 1 3 97 2 83	08 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
November December.	33 24 368 24 25 38	13,220 03 151 70 187 13 2,660 01 1,281 04 1,33 30 1,933 28	6,396 46 1,589 40 230 56 73 39 1,953 35
October.	0. 4.0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	210 49 82 15 2,190 13 2,045 19 2,592 67	2,338 60 1,468 56 108 98 3,916 14
September		298 24 76 55 3,203 83 1,001 54 241 82 2,629 67	2,200 80 2,111 59 80 71 4,393 10
August.	\$ c 2 13,036 6,301 75 75 75 108	19,527 05 548 47 60 68 5,020 17 529 83 486 53 3,292 93	2,142 80 1,624 24 80 77 3,847 81
July.	8 c 12,163 4,645 95 95 95 95 143	17,065 75 483 38 97 44 3,559 79 1,407 51 303 55 3,340 05	9,191 72 1,793 39 2,828 22 95 41 4,717 02
June.	249 249 56 50 50 51	21,280 41 251 68 176 96 4,240 03 2,345 52 248 03 3,322 36	10,584 58 1,919 07 1,350 54 73 63 3,343 24
May.	\$ c 3 16,117 12,177 16,177 16,18 84 84	68 35 164 55 4,519 20 1,438 75 249 86 3,207 47	9,648 18 641 41 3,004 97 89 82 3,736 20
April.	902 035 1 1 42	6,983 48 6,983 48 2 2 25 62 45 491 28 90	561 28 13 81 13 81
January	86 Other		
Canals and Offices.	Welland Canal. Chippawa Colborne Dahousie Danville Maitland PRobinson	Total Welland Canal. Sr. Lawrence Canals. Beauharnois. Cardinal. Cornwall. Kingston. Lachine. Montreal.	Total St. Lawrence Canals. Chambly Canal. St. Johns St. Johns Total Chambly Canal.

	18,948 70 96 97 11,756 96 1,156 66	31,959 29		1,397 29 3,713 57 568 40	5,679 26		426 63				34 99 279 18	1,042 08	'	527 94	265,413 17
					:		222 27							1 89	1,580 20
	932 71 1 40 661 62 52 41	1,648 14		30 18 169 82 17 46	217 46		201 84		23 45		865 87 87 87 87 87	39 54		14 70	23,691 52
	2,730 53 14 63 1,472 30 119 82	4,337 28		142 14 391 61 54 46	588 21						24 81 28 95 78	149 97		54 45	30,173 59
	2,905 76 9 29 1,377 93 132 86	4,425 84		252 22 423 16 88 25	763 63		:				33 21	205 13		26 03	34,366 27
	2,297 02 14 62 1,621 26 261 72	4,194 62		266 11 564 28 101 87	932 26						26.69 12.869 12.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 13.869 14.869 15.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.869 16.	240 51		118 75	38,799 61
	3,285 96 12 94 2,167 44 305 63	5,771 97		297 27 880 65 141 88	1,319 80						3 4 8 5 2 2 5 2 2	183 99		100 15	38,350 40
	2,931 79 21 88 2,279 16 184 01	5,416 84		334 97 839 14 115 28	1,289 39				83 80 80 80	25.2	3 € 12 2 € 26 2 € 26	147 18		92 96	42,158 40
	3,665 33 22 21 2,133 87 97 37	5,918 78		74 40 442 11 49 20	565 71						4 72 35 52	69 19		57 38	48,469 10
_	199 60 43 38 2 84	245 82		2 80	2 86				:		9 57	6 57		7 83	7,821 56
	_		,				2 52								2 52
OTTAWA CANALS.	Ottawa Carillon Grenville St. Anne's	Total Ottawa Canals	RIDEAU CANAL.	Kingston Mills. Ottawa Smith's Falls.	Total Rideau Canal	St. Peter's Canal.	St. Peter's	TRENT VALLEY CANALS.	Bobcaygeon	Burleigh Feader Fells	Hastings Peterborough	Total Trent Valley Canals	MURRAY CANAL.	Brighton	Grand Total

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RICHARD DEVLIN,
Compiler of Canal Statistics.

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th September, 1895.

APPENDIX A-Continued.

No. (A) 17.—Summary Statement showing the Number, Tonnage and Nationality of Vessels passed through all the Canals during the Season of Navigation ended the 31st December, 1895, and the amount of Tolls collected thereon.

TO TO TO TO TO	-Samo	2000			(1000							
	.196	From	From	From Canadian	om dian	From United States	From ted States	From United States	om States	E			
Vessels.	Juin N	to Canadia Ports.	to Canadian Ports.	United St Ports.	United States Ports.	United St Ports.	United States Ports.	Canadian Ports.	adian orts.	5	ž I	Total Tons.	Amount of Tolls.
	latoT	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		
Welland Canal. Canadian vessels, steam do sail	1,031	89,175 30,309	92,897 32,098	83,601 52,220	1,052		: :	3,559 675	82,396 49,743	176,335 83,204	176,345 82,743	352,680 165,947	\$ cts. 3,984 99 3,525 97
Total Canadian	1,513	119,484	124,995	135,821	1,954			4,234	132,139	259,539	259,088	518,627	7,510 96
United States vessels, steamdo	495	288	888	17,543	503	221,791 33,337	181,745 27,836	356	42,981 13,175	239,693 43,029	225,258 41,766	464,951 84,795	6,957 17 1,912 91
Total United States	709	591	31	26,606	1,256	255,128	209,581	397	56,156	282,722	267,024	549,746	8,870 08
Grand Total, Welland Canal	2,222	120,075	125,026	162,427	3,210	255,128	209,581	4,631	188,295	542,261	526,112	1,068,373	16,381 04
ST. LAWRENCE CANALS.													
Canadian vessels, steamdo	3,200	362,004 465,998	302,357 313,538	31,216 53,872	37		: :	661	20,112 92,188	393,220 520,531	322,506 405,726	715,726 926,257	$^{4,170}_{11,064}$ 26
Total Canadian	7,649	828,002	615,895	85,088	37			199	112,300	913,751	728,232	1,641,983	15,234 52
United States vessels, steamdo	448 649	548 1,935	457 19,753	2,150	1,606	6,631	6,365	419 31,479	$\frac{1,820}{17,096}$	9,748	8,657 39,051	18,405 87,028	119 75 682 83
Total United States	1,097	2,483	20,210	16,232	1,621	7,112	6,961	31,898	18,916	57,725	47,708	105,433	802 58
Grand Total, St. Lawrence Canals	8,746	830,485	636,105	101,320	1,658	7,112	6,961	32,559	131,216	971,476	775,940	1,747,416	16,037 10
CHAMBLY CANAL.									-				
Cauadian vessels, steamdo sail	472 630	38,487 7,093	41,534	119 14,081	100		::		504 22,534	38,606 21,174	42,038 30,290	80,644 51,464	250 83 736 78
Total Canadian	1,102	45,580	49,190	14,200	100				23,038	59,780	72,328	132,108	987 61
					-		•	-	•	~	-	•	

United States vessels, steamdo	2,140	1,170	2,506	378 90,644	202	:::::::::::::::::::::::::::::::::::::::			331 104,427	445 91,814	331 107,138	776 198,952	7 95 2,460 36
Total United States	2,160	1,237	2,506	91,022	205	:			104,758	92,259	107,469	199,728	2,468 31
Grand Total, Chambly Canal	3,262	46,817	51,696	105,222	305				127,796	152,039	179,797	331,836	3,455 92
OTTAWA CANALS.													
Canadian vessels, steam do sail	865 1,169	41,688	96,684 119,466		318 10,892	: :		: :		41,688	97,002 $130,358$	138,690 134,895	$^{597\ 78}_{1,937\ 03}$
Total Canadian	2,034	46,225	216,150	:	11,210		:			46,225	227,360	273,585	2,534 81
United States vessels, steam.	160	2,200	108		13,220					2,200	13,328	3 15,528	0 25 370 01
Total United States	191	2,200	108		13,223					2,200	13,331	15,531	370 26
Grand Total, Ottawa Canals	2,195	48,425	216,258		24,433	: :				48,425	240,691	289,116	2,905 07
RIDEAU CANAL.													
Canadian vessels, steam do do sail	1,298	47,719 23,462	47,903 24,128	1,120 $3,647$::			1,520 3,561	48,839 27,109	49,423 27,689	98,262 54,798	704 32 656 38
Total Canadian	2,091	71,181	72,031	4,767					5,081	75,948	77,112	153,060	1,360 70
United States vessels, steamdo	203	522 1,753	314	555 4,049	1,281				1,128 4,530	1,077 5,802	1,509	2,586 13,206	25 59 271 35
Total United States	284	2,275	1,907	4,604	1,348			:	5,658	6,879	8,913	15,792	296 94
Grand Total, Rideau Canal	2,375	73,456	73,938	9,371	1,348				10,739	82,827	86,025	168,852	1,657 64
ST. PRIER'S CANAL.													
Canadian vessels, steam	52 196	3,431	2,477	: :	: :	: ;	: :	383	: :	3,431	2,477 4,623	5,908 10,508	$\frac{118}{210} \frac{17}{18}$
Total Canadian	248	8,933	7,100			:		383		9,316	7,100	16,416	328 35
United States vessels, steam.													
Total United States		:	:	:	:						- :		
Grand Total, St. Peter's Canal	248	8,933	7,100					383		9,316	7,100	16,416	328 35

No. (A) 17.-SUMMARY STATEMENT Showing the Number, Tonnage and Nationality of Vesselv, &c. - onlinued.

Vessels.	Number.	From Canadian to Canadian Ports.	From Canadian to Canadian Ports.	From Canadian to United States Ports.	om dian States ts.	Fr United United Po	From United States to United States Ports.		From United States to Canadian Ports.	Tons.	18.	Total Tons.	Amount of Tolls.
	LatoT	Up.	Down.	Up.	Домп.	Up.	Down.	Up.	Down.	Up.	Do n.		
TRENT VALLEY CANALS.								•					s cts.
Canadian vessels, steam and do sail	1,385	24,732 17,329	25,258 17,996							24,732 17,329	25,258 17,996	49,990 35,325	363 04] 137 50
Total Canadian	1,947	42,061	43,254	:				:		42,061	43,254	85,315	500 54
United States vessels, steam do							: :						
Total United States													
Grand Total, Trent Valley Canals.	1,947	42,061	43,254				:			42,061	43,254	85,315	500 54
MURRAY CANAL.													
Canadiau vessels, steamdo	448 104	95,982 1,400	35,427 1,641	13,092 725				499	12,737 258	109,573 2,247	48,164 1,981	157,737 4,228	172 45 23 39
Total Canadian	552	97,382	37,068	13,817	82			621	12,995	111,820	50,145	161,965	195 84
United States vessels, steamdo	13	52	9	55.33	50				182	38 107	119 188	154 295	0 61 3 25
Total United States	16	52	9	8	59				242	142	307	449	3 86
Grand Total, Murray Canal	268	97,434	37,074	13,907	141			621	13,237	111,962	50,452	162,414	199 70
والمدار والمستورة والمراورة والمراورة والمستورة والمراورة والمراورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستورة والمستور													

No. (A) 17.—SUMMARY STATEMENT showing the Number, Tonnage and Nationality of Vessels, &c.,—Concluded.

RECAPITULATION.

	nber.	From Canadian	m Jian	From Canadian	om dian	From United States	States	From United States	m States	E			· · · · · · · · · · · · · · · · · · ·
Vessels.	ın V la	Canadian Ports.	lian ts.	United States Ports.	States trs.	United States Ports.	ted States Ports.	to Canadian Ports	to adian orts	0	i	Total Tons.	of Tolls.
	тот	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down	Up.	Down.		
CANADIAN VESSEIS. Steam and Sail.													es cts.
Welland St. Lawrence Chambly	1,513 7,649 1,102	119,484 828,002 45,580	124,995 615,895 49,190	135,821 85,088 14,200	1,954 37 100			4,234	132,139 112,300 23,038	259,539 913,751 59,780	259,088 728,232 72,328	518,627 1,641,983 132,108	7,510 96 15,234 52 987 61
Ottawa. Rideau. St. Peter's	2,034 2,091 248		216,150 72,031 7,100	: :	11,210			383	5,081	46,225 75,948 9,316	227,360 77,112 7,100		2,534 81 1,360 70 328 35
Trent Valley.	1,947		43,254 37,068	13,817	88			621	12,995	42,061 111,820	43,254 50,145		. 195 84
Total Canadian	17,136	1,258,848	1,165,683	253,693	13,383			5,809	285,553	1,518,440	1,464,619	2,983,059	28,653 33
UNITED STATES VESSELS.													
Steam and Sail.			-										
Welland St. Lawrence St. Lawrence	1,097 2,160	2,483 1,237	31. 20,210 2,506	26,606 16,232 91,022	1,256	255,128 7,112	209,581 6,961	31,898	56,156 18,916 104,758	282,722 57,725 92,259	267,024 47,708 107,469	549,746 105,433 199,728	8,870 08 802 58 2,468 31
Rideau St. Poter's.	288	2,275	1,907	4,604	1,348				5,658	6,879	8,913	15,792	296 94
Trent Valley Murray	16	52	9	8	59		: :		242	142	307	449	3.86
Total United States	4,427	8,838	24,768	138,554	17,712	262,240	216,542	32,295	185,730	441,927	444,752	886,679	12,812 03
Grand total, Canadian and United States	21,563	1,267,686	1,190,451	392,247	31,095	262,240	216,542	38,154	471,283	1,960,367	1,909,371	3,869,738	41,465 3

DEPARTMENT OF RAILWAYS AND CANALS,
OTTAWA, 18th November, 1896.

RICHARD DEVLIN,
Compiler of Canal Statistics.

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RICHARD DEVLIN,
Compiler of Canal Statistics.

APPENDIX A-Continued.

No. (A) 18.—Comparative Statement of Grand Total Freight passed through the undermentioned Canals during the Seasons of Navigation of 1894 and 1895, and the Amount of Tolls collected on the same, including Tolls on Vessels and Pussengers.

	Tons. Total Amount of Tons.	Down.	& cts.	758,783 1,008,821 159,694 638,417 886,778 63,005 109 151 977 608 21.149	30,565 94,479 5,836 39 561,657 562,010 34,042 78 8 39,142 55,460 2,637 14	12,003 36,271 1,009 12,475 21,888 756	2,162,193 2,942,715 288,131 01	635,712 869,595 138,713 596,771 828,228 61,143	116,491 359,027 25,920 31,677 88,753 5,679 541,047 541,990 31,959	8 6,410 9,828 426 63 7 10,349 32,266 1,042 08 2 6,252 11,324 527 94	2 1,944,709 2,740,241 265,413 17
		Up.			353 353 16,318	24,26 257 9,41	36 780,522			3,418 21,917 326 5,072	56 795,532
	From United States to Canadian Ports.	Down.		242,687	14,0	. 63	568,866	271,375			574,156
	For Car	Up.	<u> </u>	3 1,270 3 44,750			46,020	3 1,565 2 43,838	:	27.9	5 45,941
	From United States to United States Ports.	Down.		361,319 1,788			363,107	263,163 922			264,085
1	For Unite	Up.		230,948			231,172	214,520			214,799
	From Canadian to United States Ports.	Down.		36,910 222	1,003	120	89,614	4,156	:	6	71,992
	Can Can Unite	Up.		9,597 17,607 187,086		1,327	204,175	12,470 12,569		561	280,387
	From Canadian to Canadian Ports.	Down.		117,867 425,789 7,934		12,003	1,140,606			10,349 10,349 5,926	1,034,476
	Can Can Can	Up.	 	7,623	45,356 353 16,318	24,268 8,086	299,155	5,328	38,882	3,139 21,917 4,253	254, 105
8			1894.	WellandSt. Lawrence	Chamoly Ottawa St. Detail	Trent Valley Murray	Grand total	1895. Welland St. Lawrence	Chambly. Ottawa	Kideau K. Peter's. Trent Valley Murray.	Grand total

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 18th November, 1896.

APPENDIX A-Continued.

No. (A) 19.—STATEMENT of the Number and Tonnage of all kinds of Vessels passed through the Canals during the Season of Navigation in 1895.

WELLAND CANAL.

	(Canadian.				UNITED S	States.	
S	team Vessel	la.	Sailing	Vessels.	Steam V	essels.	Sailing	Vessels.
Connage.	Number.	Total Tonnage.	Number.	Total Tonnage.	Number.	Total Tonnage.	Number.	Total Tonnage
8 10 15 20 25 30	8 2 2 1 5 6	64 20 30 20 125 180	4 9 2 1 1	32 90 30 20 25	4 3 3 3	32 30 45 60	3 2 1 1	24 20 15 20
35 40 45	$\begin{bmatrix} & & 7 \\ & & 1 \end{bmatrix}$	245 45	1 1	40 45	3 2 1	105 80 45	1 1	35 40
50 55 60 65	3	150	5	300	1 1	55 60	$\begin{bmatrix} 1 \\ 3 \\ 2 \end{bmatrix}$	180 130
70 75 85 90	1 1 1	70 75 85					2	130
95 100	1 1	90 95	1 2	90			1	100
110 135 145 150			1 1 3	110 135 435			2 	220
160 165 190	1 1	160 165	1 1 1	300 165 190				
200 205 210	2	400	2	400	1	205		
220 225 230	2	410	1 1	225 230				
245 250 260	2	520	1	250			1 2	24 52
265 270 280	***********		2	560	2	560	2 2 2	53 54 56
285 290 295	1	295	1 3	290 885			1 1 1	28 29 29
300 305 310 315	3	915	2	620			1 2 3	30 61 93
320 325 330			2 2	640 650 330	1	320	2 3 2 1 2	63 32 65
335 340			3	1,005			1 1	33 34 35
355 360 365 400	1	360			3	1,098	5	40

APPENDIX A-Continued.

No. (A) 19.—Statement of the Number and Tonnage of all kinds of Vessels, &c.—Continued.

WELLAND CANAL-Continued.

		Canadian.				UNITED S	States.	
s	team Vessel	ls.	Sailing	Vessels.	Steam V	essels.	Sailing	Vessels.
onnage.	Number.	Total Tonnage.	Number.	Total Tonnage.	Number.	Total Tonnage.	Number.	Total Tonnage
415		415						
415 440	1 2	415 880						• • • • • • • • •
440 455	1	880 455	2	910		• • • • • • • • • • • • • • • • • • • •		
460		200	í	460				
465	i	465		400				· • • • • • • • • • • • • • • • • • • •
470	1 1	700			i	470	2	940
485		····		1		710	$\frac{2}{2}$	970
490	1	490		1	i	490	í	490
500	2	1 000		1		100	l *	100
510	$\frac{1}{2}$	1,000 510						l
515	i	515	l				1	518
530	i	530		1		1		
540			l	1	2	1,080		
545	2	1,090	1	545		1	l	
550			l	1	1	550		l
560	1	560	1	1	ll		1	
575	1	575		1		1		1
585				1	II	l 	i	588
59 0			1	590			$\hat{2}$	1,180
595				l	. 1	595		
600	1	600					2	1,200
605					1	605		
615					2	1,230]	
620					1	620	1	620
625				\ · · ·	2	1,250		
630							1	630
640			[<u>.</u>		2	1,280		
645			1	645			[
655					1	655	1	655
660					1	660		
680						\	1	680
685			1	685				· · · · · · · ·
695			· · · · · · · · · · · ·		1	695		
707			· · · · · · · · · · · ·		[·····································		2	1,414
710		/ • • • • · · · · · · · · · · · · · · ·		710	1	710		
719 795			1	719	1	705		·····
725 740					1	725	1	740
740 769	····i	769					1	140
771	1	769 771						
775	1	(''1	•••••••		1	775		
787					i	787		
796	1			1	î	796		
800	1			1	î	800	1	
802	1		1	802		l .	2	1,604
837			.	1	1	837	. . .	
838					·		1	838
870							ī	870
880				1	1	880		
904		<i></i>	<i></i>	(1	904		
908			1	908				
911			<i></i>	1	1	911		
918	1	ı	1	1	1	918	I	1

APPENDIX A-Continued.

No. (A) 19.—Statement of the Number and Tonnage of all kinds of Vessels, &c.—Continued.

WELLAND CANAL—Concluded.

		Canadian.				UNITED	States.	
S	team Vessel	8.	Sailing	Vessels.	Steam V	essels.	Sailing	Vessels.
'onnage.	Number.	Total Tonnage.	Number.	Total Tonnage.	Number.	Total Tonnage.	Number.	Total Tonnage.
940 950 962 968 977 978 994 997 1,013 1,022 1,035 1,035 1,041 1,053 1,085 1,086 1,111 1,172 1,180 1,189 1,203 1,203	1	977 1,035	1	1,041		940 950 962 968 978 985 997 1,013 1,022 1,029 2,070 1,038 1,053 1,054 1,083 	3	2,982 1,085 1,086
1,267 1,425 1,441 1,547 1,548 1,550 1,553 1,565	81	21,044	69	15,647	1 1 1 1 1 1 2 1 2 1	1,425 1,441 1,547 1,548 1,550 1,553 1,565	73	29,233

APPENDIX A-Continued.

No. (A) 20.—Statement of the Number and Tonnage of all kinds of Vessels passed through the Canals during the Season of Navigation in 1895.

St. LAWRENCE CANALS.

		Canadian.				UNITED S	States.	
s	team Vesse	ls.	Sailing	Vessels.	Steam	Vessels.	Sailing	Vessels.
Tonnage.	Number.	Total Tonnage.	Number.	Total Tonnage.	Number.	Total Tonnage.	Number.	Total Tonnage
8	27	216	16	128	4	32	2	16
10	27 11	110	19	190	2	20	1	10
15	12	180	2	30	1	15	1	15
20	3	60	11	220	3	60	2	40
25 30	11	275 240	5 10	125 300		· · · · · · · · · · · · · · · · · · ·	$\frac{1}{2}$	25
30 35	. 6.	240 210	10	300	i	35	Z	60
40	9	360	14	560	i i	40	·····i	40
45	3	135	4	180	ll î	45	•	10
50	7	350	6	300	3	150	3	150
55	3	165	2 25 1	110	1	55		
60	9	540	25	1,500	1 1	60		
65	8 6 9 3 7 3 9 2 1	130	1	65	1	65		• • • • • • <u>• •</u> •
70 75	3	70 225	4	280 150	1	75	1	70
80	1	80	2 6	480	1 1	80	····· 2	160
85	i	85	5	425			6	510
90	3	270	7	630	1	90	11	990
95			9	855			48	4,560
100	3	300	21	2,100			81	8,100
105	4	420	9	945			23	2,415
110	3 2 3 1	330	8 9	1 025		•••••	9	990
115 120	2	230 360	8	1,035 960			6 '	690 960
120 125	1	125	4	500			, s	960
130	i	130	$\hat{\mathbf{s}}$	1,040				
135			5	675	1			
140	1	140	5	700				
145	2	290	10	1,450				
150			16	2,400				
155 160	2	310	34 15	5,270 2,400		•••••	2	320
165	6	990	16	2,400			Z	320
170			6	1,020				
175			3	525				
180			5	900				
185			3	555				
190	1	190	4	760				
195 200	3	600	3 2	585 400	• • • • • • • • • • • • • • • • • •	•••••	[
200 220	,	600	í	220				
230			5	1,150				
250			ĭ	250				
255			1	255			1	
260			$\frac{2}{3}$	520				
265	1	265	3	795	[[
270	·····i		2	540	[[· · · · · · · · · · · · · · · · · · ·		
275 285	1	275	1	275]]			
280 290	, i	290	1	290			1	285
300		250	3	900	[[
305	1	305	8	2,440				
310	1 -	1	3	930			l	

APPENDIX A-Continued.

No. (A) 20.—Statement of the Number and Tonnage of all kinds of Vessels, &c.—Continued.

St. LAWRENCE CANALS—Continued.

		Canadian.				UNITED S	States.	•
s	team Vesse	ls.	Sailing	Vessels.	Steam	Vessels.	Sailing	Vessels.
Fonnage.	Number.	Total Tonnage.	Number.	Total Tonnage.	Number.	Total Tonnage.	Number.	Total Tonnag
315			9	630				
320			$\frac{2}{3}$	960			· · · · · 2	640
325	1	325	$\tilde{2}$	650				010
330	i		ī	330				
335	1	335	3	1,005		l	1	335
340		l	4	1,360			1	340
345	2	690	2	690			1	345
350			2	700				·
360 365			2 1 3 4 2 2 2 2 3	720				
370	1	36 5	3	1,095	• • • • • • • • • • • • • • • • • • • •			
375	• • • • • • • • • • • • • • • • • • • •		2 2	740				
390		• • • • • • • • • • • • •	1	750 390				
395		395	1	395			• • • • • • • • • • • • • • • • • • • •	• • • • • • • •
400	1 1	400		383				
415		400	·····2	830				
435	i	435	í	435			1	435
440	2	880	î	440			i	440
445	. 1	445	ī	445			l .	
450	1	<i></i>	ī	450				
455	1	445					1	
475	1	475	1	475			1	475
490	1		1	490				
500	1	500	1	500				
510 515	2	1,020						
516	•••••		1	515				• • • • • •
518			2	1,032				
520			1	518				• • • • • • •
541	•••••			1,082				• • • • • • •
543			2 1	543				
545	i	545						
567			1	567		l	1	
570	1	1	.			1	I	1
575	1	575		[l	
580				· · · · · · · · · · · · · · · · · · ·				l
585			1	585				
586			1	586		•••••		
590	2	1,180	1	590	· · · · · · · · · · · · · · · · · · ·		• • • • • • • • • • • • • • • • • • • •	
595 600	1	595						
628	1	600		696	::			· · · · ·
630			1	628				
680	1							
681	1	680	1	681	:			
685			•	661				
695	i	695						
715	i	715					J	1
719	1	110	1	719	ll			
769	1	1	i	769				
771	1	l	î	771				1
775	1	1	_	1	II		1	

APPENDIX A-Continued.

No. (A) 20.—Statement of the Number and Tonnage of all Kinds of Vessels, &c.— Concluded.

St. LAWRENCE CANALS —Concluded.

		Canadian.	United States.							
Si	team Vessel	s.	Sailing	Vessels.	Steam	Vessels.	Sailing	Vessels.		
Tonnage.	Number. Total Tonnage.		Number.	Total Tonnage.	Number.	Total Tonnage.	Number.	Total Tonnage		
805 929 1,185 1,285			i 1	929						
1,485 Total	181	21,556	430	69,113	22	822	219	23,416		

APPENDIX A-Continued.

No. (A) 21.—STATEMENT of the Number and Tonnage of all kinds of Vessels passed through the Canals during the Season of Navigation in 1895.

RIDEAU, OTTAWA AND CHAMBLY.

	(Canadian.				UNITED S	STATES.	
S	tean Vessel	s.	Sailing V	Vessels.	Steam	Vessels.	Sailing V	Vessels.
Tonnage.	Number.	Total Tonnage.	Number.	Total Tonnage.	Number.	Total Tonnage.	Number.	Total Tonnage
8	56	448	215	1,720	11	88	21	168
10	9	90	23	230	2	20		· • • • • • • • • • • • • • • • • • • •
15 20	12	180	9 9	135	7	105		· · · · · · · · ·
25 25	8 9	160 225	5	180 125	1	20	3	75
30	3	90	2	60			3	75
35	ĭ	35						
40	4	160	9	360	1	40	1	40
45			2	90		· • • • • • • • • • • • • • • • • • • •		
50	5	250	7	350	[[2	100
55 60	2 2	110	$\frac{3}{1}$	165				· · · · · · · ·
65	Z	120	1	60			2	130
70		•••	1	70	2	140	8	560
7 5	3	225	1 1	300	ļ	140		500
80	1	80	3	240			2	160
85	1	85	2	170	. 1	85	8	680
90	2	180	4	360			16	1,440
95 100	1	95	5	475	1	95	99	9,405
105	1	100 105	12 6	1,200 630			179 4 1	17,900 4,305
110	1	100	5	550		• • • • • • • • • •	27	2,970
115				230		1	20	2,300
120	1	120	2 7 5 3 2	840			10	1,200
125	3	375	5	625			1	125
130 135			3	390	h			
140	• • • • • • • • • • • • • • • • • • • •	140	6	270 840			1	140
145	$\frac{1}{2}$	290	12	1,740				140
150	1 2	200	16	2,400			1	
155	1	155	28	4,340				
160			15	2,400	11			
165			12	1,980	 	\		
170 175			4 3	680 525	!		1	
180			2	360			1	• • • • • •
185			ī	185	11			
190	1	190	2	380	 			
195			. 1	195				
200	1	200	2	400		····	• • • • • • • • • • • • • • • • • • • •	
262 289	1	262		289	 			
289 324	[324	1	289	II		1	
332	1 1	332						
397	1 1	397	1	1		1		1
691	li	691			∦			
				·		·	-	-
otal	136	6,214	451	26,539	26	593	441	41,69

APPENDIX A-Concluded.

No. (A) 22.—Statement showing the Classified Tonnage of all kinds of Vessels passed through the Canals during the Season of Navigation in 1895.

WELLAND CANAL.

	Tonnage.	28,154 245 320 380 154	29,233
	No.	4.1 £ 9.0	73
. Sa	Sailing Vessels.	250 to 1,185 tons 200 249 150 149 50 99 Under 50	Total
STAT	Class.	01 to 4 70 to	
UNITED STATES.	No. Tonnage.	205,369 205 205 397	56,086
	No.	65 19 19	87
	Steam Vessels.	250 to 1,565 tons 65 200 ". 249 " 150 ". 199 " 100 ". 149 " 50 ". 99 " Under 50 "	Total
	Class.	-0004r0c	
	Tonnage.	12,535 455 1,055 880 440 282	15,647
	No.	822025	69
	Sailing Vessels. No. Tonnage.	250 to 1,041 tons 200 " 249 " 150 " 199 " 100 " 149 " 50 " 99 " Under 50 "	Total
JANADIAN.	Class.		
CANA	Tonnage.	18,310 1,050 325 630 729	21,044
	No.	82 2 2 28	81
	Steam Vessels. No.	250 to 1,267 tons 200 " 249 " 150 " 199 " 100 " 149 " 50 " 99 "	Total
editorial formation	Class.	H0164700	

T. LAWRENCE CANALS.

9 3,295	2 320	7 13,155		206	9 23,416
	:	127	=	<u>≃</u>	219
250 to 475 tons	3 150 " 199 "	1 100 " 149 "	, 66 ,, 02 ,	Under 50 "	Total
				_	
			575	247	822
:			6	13	83
250 to tons	150 " 199 "	100 " 149 "	, 66 , 92	Under 50 "	Total
	77 cc	7	ıO	9	
33,475	1,770	10,285	4,795	1,733	69,113
82	. 55 . 55			8	430
1 250 to 1,285 tons	3 150 " 199 "	,, 641 ,,	5 50 6 99 6	6 Under 50 "	Total
9	2 2	10	70	 9	92
13,	1.490			<u>, , , , , , , , , , , , , , , , , , , </u>	21,556
	m				181
250 to 715 tons	200 " 249 "	100 149 "	: 66 : 66	Under 50 "	Total

	28,940 12,475 283	41,698
	279 137 25	##
	250 to — tons 200 " 249 " 150 " 199 " 100 " 149 " 50 " 99 "	Total 441
	4 320 22 273	593
İ	4.8	56
RIDEAU, OTTAWA AND CHAMBLY.	2 250 to — tons	Total
VA A	- 046:4100	
OTTAV	289 400 13,445 7,315 2,190 2,900	26,539
EAU,		451
RID	250 to 289 tons 200 " 249 " 1150 " 199 " 50 " 99 " Under 50 "	Total
	200400	
ļ	2,006 200 345 1,130 1,388	6,214
į	25 17 102	136
	1 250 to 691 tons 2 200 :: 249 :: 4 100 :: 199 :: 5 50 :: 99 :: 6 Under 50 ::	Total 136

DEPARTMENT OF RAILWAYS AND CANALS,
OTTAWA, 18th November, 1896.

RICHARD DEVLIN, Compiler of Canal Statistics.

CANALS

CONSOLIDATED

Sec. 1.

No. 22.—RATES OF TOLLS ON THE CANALS

WELLAND, ST. LAWRENCE, RIDEAU, OTTAWA, CHAMBLY AND MURRAY CANALS.

(O.C., April 18, 1873.)

The Rates of Tolls are divided into Six Classes, as under, and are per ton, unless otherwise specified.		Welland Canal, westward.		Welland Canal, eastward.		Lake Erie to Montreal.	St. Lawrence Canals, each		Chambly Canal and St.			Kideau Canal, each way.	Ottawa Canals and St	Ann's Lock, each way.	Ottawa to St. Johns each			Murray Canal, each way.
Class No. 1.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.
Vessel, steamper ton. do sail and other	0	01 1 02 1	0	01 1 02 1	0	02 1 3 1	0 0	$00\frac{3}{4}$	0	00 3 01‡	0	$01\frac{1}{2}$ $02\frac{1}{4}$	0	00 § 01		01 1 02§	0	$\frac{3}{39}$ $\frac{1}{16}$
Class No. 2. Passengers, 21 years of age and upwards Passengers, under 21 years each		10 05		10 05		20 10		10 05		05 02		08 04		02 <u>1</u> 01 <u>1</u>		093 04 <u>1</u>	0	1½ 08
Class No. 3. Bricks, cement and water lime. Clay, lime and sand. Brimstone. Corn Flour. Iron, railway. do pig. do all other, including steel (O.C., Feb. 1. 1888). Plaster, gypsum Salt Salt meats or fish, in barrels or otherwise. Agricultural products, vegetable, not enumerated. Agricultural products, animal, not enumerated. Stone, for cutting. Wheat.		. 15	0	20	0	20	0	15	0	10	O	07	0	. 06	0	193	0	17
Class No. 4. All other articles, not enumerated		15		20		20		20		10		26		14		29	0	21

REVENUE

TARIFF OF TOLLS

OF THE DOMINION OF CANADA, 1895.

TRENT VALLEY CANALS.

(O.C., July 25, 1888.)

1st Section.	2nd Section.	3rd Section.	4TH SECTION.	Тикоисн.	Peterborough to
Fenelon Falls	Bobcaygeon to	Buckhorn	Burleigh to	Fenelon Falls to	Hastings, each way.
Bobcaygeon.	Buckhorn.	Burleigh.	Lakefield.	Lakefield.	Tolls Charge-
Tolls Charge- able at Fenelon Falls.	Tolls Charge- able at Bobcaygeon.	Tolls Charge- able at Buckhorn.	Tolls Charge- able at Burleigh.	Tolls Charge able at Fenelon Falls.	able at Peterborough and Hastings.
\$ cts.	\$ cts.	\$ ets.	\$ cts.	\$ cts.	\$ cts.
$ 0 \ 00^{\frac{3}{16}} $	$\begin{array}{c} 0.00^{-3}_{16} \\ 0.00^{\frac{1}{4}} \end{array}$	0 00 18 0 00 1	0 00 ₁ 8 0 00 1	0 00 3 0 01	0 00 [‡] 0 00 ²
0 01 0 00½	0 01 0 00½	0 01 0 00½	0 01 0 00½	0 04 0 02	0 01 0 00½
0 01	0 01	0 01	0 01	0 04	0 01
0 03	0 03	0 03	0 03	0 12	0 03

RATES OF TOLLS

WELLAND, ST. LAWRENCE, RIDEAU, OTTAWA, CHAMBLY AND MURRAY CANALS.

		===							====
The Rates of Tolls are divided into Six Classes, as under, and are per ton, unless otherwise specified.	Welland Canal, westward.	Welland Canal, eastward.	Lake Erie to Montreal.	St. Lawrence Canals, each way.	Chambly Canal and St. Ours Lock, each way.	Rideau Canal, each way.	Ottawa Canals and St. Ann's Lock, each way.	Ottawa to St. Johns, each way.	Murray Canal, each way.
Class No. 5.									
Bark Barrels, empty, each Boat knees, each Floats, per 1,000 lineal feet. Firewood, per cord, in vessels do do rafts Hoops.	0 20 0 02 0 05 1 40 0 20 0 25 0 25	0 20 0 02 0 05 1 40 0 20 0 25 0 25	0 20 0 02 0 05 1 40 0 20 0 25 0 25	0 15 0 02 0 02 1 40 0 20 0 25 0 20	0 10 0 02 0 02 1 20 0 10 0 15 0 15	0 07 0 02 0 02 1 05 0 15 0 19 0 15	0 06 0 01 0 01 0 50 0 08 0 09 0 10	0 19½ 0 03½ 0 03½ 2 05 0 23 0 30½ 0 30	$\begin{array}{c} 0 & 01\frac{7}{8} \\ 0 & 00\frac{1}{2} \\ 0 & 00\frac{1}{2} \\ 0 & 02\frac{1}{2} \\ 0 & 03\frac{1}{2} \\ 0 & 02\frac{1}{2} \end{array}$
Masts and spars, telegraph poles, per ton of 40 cubic feet, in vessels	0 15	0 15	0 15	0 05	0 05	0 08	0 07	0 131	0 00 §
40 cubic feet, in rafts	0 20 0 01 0 02	0 20 0 01 0 02	0 20 0 01 0 02	0 10 0 00½ 0 01	0 10 0 001 0 01	0 15 0 003 0 02	0 10 0 003 0 01	$\begin{array}{c} 0 & 22\frac{1}{2} \\ 0 & 01\frac{3}{2} \\ 0 & 02\frac{1}{4} \end{array}$	0 01½ 0 0 ₇ ½ 0 00½
sawed timber, per M. feet, board measure, in vessels. Sawed stuff, boards, plank, scantling and sawed timber, per M. feet, board measured timber, per M. feet, board measured timber.	0 30	0 30	0 30	0 15	0 10	0 114	0 063	0 20	0 01 3
sure, in rafts. Square timber, per M. cubic feet, in vessels. do rafts Wagon stuff, woodenware and wood, partly manufactured, per ton of forty cubic	0 60 3 00 4 50	0 60 3 00 4 50	0 60 3 00 4 50	0 30 1 00 2 00	0 20 1 00 2 00	0 19 0 56 1 12	0 09 0 44 0 63	0 36½ 1 69 3 13	$\begin{array}{c} 0 & 03\frac{3}{4} \\ 0 & 12\frac{1}{2} \\ 0 & 25 \end{array}$
feet	0 40 0 06	0 40 0 06	0 40 0 06	0 40 0 06	0 25 0 04	0 30 0 04½	$\begin{array}{c c} 0 & 20 \\ 0 & 02\frac{1}{2} \end{array}$	0 55 0 08	0 05 0 004
Split posts and fence rails, per M., in vessels	0 40	0 40	0 40	0 40	0 20	0 23	0 12	0 42	0 05
rafts	0 80 0 08 0 40 1 50 0 75	0 80 0 08 0 40 1 50 0 75	0 80 0 08 0 40 1 50 0 75	0 80 0 08 0 20 1 00 0 60	0 40 0 05 0 15 1 00 0 25	0 38 0 06 0 15 0 75 0 45	0 17 0 06 0 10 0 50 0 25	0 77 0 13 0 30 1 75 0 65	$\begin{array}{c} 0 \ 10 \\ 0 \ 01 \\ 0 \ 02\frac{1}{2} \\ 0 \ 12\frac{1}{2} \\ 0 \ 07\frac{1}{2} \end{array}$
cut, per M	0 08 0 50 2 00	0 08 0 50 2 00	0 08 0 50 2 00	0 04 0 50 2 00	0 03 0 40 1 50	0 03 0 38 1 50	0 02 0 15 0 65	0 06 0 67½ 2 65	0 001 0 061 0 25
Special Class.							***		
Gypsum, crude (per O. C., 28th Oct., 1882) Coal Stone, unwrought, corded, and not suitable		0 05 0 20	0 20	0 05 0 15	0 10	ward . 0 08	0 05	0 174	
for cutting, per cord	0 75 0 05 0 05	0 75 0 05 0 05	0 75 0 05 0 05	0 60 0 05 0 05	0 37½ 0 05 0 05	0 28 0 05 0 05	0 24 0 05 0 05	0 77½ 0 05 0 11	0 07½ 0 05 0 05

ON THE CANALS—Continued.

TRENT VALLEY CANALS.

1st Section.	2nd Section.	3RD SECTION.	4TH SECTION.	Тнкоисн.	
					Peterborough to
Fenelon Falls	Bobcaygeon	Buckhorn	Burleigh	Fenelon Falls	Hastings,
to to	to	to	to	to	each way.
Bobcaygeon.	Buckhorn.	Burleigh.	Lakefield.	Lakefield.	
Tolls Charge-	Tolls Charge-	Tolls Charge-	Tolls Charge-	Tolls Charge-	Tolls Charge
able at	able to	able to	able at	able at	able at
Fenelon Falls.	Bobcaygeon.	Buckhorn.	Burleigh.	Fenelon Falls.	Peterborough and Hastings
\$ ets.	\$ cts.	\$ cts.	\$ ets.	\$ cts.	\$ cts.
0.04]	-		-
0 01	0 01	0 01	0 01	0 04	0 01
0 001 0 001	0 00 1 0 00 1	0 001	0 00 1 0 00 1	0 01 0 01	0 00 1 0 00 1
0 13	0 13	0 13	0 13	0 52	0 13
0 03	0 03	0 03	0 03	0 10	0 03
0 04	0 04	0 04	0 04	0 14	0 04
0 02	0 02	0 02	0 02	0 08	0 01
0 02	0 02	0 02	0 02	0 08	0 02
0 01	0 01	0 01	0 01	0 04	0 01
0 00± 0 00±	0 001	0 001	0 001	$0.00\frac{1}{2}$	0 001
v 00 4	0 001	0 001	0 001	0 01	0 001
0 03	0 03	0 03	0 03	0 10	0 03
0 04	0 04	0 04	0 04	0 14	0 04
0 07 0 14	0 07	0 07	0 07	0 28	0 07
0 14	0 14	0 14	0 14	0 56	0 14
0 04	0 04	0 04	0 04	0 16	0 04
0 003	0 003	0 003	0 003	0 03	0 003
0 03	0 03	0 03	0 03	0 12	0 03
0 05	0 05	0 05	0 05	0 20	0 05
$\begin{array}{ccc} 0 & 00\frac{3}{4} \\ 0 & 02 \end{array}$	0 003	0 00\$	0 003	0 03	0 003
0 10	0 02 0 10	0 02	0 02	0 08 0 40	0 02
0 051	0 053	0 10 0 053	0 10 0 05½	0 22	0 10 0 05 1
~		-	-		-
0 00 <u>1</u> 0 05	0 00½ 0 05	0 00½ 0 05	0 00½ 0 05	0 02 0 20	0 001
0 20	0 20	0 20	0 20	0 80	0 05 0 20
Free.	Free.	Free.	Free.	Free.	Free.
0 01	0 01	0 01	0 01	0 04	0 01
0 031	0 031	0 031	0 031	0 14	0 031
0 00\$	0 004	0.003	0.004	0 04	0 004
Free.*	Free.	Free.	Free.	Free.	Free.

St. Peter's Canal.

Sec. 2. On each and every vessel passing through the said canal, two cents per ton on the vessel and one cent per ton on the freight, each way. O. C. June 23, 1883. Con. O. C. Oct. 26, 1889, sec. 109.

SPECIAL REGULATIONS RELATING TO TOLLS ON SOME OF THE CANALS.

- Sec. 3. Coal may pass up all canals, except the Welland Canal, free of toll. O. C. June 6, 1869. Con. O.C. Oct. 26, 1869, sec. 83.
- Sec. 4. Logs, lumber or other produce may pass free of toll down the Chippawa Creek, between the Aqueduct and Port Robinson. O. C. May 18, 1863. Con. O.C. Oct. 26, 1889, sec. 84.
- Sec. 5. (a) In view of the dam constructed across the Ottawa River at Carillon whereby the passage of the rapids at that point through the river is rendered difficult and at times impracticable, it appears necessary, owing to the continued difficulty attending passage through the slide built in the dam, that the Canal should be used by rafts, and until otherwise ordered, free passage be given to rafts through the Carillon Canal, subject to such regulations as the Department of Railways and Canals may find necessary in the interest of the traffic of the Canal to adopt. O.C. July 6, 1888.
- Sec. 5. (b) "Save in cases for which special permission may be given the Grenville Canal is closed to the passage of rafts, or any portion of a raft of any kind whatever." O.C. June 27, 1890.

Sault Ste. Marie Canal.

- Sec. 6. All vessels and freight shall be permitted to pass through the Sault Ste. Marie Canal free of toll upon such vessels and freight, until otherwise ordered.
- Sec. 7. (a.) All goods having paid full toll through the whole line of the St. Lawrence Canals, or through the Lachine Canal, Ste. Anne's Lock, or Ottawa and Rideau Canals, shall be allowed to pass free through the Welland Canal; and if tolls have been paid at the Chambly Canal such tolls shall be refunded at Montreal or Kingston Mills; and having paid full tolls through the Welland Canal, they shall be allowed to pass free through the St. Lawrence Canals, or through the Ottawa and Rideau Canals, Ste. Anne's Lock, the Lachine Canal and the Chambly Canal; provided always:—That the articles to be entitled to the above exemptions shall go downwards through the whole length of the canal to Montreal or pass upward from Montreal through the whole length of the St. Lawrence Canals, or the Ottawa and Rideau Canal, to Lake Ontario.
- (b.) All articles, goods or merchandise, not enumerated above, shall be charged to Class No. 4. O.C. April 18, 1873. Con. O.C. Oct. 26, 1889, sec. 86.
- Sec. 8. Goods shipped to any port west of the St. Lawrence Canals, tolls upon which have already been paid for passage through such canals, may be re-shipped from such ports and be passed through the Welland Canal free of tolls, in the same way as if they had been shipped through direct in the first instance; and goods going eastward, having paid Welland Canal tolls, may be transhipped at any port on Lake Ontario, and thereafter pass free through the St. Lawrence Canals, as if they had been shipped through direct in the first instance. O. C. June 23, 1883. Con. O.C. Oct. 26, 1889, sec. 87.
- Sec. 9. Iron ore, kryolite or chemical ore, may pass through one section, or through all the canal sections aforesaid, for 5 cents per ton.
- Sec. 10. No let-passes shall be issued to steam tugs or other small vessels for less than 25 cents, as a minimum charge; but such vessels, not carrying freight or passengers, can obtain, on payment of \$30, a season "Let-Pass," which will pass them up and down the canals as often as desired. O.C. April 18, 1873. Con. O.C. Oct. 26, 1889, sec. 86.
- Sec. 11. All vessels owned or chartered by persons having contracts for the enlargement or repair of any of the canals, and employed by them in removing earth or carrying materials necessary for the prosecution of such works, shall be entitled to pass through such canals free of toll upon such vessel and cargo. O.C. April 22, 1884. Con. O.C. Oct. 26, 1889, sec. 35.
- Sec. 12. Government dredges and scows shall be permitted to pass through the canals free of tolls, but that such dredges and scows shall not be so passed as to interfere with the passage of other vessels of any kind whatever. O.C. May 18, 1891.

HARBOUR DUES.

Sec. 13. Vessels receiving or discharging freight at the premises of the Welland Railway, at Ports Colborne or Dalhousie, are to be free from harbour dues; but all other vessels discharging or receiving cargo at Port Dalhousie, Port Colborne or Port Maitland, shall pay on every ton of freight so received or discharged, two cents. Q.C. April 18, 1873. Con. O.C. Oct. 26, 1889.

WAY RATES.

Sec. 14. The following way rates are to be levied on vessels and property passing the several subdivisions of the canals :--

	Welland Canal.	
ı.	From Port Maitland, Dunnville and Port Colborne to Port Robinson or Allanburg, not passing the lock, each way	Rate
3.	From Chippawa Cut, or any part thereof, to Dunnville, Port Maitland or Port Colborne. From Dunnville to Port Colborne	200
5.	From Thorold to St. Catharines or Port Dalhousie From Maitland, Dunnville, Colborne or Port Robinson to Marshville and intermediate	1 3
	places From Marshville or intermediate places to Port Maitland, Dunnville, Port Colborne and Port Robinson	8 38
8.	From Port Robinson to Allanburg or Thorold	3 1 2
0.	From St. Catharines to Port Dalhousie	1
2.	From Port Robinson through the Lock and Chippawa Cut	4
4.	From Chippawa Cut through Lock to Port Robinson	4 5 7
6,	Through the Chippawa Cut only. Through the Port Robinson Lock only.	8 1 1

St. Lawrence Canals.

Sec. 15. The navigation is divided into four sections, viz., Cardinal, Cornwall, Beauharnois and Lachine. Tolls are to be levied on all vessels and property in proportion to the number of sections passed through.

Chambly Canal.	Rate.
Sec. 16. Vessels and property passing from Sorel to Chambly, to pay Vessels and property passing from Chambly to St. Johns, to pay	325

Ottawa Canals.

Sec. 17. The navigation is divided into three sections, viz., Grenville, Carillon and Ste. Ann's. Tolls are to be levied on all vessels and property in proportion to the number of sections passed through.

Rideau Canal.

Sec. 18. The navigation of this canal is divided into three sections, viz., Ottawa, Smith's Falls and Kingston Mills. Vessels and freight passing one section are to be charged one-third; two sections, two-thirds. O.C. April 18, 1873. Con. O.C. Oct. 26, 1889, secs. 77, 78, 79, 80 and 81.

Tay Canal to be part of the Rideau Canal and the following rates of tolls to be levied upon the gaid Tay Bronch of the Rideau Canal and the following rates of tolls to be levied upon the

said Tay Branch of the Rideau Canal system, viz. :-

Perth to Smith's Falls, 1 section, or one-third of Rideau Canal rates, each way. Perth to Kingston, 2 sections, or two-thirds Rideau Canal rates, each way.

Perth to Ottawa Basin, 2 sections, or two-thirds Rideau Canal rates, each way. Perth to River Ottawa, 3 sections, full Rideau Canal rates, each way. O.C. Sept. 27, 1890.

General.

Sec. 19. (a.) Any fraction of a ton freight is to be charged one ton, and portions of sections are to be charged as a whole section on all the above canals.

(b.) The passing of saw-logs or other lumber through any of the canals, or sections thereof, shall be at all times governed by the regulations for their management. O.C. April 18, 1873. Con. O.C. Oct. 26, 1889, sec. 82.

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Sec. 20. - STANDARD FOR ESTIMATING WEIGHTS, FOR CANAL TOLLS.

Tons.				
Per M. is per thousand feet Per Mille is per thousand pieces Stone, 1 cord The Mille is per thousand pieces Stone, 1 cord The Mille is per thousand pieces Stone, 1 cord The Mille is per thousand pieces Stone, 1 cord The Mille is per thousand pieces Stone, 1 cord The Mille is per thousand pieces Stone, 1 cord The Mille is per thousand pieces Stone, 1 cord The Mille is per thousand pieces Stone, 1 cord The Mille is per thousand pieces Stone, 1 cord The Mille is per thousand pieces Stone, 1 cord The Mille is per thousand pieces Stone, 1 cord The Mille is per thousand pieces Stone, 1 cord The Mille is per thousand pieces Stone, 1 cord The Mille is per thousand pieces Stone, 1 cord The Mille is per thousand pieces Stone, 1 cord The Mille is per thousand pieces Stone, 1 cord The Mille is per thousand pieces The Mille is per thousand pieces The Mille is per thousand pieces The Mille is per thousand pieces The Mille is per thousand pieces The Mille is per thousand pieces The Mille is per thousand pieces The Mille is per thousand pieces The Mille is per thousand pieces The Mille is per thousand pieces The Mille is per thousand pieces The Mille is per thousand pieces The Mille is per thousand pieces The Mille is per thousand pieces The Mille is per thousand pieces The Mille is per thousand pieces The Mille is per thousand pieces The Mille is per thousand pieces The Mille is per thousand pieces The Mille is per thousand pieces The Mille is per thousand pieces The Mille is per thousand pieces The Mille is per thousand pieces The Mille is per thousand pieces The Mille is per thousand pieces The Mille is per thousand pieces The Mille is per thousand pieces The Mille is per thousand pieces The Mille is per thousand pieces The Mille is per thousand pieces The Mille is per thousand pieces The Mille is per thousand pieces The Mille is per thousand pieces The Mille is per thousand pieces The Mill		Tons.		Tons.
Sneep, 20	Per M. is per thousand feet Per Mille is per thousand pieces Green fruit, 9 barrels are Ashes, 3 barrels are Bark, 4 cords Beef, 7 barrels. Biscuit and crackers, 9 barrels Bricks, common, 1,000 Butter, 22 kegs or 7 barrels Cattle, 3 Cement and water lime, 7 barrels Fire-bricks, 1,000 Fish, 7 barrels Flour, 9 barrels Gypsum and manganese, 6 barrels Horses, 2 Lard and tallow, 7 barrels or 22 kegs Liquors and spirits, 215 gallons Liquors, all others, 215 gallons Nuts, 9 barrels Oysters, 6 barrels Pork, 7 barrels. Salt, 7 barrels.	1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Stone, 1 cord. Whisky, 4 barrels or 215 gallons. Empty barrels, 10. Barrel hoops, 10 mille. Board and other sawed lumber, 600 feet board measure. Boat knees, 4. Firewood, 1 cord. Hop poles, 60 or cubic feet. Shingles, 12 M. or bundles. Split posts and fence rails, 1 mille. Staves and headings, pipe, 1 mille. """W. India, 1 mille. """ barrel, 1 mille. """ barrel, 1 mille. """ Saw-logs, standard, 1. Square timber, 50 cubic feet. Masts and spars, 40 cubic feet. All other woodenware, or partly manufactured wood, 40 cubic feet as per tariff. Traverses, 40 cubic feet as per tariff.	1 1 1 1 3 1 1 8 4 2 0 2 0 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Note.—By the Weights and Measures Act, chapter 104 of the Revised Statutes of Canada, section 14, all the following named articles are to be estimated by the cental of 100 lbs.

The weight equivalent to a bushel being as follows:—Wheat, 60 lbs.; Indian corn, 56 lbs.; rye, 56 lbs.; pease, 60 lbs.; barley, 48 lbs.; oats, 34 lbs.; beans, 60 lbs.; clover seed, 60 lbs.; timothy seed, 48 lbs.; buckwheat, 48 lbs.; flax seed, 50 lbs.; blue grass seed, 14 lbs.; hemp seed, 44 lbs.; malt, 36 lbs.; castor beans, 40 lbs.; potatoes, turnips, carrots, parsnips, beets and onions, 60 lbs.; bituminous coal, 70 lbs.

TOLLS AT SHEDS AT LACHINE CANAL BASIN.

Sec. 21. The following tolls shall be levied upon property stored at the sheds at the Lachine Canal Basin :--

			Cents.
Wheat and other grain, per	week,	per bushel	. 1
Meal	do	per barrel	. 4
Pork, beef, butter and lard	do	do	. 5
Muscovado sugar	do	per hhd., 10 cents; per brl	
Tioner	do	per pipe, 15 cents; per pun	. 12
Liquors {	do	per hhd., 10 cents; per qr. cask	. 7
Iron (bars)	do	per ton	
Iron, pig	do	do	. 12
Salt, except at the St. Ga-			
briel sheds	$d\mathbf{o}$	per 100 minots	36
Salt at the St. Gabriel	l	•	
sheds, Montreal, after	•		
the first 48 hours	do	per bag	1/2
Bales, crates, cases, &c.	do	per ton weight or measurement	$\begin{array}{ccc} \cdot \cdot & \frac{1}{2} \\ \cdot \cdot & 24 \end{array}$
Coals	do	per chaldron	12

Sec. 22. (a.) No charge shall be made for property stored in the sheds of the Lachine Canal Basin for the first forty-eight hours, after which period, except in the case of flour, the foregoing rate of storage for the use of the sheds are to be raised, levied and collected.

(b.) Articles unenumerated are to be charged according to the above rates as nearly as the same

(c.) All property stored in the sheds remaining after the first forty eight hours will be liable to one week's storage, although it should only have been stored for a portion of the same, and so on for each succeeding week

(d.) The labour of receiving property into the sheds and delivering the same shall be at the expense of and be furnished by the owners of the property or their agents.

(e.) All property stored in these sheds shall be at the risk of the proprietor from damage by fire

or otherwise.

(f.) All dues for storage shall be paid before the removal of the property. O. C. August 21, 1846, October, 28, 1846. Con. O.C. Oct. 26, 1889, secs. 90 and 91.

Flour.

Sec. 23. (a.) Flour shall be allowed to remain in the sheds for two whole days free of charge. (b.) If kept there beyond two days or 48 hours, such flour shall be liable to a charge of one cent

per day per barrel for the first four days after the expiration of the 48 hours of the exemption.

(c.) Should the flour be kept in the sheds beyond four days at one cent per day per barrel, it shall be liable to pay two cents per day per barrel for every day subsequent to the expiration of such four days.

(d.) Any part of a day shall be considered as one day. O. C. May 31, 1856. Con. O.C. Oct. 26,

1889, sec. 92.

WHARFAGE DUES ON COAL FOR LOCAL CONSUMPTION IN MONTREAL.

Sec. 24. Coal for local consumption in Montreal, landed on canal property between Montreal Harbour and Côte St. Paul, from vessels other than sea-going, and entering the Lachine Canal from Montreal Harbour, shall be charged wharfage dues at the rate of five cents a ton.

Coal screenings shall be charged 3 cents a ton. Con. O.C. Oct. 26, 1889, sec. 93. O.C. May, 18,

CHARGES FOR WHARFAGE ON FIREWOOD ON WHARFS AND BANKS OF LACHINE CANAL.

Sec. 25. The following rates of tolls shall be collected as herein mentioned, that is to say:—

(a.) Firewood landed on wharfs or banks of the Lachine Canal, or in boats, barges or other craft occupying any of the basins between Wellington Street Bridge and Lock No. 3, four cents per cord, and for every day the wood is allowed to remain in either the canal or basin, or on the wharfs or banks after the first five days, an additional charge of four cents per cord. O. C. August 7, 1860. Con. O.C. Oct. 26, 1889, sec. 94.

(b.) The clause next preceding shall not only apply to the rates of toll to be collected on firewood on wharfs at Lachine and the Lachine Canal and basin, but are also extended and made applicable to the banks and grounds at Côte St. Paul and at Lachine. O. C. Jan. 27, 1862. Con. O.C. 1889,

sec. 94.

CANAL BASINS IN MONTREAL PART OF MONTREAL HARBOUR.

Sec. 26. Whereas under existing regulations for the collection of canal tolls, eastern bound vessels having paid the charges one way in full through the Welland Canal are chargeable one Section Canal Toll if re-entering the Lachine Canal;

And whereas vessels loaded with grain destined for the Montreal Harbour frequently unload only part of their cargoes on board sea-going vessels in that harbour, and re-enter the Lachine Canal for the purpose of unloading the balance of their cargoes either in elevators or mills located along the

canal basins:

It is ordered that the Lachine Canal basins, within the Montreal city limits, be considered as part of the Montreal Harbour, in so far only as regards the collection of tolls on the class of vessels above referred to, which re-enter that portion of the canal for the purpose of unloading the balance of their cargoes, but that the same shall not apply any further, as in the event of vessels returning to the harbour to take cargo, in which case the usual toll shall be charged against them on passing out of the canal a second time into the harbour. O. C. Aug. 8, 1878. Con. O.C. Oct. 26, 1889, sec. 95.

PHOSPHATES.

Sec. 27. Whereas vessels laden with grain for delivery in Montreal Harbour frequently carry also deck loads of phosphates, and being compelled to proceed at once to the harbour for the discharge of the grain, they pay tolls through to that point, subsequently re-entering the Lachine Canal for the storage of the phosphates, and in accordance with the existing regulations, paying canal dues a second

It is ordered that the Lachine Canal basins, within the Montreal city limits, be considered as part of the Montreal Harbour, for the purpose of the unloading of phosphates carried by vessels in the montreal Harbour, for the purpose of the unloading of phosphates carried by vessels in the montreal Harbour, for the purpose of the unloading of phosphates carried by vessels in the montreal Harbour, for the purpose of the unloading of phosphates carried by vessels in the montreal Harbour, for the purpose of the unloading of phosphates carried by vessels in the montreal Harbour, for the purpose of the unloading of phosphates carried by vessels in the montreal city limits, be considered as addition to their grain cargoes as described in this section; it being, however, provided that in the event of their returning to the harbour to take cargo, the usual tolls shall be charged against such vessels on their passing out of the canal a second time. O. C. July 12, 1881. Con. O.C. Oct. 26,

1889, sec. 96.

WHARFAGE DUES IN ALL BASINS OF THE LACHINE CANALS ON SEA-GOING VESSELS.

Sec. 28. The Montreal Harbour Commissioners shall be allowed to retain the right of levying dues in respect of the old lower basin of the Lachine Canal, but the Government shall retain full control of the new works and basin of said canal and of the revenue that may be derived from their use.

All property delivered or received by sea-going vessels in the Lachine Canal basins at Montreal (except the old lower basin) shall be charged wharfage dues as follows:--

All goods, wares and merchandise not elsewhere specified	25 cents	per ton.
Hay, straw, pig and scrap iron, pot and pearl ashes	20	go
Apples, crates and their contents, flour and meal, fish, meats, pitch, pota-		
toes, tar, horses, neat cattle, sheep and swine	15	do
Ballast, clay, fire-bricks, gypsum, lime, marble, phosphate, sand, salt	10	do
Coal and coke, grain and seeds of all kinds	73	do
Special—Bricks, 10 cents per 1,000; cordwood, 5 cents per cord; lumber,	~	
10 cents per 1,000 feet, board measure.		
Bullion specie	Free.	
Coal screenings	3	do

Each entry shall pay not less than 5 cents.

All property landed on the canal wharfs for re-shipment, or transhipped in canal waters, shall

pay one wharfage only.

Lumber upon which tolls have been paid for passage down the Lachine Canal, and which is reshipped from the wharfs or vessels into sea going vessels, shall pay wharfage dues equal to one section of canal tolls, viz., 3\frac{3}{4} cents per 1,000 feet board measure. O.C. Jan. 26, 1883. Con. O.C. Oct. 26, 1889, secs. 98, 99, 100 and 101. O.C. May 18, 1892.

Sec. 29.—Standard for Estimating Weights.

Ashes, pot or pearl	3 brls. to 1 ton.
Apples, flour, meal, potatoes. Fish, meat, pitch, tar.	9 do 1 do
Fish, meat, pitch, tar	7 do 1 do
Horses	2 to 1 ton.
Neat cattle	3 to 1 do
Sheep	15 to 1 do
Swine	10 to 1 do

O. C. April 1, 1881. Con. O.C. Oct. 26, 1889, sec. 102.

TOLLS ON FLOATED TIMBER, ETC., ENTERING THE BASIN AT LACHINE.

Sec. 30. The following rates of tolls shall be collected on floated timber, lumber and firewood entering the basin at Lachine and Lachine Canal:—

Kinds of Timber.	For receiving Timber, &c., to include use of Basin and Wharf for one Month.	For each succeeding month during the Season of Navigation.	For Wintering in Basin or on Wharf.
•	Cents.	Cents.	Cents.
Timber, square or round, of all kinds, above 12 x 12, per M cubic feet	25	20	35
Timber, round or flatted, of all kinds, under 12 x 12, per M lineal feet	20	15	30
board measure.	3	2	3
Saw-logs, 12 feet long, if longer in same proportion per log	1	1 1	2
Floats, per 100	10	5	10
Traverses, per 100		5	10
Fence posts and rails, per M	10	5	10
Staves, barrel, per M.		4	8
do pipe do	8	4	8
do West India, per M. Firewood on bank of canal between Lock No. 3 and Lock No. 5, and also on	. 8	4	8
wharfs in canal basin at Lachine		3	3

Note.

Sec. 31. (a.) No allowance shall be made for fractional parts of a month or winter season.

(b.) The firewood shall be corded across the bank while being delivered from the boat in such manner and at such points as the superintending engineer may direct.

(c.) The rates on timber to take effect upon the completion of the booms in Lachine Canal. O. C. June 8, 1860. Con. O.C. Oct. 26, 1889, secs. 103 and 104.

CHARGES ON VESSELS WINTERING IN LACHINE CANAL.

Sec. 32. The following rate per ton shall be charged for wintering vessels in the Lachine Canal, viz. :- For each boat, barge, scow or other vessels of ten tons measurement or under, seventy cents per vessel for the entire winter, and every ten tons above the first ten, an additional rate of eight cents. O.C. Aug. 22, 1879. Con. O.C. Oct. 26, 1889, sec. 97.

CHARGES FOR WINTERING VESSELS IN RIDEAU CANAL.

Sec. 33. The winterage dues for vessels wintering in the canal basin, at Ottawa, or other points along the line of the Rideau Canal, shall be as follows:-

In canal basin,	Ottawa,	steamers	per seaso	n	. 		 \$	8 00
do	do	barges	do				 	4 00
Inside locks	do	steamers	do			.	 	50 00
do othe	er station	ıs do	do				 	15 00

If the Minister of Railways and Canals deems it advisable, he is authorized to take security from parties wintering their vessels in locks against damage to Government property by fire. O. C. March 19, 1887. Con. O.C. Oct. 26, 1889, sec. 105.

CHARGES FOR WINTERING VESSELS IN THE OTTAWA RIVER CANALS AND LOCKS.

Sec. 34. The charge for vessels wintering on the Ottawa River canals and locks, and the same is hereby prescribed accordingly, namely:

In Carillon Canal, Steamers per season	8 8	00
Barges do	4	00
Grenville Canal, Steamers, for season	8	00
Barges do	4	00
Barges do		
season	25	00
Inside locks, Culbute Canal, per season	15	00

Such security against damage by fire to be taken by way of bond as, in the opinion of the Minister of Railways and Canals, may seem desirable. O.C. Oct. 14, 1892.

Sec. 35. No charges to be made for vessels wintering outside the locks of any government canal. O.C. Dec. 12, 1889.

CHARGES FOR REPAIRING VESSELS ON THE BANKS OF CANALS.

Sec. 36. (a.) Persons using the banks of the Lachine Canal as a site for the repair of their vessels shall be subject to a charge of four dollars, payable in advance, for each vessel; the period during which such site may be occupied under any one payment being limited to six months, and permission for repairing being first obtained from the proper officer, in conformity with the existing canal regulations.

(b.) In the event of failure to remove vessels so occupying the banks at the expiration of the period named, no fresh permits having been obtained, such vessels may be sold under the 16th section of the canal regulations. O. C. March 5, 1880. Con. O.C. Oct. 26, 1889, sec. 106.

Sec. 37. Rules with respect to the repairing of vessels on the banks of the Lachine Canal, the Beauharnois and the Chambly :-

(a.) Repairs shall only be executed at such points as may be indicated and approved by the

superintending engineer. (b.) For each vessel hauled up or beached for repairs, a charge of one dollar, over and above all other charges, shall be made, carrying the privilege of remaining one month, a further sum of one

dollar being charged for each additional month, or fraction of a month, the vessel may remain,

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(c.) In cases, however, where a vessel hauled up for repairs upon the canal bank remains there throughout the winter, a charge of four dollars only shall be made (in addition to the ordinary winterage dues), the period covered being from the 1st of November to the 1st of June, inclusive.

(d.) Any vessel remaining on the canal bank after having wintered thereon shall be charged at

the rate of one dollar a month or fraction of a month of her subsequent stay.

(e.) Any vessel remaining more than one year on the bank of the canal shall for such time as she may remain in excess of that period pay at the rate of two dollars a month or fraction of a month throughout the whole year.

(f.) All charges shall be payable at the collector's office in advance on the first day of each month. (g.) These rules shall be understood as applying to all cases where the canal bank is used in any manner for the repairs of vessels, whether such vessels are actually hauled up or not. O. C. August 6, 1881. Con. O.C. Oct. 26, 1889, sec. 107.

DRY DOCK CHARGES.

Trent Valley Canal.

Sec. 38. The following tolls and dues shall be charged for the use of the dry dock at Bobcaygeon, and of any of the locks on the Trent Valley Canal, during the winter or other shorter period :-

For Vessels	Wintering.	Per day.	Per week.
Over 15 tons	\$30.00	\$4.00	\$12.00
	20.00	3.00	10.00

(O.C. Oct. 31, 1890.)

Rideau Canal.

Sec. 39. The following tariff of tolls and regulations shall be, and the same are hereby established for the use of the dry dock on the Rideau Canal at Ottawa:

(1) Steamers entering dock	\$ 8.00
Each day or portion of a day after day of entrance	2.50
(2) Barges entering dock	5.00
Each day or portion of a day after day of entrance	2.50
(3) Steam yachts or launches	5.00
Each day or portion of a day after day of entrance	2.50
(4) Boats wintering in the dry dock from the close to the opening of navigation.	50.00
For every day such boat remains in the dock after the opening of navigation.	8.00

(5) No vessel of any class shall be in the dock over six days after notice is given in writing by the lockmaster that the dock is required for another vessel unless a satisfactory agreement between all parties interested is arrived at.

(6) All entrance and discharge of vessels are covered by entrance fee.

(7) All drying off of vessels of all classes in the locks at Ottawa or Hartwell's during the season of navigation is prohibited unless for special reasons.

The owners of vessels of all classes to render the required assistance to open and close the gate under the supervision of the superintending engineer.

Vessel owners to supply all blocks, &c., to shove their boats up to make the necessary repairs, and all refuse to be properly cleared out to the entire satisfaction of the lockmaster before leaving the dock.

(O.C. Dec. 28, 1893.)

Sec. 40. The use of horses for towage purposes between the lower entrance of the Cornwall Canal and lock No. 20, be prohibited during the works of enlargement of that portion of the Cornwall Canal.

(O.C. Aug. 20, 1890.)

Sec. 41. As the prohibition of the use of horses for towing purposes, between the lower entrance of the Cornwall Canal and Lock No. 20 during the progress, of the works of canal enlargement, has entailed the use of tugs and consequently expenses to the parties concerned, that all tugs, used solely for the purposes of towing on the section in question, be permitted to pass free of toll, up and down the canal between the lower entrance of the canal and lock No. 20, until the completion of the enlargement of the works on that section. (O.C. Sept. 27, 1890.)

SPECIAL RATES FOR SEASON OF 1895 ONLY.

- Sec. 42. For season of 1895 the canal tolls for the passage of the following food products:—Wheat, indian corn, pease, rye, oats, flax seed and buckwheat, for passage eastward through the Welland Canal be ten cents per ton; and for passage eastward through the St. Lawrence Canals only, ten cents per ton; payment of the said tolls of ten cents per ton for passage through the Welland Canal to entitle these products to free passage through the St. Lawrence Canals. O.C. April 1st, 1895.
- Sec. 43. That for the current season of navigation of 1895, only in the case of steamers specially chartered for the conveyance of excursion parties going and returning the same day, a reduction amounting to one-half of the usual passenger tolls, be allowed for passage through the government canals. O.C. June 29th, 1895.

PART VI

RAILWAY STATISTICS

RAILWAY STATISTICS

OF THE

DOMINION OF CANADA

For the year ended 30th June, 1896

Compiled by Mr. Thomas Ridout, C.E., from sworn Returns furnished by the several Railway Companies.

COLLINGWOOD SCHREIBER,

Deputy Minister and Chief Engineer of Railways and Canals.

Table showing the growth of the Railways from year to year, since the opening of the first line in 1836.

Year.	Miles in Operation.	Year.	Miles in Operation
335	0	1866	2,278
836	16	1867	2,278
837	16 16	1868 1869	2,278 2,524
839	16	1869	2,524
84 0	16	1871	2,695
041	16	1872	2,899
842	16	1873	3,613
843 844	16 16	1874	3,832 4,331
845	16	1875	4,804
846	16	1877	5,218
847	54	1878	5,782
848	54	1879	6,126
849	54 66	1880 1881	6,858
850 851	159	1881	7,194 7,331
852	205	1883.	8,697
803	506	1884	9,577
894	764	1885	10,273
855	877 1,414	1886 1887	10,773
856 857	1,414	1888	11,793 12,184
858	1,863	1889	12,184
859	1,994	1890	13,151
860	2,065	1891	13,838
861	2,146 2,189	1892 1893	14,564
0.09	2,189	1894	15,005 15,627
864	2,189	1895	15,027
865	2,240	1896	16,270

Summary statement for year ended 30th June, 1896:-

		. ,	, and our o and, 2000 !	
Miles o	f railway co	mpleted	(track laid)	16,387
do	sidings			2,106
do	iron rails i	in main l	line	. 250
do	steel	do		16,137
do	do	do	double track	537
Capital	paid (inclu	ding the	four following items)	\$899,817,900
Govern	ment (Dom	inion and	d Provincial) bonuses paid	*\$157,600,100
do)	do	loans paid	\$21,569,149
do) (Provi	incial onl	ly) subscription to shares paid	. \$300,000
Munici	pal aid paid			\$14,494,757
Miles i	n operation.			16,270
Earnin	gs			\$ 50,5 4 5, 5 69
Worki	ng expenses.			\$35,042,655
Net ear	rnings			\$15,502,914
Passen	gers carried.	• • • • • • • •		14,810,407
Freigh	t carried (to	ns)		24,266,825
Train n	nileage			44,500,602
Passen	gers killed.			. 11
Numbe	er of elev at o	rs		. 72
do	guarded le	vel cross	ings—public roads	166
do	unguarded	do	o do	11,000
do	overhead l	oridges		. 413
do	level cross	ings of ot	ther railways	235
do	junctions v	with othe	er railways.	326
do	do	bran	nch lines	. 235
do	engines ow	ned		1,980
do	do hii	red		. 64
do	sleeper and	i parlour	r cars owned	. 178
do	do	do	hired	. ' 26
do	first class	cars own	ed	998
do	do	hire	d	44
do	second clas	ss and in	nmigrant cars owned	646
do	do	•	do hired	. 2
do	baggage, n	nail and	express cars owned	+625
do	do		do hired	. 25
do	cattle and	box freig	ght cars owned	. ‡35,302
do	ďэ	do	hired	1,489
do	platform c	ars owne	ed	15,192
do	do	hired	 	401
do	coal and d	ump cars	s owned	4,810
do	do		hired	,

^{*}In explanation of the fact that the total of bonuses shown as paid up to the 30th June, 1896, is less than the total for the previous year, notwithstanding the payment during the year of additional bonuses, it has to be noted that the sum of \$2,394,000, interest on which had been allowed the province of Quebec as an annual subsidy on account of the railway between Ottawa and Quebec (the capital not being paid) has now, as is shown by the public accounts, been treated as a liability, and placed as an item of the public debt. (See public accounts 1895-96, page X.) It consequently now disappears from the list of paid bonuses.

[†]Conductors' vans transferred this year from this item to that of box cars. ‡Comprising 34,138 box freight cars, 244 refrigerator cars, 845 conductors' vans and 75 tool cars.

Nominal Capital Paid, up to 30th June, 1896.

	Miles constructed.	Amount.	Per Mile.	Remarks
		\$ ets.	\$ ets.	
Ordinary share capital	16,387	255,807,476 19	15,610 39	
reference do		105,267,864 39	6,423 86	
Sonded debt		336,137,600 83	20,512 45	
Aid from Dominion Government	16,387	149,413,302 92	9,117 79	
do Ontario do		6,932,388 24	1,062 60	2្ពះ
do Quebec do		14,522,898 86	4,510 21	34.13 n to
do New Brunswick Government		4,450,488 90	3,163 10	1 28 8 8
do Nova Scotia do	914	1,487,108 53	1,627 03	l to an avoir of \$1,834 mile on mile on milesce.
do Prince Edward Island Government				1 3 4 E
do Manitoba Government		2,625,561 77	1,786 09	Iqual to an ave age of \$1,834. per mile on t
do British Columbia Government		37,500 00	43 15	Equal to an aver-Equal to age of \$884.53 age of \$per mile on to per mile and the tall mileage.
do North-west Territories Government				/ Ei
do Municipalities in Ontario		10,803,253 37	1,655 92) # 6 2
		2,544,218 62	790 13	2.20 0 0
do 110 Dianswicki		336,500 00	239 16	## aver-1 #884.53 # on to-
do do Nova Scotia do do Prince Edward Island		177,685 00	194 40	of \$884 mile on
do do Prince Edward Island do Manitoba		595,600 00	405 17	1 3 C B B
do do British Columbia		37.500 00	43 15	qual age per tal
do do North-west Territor's		37,500 00	40 10	G & F &
apital from other sources	16,387	8,640,952 15	5 27 30	<i>)</i> 🛱
Total paid Capital	16,387	899,817,899 77	54,910 47	

GOVERNMENT and Municipal Loans, Bonuses, &c., promised to Railways completed and under construction up to 30th June, 1896: -

Dominion Gov	ernment	\$ 154,109,974 72
Ontario	do	7,332,538 24
Quebec	do	16,131,963 58
New Brunswic	k Government	4,469,728 90
Nova Scotia	do	2,376,116 53
Manitoba	do	2,626,611 77
British Colum	bia do	37,500 00
Municipalities	in Ontario	11,331,642 78
do	Quebec	4,309,074 00
do	New Brunswick	356,500 00
đo	Nova Scotia	261,685 00
do	Manitoba	595,600 00
do	British Columbia	37,500 00
do	North-west Territories	25,000 00
	Total	\$ 204,001,43 5 52

A. 1897

FATAL ACCIDENTS for year ended 30th June, 1896.

	Passengers Killed.	Employees Killed.	Others Killed.	Total Killed.
Falling from cars or engines. Getting on or off trains in motion. At work making up trains.	į 4	12 6	5 9	23 19
Putting heads or arms out of windows. Coupling cars Collisions and derailments.		1 14 2		1 14 2
Striking bridges	1	6	68	75
Explosions		5	22	27
Total	11	46	104	161

LAND GRANTS made by Governments to Railways, completed and under construction up to 30th June, 1896.

Name of Railway.	Government.	Acres Granted.	Acres Sold,	Amount Realized.
				\$
Alberta Railway and Coal Co	do	2,176,000 26,772,800		1,101,733 * 11,792,134 10,189,521
Great North-west Central Manitoba and North-western. Saskatchewan and Western Manitoba South-western Colonization. Manitoba and South-eastern.	dodo	net proceeds 2,880,000 2,726,400 96,000 1,377,280	Nil 584,412 259,719 Nil	1,128,000 Nil 953,911 1,174,607 Nil
Q'Appelle, Long Lake and Saskatchewan Winnipeg Great Northern Wood Mountain and Qu'Appelle Yarmouth and Annapolis Columbia and Kootenay	do do Nova Scotia	8,480,000 1,536,000 150,000	{ 128,000 998,230 Nil Nil Town sites	
Esquimalt and Nanaimo. Nelson and Fort Sheppard. Kaslo and Slocan.	do	614,400	and land 262,070 Nil 160	69,305 820,544 Nil 400

^{*} Again after efforts to obtain a statement of the amounts realized from the sale of these lands, the companies have failed to give the information—the return, therefore, in this respect is incomplete.

† Transferred back to the government at \$1.50 per acre.

‡ Outside of the grant of 26,772,800 acres.

TABLE showing Location of the Railways of the Dominion of Canada, 30th June, 1896.

Name of Pailway	Douguintion	Dist	ance.
Name of Railway.	Description.	Miles.	Total.
Alberta Railway and Coal Co	From Lethbridge in District of Alberta, N.W.T., to Coutts, on International boundary, 3' gauge The portion from Dunmore to Lethbridge 109½ miles was changed to 4'.83" gauge and leased to Can. Pac.		64.62
Albert Southern Baie des Chaleurs Bay of Quinté Railway and Navigation Co.	Ry., 29th Nov., 1893. Harvey Branch Junction to Alma, N.B Metapedia Station on C.P.R. to Caplin Deseronto, on Bay of Quinté, Lake Ontario to Deser-		16·00 80·00
Berlin and Waterloo (electric) Buctouche and Moncton Brockville, Westport and Sault	onto Junction, Grand Trunk RailwayBerlin to WaterlooMoncton, on Intercolonial Railway, to Buctouche, N.B.		4·00 2·75 32·00§
Ste. Marie	Brockville to Westport, Ont	190 · 97 104 · 10	45·00 295·07
Canada Atlantic	City of Ottawa to Junction with Grand Trunk at La- colle. Crosses the St. Lawrence at Coteau by bridge. Connects with Grand Trunk Railway at		
Central Counties	Coteau and Lacolle From Glen Robertson, on Canada Atlantic, to Hawkesbury, Ont. South Indian, on Canada Atlantic, to Rockland	21 00 17 00	138.00
Canada Southern	Main Line—Windsor, Ont., to Suspension Bridge Amherstburg Branch—Essex Centre to Amherstburg. St. Clair Branch—St. Clair Junction to Courtright Fort Erie Branch—Fort Erie to Welland Junction Erie and Niagara Branch—Old Fort Erie to Niagara. Oil Springs Branch—Oil Springs to Oil City	226 · 18 16 · 83 62 · 63 17 · 50 30 · 60 5 · 50	38.00
Leaseddo	Oil Springs Branch—Oil Springs to Oil City	7·00 15·95	382.19
Canada Eastern	Late Northern and Western of New Brunswick— Gibson, opposite City of Fredericton to Chatham Junction, I.C.R Chatham Junction to Chatham and Logieville via Nelson Blackville to Indiantown	107·00 20·00 9·00	136.00
Canadian Pacific: Owned	Main Line—Callander to Vancouver	2,560·90 223·60	
(Que., Mont., Ottawa & Occid.) do North Shore)	do Montreal to Ottawa	120 · 30 159 · 80 26 · 90 2 · 00	
	do Joliette Junction to St. Félix	16 80 13 60 6 00 15 00	
Brockville & Ottawa Railway	do Hull to Aylmer do Carleton Jct. to Brockville. do Sudbury to Sault Ste. Marie. do Sudbury to Copper Mines do Winnipeg Junction to Emerson.	4 · 20 7 · 50 45 · 00 182 · 50 5 · 60 64 · 80	
	do Winnipeg Junction to Manitou. do Rosenfeldt to Gretna. do Winnipeg to West Selkirk. do Air Line Junction to Stonewall.	101 · 10 14 · 00 22 · 50 18 · 20	
	do Kemnay to Estevando Glenboro' to Sourisdo Deloraine to Napinka	156·20 45·20 18·10	

Table showing Location of Railways, &c. - Continued.

No. of D. S.	.	Dista	nc e .
Name of Railway.	Description.	Miles.	Total.
Canadian Pacific—Continued.	Branches—Menteith Junction to Restondo North Portal to Pasqua	31·50 160·50	
Lake Temiscamingue Colonization	do New Westminster Junction to New Westminster do Mattawa to Kippewa do Mission Junction to Mission do Revelstoke to Arrow Head do Vancouver to Coal Harbour do Three Forks to Sandon	8·20 45·80 10·10 27·80 1·20 4·20	
	Total mileage owned	4,119 10	
Leased lines	Atlantic and North-west (in Canada)— South end Lachine Bridge to Maine boundary, Que	205:00	
	St. Lawrence and Ottawa— Ottawa to Prescott, Ont		
	Ontario and Quebec- Mile End Junction to South End Lachine Bridge 9 10 Montreal, Windsor St., to Toronto 339 00 London to Windsor 112 50 Toronto Junction to Strachan Avenue 3 20 Leaside Junction to Union Station Toronto 5 20 Credit Valley— Toronto Junction to St. Thomas 116 10 Streetsville Junction to Melville Junction 31 70 Cataract to Elora 27 30	469 · 00	
	West Ontario Pacific—London to Woodstock	175·10 26·60	
	Toronto, Grey and Bruce— Toronto Junction to Owen Sound 116-90 Orangeville Junction to Teeswater 69-40 Glenannan to Wingham 5-00	·[
	Guelph Junction— Guelph Junction on Credit Valley Ry, to Guelph.	191 · 30	
	Montreal and Western— St. Jérôme to Labelle	70.00	
	Montreal and Lake Maskinongé— St. Félix to St. Gabriel de Brandon	12.90	
	Montreal and Ottawa— Vaudreuil to Point Fortune	23.60	
	New Brunswick System (in Canada)— Vanceboro' to McAdam Junction. 6 30 McAdam Junction to St. John. 83 80 Fairville to Carleton. 4 00 Fredericton Junction to Fredericton. 22 10 McAdam Junction to St. Stephen. 33 90 Watt do St. Andrew's. 27 50 McAdam do Woodstock 51 80 Debec do Maine boundary. 59 40 Newbury Junction to Fredericton. 58 40 Aroostock do Edmunston. 57 20		

Table showing Location of Railways, &c.—Continued.

	Name of Railway. Description.	Distance.	
Name of Railway.		Miles.	Total.
Canadian Pacific—Continued. Leased lines	Manitoba South-western Colonization— Manitou to Deloraine	215 · 20	
	Columbia and Kootenay— Nelson to Robson 27·70 Mouth of Kootenay River 0·80	28 10	
	Shuswap and Okanagan— From Junction with C.P.R. at Sicamous to Lake Okanagan Nakusp and Slocan—	51.00	
	Nakusp on Arrow Lake to Three Forks of Carpenter's Creek, B.C	36.90	
	Dunmore to Lethbridge, N. W. T Total mileage leased. do owned		2,097 · 40 4,119 · 10
Canadian Government Railways	do in Can. Pac. system		6,216 50
	Halifax to Lévis. 675 00 Moncton to St. John 89 00 Truro to Trenton 44 00 New Glasgow to Mulgrave 82 00 Stellarton to Pictou 14 00 Trenton to Pictou Landing 7 00 Pt. Tupper to Sydney 91 00 North Sydney Junction to North Sydney 5 00 Branch Pt. du Chêne to Painsec Junction 11 00 do Dalhousie 7 00 do St. Charles 25 00 do Windsor Junction to Dartmouth 14 50 do Oxford Junction to Brown's P't 67 00 do Pugwash 5 00	1,150 · 50	·
	Prince Edward Island— Main Line—Alberton to Charlottetown. 105°30 Royalty Junction to Georgetown. 41°00 Branch—Mount Stewart to Souris. 38°40 do Alberton to Tignish. 13°30 do Emerald to Cape Traverse. 12°00	910.00	
Caraquet	From Gloucester Junction, Intercolonial Railway, 5 miles south of Bathurst Station, easterly along the south shore of Baie des Chaleurs to Shippigan Har-	210.00	1,360 50
Carillon and Grenville	bour, N.B		68.00
Central Ontario	(Gauge, 5 ft. 6 in.) From Picton, in Prince Edward County, Ont., to Coe Hill Iron Mines, Wollaston, County of Hastings; connects with Grand Trunk at Trenton, Midland Railway, 2 miles west of Stirling, and with Ontario		13.00
Central Railway of New Brunswick	and Quebec, in Township of Rawdon From Norton Station, on the Intercolonial Railway.		104.00
	From Hampton to Quaco (formerly St. Martin's and Upham Railway)	45 00 30·00	

Table showing Location of Railways, &c.—Continued.

	D	Distance.	
Name of Railway.		Miles.	Total.
Coast Line, Nova Scotia	Yarmouth to Lockeport, 98 miles, of which 13.75 miles		13.75
Company (formerly Spring Hill and Parrsboro')	Spring Hill Junction, Intercolonial Railway, to Spring Hill Coal Mines, N. S., and Parrsboro', on the Bay of Fundy. Spring Hill and Oxford Branch, from Spring Hill Mines to Oxford Village on the Oxford and New Glasgow Branch, I. C. R.	32·00 14·00	
Dominion Atlantic, comprising Windsor and Annapolis, Yar- mouth and Annapolis and Corn- wallis Valley and lease of Wind-			46.00
sor Branch of Intercolonial	Windsor to Annapolis, N.S. Annapolis to Yarmouth Branches Wilmot to Forbrook From Kentville to Kingsport, on Basin of Minas (formerly Cornwallis Valley Railway). Windsor Branch of I.C.R.—Windsor to Windsor Junc., Intercolonial Railway, 14 miles from Halifax	84.00 87:00 3:50 14:00 32:00	
Drummond County	Ste. Rosalie, Que., junction with Grand Trunk Railway, to St. Leonard, thence to Moose Park towards Chaudière. St. Leonard to Nicolet and Ball's Wharf, on the St. Lawrence. Mitchell to Burrill's Mill.	72·97 17·06 50	
Elgin and Havelock	From Elgin, County of Albert, N. B., to Petitcodiac Junction with Intercolonial Railway; thence to Havelock in County of King's		90·53 27·00
Erie and Huron	Rondeau, Lake Erie, Ont., to Sarnia, passing through the town of Chatham, Ont., connects with Canada Southern and Grand Trunk and Lake Erie and		80.85
Esquimalt and Nanaimo Fredericton and St. Mary's Railway Bridge	Detroit River Railways		76·75 78·00
Grand Trunk (owned)— Main Line	Railway and Canada Eastern Railway at St. Mary's. From Point Edward to Point Lévis and Boundary Line, Vermont	719:33	
Branches	From Niagara Falls to Windsor. Connections at Toronto with G. W. and N., and N.W. Montreal to Dorval. Sarina Extension—Point Edward to Sarina. Montreal Landing to Wharfs. Arthabaska to Doucet's Landing, (Three Rivers Branch) Kingston—Main Line to Kingston City. Waterloo and Berlin to Galt. St. Mary's to London. St. Lambert to Boundary Line, N. Y., and St. Isidore to Province Line. Blackwell to St. Clair Tunnel. Port Dover to Wiarton, Durham and Port Rowan. Brosseaus to Dundee and Valleyfield. Jacques Cartier to Canadian Pacific Junction. Waterloo to Elmira.	10·12 3·13 0·83 35·34 2·25 14·85 22·00 65·50 5·00 189·75 81·14 6·54	948 65

TABLE showing Location of Railways, &c.—Continued.

		Dista	nce.
Name of Railway.	Description.	Miles.	Total
		 -	
1.00	Tim January Company' Tungtion	CO : 25	
rand Trunk—	Lindsay to Scarboro' Junction. do Haliburton.	60 35 54 20	
Branches—Con.	Whitby to Manilla	33.73	
	Lakefield Junction to Lakefield.	11.66	
	North Hastings Junction to Eldorado	22 21	
	Blackwater to Coboconk	36 35	
	Port Hope to Omemee	32.05	
	Millbrook to Peterboro'	12.35	
	Stouffville to Lake Simcoe	26.46	
	Peterboro' to Chemong Lake	8·22 1·50	
	Connection, Merritton	0.17	
	do Stony Creek.	2.08	
	Loop Gages (N. and N. W. Divn.)	0.48	
	Hamilton to Toronto	36 64	
	Loop Junction Cut Branch	0.36	
	Connection, Burlington East	0.13	
	do do West	0.21	
	Harrisburg to Guelph Connection do (W.G. and B.)	27·18 0·11	
	Harrisburg to Brantford	7.76	
	Brantford Branch Junction with G.T	0.13	
	Komoka to Sarnia	50.85	
	Wyoming to Petrolia	4.71	
	Fort Erie to Glencoe	145.55	
	Connection, Welland Junction, East	0.26	
	do do Westdo Canfield Junction	0.50	
	do Canfield Junction	0·19 0·24	
	East Y, St. Thomas.	0.32	
	Allanburg to Clifton Junction	8.33	
	Port Colborne to Port Dalhousie	25.14	
	Glencoe to Kingscourt Junction	21 04	
	Guelph to Southampton	101 26	
	Palmerston to Kincardine	66:67	
	do connection	0 · 20 68 · 88	
	Hyde Park to Wingham Junction		
	Brantford Loop Line.	34.78	
	Toronto Belt Line, Swansea to Carleton	4.37	
	do Don to Fairbank Junction	8.33	
	Toronto to Gravenhurst	111.60	
	Allandale to Collingwood	31.76	
	Hamilton to Allandaledo to Port Dover	93 82 40 25	
	Collingwood to Meaford.	20.50	
	Elmyale to Hillsdale		
	Elmvale to HillsdaleBeeton Junction to Collingwood	39 83	
	Gravenhurst to Nipissing Junction with C.P.R	111 . 37	
	Colwell to Penetanguishene	33 34	
	Park Head to Owen Sound	12.42	~
	Cobourg to Harwood	15.00	0.040
			2,049
	Total owned		2,998
		1	
	Leased and partly owned—		
	Buffalo and Lake Huron, Fort Erie to Goderich	162.00	
	Buffalo and Lake Huron, Fort Erie to Goderich Leased or rented—		
	Buffalo and Lake Huron, Fort Erie to Goderich	162·00 1·75	163

TABLE showing Location of Railways, &c.—Continued.

Y (D.)	Description.	Distance.		
Name of Railway.		Miles.	Total.	
St. Clair Tunnel and approaches.	Under the St. Clair River, between Sarnia and Port Huron—connecting the Grand Trunk Railway with railroads in State of Michigan (Length of tunnel between portals 6,000 ft., cylindrical in section with clear inside diameter of 19 ft. 10 inches)		2 · 23	
	Constructed from junction with South-eastern Railway at Yamaska to River St. Francis. Constructed from Nicolet to Junction with Grand Trunk Railway at St. Grégoire.	6·00 7·00	13·00	
Great Northern	From St. Jérôme to Moncalm. From junction with Lower Laurentian Railway westward to Ste. Flore	28·00 10·00	90.00	
Great North-west Central	From junction with C.P.R. at Chater, westward to Hamiota		38·00 50·93	
Hamilton, Grimsby and Beamsville (electric)	Hamilton to Grimsby		17:00	
Harvey Branch.	Albert to Harvey Bank, N.B		3.00	
Hereford	From International Boundary to Dudswell, County Wolfe connects with Canadian Pacific Railway at Cookshire, Maine Central at Intercolonial boundary, and with Quebec Central at Dudswell	48 50		
Irondale, Bancroft and Ottawa	From junction with Grand Trunk Railway, near Kin- mount Station, to Baptiste Lake		53·30 45·00	
Joggins, now Canada Coals and Railway Co	Maccan Station, I.C.R., to Joggins Mine		, 12·00	
Kent Northern	Richibucto, N.B., to Intercolonial Railway	27·00 7·00	31.80	
Kingston and Pembroke	Main Line—Kingston to Renfrew. Glendower Branch—Bedford to Zanesville Mine. Robertsville Branch—To Robertsville Mines. Branches—To Doran's Mills, Charcoal Works, Mc-Laren's Mills, Bethleham Mines, Lavant Mills, Clyde Forks Mills, Wilson's Mine, Caldwell's Mills, William's Mine, Cameron's Bay. (Connects with Grand Trunk at Kingston, Canadian	4 . 75	34.00	
Kingston, Napanee and Western.	Pacific at Sharbot Lake and at Renfrew.) Late Napanee, Tamworth and Quebec:— Napanee to Tamworth Yarker to Harrowsmith. Tamworth to Tweed. Harrowsmith to Sydenham.	28·50 7·00 20·95 4·37	112.8	
Lotbinière and Mégantic. L'Assomption. Lake Erie, Essex and Detroit River.	Lyster Station, Grand Trunk, to Ste. Philomene L'Epiphanie Station, C.P.R. to L'Assomption From Walkerville, Ont., to Ridgetown	84:05	60 · 83 23 · 3 3 · 0	
London and Port Stanley Lower Laurentian (formerly St.	Branch—Foster's to Decew's Mills. London to Port Stanley on Lake Erie	4.00	88 · 0 23 · 7	

Table showing Location of Railways, &c.—Continued.

Name of Bailman	Decomination	Distance.	
Name of Railway.	Description.	Miles.	Total.
Manitoba and North-western	Portage la Prairie to Yorkton. Shell River Branch—Binscarth to Russell Leased—Saskatchewan and Western—Minnedosa to Rapid City.	223 · 05 11 · 45 15 · 47	,
	From Winnipeg south-easterly to west side of Lake of the Woods; 8 miles under construction		249·97 21·00
	necting with Connecticut and Passumpsic Rivers Railway; also connects with Grand Trunk and C.P.R. at Lennoxville	32·00 2·00	34 00
Montreal and Vermont Junction.	From Junction with Stanstead, Shefford and Chambly Railway, 2½ miles east of St. Johns, P.Q., to Junction with Vermont and Canada Railway, at Vermont boundary; also connects at Stanbridge with Lake Champlain and St. Lawrence Junction Railway.		23:60
Montreal, Portland and Boston, now Montreal and Province Line		32 00 8 60	40.60
Montreal and Atlantic (formerly South-eastern)	Main Line—West Farnham to Richford on Interna- tional Boundary	33 80 95 50 10·80	
	Leased - Lake Champlain and St. Lawrence Junction - Stanbridge to St. Guillaume.	61.40	201 · 50
Montreal Park and Island(electric)	(Connnects with Connecticut and Passumpsic, Grand Trunk and Stanstead, Shefford and Chambly Rys.) City of Montreal and Suburbs		14.43
New Glasgow Iron Coal and Rail-	From West Arm of Kootenay Lake, near Nelson, to Fort Sheppard on International boundary, B.C		59.40
Steel Co New Brunswick and Prince Edward Island	From Seckville Station, I. C. R., to Sunny Brae		12:50
Niagara Falls Park and River Electric Railway Northern Pacific and Manitoba	Tormentine. Queenston to Chippewa. Winnipeg to International boundary. Portage Junction to Portage la Prairie. Morris to Brandon. Connection with C. P. R. at Winnipeg.	65.94	36 · 00 13 · 68
Nosbonsing and Nipissing Nova Scotia Central	From Lake Nosbonsing to Lake Nipissing. From Middleton on the Windsor and Annapolis Railway to town of Lunenburg, on the Atlantic		265·12 5·50
Nova Scotia SouthernOntario, Belmont and Northern	coast. N. S. Shelburne to New Germany, 10 miles under construction From Junction with Central Ontario Ry. to Iron Mines in Township of Belmont—10 miles under	i	74.00
Orford MountainOshawa Electric Railway	construction. Eastman, on C. P. R., to Kingsbury, Que. From Port Oshawa, Lake Ontario to Grand Trunk Ry. Stations and through town of Oshawa	:	26·50 8·50

Table showing Location of Railways, &c.—Continued.

No. of D. Harre	Description	Distance.	
Name of Railway.	Description.	Miles.	Total.
Ottawa and Gatineau	Canadian Pacific Railway Junction at Hull, Que., to		,
Ottawa, Amprior and Parry	Gracefield		56.50
	Ottawa to Cache Lake Lachute, on C. P. R., to St. Andrews on Ottawa River. From Scotia, on Northern and Pacific Junction Rail-		164·00 7·00
Philipsburg	Standbridge Station of Canadian Pacific and Central	• • • • • • •	48.00
	Vermont Railways, to Philipsburg, Mississquoi Co. From Wyman's Station, on Pontiac Pacific Junction		6.75
	Railway, to Bristol Iron Mines, County Pontiac, Que. From Junction with Canadian Pacific Railway at		4 25
į	Aylmer, Que., to Waltham Port Arthur to Gunflint, Lake on Minnesota boundary (Connects with the C. P. R. at Port Arthur and Fort		71 00 85 50
Qu'Appelle, Long Lake and Sas- katchewan			253 96
Quebec and Lake St. John	Quebec to Roberval Chambord Junction to Chicoutini	191 · 00 51 · 00	200 00
Quebec Central	Main Line—Sherbrooke to Harlaka Junction, Inter-		242.00
	colonial Railway, 5 miles from Lévis, Que	137 · 50 15 · 00 1 · 00 60 · 00	213.50
Quebec, Montmorency and Char- levoix	Hedleyville. Parish of St. Roch, Quebec, to Cap		
Stanstead, Shefford and Chambly	Tourmente. From Junction with Montreal and Vermont Junction Railway, near St. Johns, Que., easterly to Waterloo		30.00
Shore Line (formerly Grand Southern)			82.50
St. Catharines and Niagara Cen- tral	St. Catharines, Ont., to Niagara Falls		12:35
St. John Bridge and Railway Extension	From St. John to Fairville, crosses St. John River at the Falls by a cantilever steel bridge, and connects Intercolonial Railway with New Brunswick Rail- way, C.P.R., included in Canadian Pacific System.		2.00
St. John Valley and Rivière du Loup	From Fredericton, N.B., to Woodstock, N.B. (6 miles		2 00
Salisbury and Harvey (formerly Albert Railway) St. Lawrence and Adirondack	under construction)	45.00	
	to Intercolonial Boundary	4·14 50	19.80
South Shore (formerly Montreal and Sorel	From Junction with Grand Trunk at St. Lambert to		4.64
Sydney and Louisbourg (Dominion Coal Co)	Sorel, West Sydney Harbour to Louisbourg Harbour Branches to coal Mines	39·15 26·75	44 · 67
Thousand Islands	Gananoque on St. Lawrence River to Gananoque		65.90

TABLE showing Location of Railways, &c.—Concluded.

,	·	Distance.	
Name of Railway.	Description.	Miles.	Total.
Témiscouata	Rivière du Loup, Que., on Intercolonial, to Edmund- ston, N.B., on the New Brunswick Railway Branch—Edmundston to Connors, on St. John River.	81·00 32·00	
Tilsonburg, Lake Erie and Pacific Tobique Valley	Waterford Junction with Canada Southern Railway to West Brantford	17 00 25 66	113 · 00 16 · 00 28 · 00
United Counties	Hamilton to Welland Junction Branch—Chantler to Ridgeville Iberville Junction with Canadian Pacific Railway to		83.8 3
Victoria and Sidney	St. Hyacinthe, thence to St. Robert Junction with Montreal and Atlantic, 4½ miles from Sorel		61·00 16·26
Wood Mountain and Qu'Appelle.	Lake Manitoba)		40.00

		ent of Capital,					
Length of Line. Ordinary Share Capital. Preference Share Capital. Bonded Debt.	Dominion Gove	Province.	PROVINCIAL GOVERNMENT A1D. Subscription	Municipal Aid.	CAPITAL FROM OTHER SOURCES. TOTAL	CAPITAL. FLOATING DEBT. Total cost of Railway am Rolling Stock	Remarks.
NAME OF RAILWAY. Completed. Under Construction. (Rails laid.) tion. Authorized. Subscribed. Paid up. Authorized. Subscribed. Paid up. Authorized. Subscribed. Paid up. Authorized. Subscribed.	of Interest. Bonus.	Subscription to Shares or Bonds. Paid up. Loar	Bonus. to Shares or Bonds.	Loan. Bonus. Subscription to Shares or Bonds.	up. Subscribed. Paid up. Subscribed.		Number
Miles. Miles. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$	cts. per cent.		cts. \$ cts. \$ cts. \$ cts.	\$ cts. \$ cts. \$	cts. \$ cts. \$ cts. \$ ct	4 1,100,000 00 618,171 59 5½, 6 & 7 6,870,751 26	1 † Alberta Railway, 109½ miles from Dunmore to Lethbridge is in C. P. R. system
174 12 100,000 00 100,000 00 150,000 00 150,000 00 150,000 00 150,000 00 150,000 00 150,000 00 150,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,000 00 176,	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		52,500 00 48,680 00 711,122 02 699,192 08		2	3713	(*Payable on 100 miles in Canada, between St. Lawrence River and Lennovville in
20,000,000 c0 2,433,333 00	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	620,000 00 do 40,345 00 do 21,600 00 do Ontario.	988,546 00 840,000 00 156,000 00 82,699 25 25,390 00 24,500 00		$\begin{array}{cccccccccccccccccccccccccccccccccccc$) 142,500 00 Nil 124,521 98	
4 Great Eastern 275 400 00 28,350 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 00 1195 000 000 000 00 1195 000 00 1195 000	9 62,400 00	62,400 00 Quebec Ontario 105,200 00 do	179,073 00 179,073 00 68,000 00 68,000 00 94,500 00		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	241,473 00 Nil. 68,000 00 Nil. 0 2,471,200 00 43,642 97 *2,472,962 35	9 Amalgamated with Grand Trunk Railway. do do 11 *Contractor paid by shares and bonds at par and bonuses.
8 Berlin and objection 45:00 1,125,000 00 250,000 00 250,000 00 250,000 00 2,555,657 00 2,555,657 00 2,555,657 00 2,555,657 00 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,982 20 3,715,98		101,600 00 New Brunswick. Ontario 282,355 20 Ontario Ontario	270,000 00 270,000 00 290,000 00 192,000 00		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	7,237,639 20 Nil. 7,237,639 20 Nil. 7,237,639 20 Nil. 3,717,882 00	13 Ordinary share capital converted into Grand Trunk shares. * Exclusive of rolling stock. Dominion Land Grant.
12 Buctouche and Lake Huron 2,000,000 00 2,000,000 00 2,000,000 00 2,000,000	33 3 5 & 6 16	1,525,250 00 Ontario	1,479,000 00 1,479,000 00	20,000 00 42,5	00 00 16	3 2,072,906 63 12,700 00 2,072,906 63	1 18 1
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	00 00	51,200 00 Ontario. 25,028,000 00 { Manitoba. { Minitoba. { British Columbia	$ \begin{array}{c} 237,377 & 50 \\ 37,500 & 00 \end{array} \right\} $	33,000 00 33,6	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	126,000 00 Nil. *	19 *Cannot now be obtained. 20 *Including amount issued to acquire securities \$702,400,00 Dominion Land Court
Canada Southern. Sarnia, Chatham and Eric. Sarnia, Chatham and St. Clair Learnington and St. Clair. 19 10 11 120 13,436-80 3,436-80 65,000,000 00 65,000,000 00 65,000,000 00 65,000,000 00 65,000,000 00 65,000,000 00 65,000,000 00 65,000,000 00 65,000,000 00	22	55,267,044 63 3,750,565 38			22	8 55,267,044 63 Nil 55,267,044 63 8 3,750,565 38 Nil 3,750,565 38	
*Canadian Pacific 1,182 50 210 00 210 00 210 00 2200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 00 2,200,000 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	31,079,833 27 224,000 00 New Brunswick	180,000 00 180,000 00		24 31,079,833 2 1,854,000 00 25 100,000 00	0 1,854,060 00 15,236 12 1,013,500 00 Nil. *103,684 72	24 25 * From Return of 1893.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	00 00 6 27	do 159,251 54 New Brunswick. Nova Scotia	126,500 00 126,500 00 284,600 00 284,600 00 288,000 00		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 3,170,000 00 Nil 1,514,525 81 0 2,334,559 30 75,191 44 706,816 15	27 28
24 Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Carillon and Green Cari	30 31 00 00 4 32 88,800 00	Ontario	0 00		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5,000 00 Nil. 158,240 00 Nil. 807,300 00 Nil. +768,165 24	30 * Under construction. 31 Amalgamated with Grand Trunk. 32 † Also \$23,676.68 included in Can. Pac. Ry. exclusive of rolling stock. British 33 *Share capital and cost of railway included in Ontario and Quebec Railway.
29 Coast Line, Nova Scotta. Cobourg, Northumberland and Pacific. 28:50	34 39,850 00 35 297,920 00 82,652 82	39,850 00 Nova Scotia 287,936 00 Quebec 82,652 82 New Brunswick.		15,000 00 15,0	00 00 00 35 141,686 61 141,686 61 2,403,606 61	1,213,500 00 Nil. 837,160 44 1,144,792 61 221,692 99 6½ 1,366,485 60 2 233,15 9 82 Nil. 586,994 19	35 36
32 *Columbia and Valley	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	96,000 00 Ontario 750,000 00 New Brunswick 330,000 00	83,000 00 83,000 00 230,000 00 230,000 00	257,500 00 257,ξ	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	37 38 British Columbia Land Grant.
35 Drummold Avelock	19 94 4 & 5 41 15,142,633 33	15,142,633 33 Ontario Ontario Ontario 21,888 00 do 121,088 00 Quebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec Ouebec	336,000 00 336,000 00 224,660 00 224,660 00 224,660 00	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2 306,008,927 52 * Nil.	42 Amalgamated with Grand Trunk Railway. 43 * Exclusive of rolling stock. Amalgamated with Grand Trunk Railway. 44 do do do
39 Fredericton and St. Mary 8 Rand 172 42 310,000 00 310,000 00 500,000 00 2,500,000 00 2,500,000 00	5 46	16,000 00 Ontario.	438,250 00 198,867 00	173,000 00 20,000 00 193.0	00 00 45 389,074 23 389,074 23 3,389,074 23 3,389,074 23 249,000 00	889,074 23 389,074 23 ** 240,000 00 42,053 58 244,969 11	*In litigation. Dominion Land Grant. Amalgamated with Grand Trunk Railway.
43 + Great Northern 15,000 00 112,300 00 112,300 00 32,500 00 112,300 00 32,500 00 112,300 00 32,500 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,000 00 800,00	00 00 5 50 50 51 5,553 57 100 00 4 52 170,590 00 160,000 00 5 53 160,000 00	5,553 57 do New Brunswick. 170,560 00 Quebec 96,000 00 (Ontario	9,000 00 9,000 00 103,000 00 60,500 00 135,000 00 105,000 00	23,000 00	1,873,560 00	189,700 00 18,169 87 5 & 6 209,645 70 47,053 57 Nil. 30,410 97 1,831,060 00 Nil. 1,831,060 00	50 51 52 53
47 Great Junction	54 55 56 57 57 58 331 27	37,500 00 Nova Scotia 58,334 27 New Brunswick.	35,200 00 35,200 00 135,000 00 135,000 00		53 894,500 489,800 00 54 489,800 00 55 1,200,000 00 273,333 27	489,800 00 96,600 70 6 168,061 25	do The do and do The Part of General share capital of Company. British Columbia Land Grant.
52 Irondale, Bancroft and 100,000 00 57,000 00 44,500 00 44,500 00 57,000 00 44,500 00 57,000 00 44,500 00 4,408,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 00 57,000 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	22,400 00 208,732 80 48,000 00 do Ontario do do do do do	21,000 00 21,000 00 90,000 00 456,493 00 456,493 00	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	00 00 59 1,230,732 80 6,070,813 00 483,500 00	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	58 59 60 61
54 Joggins, now Calman. 7 (0) 60.82 750,000 00 12,000 00 12,000 00 12,000 00 12,000 00 55,000,000 00 19,000 00 19,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,000 00 10,00	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	11,200 00 Quebec do	3,675 00 3,675 00 250,280 00 250,280 00 250,280 00 310,806 82 310,806 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 82 317,820 317,820 317,820 317,820 317,820 317,820 317,820 31	51,000 00 36,0 87,500 00 87,5	00 00 62 35,375 00 1,279,280 00 00 63 7,289 18 7,289 18 65 671,142 77	1,264,280 00 1,358,520 18 64,321 00 6 1,422,841 18 627,166 52 Nil.	65 * Cost included in Canadian Pacific Railway.
77 - mat on \$100 - 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	73,600 00 Quebec 217,600 00 do	178,630 00 178,630 00 87,500 00 84,203 69 168,000 00 168,000 00 4 27 649,934 27	311,500 00	66 441,500 00 683,500 00 683,500 00 1,130,600 00 1,130,600 00	207,803 69 Nil. 165,597 75 1,105,600 00 220,000 00 615,000 00	Amalgamated with Grand Trunk Railway. * Exclusive of rolling stock 68 69
Lake Erie and Stanley Colombia 23 34 7 700 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 00 1,500,000 0	$\overline{73}$	Manitoba 649,93	900,000 00	215,600 00 215,6 65,000 00 65,0 144,870 85 65,000 00 644,8	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	37,434 80 16,808 03 0 to 8 4,216,000 00 Nil 380,000 00 Nil 380,000 00	 *Including Saskatchewan and Western. Dominion Land Grant. Dominion Land Grant. *Under construction. *Also \$53,221.57 included in Canadian Pacific Railway. Dominion Land Grant.
Tower Latter North-Western 15,000 00 147,000 00 147,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 00 1,065,000 0	$egin{array}{cccccccccccccccccccccccccccccccccccc$	00 Ontario Quebec Quebec do do do do	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		75 328,580 00 76 607,701 65 5,844,701 65	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	*Cost of road to Montreal and Atlantic Railway Co. +Bonds remain in treasury of Amalgamated with Grand Trunk Railway. *From Return of 1894; the cost not given this year.
Massawip 73 + Midland 74 + Midland 75 - Montfort Colonization 76 - Montfort Atlantic, formerly South-eastern 77 - Montfort Colonization 78 - Montfort Colonization 79 - Montfort Colonization 70 - Montfort Colonization 70 - Montfort Colonization 71 - Montfort Colonization 72 - Massawip 73 - Massawip 74 - Montfort Colonization 75 - Montfort Colonization 76 - Montfort Colonization 77 - Montfort Colonization 78 - Montfort Colonization 79 - Montfort Colonization 79 - Montfort Colonization 70 - Montfort Colonization 70 - Montfort Colonization 71 - Montfort Colonization 72 - Montfort Colonization 73 - Montfort Colonization 74 - Montfort Colonization 75 - Montfort Colonization 76 - Montfort Colonization 77 - Montfort Colonization 78 - Montfort Colonization 79 - Montfort Colonization 79 - Montfort Colonization 70 - Montfort Colonization 70 - Montfort Colonization 70 - Montfort Colonization 70 - Montfort Colonization 70 - Montfort Colonization 70 - Montfort Colonization 70 - Montfort Colonization 70 - Montfort Colonization 70 - Montfort Colonization 70 - Montfort Colonization 70 - Montfort Colonization 70 - Montfort Colonization 70 - Montfort Colonization 70 - Montfort Colonization 70 - Montfort Colonization 70 - Montfort Colonization 70 - Montfort Colonization 70 - Montfort Colonization 70 - Montfort Colonization 70 - Montfort Colonization 70 - Montfort Colonization 70 - Montfort Colonization 70 - Montfort Colonization 70 - Montfort Colonization 71 - Montfort Colonization 72 - Montfort Colonization 73 - Montfort Colonization 74 - Montfort Colonization 75 - Montfort Colonization 77 - Montfort Colonization 77 - Montfort Colonization 78 - Montfort Colonization 79 - Montfort Colonization 70 - Montfort Colonization 70 - Montfort Colonization 70 - Montfort Colonization 70 - Montfort Colonization 70 - Montfort Colonization 70 - Montfort Colonization 70 - Montfort Colonization 70 - Montfort Colonization 70 - Montfort Colonization 70 - Montfort Colonization	$egin{array}{cccccccccccccccccccccccccccccccccccc$	41,280 00 do (Ontario. (Quebec	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5,300 00 5,3	00 00 79 1,054,210 00 10 00 80 2,156,122 00	631,110 00 Nil. *389,707 14 2,156,122 00 Nil.	* Also \$56,663.22 included in cost of Canadian Pacific Railway. [been lost or destroyed. Operated by Central Vermont Ry. No reliable return of capital can be obtained as the original books of the Company have
78 * Montreal and Ottawa	$egin{array}{cccccccccccccccccccccccccccccccccccc$	361,270 00 Quebec	472,500 00 472,500 00			$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	82 Room Return of 1895, as no return for this year has been received. * Exclusive of rolling stock.
81 Montreal Park and Island (Field 1,500,000 00 3,000,000 00 3,000,000 00 3,000,000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	New Brunswick. do 113,440 00 do	76,000 00 76,000 00 575,000 00 575,000 00 99,708 90 99,708 90	23,000 00 23,0 47,500 00 23,0 47,5	595 009 00	1 + 9,968,660 56 Nil 4,840,988 59 1,774,957 00 Nil 13,546,000 00	British Columbia Land Grant. *Including \$3,955,977.06, 4 p.c. debenture stock. + Including securities of leased lines *Including \$399,067, 3½ p.c. guaranteed debenture stock. + From Return of 1880. [Books of Company destroyed in fire of 1877.
*Nakusp and Fort Sheppard			40,000 00 40,000 00 196,188 00 196,188 00		89 118,135 68 118,135 68 201,975 68 90 689,371 15 689,371 15 5,882,687 98 91 689,371 15 5,882,687 98 83,300 06		*From general capital of Company which could not be divided. Amalgamated with Grand Trunk Railway.
265 12	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1,320,000 00 do	83,300 00 83,300 00 533,300 00 532,250 00		93 1,320,000 00 94 7,543,300 00 95 6,616,120 00	1,320,000 00 Nil.	93 do do do 94 95 * Dominion Government pay to Quebec Government 5 p.c. per annum on this amount.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{bmatrix} 5 & 95 & \dots & \\ 1,500,000 & 00 \end{bmatrix}$	}	432,261 08 432,261 08 307,200 00 432,261 08	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	96 97 98 * Under construction
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	196,000 00 Ontario do do 84,800 00 Quebec 22,400 00 Ontario.	20,000 00 154,000 00 98,884 92		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$egin{array}{c ccccccccccccccccccccccccccccccccccc$	101 102
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	430,400 00 do 284,128 00 Quebec 152,800 00 Ontario. 21,600 00 Quebec	$\begin{array}{c cccc} & 411,000&00 & 256,100&00 \\ & 665,620&00 & 535,010&53 \\ & 148,500&00 & 143,250&00 \\ & 25,720&00 & 25,720&00 \end{array}$		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0 1,101,050 00 Nil. 817,596 18 0 122,320 00 Nil. 64,572 51	105 106
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	00 6 110	13,600 00 do 193,578 00 do 271,200 00 Ontario	17,433 60 536,000 00 255,571 00 17,433 60 426,000 00 255,571 00 255,571 00	101,000 00 40,0	00 00 108 3,830,578 0 00 00 109 3,158,771 0 4,010,140 c 00 00 111 8,841,782	0 3,158,771 00 38,577 51 7 2,910,613 6 0 4,010,140 00 Nil. *2,539,600 0	109 110 Exclusive of rolling stock. Dominion Land Grant.
107 1,500,000 00 3,800,000 00 3,800,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4,346,000 00 4	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	348,342 00 Quebec	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2,434,000 00 25,000 00 450,000 00 402,0 2,434,000 00 25,000 00 796, 70,000 00 70,000	113 683,860 29 683,860 29 1,471,860 2 44 62 114	9 977,260 00 599,558 89 7 967,660 62 Nii. 500,000 7 *1781,678	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$egin{array}{c ccccccccccccccccccccccccccccccccccc$	Manitoha	00 00 413,000 00 50,000 00 413,000 00 00 00 00 00 00 00 00 00 00 00 00	10,000 00	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Bonds held in trust pending decision of outstanding suits. *Exclusive of rolling stock. *Exclusive of control can be obtained as the original books of the Company have
115 Saskatchewan and Sorel 43 07 300,000 00 121,150 00 121,150 00 121,150 00 240,000 00 240,000 00 240,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,500,000 00 25,5	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	38,400 00 Ontario. 375,000 00 Sew Brunswick.	5,500 00 5,500 00 5,500 00		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	been lost or destroyed. Operated by Central Vermont Ry. 121 122 123 123 124 125
129 St. Catharines and St. Catharines and Railway Extension 19 80 2,710,090 80 350,000 00 350,000 00 350,000 00 350,000 00 350,000 00 973,334 00 97	$egin{array}{c ccccccccccccccccccccccccccccccccccc$	65,001 60 Quebec Ontario 9,635 89 New Brunswick	880,000 00 300,000 00 1,180,000 00 65,216 00 65,216 00		125 880,217 6 126 2,153,243 2 200 00 127 48,620 0 128 1,382,400 00 1,382,400 00 1,558,016 0	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$egin{array}{cccccccccccccccccccccccccccccccccccc$
124 St. John Valley and St. John Valley and Adirondack 65.90 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00	130 54,400 00 54,400 00 131 300,000 00 645,950 00	54,400 00 Nova Scotia	13,920 00 87,808 00 82,000 00	65,000 00 65,	119,400 0 180	0 119,400 00 Nil. 1,832,400 0	129 *From the general capital of the Dominion Com. 130 Amalgamated with Grand Trunk Railway. 130 Amalgamated with Grand Trunk Railway. 131 No sworn return received, information obtained from charter, and statement sent to [Government, 13thApril, 1896]
128 St. Steffing and Louisbourg, St. Steffing and Lansdowne, now Midland Ran 113 00 250,000 00 400,000 00 60,000 00 60,000 00 250,000 00 58,000 00 58,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00 60,000 00	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	24,400 00 Ontario	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	7 133 134
Temisconata 12 70 1,000,000 00 50,000 00 50,000 00 50,000 00 785,490 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 00 3,500,000 0	136 14,656 00 14,656 00 138 139	14,656 00 Ontario do do do	70,000 00 70,000 00 70,000 00 375,282 00 375,282 00 105,212 00 105,212 00	988,000 00 988, 388,500 00 376	136 322,583 30 322,583 30 512,500 0 137 322,583 30 322,583 30 6,014,321 3 702 59 138 493,712 0	00 512,500 00 Nil. 512,500 00 5,986,011 30 Nil. 5,547,338 00 481,914 59 Nil. 5,547,338	130 111 (1111)
134 margine Valley	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	57,600 00 do 184,628 00 Quebec	53,000 00	100,000 00 100,	500 00 140	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$0 \mid 141 \mid$
138 + Toronto and Junction Buffalo, formers 16:20 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500 00 10,500	86 66 144 32,800 00 145 146 146	32,800 00 Ontario do do do do do do do	312,000 00 312,000 00 241,276 00 241,276 00		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	00 498,000 00 Nil. 253,585 00 79,800 00 Nil. 366 1,420,162 66 Nil. 52 317,052 52 Nil.	142
141 United Communication 3	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1,193,369 00 1,193,369 00 14,800 00 Nova Scotia 1,000,000 00 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000	94,957 59 94,957 59 44,800 00 44,800 00 1	25,000 00 25, 27,685 00 27.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	148 * Due the Dominion Government.
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	151	440,440,000,000	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	150,000 00 150, 25,000 00	000 00 150 151 1,003,600 152 1,003,600 226,000	00 21,607 50 200 00	In litigation and under construction. Dominion Land Grant. Dominion Land Grant.
*West Official Relation of Atlantic, compliants and Atlantic, compliants and Annapolis (Western Counties). 87 00 40 00 11 40 00 121,607 50 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,864 39 105,267,86	The second section of the second section is a second section of the second section of the second section is a second section of the second section is a second section of the second section of the second section is a second section of the second section of the second section is a second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the sectio	ving bonuses British Columbia, \$37,500; Manitoba, \$370,000; Que	90 27 27,069,508 75 30,055,946 30	2,970,000 00 11,744,501 78 2,202,500 00 14,494,	700 99	02 899,817,899 77 11,801,400 08	
Wood Mountain * Forming Pacific Railway system. * Forming part of the system.	•		······································				

SUMMARY STATEMENTS

RELATING TO MILEAGE, CHARACTERISTICS OF ROADS, ROLLING STOCK, OPERATIONS, PASSENGERS AND FREIGHT CARRIED, EARNINGS, OPERATING EXPENSES AND ACCIDENTS.

No. 2.—Summary Statement of Characteristics of

	Length of Line.					Weight per Yard.	
Name of Railway.	Completed (Rails laid.)	Under construction.	Iron Rails.	Steel Rails.	Length of Siding.	Iron Rails.	Steel Rails.
	Miles.	Miles.	Miles.	Miles.	Miles.	Lbs.	Lbs.
Alberta Railway and Coal Co	16.00			64 · 62 19 · 00			30 to 56 56
Harvey Branch Atlantic & Lake Superior, comprising—	3.00						• • • • • • • • • • • • • • • • • • •
Baie des Chaleurs	100.00	15·00		100.00	3.00		56
Bay of Quinté Řailway and Navigation Co	64.82			64.82	7:00		50 & 56
Kingston, Napanee & Western 60 82 J Berlin and Waterloo (electric) Brockville, Westport & Sault St. Marie.	2·75 45·00			2·75 45·00			60 56
Buctouche and Moncton	32.00			32·00 295·07	•2		56 56
Canada Atlantic 138 00 Central Counties 38 00				176.00	51 00	1	56 & 72
Canada Eastern	136 · 00 382 · 19			136 · 00 382 · 19	6 · 50 161 · 27		56½ to 60 606:580
Canadian Government Railways— bIntercolonial.		· · · · · · · · ·		1150 50			56 to 67
Prince Edward Island	210.00		83.50	126.50	16.00	38	50 & 52
Leased Lines - Atlantic and North-west. 205 00 Columbia and Kootenay 28 50 Credit Valley 175 10 Manitoba South-western 215 20 Toronto, Grey and Bruce 191 30 Ontario and Quebec 469 00 Western Ontario Pacific 26 60 St. Lawrence and Ottawa 58 40 Fredericton 22 40 New Brunswick 175 00 New Brunswick and Canada St. John Bridge and Rail-way Extension 200 St. John and Maine 92 00 Alberta Railway (Dunmore to Lethbridge 109 50 Nakusp and Slocan 36 90 Shuswap and Ottawa 23 60 Montreal and Utake Maskin-	6216 · 50			6216 ` 50	660 · 03		50 to 73
ongé	68:00 13:00 13:75	50.00	13.00	68 00 13 75 104 00 75 00	3·25 ·25 ·75 ·····	65	5 5 42 & 5 50 & 5

a 95°21 miles of double track. b 1°50 miles double track. c 14°20 miles double track.
*The 45°8 miles completed of Lake Temiscamingue Colonization Ry. is included in lines owned by Canadian Pacific Ry. Co.

20

Roads, &c., for the Year ended 30th June, 1896.

Number of Ties per Mile.	Nature of Rail Fastenings.	Number of Grain Elevators.	Le	Not Guarded.	No. of Overhead Bridges.	Height of Overhead Bridges above rail level.	No. Level Crossings of Other Railways.	No. of Junctions with other Railways.	Ines. Radius of Sharpest Curve.	Number of Feet per Mile of heaviest gradient.	Gauge of Railway.	Number.
	Plain fishplates Plain fishplates.			2 11		Feet.		2 2	Ft. 573		Ft. 3·00 4·8½	
2640	Fishplates and bolts			34	3	22		4	717	67	4.8½	3
2348 2640 2640 2600 3000 & 2640 2640	Plain and angle fishplates Angle bars and fishplates Fisher bridge joint Plain fishplates Angles and plain fishplates. Plain fishplates Joint splice 4 and 6 bolts nut locks.			3 ა	3	22	1	2 2 4 4	400 482 717 955 1146 2 955 1 955 1 951	160 58 74 53 53 80	4·8½ 4·8½ 4·8½ 4·8½ 4·8½ 4·8½ 4·8½	5 6 7 8 9
2640	Angles and fishplates		9	429 960	29	18 to 35	6		21 694 . 396	65	4·81 3·6	12
2140 to 3168	Plain and angle fishplates	10	33	3447	61	18 to 24	51	68 €	319	237	4·8½	14
1760 2640	Plain fishplates. Chairs. Angle bars. Plain fishplates Plain fishplates	· ·	1	12 8 15 94 40	1 	17	 3	1 1 4		100 79 105	4 · 8½ 5 · 6 4 · 8½ · · 8½ 4 · 8½	16 17 18 19
2640	Plain and angle fishplates			13		•••••		1	820		4.83	

No. 2.—Summary Statement of Characteristics of

		Length o	of Line.	•		Weight	per Yard.
Name of Railway.	Completed (Rails laid.)	Under construction.	Iron Rails.	Steel Rails.	Length of Siding.	Iron Rails.	Steel Rails.
	Miles,	Miles.	Miles.	Miles.	Miles.	Lbs.	Lbs.
22 Dominion Atlantic, comprising— Windsor and Annapolis 87 50 Cornwallis Valley 14 00 Yarmouth and Annapolis 87 00	220.50		16.50	204:00	10.50	67	56 to 60
Windsor Branch, Intercolonial 32:00) 23 Drummond County. 24 Elgin and Havelock				90·53 27·00 76·75 78·00	4.80		56 & 60 56 54 & 56 50 & 54
27 Fredericton and St. Mary's Railway and Bridge Co.			1.33		12		56
28 dGrand Trunk 884 25 Great Western 561 80 Brantford, Norfolk and Port Burwell 34 78 Buffalo and Lake Huron 162 00 Grand Trunk, Georgian Bay and Lake Erie 172 75 Owen Sound Branch 12 42 London, Huron and Bruce 69 01 01 25 South Norfolk 17 00 Wellington, Grey and Bruce 168 13 Northern 172 10 North Simcoe 33 34 Hamilton and North western 173 90 Northern and Pacific Junction 111 37 37 37 37 37 37 3	3,161 98			3,125 · 20	1	56 to 65	56 to 80
Jacques Cartier Union	50.93		İ	38·00 50·93	1.99		56 56
(electric) 32 Hereford 33 Irondale, Bancroft and Ottawa 34 Joggins, now Canada Coals and Ry. Co. 35 Kaslo and Slocan	45.00 12.00 31.80			17 00 53 30 45 00 12 00 31 80	2·50 2·00		50 & 70 56 56 56 56 45
36 Kent Northern, including St. Louis and Richibucto. 37 Kingston and Pembroke. 38 L'Assomption.	34·00 112·85		9.75	30·50 103·10 3·00	.25	50 to 84	56 56 56
39 Lake Erie and Detroit River 88 05 London and Port Stanlev 23 75	111 · 80			111 · 80	14.00		56 65

Roads, &c., for the Year ended 30th June, 1896—Continued.

Number of Ties per Mile.	Nature of Rail Fastenings.	Number of Grain Elevators.	No. Le cross	vel.	No. of Overhead Bridges.	Height of Overhead Bridges	No. Level Crossings of Other Railways.	No. of Junctions with Other Railways.	No. of Junctions with branch lines.	Radius of Sharpest Curve.	Number of Feet per Mile of heaviest gradient.	H Gauge of Railway.	Number.
2640 2640 2000 2640 2992 2564	Plain and angle plates. Plain and angle fishplates. Plain fishplates. Plain fishplates. Angle fishplates. Angle fishplates.			109 46 24 111 15	2 2 	22	2 1 5	3 4 1 6 	2	637 717 717 661 573 1433	69 90 52 80	4 8 4 8 4 8 4 8 4 8 4 8 4 8 4 8 4 8 8 4 8 8 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	23 24 25 26
2640	Plain and angle fishplates	11	83	2736	238	156 to 28' 8"	65	71	164	1100 e600	53 e10 5	4.8	28
2640 2640 2112 2800 2640 3000	Angle and fishplates Plain fishplates Strap and angle plates Plain fishplates Plain fishplates Plain fishplates			14			1 2	3		2252 955 50 955 1000 955	60 4 66 60 79	4·8 4·8 4·8 4·8	30 31 32 33 33 34
2640 2432 2640 2500 2700)	Angle fishplates Angle fishplates Plain and angle fishplates. Plain fishplates. Plain and angle fishplates.			10 56		16 & 21	1			193 1000 955 955 1433 716	171 60 79 20 53	3·0 4·8 4·8 4·8 4·8	35 36 37 38 38 39

c branch lines.

No. 2.—Summary Statement of Characteristics of

		Length o	f Line.			Weight	per Yard.
Name of Railway.	Completed (Rails laid.)	Under construction.	Iron Rails.	Steel Rails.	Length of Siding.	Iron Rails.	Steel Rails.
1	Miles.	Miles.	Miles.	Miles.	Miles	Lbs.	Lbs.
40 Lotbinière and Megantic	23 · 34	7:00		23 · 34	.50	 	56
41 Manitoba and North-western. 234 50	249 97			249 97	23.52		56
Saskatchewan and Western 15 47 f 42 Manitoba and South-eastern		8.00					
43 Massawippi Valley	34 00			34.00			50 & 60
44 Montford Colonization	21.00			21.00	120		56
South-eastern 140 10)							
Lake Champlain and St. Lawrence Junction 61 40	201.50		13.90	187.60	31 80		56 to 72
46 Montreal Park and Island (Electric)	14.43	13.00	 .	14·43	.98	,	56
47 Montreal and Vermont Junction	23 60			23.60	2.00	•••••	60 to 72
48 Montreal, Portland and Boston (now Montreal and Province Line	40.60		8.60	32.00	1.40	38	56
49 Nelson and Fort Sheppard	59:40			59.40	2.30		56
50 New Brunswick and Prince Edward Island	36.00			36.00	1.50		56
51 gNiagara Falls Park and River (Elec-			İ				
tric)	13.68			13.68 265.12			56 56
52 Northern Pacific and Manitoba 53 Nosbonsing and Nipissing				5.50			
54 Nova Scotia Central	74.00			74 00			56
55 Nova Scotia Southern 56 Nova Scotia Steel Co., formerly New		10.00	' ····	• • • • • • • • • • • • • • • • • • • •			• . • • • • • •
Glasgow Iron Coal and Ry. Co	12 50) <mark> </mark>	56
57 Ontario, Belmont and Northern 58 Orford Mountain		10.00		26.50			56
59 Oshawa Electric Railway				8.50			64
60 Ottawa, Amprior and Parry Sound	164 00)	72
61 Ottawa and Gatineau				56.50 48.00)	56 & 72
63 Philipsburg Ry. and Quarry Co	6.75	i		6.75			50
64 Pontiac and Renfrew				4 · 25 71 · 00	3.50	5	• 56 56
66 Port Arthur, Duluth and Western					4.00	0	56
67 Qu'Appelle, Long Lake & Saskatchewan				253 96 213 50		3	56 % 70
68 Quebec Central 69 Quebec and Lake St. John			1			0	56 & 70
Lower Laurentian 39.50			i	281 50	į.	9	56 & 60
70 Quebec, Montmorency and Charlevoix 71 Salisbury and Harvey				30:00 4:00	4 2	0 60	56
72 Shore Line, New Brunswick	82.50			82.50	2.50	0	50
73 Stanstead, Shefford and Chambly) 		31 · 00 12 · 35		60	
74 St. Catharines and Niagara Central 75 hSt. Clair Tunnel Yard and Approach	1 0.00			2 23			100
76 St. John Valley and Rivière du Loup	1	6.00)				1
77 St. Lawrence and Adirondack			,	19·80 4·64			56 to 80
79 Stewiacke Valley and Lansdowne		10.00)				
80 Sydney & Louisbourg (Dominion Coal Co 81 South Shore (formerly Montreal & Sorel): '		55 77 44 67	28:00	ام	56 & 8
82 Témiscouata)		113 00	5.00	0	56
83 Tilsonburg, Lake Erie and Pacific)		16.00	· I	1	56
84 Thousand Islands		3)		4·33 28·00		1	5 56

f7.60 miles of double track. g 11 43 miles of double track. * Not in operation. h Length of Tunne 6000 feet, inside diameter, 19 ft. 10 in.

Roads, &c., for the Year ended 30th June, 1896.—Continued.

		levators.	Le	of evel	idges.	d Bridges	s of other	ith other	h branch	Curve.	r Mile of		
No. of Ties per Mile.	Nature of Rail Fastenings.	Number of Grain El	Guarded.	Not Guarded.	No. of Overhead Bridges.	Height of Overhead above rail level.	No. Level Crossings of Railways.	No. of Junctions with other Railways.	No. of Junctions with branch lines.	Radius of Sharpest Curve.	Number of Feet per heaviest gradient.	Gauge of Railway.	Number.
2600	Plain fishplates					 		1		819		4·8 <u>1</u>	1
2700	Plain and angle fishplates			180			• • • • ;	2	2	955	105	4.83	1
2800 2620	Plain fishplates. Plain fishplates.	1	i 	20 14		19 20	i	2	i	478 573	76 168	4 8 <u>1</u> 3	43
2640	Fishplates and angle bars			163	2	1′96″	8	9	2	520	83	4·8½	45
2640 3000	Plain and angle fishplatesPlain fishplates and bolts			13 51			1	3 3		4 0		4·81 4·82	
3000 2640	Plan fishplates and chairs			21			3	1 1	2	 473		4·81 4·81	
2400	Plain fishplates			26				1		750	66	4.81	50
2640 2600 2800 2640	Angle bars. Angle bars Plain fishplates Angle bars.	!	l	16 258 1 23		14 & 22 21	6 1	2 2 1	$ \begin{array}{c} 1\\3\\\dots\\1 \end{array} $	115 573 955 819	63 132 50	4 81 4 81 4 81 4 81 4 81	52 53 54
2640	Angle bars		ĺ	·· 5				1	1	955	79	 4·8½	56
2640 2640 2640 2640 3000 2640 2640	Angle bars. Plain fishplates. Angle bars. Plain fishplates. Plain fishplates.		3 1	67 28 44 44 10 3		12	1 2		1	716 955 80 955 573 955 955 717	74 211 66 106 66 52	4 81 4 81 4 81 4 81 4 81 4 81 4 81	58 59 60 61 62 63
2640 2640 2600	Angle bars			52 5 51 115			3 2	1 1 1		1146 573 1146 882	53 95 65	4 8 4 4 8 4 4 8 5	65 66 67
2640 2640	Plain and angle fishplates	1	2	85				4	2	717		4·8⅓ 4·8⅓	
2640 2600 2992 2640 2640	Plain fishplates. Plain fishplates. Plain fishplates. Plain fishplates. Plain fishplates. Angle bars.			10 30 15 42 20	1 5 1	15 23 18 22	3 3 2	1 1 3 4 2		1433 717 573 717 717	80 85 60 79 105	4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8 · 4 · 8	71 72 73 74 75
3000	Angle bars. Fishplates			26 13		21' 6''	<u>2</u> 1	3		1146 714	57 79	4·81 4·82 4·82	76 77 78
2640 2640 2640 2640 3000 2600	Angle bars. Plain fishplates Plain and angle fishplates. Angle bars. Anvle bars. Plain fishplates.			26 15 38 14 8 23	i	18 21 22' 6"	i	1 1 2 1	7 1	1433 2292 819 717 660 717	70 53 79 53 84	4 8 4 8 4 8 4 8 4 8 4 8 4 8 4 8 4 8 4 8	79 80 81 82 83 84

No. 2.—Summary Statement of Characteristics of

			Length o	f Line.			Weight	per Yard.
Number.	Name of Railway.	Completed (Rails laid.)	Under construction.	Iron Rails.	Steel Rails.	Length of Siding.	Iron Rails.	Steel Rails.
87 88 89	Toronto, Hamilton and Buffalo(including Brantford, Waterloo and Lake Erie). United Counties. Victoria and Sydney. Winnipeg Great Northern (formerly Winnipeg and Hudson Bay) Wood Mountain and Qu'Appelle	83·83 61·00 16·26 40·00		• • • • • • • • • • • • • • • • • • • •		2:00	Lbs.	

 $i 2\frac{1}{2}$ miles double track.

Roads, &c., for the Year ended 30th June, 1896—Concluded.

r Mile.		Elevators.	Le	of vel	ad Bridges.	rhead Bridges vel.	Crossings of other s.	ns with other	ns with branch	Sharpest Curve.	Feet per Mile of gradient.	way.	
No. of Ties per Mile.	Nature of Rail Fastenings.	No. of Grain	Guarded.	Not Guarded.	No. of Overhead	Height of Overhead above rail level.	No. Level Cro Railways.	No. of Junctions Railways.	No. of Junctions lines.	Radius of Sha	Number of Fe	Gauge of Railway	Number.
3000 2640 2464	Plain and angle fishplatesPlain fishplatesPlain fishplates.		6	121 50 13	9	21	1 4	4 5	1	955 717 637	52	4·81 4·81 4·82	8
2640	Plain fishplates.	 -:-		6						2865	31	4·8½	89
		72	166	11000	413		235	326	235				-

No. 3.—SUMMARY STATEMENT of the different descriptions of

Name of Railway.	Length o	f Line.	Number of En-	gines.	Number of Sleep.	ing Cars.	Number of Palace	Cars.
	Com- pleted.	Under Con- struc- tion.	Owned.	Hired.	Owned.	Hired.	Owned.	Hired.
	Miles.	Miles.						
1 Alberta Railway and Coal Co	64 · 62		12			ļ	1	
2 Albert Southern	16.00		1					
Harvey Branch	3.00							
Baie des chaleurs. 80 00 Great Eastern 13 00 Ottawa 7 00	100 · 00	15· 0 0	6					••••
4 Bay of Quinté Railway and Navigation Co 4 00 Kingston, Napanee and Western 60 82	64 82		3	2			 	· • • •
5 Berlin and Waterloo (Electric)			3					
7 Buctouche and Moncton	32.00		2					
8 Calgary and Edmonton			1		ļ.		#9	2
Central Counties 38:00 5 0 Canada Eastern 38:00 5			9	Į.				
1 Canada Southern	382:19		129	6		+26	3	
!	.					,		
Canadian Government Railways— 2 Intercolonial	1,150.50		204	ļ	15		5	
3 Prince Edward Island	210.00		21				1	
4 Canadian Pacific Railway	6,216·50	1.40	584	10			*40	
5 Caraquet	68 00 13 00		2		 	····		
7 Coast Line, N.S	13.75	25.00	2		ļ		1	:::
8 Cobourg, Northumberland and Pacific	104 00	50.00	8			4		
0 Central of New Brunswick	75:00	,	3	9				
Cumberland Ry. & Coal Co., including Springhill and Oxford Branch, 14 miles				-	1	ļ. 		

Rolling Stock, for the Year ended 30th June, 1896.

_ Ź	Class Cars.	Number of Second	grant Cars.	Number of Bag-	90	Number of Cattle and Box Freight	Cars.	Number of Plat-		Number of Hop- per and Dump-	ing Cars.		Remarks.
Owned.	Hired.	Owned.	Hired.	Owned.	Hired.	Owned.	Hired.	Owned.	Hired.	Owned.	Hired.	Number	
3		1				*32 1		8 7	 1	247			*Including 6 conductors vans and 1 tool car. 6 Iron water tank cars owned by Co., 3 snow ploughs, 1 flanger.
1 2 *7 1	2	2 1 1		2	3	8 1 20	*17	50 15 	 77	12		5 6	
2 6 5 41		5 2 21		5 2 30	Ì	‡471 *14 2,113	1300	29 337 88 280		6 		9 10	I snow plough. Rolling stock furnished by C. P. Ry. Including 2 official cars. ‡1 tool car and 6 conductors vans. Including 2 conductors vans, also owned 5 snow ploughs and 1 flanger. Including 40 oil tank cars and 5 boarding cars included in box. †Wagner
9 2 15	1	101	1	63	1	‡2,273 ‡178	1	2,269 125		2,125		13	sleeping and parlor cars passing through from other railways. 56 snow ploughs 21 flangers. ‡ Including 99 conductors vans. ‡Including 3 conductors vans. *Including 15 dining cars, 10 parlor and 15 official and pay cars, also owned 82 snow ploughs and 44 flangers.
+227		17		200		§11,354		3,987		90			†Including 1 photograph, 3 observation, 1 exhibition, 1 street, 1 commissary, 1 school, 1 third class, 2 baggage, sleeper and passenger. §Including 182 refrigeration cars, 20 furniture, 4 charcoal, 6 oil tank cars. Miscellaneous in construction and snow service not included in statement, 2 snow scrapers, 1 shovel car, 26 steam shovels, 19 derricks, 13 pile drivers, 2 auxiliary, 1 ballast plough, 1 rail saw, 36 dumps, 50 Rogers ballast, 19 boarding, 2 water, 1 store, 5 iron water tanks, 2 wrecking, 1 snow bank cutter, 1 steam hoist, making 182 miscellaneous.
	3		2		3	‡33	1 .	15	2			1 1 1	7 8 9 1 tool car, 1 snow plough, 1 flanger. ‡In- cluding 3 conductors vans.
	3		.		· · · · · · · · · · · · · · · · · · ·		2		. 20 8			2 2	0

29

No. 3.—Summary Statement of the different descriptions of

_							P		
-	Name of Railway.	Length o	f Line.	Number of En-	gines.	Number of Sleep-	ing Cars.	Number of Palace	Cars.
Number.		Completed.	Under Con- struc- tion.	Owned.	Hired.	Owned.	Hired.	Owned.	Hired.
		Miles.	Miles.						
	Dominion Atlantic comprising Windsor and Annapolis	220 · 50	,					3	,
24 25 26 27	Drummond County Elgin and Havelock Erie and Huron Esquimalt and Nanaimo Fredericton and St. Mary's Railway and Bridge Co. Grand Trunk. 884-25	27·00 76·75 78·00 1·33		2 5 5		1		• • • • •	
	Great Western. 561 80 Brantford, Norfolk and Port Burwell 34 78 Buffalo and Lake Huron 162 00 Grand Trunk, Georgian Bay & Lake Erie. 172 75 Owen Sound Branch 12 42 London, Huron and Bruce 69 01 Waterloo Junction 10 25 South Norfolk 17 00 Wellington, Grey and Bruce 168 13 Northern 172 10 North Simcoe 33 34 Hamilton and North-western 173 90 Northern and Pacific Junction 111 37 Toronto Belt Line 12 70 Midland 166 78 Grand Junction 85 40 Toronto and Nipissing 85 60 Lake Simcoe Junction 26 50 Victoria 35 25 Whitby, Port Perry and Lindsay 46 50 Cobourg, Blairton and Marmora 15 00 Jacques Cartier Union 6 50 Montreal and Champlain Junction 61 75 Beauharnois Junction 19 50	3,161 98					•	9	
30 31 32 33 34	Great Northern Great North-west Central Hamilton, Grimsby and Beamsville (Electric) Hereford Irondale, Bancroft and Ottawa Joggins, now Canada Coal and Railway Co Kaslo and Slocan	53· 3 0		 3	3		••••		
37 38	Kent Northern, including St. Louis and Richibucto Kingston and Pembroke			2 9 1	1	,		 	
40	Lake Erie and Detroit River 88 05 1 London and Port Stanley 23 75 1 Lotbinière and Megantic 23 4 50 1	111 · 80 23 · 34	7.00	8 2 4					
43 44	Saskatchewan and Western	34 00 21 00	8.00	7 2				• • •	
46 47 48	Lake Champlain and St. Lawrence Junction. 61.40 / Montreal Park and Island (Electric). Montreal and Vermont Junction. Montreal, Portland and Boston. Nelson and Fort Sheppard.	14·43 23·60 40·60	13.00						ı

Rolling Stock, for the Year ended 30th June, 1896—Continued.

Number of First	Class Cars.	Number of Second	Class and Emi- grant Cars.	Number of Bag-	gage, Mail and Express Cars.	Number of Cattle and Box Freight	Cars.	Number of Plat-	torm Cars.	Number of Hopper and Dump-	ing Cars.		Remarks.
Owned.	Hired.	Owned.	Hired.	Owned.	Hired.	Owned.	Hired.	Owned.	Hired.	Owned.	Hired.	Number	
15		10 2 1		11 1 1 4 3		§140 9 1 28 †12		195 20 8 15 65		22		23 24 25	2 snow ploughs and flangers, §1 tool car included. 2 snow ploughs and 1 flanger. †Including 3 conductors vans.
370	• • • •	216		224		*17,006	• • • •	5,292	•••	1,225	•••	28	*Including 55 refrigerator, 370 conductors vans, 64 tool cars, also owned 59 snow ploughs, 31 flangers.
2 1 1 5 2	2 2 2	1	2	1 5 1		2 1 *16		10 31 5 4 150		5		32 33 34 35	1 snow plough. *Including 1 conductors van. ‡Electric motor cars—1 snow plough. 1 snow ploughs, 2 flangers. *Including 1 caboose. 2 snow ploughs and 1 flanger. 2 snow ploughs and 2 scraper cars.
5 1 2 5 1 13 ‡12 	2 ‡8 12 4	5		3 1 3 4 1 2	1	250 438		195 1 42 19 363 	20			40 41 42 43 44 45 46 47 48	1 snow plough. ‡Electric motor cars, also owned 2 snow ploughs.

No. 3.—SUMMARY STATEMENT of the different descriptions of

	Name of Railway.	Length o	f Line.	Number of En-		Number of Sleep-	ing Cars.	Number of Palace	Or Drawing room Cars.
Number.		Com- pleted.	Under Con- struc- tion.	Owned.	Hired.	Owned.	Hired.	Owned.	Hired.
İ		Miles.	Miles.						
51	New Brunswick and Prince Edward Island	36·00 13·68 265·12					1	····	
54 55	Nosbonsing and Nipissing Nova Scotia Central Nova Scotia Southern. Nova Scotia Southern.	74.00	10 00	5	١				
57 58	Nova Scotia Steel Co., formerly New Glasgow Iron Coal and Railway Co. Ontario, Belmont and Northern Orford Mountain	26.50			····2			ļ	
- 1	Oshawa Electric Railway Ottawa, Arnprior and Parry Sound	8·50 164·00							
61	Ottawa and Gatineau	56.50		2	1				
63 64 65	Parry Sound Colonization Philipsburg Railway and Quarry Co Pontiac Pacific Junction. Pontiac and Renfrew. Port Arthur, Duluth and Western.	6·75 71·00 4·25		1 1 4 1 4] [
67	Qu'Appelle, Long Lake and Saskatchewan	253 96		{	l .	1			į
68	Quebec Central	213 50		13	l	i		2	ĺ
70	Quebec and Lake St. John 242 00 \ Lower Laurentian 39 50 \ Quebec, Montmorency and Charlevoix. Salisbury and Harvey.	30.00				4			
73 74 75	Shore Line. Stanstead, Shefford and Chambly St. Catharines and Niagara Central. St. Clair Tunnel Yard and Approach.	12·35 2·23		5 5 1 4					
77 78 79	St. John Valley and Rivière du Loup St. Lawrence and Adirondack St. Stephen and Milltown Stewiacke Valley and Lansdowne Sydney and Louisbourg (Dominion Coal Co.).		13·00 10·00	12					
	South Shore, formerly Montreal and Sorel	44 · 67 113 · 00		4 5				;i	
84	Tilsonburg, Lake Erie and PacificThousand Islands	16·00 4·33 28·00		1					
87 88 89	Toronto, Hamilton and Buffalo, formerly Brantford, Waterloo and Lake Erie United Counties Victoria and Sydney, B.C. Winnipeg Great Northern, formerly Winnipeg and Hudson Bay	83·83 61·00 16·26 40·00		10 4 2	1				
90	Wood Mountain and Qu'Appelle.		17 00						
İ		16,387 08	242 · 40	1982	64	109	26	69	

Rolling Stock, for the Year ended 30th June, 1896-Concluded.

Number of First	Class Cars.		Number of Second Class and Emi-	grant Caus.	Number of Bag-	Express Cars.	Number of Cattle and Box Ereight	Cars.	Number of Plat-		Number of Hopper and Dump-	ing Cars.		Remarks.
Owned.	Hired.		Owned.	Hired.	Owned.	Hired.	Owned.	Hired.	Owned.	Hired.	Owned.	Hired.	Number	
1 *40 3			15		1 3		2 +292		33 5 179				51 52	†Including 6 conductors vans and 1 boarding car.
			2		2		13		48 49		+00		53 54 55	
 *5			1				1		15 2		‡26		57 58	*Including 1 motor car; 1 sweeper, 1
7 2			4 9		2 1		+9	*22	100 28	67 		••••		snow plough. 2 snow ploughs and 1 flanger; * including 3 conductors vans. 1 snow plough, 1 flanger; † including 1 conductors van.
2 1 1			1		i		5		 52	· · · · · · · · · · · · · · · · · · ·	32		65	1 snow plough and 1 flanger.
					5		‡14 *258		275				67	Theluding 4 conductors vans and 1 flanger owned. Road operated and rolling stock furnished by C.P.R.
8 6 4			10 18		10		*78 5		264 23				69	*Including 6 conductors vans and 1 tool car—5 snow ploughs. *Including 4 conductors vans and 1 tool car—6 snow ploughs, 1 flanger 1 snow plough.
1 5 8					1 3 2		+7 		61				71	
		1 .				4	‡9	*6	2	61	25		74	tConductors vans. 3 7*3 conductors vans and 3 tool cars.
2	1		3	•••			+3		11		610		78 79 80) †Including 2 conductors vans—1 snow plough and 1 flanger.
3 2 1		1			2		*49 4		54				82	2 [‡] 1 official car * including 7 refrigerator cars, 2 tool cars—4 snow ploughs, 2 flangers.
••••].:: !				1		*4	17	36	96			- 8	Rolling stock has been furnished by the Canadian Pacific Railway. 5 *Including 2 conductors.
2 2 1	2	4			1 1		6 3		9 15				8	71 snow plough and 1 flanger.
		: :											. 9	
998	3 4	1	646	2	625	25	*35 · 302	1489	15,192	401	4,810	1	2	

^{*} Including 244 refrigerator cars, 75 tool cars, 845 conductors vans. 33

No. 4.—Summary Statement of the Operations of the Year

				TRAIN MI	LEAGE.	
ramper.	Name o Railway.	Mileage.	Passenger Trains.	Freight Trains.	Mixed Trains.	Total Train Mileage.
1	Alberta Railway and Coal Co	64.62			30,048	30,04
23	Albert Southern		· ••••••••••••••••••••••••••••••••••••		5,600	5,60
	Great Eastern	80.00			12,800	12,80
	Bay of Quinté Ry. & Navigation Co 4 00 Kingston, Napanee & Western. 60 82			ì	131,182	131,18
6	Berlin and Waterloo (Electric). Brockville, Westport and Sault Ste. Marie Buctouche and Moncton.	2·75 45·00 32·00	1,000		20,672	66,00 29,82 20,67
8 9	Calgary and Edmonton	295·07 176·00	204,451		69,061 50,569	69,06 461,14
	Canada Eastern Canada Southern	136 00 382 19	91,688 1,124,011		43,118 153,372	212,55 3,313,46
23		1,150·50 210·00	1,304,657 85,276	2,537,845 154,158		3,842,50 239,43
	Canadian Pacific Railway	6,211 · 50	5, 230, 233	8,119,467		14,364,29
6 7	Caraquet	68:00 13:00 104:00		250 16,500	32,000 98,000	32,000 6,450 114,500
9	Central of New Brunswick	75·00 32·00			40,800 76,098	40,800 76,098
	Cornwallis Valley. 14 00 Yarmouth and Annapolis 87 00 Windsor Branch of Intercolonial 32 00	220 · 50	216,452	296,750	• • • • • • • • • • • • • • • • • • • •	513,202
2	Drummond County	90·53 27·00	40,936	4,800	46,800 16,794	92,536 16,794
~	Erie and Huron	76·75 34	63,052	54,643	42,624	160,31

and Mileage, for the Year ended 30th June, 1896.

	Total Number of Passengers	Tons of Freight of 2,000 lbs.	verage Rate of Speed of Passenger Trains—Miles per hour.	e Rate of d of Freight	.i.	Remarks.
Engine Mileage.	Carried.	Handled.	Average Speed ger Tra	Average Speed Trains-	Numper	
56,382	1,112	43,000		14	1	From Lethbridge to Coutts on International Boundary—the portion of this railway from Dunmore to Lethbridge, 109 50 miles, is operated by C.P.R. under lease.
5,600	1,000	8,375	,	16	2	(Only a portion of the Atlantic and Superior
12,800	3,296	956		15	3	Ry. (Metapedia to Caplin, Baie des Cha- leurs Section, 80 miles) operated during the year ended 30th June, 1896, and this 80 miles was only operated for three months.
131,182	53,875	168,102	20	20	4	
	205,000	15 007	6		5	
$31,685 \\ 21,440$	30,755 9,117	15,067 15,568	20	20 16	6 7	
70,008	10,361	ì	19	····	8	
562,416	175,191	506,806	1	15	9	!
218,932 4,2 06,144	54,137 496,039	95,090 3,358,563		18 16	10 11	
4,714,661 341,015	1,471,866 122,586	1,379,618 46,395		15 14	12 13	
18,444,865	3,036,619	4,576,632	28	14		3:10 miles of Montreal and Western at North ern end is not under traffic. 1:90 miles of Montreal and Lake Maskinongo is omitted in C.P.R. traffic return.
32,000 6,700 114,500 40,800 140,441	6,500 52,504 10,986	250 90,754 16,867	25 25	18 20 20 15 20	15 16 17 18 19	
513,202	197,102	210,780	25	14	20	
93,850 16,794 179,843	4,128	11,923 115,777	16	15 15 35	21 22 23	

No. 4.—SUMMARY STATEMENT of the Operations of the Year

			TRAIN M	LEAGE.	
Name of Railway.	Mileage.	Passenger Trains.	Freight Trains.	Mixed Trains.	Total Train Mileage.
24 Esquimalt and Nanaimo 25 Fredericton & St. Mary's R. & Bridge Co.	78·00 1·33	80,578	43,006		123,584
26 Grand Trunk 884 25 Great Western 561 80 Brantford, Norfolk and Port Burwell 34 78 Buffalo and Lake Huron 162 00 Grand Trunk, Georgian Bay and Lake Erie 172 75 Owen Sound Branch 12 42 London, Huron and Bruce 69 01 Waterloo Junction 10 25 South Norfolk 17 00 Wellington, Grey and Bruce 168 13 Northern 172 10 North Simcoe 33 34 Hamilton and North-western 173 90 Northern and Pacific Junction 11 37 Toronto Belt Line 12 70 Midland 166 78 Grand Junction 85 40 Toronto and Nipissing 85 00 Lake Simcoe Junction 26 50 Victoria 53 25 Whitby, Port Perry & Lindsay Cobourg, Blairton & Marmora Jacques Cartier Union 6 50 Montreal and Champlain Junction 19 50	3,146 98	5,640,343	8,520,970	2,076,001	16,237,314
27 St. Clair Tunnel	2·23				17 104
28 Great Northern29 Great North-west Central	50.93	112	2,827	17,184 11,648	17,184 14,587
30 Hamilton, Grimsby & Beamsville(Electric) 31 Hereford	17.00 53.30	33.742	72.058	207,001	207,001 105,800
32 Irondale, Bancroft and Ottawa	45.00		72,058	46,680	46,680
33 Joggins, now Canada Coal and Ry. Co 34 Kaslo and Slocan	31 80	1,000	1,500	15,000 12,420	
35 Kent Northern 27 00)	34.00			18,366	1
St. Louis and Richibucto 7:00) 36 Kingston and Pembroke	112.85			61,974	127,078
37 L'Assomption				5,778	5,778
38 Lake Erie and Detroit River 88 05) London and Port Stanley 23 75)	111 80	154,606	4,674	62,142	221,422
39 Lotbinière and Mégantic	23 34			12,258	12,258
40 Manitoba and North-western 234 50 Saskatchewan and Western 15 47	219.97	34,915	31,022	40,636	106,573
41 Massawippi Valley	34.00	75,483	109,637		185,120
42 Montford Colonization	21.00	7,584	2,895	3,473	13,952
South-eastern	201 · 50	92,128	174,190	103,856	370,174
44 Montreal Park and Island (Electric)	14.43	42,653			42,653
Montreal, Portland and Boston, now Montreal and Province Line	40.60	37,510	19,553	10,597	67,660
46 Montreal and Vermont Junction	23.60	69,252	95,508	2,328	167,088
47 Nelson and Fort Sheppard	59·40 36·00	2,520 4,598	$\begin{array}{c} 2,971 \\ 6,912 \end{array}$	18,600 22,500	
49 Niagara Falls Park and River Electric Ry.	13.68	221,535		44,000	221,535
50 Northern Pacific and Manitoba	265·12	94,579	93,915	34,870	223,364
51 Nosbonsing and Nipissing.	5·50 36		11,810		11,81

and Mileage, for the Year ended 30th June, 1896—Continued.

Engine Mileage.	Total Number of Passengers Carried.	Tons of Freight of 2,000 lbs. Handled.	Average Rate of Speed of Passenger Trains—Miles per hour.	Average Rate of Speed of Freight Trains—Miles per hour.	Number.	Remarks.
165,029	49,552	37,925			24 25	Included in Canada Eastern Railway which company run their trains across this bridge, paying toll.
20,925,432	5,077,671	7,587,148	30	20	26	The Cobourg, Blairton and Marmora. Not under traffic.
47,516 17,240 16,394 105,800 47,675 28,170 12,600 18,366 152,494 5,778 300,025 17,860 125,665 185,120 14,039 562,926 	7,183 3,151 256,313 16,089 8,820 9,283 6,170 5,525 37,183 6,855 258,083 4,262 27,945 77,157 7,150 169,79¢ 728,204 58,911 126,918 7,650 16,545 474,552 38,684	8,943 29,353 2,142 105,155 12,516 57,559 8,970 11,426 68,710 930 183,801 14,958 105,608 160,014 3,598 637,890 31,972 707,664 18,237 22,813	27 25 15 30 10 30 40 20 20 9 25	20 17 12 15 18 18 15 25 25 15 12 13 18	42 43 44 45 46 47 48 49 50	Running powers on Grand Trunk from Sher- brooke to Lennoxville, 3 miles.

No. 4.—Summary Statement of the Operations of the Ye $_{_{_{I}}}$

				TRAIN M	ILEAGE.	
Number.	Name of Railway.	Mileage.	Passenger Trains.	Freight Trains.	Mixed Trains.	Total Train Mileage.
	Scotia CentralScotia Steel Co., formerly New Glas-	74.00			46,880	46,880
gow	Iron, Coal and Railway Co	12·50 26·50	17,528	5 168	15,750 8,543	15,750 31,239
5 Oshaw	a Electric Railway	8.50				23,258
	a and Gatineau	56.50	16,588	1,263	36,163	54,014
	a, Arnprior and Parry Sound	164 00	138,593	1,263 74,056	23,110	235,759
	Sound Colonization	48.00			28,232	28,232
59 Philip	sburg Ry. and Quarry Co	6.75			1,878	1,878
	e Pacific Juncti n	70·60 85·50	1,348	3,567	45,584	50,499
	Arthur, Duluth and Western		900			12,940
	opelle, Long Lake and Saskatchewan. oc and Lake St. John 242 00)		1		53,254	53,254
	ver Laurentian 39 50	281.50	84,868	127,058		211,926
	c Central	213.50	125,116	178,663	32,810	336,589
	c, Montmorency and Charlevoix	30.00	51.863	652		52,515
	ury and Harvey	45.00	51,863	.	28,584	28,584
67 Shore	Line	82.50	0,120	[.	00,080	68,51
68 Stans	tead, Shefford and Chambly	43.00	33,847	33,072		77,789
	tharines and Niagara Central	12 35	12,000	2,000		20,000
70 St. L	wrence and Adirondack	19.80	38,839	48,904	15,091	102,83
72 South	ey and LouisbourgShore, Que., tormerly Montreal and	65.90]	· ·	. 	110,500
Sor	el	44 67				57,240
73 Témis	ecouata	113.00	9,876		82,164	92,040
74 Tilson	burg, Lake Erie and Pacific	16.00			15,000	15,000
	and Islands	4.33				19,90
76 Tobiq	ue Valley		107.000	50 544		157 00
77 Toron 78 Unite	to, Hamilton and Buffalod Counties	83·83 61·00	43,732	360	41,316	157,63: 85,40:
79 Victo	ria and Sydney, B.C	16.26		Ì	1	24,12
1		16,270 · 04	15,846,645	23,299,776	5,354,181	

and Mileage, for the Year ended 30th June, 1896—Continued.

Engine Mileage.	Total Number of Passengers Carried.	Tons of Freight of 2,000 lbs. Handled.	Average Rate of Speed of Passenger Trains—Miles per hour.	Average Rate of Speed of Freight Trains—Miles per hour.	Number.	Remarks.
47,296	22,685	16,225		20	52	
35,350	8,210	151,722		15	53	
31,239	6,202	23,200	25	15	54	
23,258	87,519	16,389		20	55	
54,029	44,262	18,793	30	20	56	
370,051	88,384	110,252	30	12	57	
32,372	7,188	13,334		15	58	
1,878	1,864	1,077		25	59	
50,768	16,756	13,316	30	20	60	
14,255	3,478	12,984	20	15	61	
53,386	3,097	11,592	17		62	
266,231	128,846	144,390	22	12	63	
357,866	120,318	212,873	25	15	64	
53,159	213,303	7,179	21	21	65	
31,748	8,879	33,574	18		66	
69,025	13,101	10,620	25 23	17	67	
77,789	140,222	678,350	23	12	68	
20,000	20,817	65,916	25	20	69	
112,277	36,096	96,181	30	20	70	Running powers on Grand Trunk Ry., Valley
112,211	,			l	1	field to Ste. Martine, 33.7 miles.
115,000	65,977	1,024,636	25	20	71	do on Can. Pac. Ry. from Ste. Martine to Montreal, 14:10 miles
57,240	42,936	13,203	30	22	72	
92,040	15,752	23,362	22	22 16	72 73	ļ
20,000	9,500	2,579	20	30	74	
	19,485	15,751	20	· 20	75	
19,908	10, 200				76	
165,675	65,662	47,057	20	20	77	
86,908	24,757	53,066	30	18	78	Running powers on Montreal and Atlantic,
24,128	26,917	28,788		25	79	Sorel to St. Robert Junction, 5 miles.
55,786,960	14,810,407	24,266,825				

No. 5.—Summary Statement of description of

=							
	Name of Railway.	Mileage.	Flour	r.	Grain	n.	Live
Number.			Barrels.	Tons.	Bushels.	Tons.	Number.
1	Alberta Railway and Coal Co	64 · 62	40	4	2,033	61	352
2	Albert Southern $16.00)$	19.00	100	10			
3	Harvey Branch						
	Baie des Chaleurs 80.00						
ı	Great Eastern	80.00	1,298	129	350	7	19
4	Bay of Quinté Railway and Navi-						
-	gation Co 4 00 } Kingston, Napanee & Western. 60 82	64.82	36,530	3,653	155,964	4,289	6,100
5	Berlin and Waterloo (Electric)	2.75	<i></i>				
6	Brockville, Wesport and Sault Ste. Marie	45.00	19,390	1,940	175,388	4,667	7,399
8	Buctouche and Moncton	32 · 00 295 · 07	21,500	2,150	107,418	2,483	12,746
9	Canada Atlantic	176 00	56,590	5,659	91,110	18,221	2,009
10	Central Counties 38.00 J Canada Eastern	136.00	57,470	5,747	93,792	1,600	•
	Canada Southern	382 19	1,810,720			453,941	890,000
12	Canadian Government Railways— Intercolonial	1,150.50	822,097	82,209	1,064,385	19,728	64,051
13	Prince Edward Island	210 00	25,241	2,524		5,323	5,681
14	Canadian Pacific Railway 4,119 10					ı	
	Atlantic and North-west. 205.00						
	Ontario and Quebec 469.00 Credit Valley 175.10						
	West Ontario Pacific 26.60						
	Toronto, Grey and Bruce. 19130						
	Guelph Junction						
	Montreal and Ottawa 23.60	1					
	Montreal and Western 66.90 Montreal & L. Maskinongé 11.00						
	New Brunswick 175'00 }	6,211.50	3,102,826	311,284	35,726,213	929,613	592,150
	New Brunswick & Canada. 118.00 St. John and Maine 92.00				·		1
	St. John Bridge and Rail-	j i					
	way Extension 2:00 Fredericton 22:40				<u> </u>		
	Manitoba & South-western						}
	Colonization						
	Nakusp and Slocan 36.90						
	Shuswap and Okanagan 51.00 Alberta Railway, Dunmore						1
	_ to Lethbridge 109 50						
15	Tobique Valley 28:00)	68.00	7,500	750	5,000	85	40
16	Carillon and Grenville	13.00	70	7		[320
	Central Ontario. Central of New Brunswick	104.00 75.00	11,908 1,500	1,167 150		4,949	4,674
19	Cumberland Railway and Coal Co	32.00	9,861	986		681	33
20	Dominion Atlantic, comprising— Windsor and Annapolis 87.50			,		į	
	Cornwallis Valley 14.00	_			i		
	Yarmouth and Annapolis. 87.00 Windsor Branch of Inter-	220 50	100,332	10,033		····	16,464
	colonial 32.00					1	
21	Drummond County	90.53			28,471		
	Elgin and Havelock	76.75					
23	Esquimalt and Nanaimo						

Freight carried for the Year ended 30th June, 1896.

						<u> </u>	<u></u>	Ī	I.
Stock.	Luml of all kind Firewo	s except	Fire	wood.	Manu- factured Gcods.	All other Articles.	Total Weight Carried.		Remarks.
Tons.	Feet.	Tons.	Cords.	Tons.	Tons.	Tons.	Tons.	Number	
120	797,883 4,180,000	1,063 8,360	(*41,752 5	43,00 0 8,375	1	, , , , , , , , , , , , , , , , , , , ,
15	303,000	537			155	113	956	3	
2,440	37,020,571	64,786	10,957	16,435	27,631	48,868	168,102	4	
1,357 6,497	582,233 1,795,786	903	208	312	4,561 5,917	1,639 15,568 3,353	15,067 *15,568 23,001	7	*Including merchan- dise, produce, logs,
5,122		247,1 2 6	18,666	39,507	20,341	170,830	506,806	1	bark, ties and stone.
190 1 60, 056	16,070,940 125,500,000	24,515 247,591	8,335 26,150	10,419 47,071	22,216 568,218	30,403 1,700,614	95,090 3,358, 563		
9,007 929	226,332,715 2,309,418	282,965 3,293	12,920 2,287	22,610 4,369	345,829 29,957	617,270	1,379,618 46,395		
145,623	634 ,990,836	835,770	174,822	302,140	1,072,851	979,351	4,576,632	14	
20	4,000,000	5,500	200	300	550 78	3,029 80	10,234 250		
2,337 17	9,042,000 8,200,000 9,720,000	9,042 12,384 12,141	12,781 900	22,367 1,020	36,025 4,407	*14,867 3,313 *421,293	90,754 16,867 439,525	17 18	*Including 11,299 tons iron ore. *Coal.
2,377	15,366,800	23,050	3,620	6,330	35,940	*133,050	210,780	20	*Including apples, po-
13 379 2,986 698	19,415,124 5,042,400 21,793,000 4,893,454	27,562 8,404 27,434 8,275	10,804 1,137 354 4,239	12,682 947 649 4,710	4,957 676 7,375 689	60,975 365 30,379 22,937	108,935 11,923 115,777 37,925	$\frac{22}{23}$	tatoes, hay and produce.

No. 5.—SUMMARY STATEMENT of description of

	1		1			
Name of Railway.	Mileage.	Flour	r.	Graii	n.	Live
		Barrels.	Tons.	Bushels.	Tons.	Number.
Fredericton and St. Mary's Railway and Bridge Co. Grand Trunk	1.33					***/***
Burwell	3,146·98 2·23	,	399,190	41,797,840	1,044,946	1,758,17
St. Clair Tunnel Great Northern Great North-west Central Hamilton, Grimsby and Beamsville Elec-	38·00 50·93	12,530		24,663 797,433		
tric	17·00 53·30		848			
Irondale, Bancroft and Ottawa	45.00 12.00					
Kaslo and Slocan Kent Northern 27'00	31.80	320	32	2,400	72	18
St. Louis and Richibuctou 7.00	34.00	1	1 .	1	1	1
Kingston and Pembroke.	112.85 3.00			30,500	915	
Lake Erie and Detroit River 88 00 (111.80	1		1,025,920	22,388	17,0
London and Port Stanley 23 75 \\ Lotbinière and Mégantic	23 34			2,057		i
Manitoba and North-western 234 05 Saskatchewan and Western 15 47	249 97	72,234	7,223	2,812,940	72,884	15,4
Massawippi Valley. Montford Colonization. Montreal and Atlantic, formerly	34·00 21·00					
South-eastern. 140 10 Lake Champlain and St. Law- rence Junction. 61 40	201 · 50	265,025	26,502	2,066,955	95,399	11,5
Montreal Park and Island Electric			608	9,906	299	· · · · · · i
Montreal, Portland and Boston			38,621	5,079,103	152,374	637,7
Montreal and Vermont Junction				10 150	363	. 49
	59.40	1,500	150	18,150	300	4,2

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Freight carried for the Year ended 30th June, 1896.—Continued.

stock.	Lumb of all kind Firewo	s except	Firew	ood.	Manu- factured Goods.	All other Articles.	Total Weight Carried.	1	Remarks.	
Tons.	Feet.	Tons.	Cords.	Tons.	Tons.	Tons.	Tons.	Number		
							•	25	Included in Canad Eastern Railway.	
			,							
:351,634	445,399,000	890,798	118,566	177,849	779,761	3,942,970	7,587,148	26		
				0.000		4 090	9.040	27		
552	82,000 854,700	120 1,896	1,270 1,440	$\frac{2,222}{720}$	1,091	4,929 1,058	8,943 29,353	29		
			328	310	1,733	2,142 24,581	2,142			
676 22 6	1,620,275	76,374 4,624 932	1,552	2,795	4,225 1,872 403	72 *55,291 8,083	105,155 12,516 57,559 8,970	32 33	*Consisting of con	
22	3,089,333 1,620,275 202,818	4,624			4,225 1,872 403 6,702	72 *55,291 8,083	12,516 57,559 8,970 11,426	32 33 34 35	*Consisting of constone and hay.	
22 6 28	3,089,333 1,620,275 202,818 1,186,000 18,330,000	4,624 932 352 1,180 27,495	1,552	2,795	4,225 1,872 403 6,702	72 *55,291	12,516 57,559 8,970	32 33 34 35 36	*Consisting of co stone and hay.	
22 6 28 12	3,089,333 1,620,275 202,818 1,186,000 18,330,000 158,000	4,624 932 352 1,180	1,552 804	2,795 804	4,225 1,872 403 6,702 23,875	72 *55,291 8,083 1,380 506	12,516 57,559 8,970 11,426 68,710	32 33 34 35 36 37	*Consisting of co stone and hay.	
22 6 28	3,089,333 1,620,275 202,818 1,186,000 18,330,000 158,000 47,550,000 3,628,000	4,624 932 352 1,180 27,495 237	1,552 	2,795 804 14,115 12,704 100	4,225 1,872 403 6,702 23,875 23 69,195	72 *55,291 8,083 	12,516 57,559 8,970 11,426 68,710 930 183,801 14,958	32 33 34 35 36 37 38 39	*Consisting of co stone and hay.	
22 6 28 12 8,031	3,089,333 1,620,275 202,818 1,186,000 18,330,000 158,000 47,550,000 3,628,000 4,525,090	4,624 932 352 1,180 27,495 237 69,648 6,350 5,368	1,552 	2,795 804 14,115	4,225 1,872 403 6,702 23,875 23 69,195	72 *55,291 8,083 	12,516 57,559 8,970 11,426 68,710 930 183,801 14,958 105,608	32 33 34 35 36 37 38 39	*Consisting of co stone and hay. *Including pulp wo and bark.	
22 6 28 12 8,031	3,089,333, 1,620,275 202,818 1,186,000 18,330,000 158,000 47,550,000 3,628,000 4,525,090 40,920,000	4,624 932 352 1,180 27,495 237 69,648 6,350	1,552 	2,795 804 14,115 12,704 100	4,225 1,872 403 6,702 23,875 23 69,195 9,004 2,500	72 *55,291 8,083 	12,516 57,559 8,970 11,426 68,710 930 183,801 14,958 105,608	32 33 34 35 36 37 38 39 40 41	*Consisting of co stone and hay. *Including pulp wo and bark. *Including 24,000 to	
22 6 28 12 8,031 6 6,636	3,089,333 1,620,275 202,818 1,186,000 18,330,000 158,000 47,550,000 3,628,000 4,525,090 40,920,000 1,229,000	4,624 932 352 1,180 27,495 237 69,648 6,350 5,368	1,552 	2,795 	4,225 1,872 403 6,702 23,875 23 69,195 9,004 2,500 40	72 *55,291 8,083 	12,516 57,559 8,970 11,426 68,710 930 183,801 14,958 105,608 160,014	32 33 34 35 36 37 38 39 40 41 42	*Including pulp wo and bark. *Including 24,000 to copper matte.	
22 6 28 12 8,031 6 6,636 730 2	3,089,333 1,620,275 202,818 1,186,000 18,330,000 47,550,000 3,628,000 4,525,090 40,920,000 1,229,000 108,342,453	4,624 932 352 1,180 27,495 237 69,648 6,350 5,368 56,265 2,150	1,552 804 7,646 8,550 100 988 605 21,186	2,795 804 14,115 12,704 100 1,218	4,225 1,872 403 6,702 23,875 23 69,195 9,004 2,500 40 136,688	72 *55,291 8,083 	12,516 57,559 8,970 11,426 68,710 930 183,801 14,958 105,608 160,014 3,598 637,890	32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	*Including pulp wo and bark. *Including 24,000 to copper matte.	

No. 5.—Summary Statement of description of

Name of Railway.	Mileage.	Flou	r.	Grai	Live		
Number		Barrels.	Tons.	Bushels.	Tons.	Number.	
0 Northern Pacific and Manitoba	265 12	7,600	760	3,010,783	87,392	1,491	
11 Nosbonsing and Nipissing	5·50 74·00	2,856	285			56	
Glasgow Iron, Coal and Railway Co	12·50 26·50	1,660 4,981	166 498	37,251	$\frac{163}{723}$	1 160	
55 Oshawa Electric Railway	8:50 56:50	260 11,232	26 1,128	22,514	271 647	1,553	
8 Parry Sound Colonization	164 · 00 48 · 00 6 · 75	13,660	1,366	157,361	4,406 15	6,265	
50 Pontiac Pacific Junction	70·60 85·50	6,425		60,955	1,143	3,518 48	
32 Qu'Appelle, Long Lake & Saskatchewan. 33 Quebec and Lake St. John 242 00 \ Lower Laurentian 39 50	253 · 96 281 · 50	8,649 45,680	865 4,568	143,828 60,029	3,889 1,201	3,991 1,855	
34 Quebec Central	213.50	113,115	11,311	43,458	1,304	10,500	
35 Quebec, Montmorency and Charlevoix	30·00 45·00	3,363 6,104	336 610	7,503 29,098	195 494	56 192	
7 Shore Line	82·50 43·00 12·35	5,021 388,030 799	502 38,803 78	10,359 3,191,500 18,967	172 155,745 331	$\frac{321}{637,716}$	
70 St. Lawrence and Adirondack	19·80 65·90	5,300 6,000	530	49,160	1,229	365 90	
2 South Shore, Que., formerly Montreal and Sorel	44.67 113.00	10,524	1.052	2,220 16,627	40 374	206	
74 Tilsonburg, Lake Erie and Pacific 75 Thousand Islands	16 00 4 33	500 1,540	² 50		iii	510 1,472	
76 Tobique Valley	28 · 00 83 · 83 61 · 00	8,245 18,250			2,902 1,109	75 160	
9 Victoria and Sydney	16.26	810	81	9,383	201	977	
	16,270 · 04	11,884,627	1,185,799	120,833,364	3,156,866	4,746,267	

Freight carried for the Year ended 30th June, 1896.-Concluded.

stock.	Luml of all kind Firewo	s except	Firew	700d.	Manu- factured Goods.	All other Articles.	Total Weight Carried.		Remarks.
Tons.	Feet.	Tons.	Cords.	Tons.	Tons.	Tons.	Tons.	Number	
820	7,203,000	10,854	4,871	9,742	5,048	51,850	166,466 194,400	51	Logs and lumber
28	4,880,000	194,400 7,320	456	684	7,908		16,225	52	
20	2,000,000	1,020				** 10.00:			*Including ore, co
1	1,496,000	1,870	120	240	998	*148,284	151,722	53	and pig iron. *Inc. 7,819 t. pulp we
11	8,805,100	9,792	5,841	*7,819	1,202 6,275	3,155	23,200	54	*Inc. 7,819 t. pulp w
• • • • • • •	360,000	630	97	146 4,362	8,697	9,041 2,470	16,389	56	*Pulp wood.
495	662,500	994	*2,907 918	1,670	720	47,136	110,252		ruip wood.
2,514	34,500,000	52,440	910	7,560	120	5,774	13 334	58	
• • • • • • •	175 000	109				*953	1.077	59	*In. marble bay stra
375	175,000 1,829,500	2,907	2.065	*3,365	3,077	1,806	13.316	60	*In. marble, hay, stra *Pulp wood.
30	1,625,500	6,751	2,574	3,861	`245	2,097	12,984	61	1
1,396	1,100,672	1,395	848	1,271	1,309	467	11,592	62	
450	42,684,000	62,166	29,310	52,758	8,193	15,054	144,390	63	1
		' 1	′	992	4,700	*62,608	,	-	1
2 253	86,470,000	129,705	528	994	4,100	02,000	212,813	04	*Inc. ore, brick, pu wood, lime, cos
	011070	400	1,180	1,038	2,341	2,732	7,179	65	asbestos, &c.
51	214,650	486	2,330	4,353	381	*12,614	33 574	66	*Inc. plaster and ha
96	11,261	14,026	125	189	1,735	2,379	10,620	67	The plaster and ha
118 95,698	5,525,000 35,880,000	5,525 44,857	602	860	40,439	*301,948	678,350	68	*Inc. 83,244 tons ha
90,080	350,000	984	117	437	15,413	*48,673	65,916	69	*Inc. pulp wood.
182	17,666,439	26,499	79	53	1,112	66,576	96,181	70	
68	1,500,000	1,800			50	*1,022,118	1,024,636	71	*Inc. 1,008,536 t. coa
•	2,000,000	2,000		200	0.000	*0.0==			f i
	250,000	356	174	200	8,632	*3,975	13,203	72	*Including hay.
103	8,528,790	10,961	2,742	5,482 33	1,334 1,725	4,056	23,362		
45	450,000	646	50	อก	8,227	80 4,310	2,579 15,751	75	For six months.
589	1,348,571	2,360			0,221	4,510		76	
••••••	000 #00		711	993	6,863	33,879	47,057	77	
10	909,726	1,585	300	192	9,804	15,352	53,066	78	1
143 73	16,500,000 632,000	24,641 1,160	5,250	10,500	1,613	15,160	28,788		
	032,000	1,100			- 			1	
912 593	2,349,911,610	9 910 550	517,043	858,454	3,418,532	10,915,022	24,266,825	1	1

No. 6.—Summary Statement of Earnings

Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same Same					
Alberta Railway and Coal Co.	Mixed and Express Freight.			Mileage.	Name of Railway.
Alberta Railway and Coal Co.					
2 Albert Southern	\$ cts.	\$ cts.	\$ cts.	1	
Satisfies and Lake Superior, comprising—Baic des Chaleurs	213 81				
Great Eastern Ottawa Valley Bay of Quinté Ry. and Navigation Co. 4 '00 Kingston, Napanee and Western 60 '82 Berlin and Waterloo (Electric). 2.75 8,200 00 1,679 70 12,513 60 14,679 70 12,513 60 14,679 70 12,513 60 14,679 70 12,513 60 14,679 70 12,513 60 14,679 70 12,513 60 14,679 70 12,513 60 14,679 70 12,513 60 14,679 70 10 Canada Atlantic 138 00 Central Counties. 38 '00 176 '00 3,941 11 9,199 10 10 Canada Eastern 138 00 Central Counties. 38 '00 176 '00 30,753 02 32,646 45 11 Canada Southern 382 19 1,027,432 06 3,291,811 68 Canadian Government Railways= 1,150 50 971,426 26 3,291,811 68 12,000 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,20		0,000 01	202 20		Atlantic and Lake Superior, comprising—
4 Bay of Quinté Ry, and Navigation Co. 4 '00 Kingston, Napanee and Western. 60 '82 5 Berlin and Waterloo (Electric). 2.75 8,200 00 6 Brockville, Westport and Sault Ste. Marie 45 '00 3,941 1 9,199 10 8 Calgary and Edmonton. 296 '07 35,022 70 54,604 06 9 Canada Atlantic 138 '00 176 '00 139,525 61 387,512 04 Central Counties. 38 '00 176 '00 30,753 02 82,646 45 10 Canada Eastern. 382 '19 1,027,436 06 3,281,811 68 Canada Government Railways— 1,150 '50 971,426 26 3,281,811 68 Canadian Government Railways— 1,150 '50 971,426 26 1,788,813 18 13 Prince Edward Island 1,150 '50 971,426 26 1,788,813 18 13 Prince Edward Island 210 '00 62,358 12 65,391 92 14 Canadian Pacific Railway 4,119 '10 Leased Lines— Atlantic and North-west 205 '00 Ontario and Quebec 469 '00 Orcedit Valley 175 '10 West Ontario Pacific 26 '60 Montreal and Utawa 23 '60 Montreal and Western 66 '90 Montreal and Western 66 '90 St. John Bridge and Ry. Extension 22 '00 Fredericton 22 '40 Manitoba South-western Colonization 22 '00 Fredericton 22 '40 Manitoba South-western Colonization 215 '20 Columbia and Kootenay 28 '50 Nakusp and Slocan 36 '90 Shuswap and Okanagan 51 '00 Alberta Railway, Dunmore to Lethbridge 109 '50 15 Caraquet 13 '00 1,677 '67 194 82 16 Carillon and Grenville 13 '00 1,677 '67 194 82 17 Central Ontario 104 '00 25,873 '30 '62,222 '53 18 Central of New Brunswick 75 '00 6,178 '95 8,506 '11 19 Cumberland Railway and Coal Co 32 '00 8,374 '40 13,896 '43 10 Dominion Atlantic, compresing Windsor and Annapolis 87 '50 Convallis Valley 14 '90 20 '00 25,873 '30 '62,222 '53 10 Convallis Valley 14 '90 20 '00 25,873 '30 '62,222 '53 10 Convallis Valley 14 '90 20 '00 32 '00 32 '00 32 '00 32 '00 32 '00 32 '00 32 '00 32 '00 32 '00 32 '00	1,224 78	1,862 94	2,416 59	80.00	Great Eastern
5 Berlin and Waterloo (Electric)	8,603 85	79,937 01	19,149 41	61 82	Bay of Quinté Ry, and Navigation Co. 4'00)
7 Buctouche and Moncton 295 07 3,941 11 9,199 10 8 Calgary and Edmonton 295 07 35,022 70 54,504 06 9 Canada Atlantic 138 00 176 00 139,525 61 387,512 04 10 Canada Eastern 38 00 136 00 30,753 02 82,646 45 11 Canada Southern 382 19 1,027,436 06 3,281,811 68 12 Intercolonial 1,150 50 971,426 26 3,281,811 68 13 Prince Edward Island 210 00 0		14.000.00			Berlin and Waterloo (Electric)
9 Canada Atlantic	1,405 41 14 61	9,199 10	3,941 11	32.00	Buctouche and Moncton
Central Counties	5,072 52	·			Calgary and Edmonton
11 Canada Southern	17,413 52 4,237 92	· .			Central Counties
12	169,279 83				Canada Southern
14 Canadian Pacific Railway	*197,400 66				Intercolonial
Atlantic and North-west. 205 00 Ontario and Quebec 469 00 Credit Valley. 175 10 West Ontario Pacific 26 60 Toronto, Grey and Bruce 191 30 Guelph Junction. 15 00 St. Lawrence and Ottawa. 58 40 Montreal and Ottawa. 58 40 Montreal and Lake Maskinongé 11 00 New Brunswick. 175 00 New Brunswick and Canada 118 00 St. John and Maine. 92 00 St. John Bridge and Ry. Extension Fredericton 22 40 Manitoba South-western Colonization. 215 20 Columbia and Kootenay 28 50 Nakusp and Okanagan 51 00 Alberta Railway, Dunmore to Lethbridge 109 50 15 Carsquet 109 50 15 Carsquet 13 00 1,677 67 194 82 17 Central, Ontario 109 50 18 Central of New Brunswick 75 00 6,178 95 8,506 11 19 Cumberland Railway and Coal Co 32 00 Cornwallis Valley. 14 00 Cornwallis Valley. 14 00 Cornwallis Valley. 14 00	18,338 00	60,391 92	02,308 12	210 00	Canadian Pacific Railway 4,119 10
New Brunswick and Canada	953,111 43	12,946,016 54	4,759,900 46	6,211 · 50	Atlantic and North-west 205 00 Ontario and Quebec 469 00 Credit Valley 175 10 West Ontario Pacific 26 60 Toronto, Grey and Bruce 191 30 Guelph Junction 15 00 St. Lawrence and Ottawa 58 40 Montreal and Ottawa 23 60 Montreal and Western 66 90 Montreal and Lake Maskinongé 11 00
15 Caraquet 68 00 4,808 49 12,428 66 16 Carillon and Grenville 13 00 1,677 67 194 82 17 Central, Ontario 104 00 25,873 30 62,232 53 18 Central of New Brunswick 75 00 6,178 95 8,506 11 19 Cumberland Railway and Coal Co 32 00 8,374 40 13,896 43 20 Dominion Atlantic, comprising Windsor and Annapolis 87 50 Cornwallis Valley 14 00 000 70 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 0					New Brunswick and Canada 118 00 St. John and Maine 92 00 St. John Bridge and Ry. Extension 2 00 Fredericton 22 40 Manitoba South-western Colonization 215 20 Columbia and Kootenay 28 50 Nakusp and Slocan 36 90 Shuswap and Okanagan 51 00 Alberta Railway, Dunmore to
17 Central, Ontario 104 00 25,873 30 62,232 53 18 Central of New Brunswick 75 00 6,178 95 8,506 11 19 Cumberland Railway and Coal Co 32 00 8,374 40 13,896 43 20 Dominion Atlantic, comprising— Windsor and Annapolis 87 50 Cornwallis Valley 14 00 200 70 275 244 65 200 70 70 70 70 70 70 70 70 70 70 70 70 7	1,962 10				Caraquet
18 Central of New Brunswick	8,840 83	62,232 53	25,873 30		
20 Dominion Atlantic, comprising— Windsor and Annapolis	2,260 27		6,178 95 8,374 40		Central of New Brunswick
Cornwallis Valley. 14"00 Over 504 CF 220 FD FD	-				Dominion Atlantic, comprising—
Windsor Branch of Intercolonial 32 00	30,693 74	216,734 72	255,264 65	220 · 50	Cornwallis Valley
21 Drummond County	3,904 62		14,774 16		Drummond County
22 Elgin and Havelock 27 00 1,389 74 5,739 53 23 Erie and Huron 76 75 40,833 67 61,927 06	703 62 6,256 65	61,927 06	40,833 67	76.75	Erie and Huron
24 Esquimalt and Nanaimo 78.00 52,439.00 43,931.32 25 Fredericton and St. Mary's Ry. and Bridge Co. 1.33 1,294.13 3,545.31 26 Grand Trunk 884.25 361.80 884.25 Great Western 561.80 561.80 Brantford, Norfolk and Port Burwell 34.78	2,939 04	43,931 32 3,545 31	52,439 00	78.00 1.33	Esquimalt and Nanaimo Fredericton and St. Mary's Ry, and Bridge Co. Grand Trunk. 884 25 Great Western 561 80

for the Year ended 30th June, 1896.

Other Sources.	Total Gross Earnings.	Total Net Earnings.	Proportion of Earnings to Working Expenses.	Earnings per Train Mile.	Number.	Remarks.
\$ cts.	\$ cts.	\$ cts.	р. с.	Cts.		
62,738 52	99,461 63 3,552 94	13,470 30 1,805 17	115 203	331·00 63·44	2	From Lethbridge to Coutts on International boundary—the portion of this railway from Dunmore to Lethbridge, 109 50 miles, is operated by the Canadian
	5,504 31	1,643 21	142	43.77	3	Pacific Railway under lease.
2,447 40	110,137 67	32,392 77	141	84.56	4	
	8,200 00	1,320 00	119 106	12·42 95·88	5	
268 28	28,598 71 13,423 10 94,599 28	1,783 19 -1,292 13 37,042 81	91 164	64·93 136·00	8	
68,512 10	612,963 27	174,359 59	139	132.92	9	
4,526 54 5,986 44	122,163 93 4,484,514 01	44,451 22 1,474,632 69	157 148	57 · 47 135 · 34	10 11	
388 50	2,957,640 10 146,476 54	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	98 65	76·97 61·17	12 13	* From mails and sundries.
1,516,356 56	20,175,384 99	7,973,024 49	165	140.45	14	Including portion of Alberta Railway and Coal Company's line from Dunmore to Lethbridge, 109 50 miles.
411 63 261 67 *97,461 22	19,199 25 1,872 49 97,358 29 14,946 73 121,992 32	-2,437 64 21,861 79 -10,473 90	121 58	59·99 29·03 85·02 36·63 160·30	16 17 18	7
57 74	502,750 85	135,289 59	136	97 . 96	20	
321 98 40 97 281 50 4,249 46	93,118 55 7,873 86 109,298 88 103,558 82 4,839 44	29,067 21 2,207 86 27,389 90 192,943 29	78 133 34	83.79	23 23 24	2

No. 6.—SUMMARY STATEMENT of Earnings

Number.	Name of Railway.	Mileage.	Passenger Traffic.	Freight Traffic.	Mixed and Express Freight.	
			\$ cts.	\$ cts.	\$ cts.	
	Grand Trunk—Continued. Grand Trunk, Georgian Bay and Lake Erie					
	Owen Sound Branch 12.42 London, Huron and Bruce 69.01 Waterloo Junction 10.25 South Norfolk 17.00 Wellington, Grey and Bruce 168.13 Northern 172.10 Northern 172.10 Northern and North-western 173.90 Northern and Pacific Junction 111.37 Toronto Belt Line 12.70 Midland 166.78 Grand Junction 85.40 Toronto and Nipissing 85.00 Lake Simcoe Junction 26.50 Victoria 53.25 Whitby, Port Perry and Lindsay 46.50 Cobourg, Blairton and Marmora Jacques Cartier Union 6.50	314,698	5,002,983 04	10,576,532 66	817,975 23	
-	Montreal and Champlain Junction. 61 75 Beauharnois Junction. 19 50					
	St. Clair TunnelGreat Northern	2·23 38·00	*44,853 00 2,507 20	175,847 00 4,740 31		
9 (Great North-west Central	50·93 17·00	3,365 45 31,499 23	35,907 33	153 03	
1]	Hamilton, Grimsby and Beamsville (Electric) Hereford	53 30	10,114 69	4,037 16 35,540 21	438 00 1,298 52	
$\frac{2}{3}$	Irondale, Bancroft and Ottawa	45.00 12.00	4,552 10 3,129 16	9,444 38 24,165 95	770 63 439 34	
4	Kaslo and Slocan	31.80	9,045 30	28,377 49		
0	Kent Northern 27 '00 } St. Louis and Richibucto 7 '00 }	34.00	3,184 08	7,774 01	857 38	
	Kingston and Pembroke	112·85 3·00	28,633 52 1,453 95	71,588 33 286 15	8,292 81 302 74	
8	Lake Erie and Detroit River 88.05	111.80	74,699 29	110,440 31	11,349 55	
9]]	London and Port Stanley 23 75) Lotbinière and Mégantic	23 · 34	1,552 25	7,363 26		
)]]	Manitoba and North-western	249 · 97	52,182 37	187,404 89	9,613 76	
	Massawippi Valley	34.00	55,523 49	103,312 44	1,971 90	
	Montford Colonization	21.00	1,156 00	1,633 90	27 18	
	eastern	201 · 50	105,585 12	239,531 29	11,554 80	
	Junction	14.43	55,070 15	• • • • • • • • • • • • • • • • • • • •		
	Montreal, Portland and Boston	40 60 23 60	21,379 92 51,324 94	29,337 76 104,661 90	4,135 82 9,207 46	
7 [Nelson and Fort Sheppard	59.40	14,986 54	30,001 12	1,315 91	
	New Brunswick and Prince Edward Island Niagara Falls Park and River Electric Railway	36·00 13·68	5,263 50 56,559 39	12,278 30	1,606 07	
	Northern Pacific and Manitoba	265·12 5·50	59,960 96	202,801 14 43,540 00	8,797 65	
115	Nova Scotia Central	74.00	15,821 36	14,293 94	1,741 59	
1	Nova Scotia Steel Co., formerly New Glasgow Iron, Coal and Railway Co	12.50	1,771 45	14,831 50	314 00	
	Orford Mountain	26.50	2,057 98	12,408 58	527 52	
C	Oshawa Electric Railway Ottawa and Gatineau	8·50 56·50	4,392 15 25,430 14	4,869 95 25,332 78	1,004 81 2,845 57	
16	Ottawa, Arnprior and Parry Sound	164 00	68,909 48 6,727 30	97,772 86	6,795 00	

or the Year ended 30th June, 1896—Continued.

						
Other Sources.	Total Gross Earnings.	Total Net Earnings.	Proportion of Earnings to Working Expenses.	Earnings per Train Mile,	Number.	Remarks.
\$ cts.	\$ cts.	\$ cts.	р. с.	Cts.		
109,386 80	16,506,877 73	4,962,252 30	142	101 · 65	26	
‡261 00 727 26 66 00	220,961 00 7,247 51 40,153 07 36,040 39 46,953 42 14,767 11	131,903 45 733 45 11,227 43 2,452 06 11,299 17 7,728 80	248 111 142 107 80 209	42 17 275 26 174 10 44 38 31 63	27 28 29 30 31 32	* Tolls on passenger cars. † Tolls on freight cars. ‡ Tolls on new locomo- tives.
483 74 302 25	28,218 19 37,725 04	18,555 49 -39,865 29	292 48	161 · 24 311 · 79	33 34	
	11,815 47	4,886 97	170	64.33	35	
6,373 00	114,887 66	7,743 52	107	90 · 40 35 · 35	36 37	
6,280 00	2,042 84	53 36 62,506 04	102 144	91 · 57	38	•
0,280 00	202,769 15 8,915 51	-5,659 76	61	72.73	39	
9,222 88	258,423 90	57,089 39	128	242.48	40	
4,166 67	164,974 50	31,052 46	124 39	89·11 20·19	41 42	
• • • • • • • • • • • • • • • • • • • •	2,817 08	4,367 00				
11,423 30	368,094 51	36,564 89	111	99.55	43	
1,375 95 107 00 373 73 5 70 2,128 48	56,446 10 54,960 50 165,568 03 46,303 57 19,153 57 58,687 87 271,559 75 43,540 00 32,727 90	567 29 16,517 55 57,942 22 11,652 41 4,375 80 22,416 40 2,937 21 18,224 80 4,587 08	101 142 153 133 129 161 100 171 116	81.23 93·10 192·20 56·31 26·49 121·09 368·67	44 45 46 47 48 49 50 51 52	
4,950 00 1,633 00 327 87	21,866 95 14,994 08 11,899 91 53,936 33 173,477 34 18,152 28	5,208 99 1,568 61 -4,800 44 8,547 32 43,465 38 4,221 78	131 111 70 118 133 130	47 · 99 51 · 16 99 · 85	57	

No. 6.—Summary Statement of Earnings.

Number.	Name of Railway.	Mileage.	Passenger Traffic.	Freight Traffic.	Mixed and Express Freight.
_			\$ cts.	\$ cts.	\$ cts.
50	Philipsburg Ry. and Quarry Co	6.75	344 58	493 04	1
60	Pontiac Pacific Junction	70.60	13,076 08	15,067 53	2,862 67
61	Port Arthur, Duluth and Western	85 50	1,613 32	6,696 78	-,002 0,
62	Ou'Appelle, Long Lake and Saskatchewan	253.96	13,696 70	35,338 87	2,269 64
63	Quebec and Lake St. John	281.50	58,206 80	130,943 37	10,667 30
64		213.50	127,145 66	227,047 50	11,656 77
65	Quebec Central	30.00	40,692 50	6,885 91	967 99
66	Salisbury and Harvey	45.00	5,801 05	14,244 75	2,509 21
67	Shore Line	82.50	13,780 03	13,398 11	3,210 56
	Stanstead, Shefford and Chambly	43.00	18,164 67	39,264 15	3,813 04
69	St. Catharines and Niagara Central	12.35	4,220 75	19,411 65	407 06
	St. Lawrence and Adirondack	19.80	25,035 44	47,663 14	3,972 46
71	Sydney and Louisburg		20,362 41	195,030 22	
	South Shore, formerly Montreal and Sorel	44.67	21,595 56	17,283 95	1,534 85
73	Témiscouata		15,227 22	29,120 14	10,458 82
74	Tilsonburg, Lake Erie and Pacific	16.00	1,404 27	1,501 30	120 92
	Thousand Islands	4.33	3,940 16	8,915 87	1,717 79
	Tobique Valley	28:00			<u></u>
77	Toronto, Hamilton and Buffalo	83.83	21,284 96	40,066 22	766 50
	United Counties.	61 00	17,845 44	29,052 56	1,081 95
79	Victoria and Sydney	16.26	9,843 83	11,929 98	233 71
		16,270 04	13,747,773 01	32,368,082 47	2,396,644 33

for the Year ended 30th June, 1896—Continued.

Other Sources.	Total Gross Earnings.	Total Net Earnings.	Proportion of Earnings to Working Expenses.	Earnings per Train Mile.	Number.	Remarks.
\$ cts.	\$ \ cts.	\$ cts.	р. с.	Cts.		
671 95 147 98 8,482 15 889 30 265 05 279 39 902 85 3,048 07 59 40 68,273 17 317 77 23 76 2,137 32 22,784 00 11 00 2,033,069 31	837 62 31,678 23 8,458 08 51,305 21 208,299 62 366,739 23 48,546 40 22,820 06 30,668 09 62,144 71 27,087 53 76,730 44 283,665 80 40,732 13 54,806 18 3,050 25 16,711 14 	-2,307 01 -13,265 09 -3,741 68 10,690 05 24,245 44 111,864 75 12,796 06 1,758 14 2,343 02 3,609 03 1,448 91 1,570 14 135,830 51 7,791 97 -2,939 06 -565 75 4,059 23 24,473 82 7,998 81 1,661 71 15,502,914 60	36 70 69 126 113 143 135 108 106 105 102 191 123 94 84 132 140 120 108	62.73 65.36 96.34 98.28 108.95 92.27 79.83 44.76 79.88 135.43 74.61 256.71 71.16 59.54 20.33	59 60 61 62 63 64 65 66 67 70 71 72 73 74 75 76 77 78	For six months, 1st January, 1896 to 30th June, 1896.

No. 7—SUMMARY STATEMENT of Operating

	1			
Number.	Name of Railway.	Mileage.	Maintenance of Line, Buildings, &c.	Working and Repairs of Engines.
•			\$ cts.	\$ cts.
1 2	Alberta Ry. and Coal Co	64 · 62 19 · 00	8,854 48 289 25	\$ cts. 15,583 51 1,435 52
3	Atlantic and Lake Superior, comprising— Baie des Chaleurs. 80:00 Great Eastern Ottawa Valley.	80.00	1,469 36	1,375 74
4	Bay of Quinté Ry. and Navigation Co. 4 00 \ Kingson, Napanee and Western. 60 82	64.82	15,935 79	24,395 73
5 6	Berlin and Waterloo (Electric)	$\frac{2.75}{45.00}$	180 00	2,500 00
7	Brockville, Westport and Sault St. MarieBuctouche and Moncton	32.00	11,621 14 3,188 86	5,729 78 5,224 50
8	Calgary and Edmonton	295 07	20,019 96	17,852 75
	Central Counties	176.00	64,157 80	159,277 36
10 11	Canada Eastern Canada Southern	136 00 382·19	18,473 48 542,391 40	34,353 71 743,213 35
12	Canadian Government Railways— Intercolonial	1,150.50	774,556 25	993,801 39
13	Prince Edward Island	210.00	99,186 00	54,165 88
15	Atlantic and North-west 205 (0 Ottawa and Quebec 469 00 Credit Valley 175 10 West Ontario Pacific 26 60 Toronto Grey and Bruce 191 30 Guelph Junction 15 00 St. Lawrence and Ottawa 58 40 Montreal and Ottawa 23 60 Montreal and Ottawa 23 60 Montreal and Lake Maskinongé 11 00 New Brunswick 175 0 New Brunswick and Canada 118 00 St. John and Main 92 00 St. John Bridge and Ry. Extension 2 0 Fredericton 22 40 Manitoba South-western Colonization 2,152 00 Columbia and Kootenay 28 50 Nakusp and Slocan 36 90 Shuswap and Okanagan 51 00 Alberta Railway, Dunmore to Lethbridge 109 50	6,211·50	2,715,018 09 5,564 41	3,897;268 14
16	Caraquet	13.00	2,016 38	4,855 53 2,125 00
17 1⊀	Central Ontario Central of New Brunswick	104 00 75 00	30,046 16 8,674 63	19,393 43 5,347 24
19	Cumberland Ry. and Coal Co. Dominion Atlantic, comprising— Windsor and Annapolis	32.00	15,481 66	18,644 51
		220.50	126,606 36	109,630 87
$\frac{21}{22}$	Drummond County	90·53 27·00	16,885 36 4,028 18	22,074 63
23	Elgin and Havelock Erie and Huron	76 75	16,875 75	3,116 65 27,590 04
$\frac{24}{15}$	Esquimalt and Nanaimo Fredericton and St. Mary's Railway and Bridge Co	78·00 1·33	64,990 32 674 80	31,380 54
	Grand Trunk	1 50	00 210	
	Great Western			
	Buffalo and Lake Huron 162 00			
	Grand Trunk, Georgin Bay and Lake Erie. 1,2 75 Owen Sound Branch			
	52			

Expenses for the Year ended 30th June, 1896.

Working and Repairs of Cars.	General Operating Expenses.	Total.	Cost of Operating per train mile.	Number.	Remarks.
\$ cts.	\$ cts.	\$ cts.	Cents.		
1,526 54	60,026 80 23 00	85,991 33 1,747 77	286·00 31·21	1 2	From Lethbridge to Coutts on International boundary—the portion of thi railway from Dunmore to Lethbridge
131 50	884 50	3,861 10	301 · 64	3	109 50 miles is operated by Canadian Pacific Railway under lease.
5,149 06	32,264 32	77,744 90	59.26	4	
2.200 00	2,000 00	6,880 00	10.42	5	
613 30	8,851 3 0	26,815 52 $14,715$ 23	89·90 71·18	6 7	
$709\ 46$ $3,935\ 24$	5,592 41 $15,748$ 52	57,556 47	86.23	8	
33,560 12	181,608 40	438,603 68	95·11	9	
3,979 35	$\begin{array}{c} 20,906 \ 17 \\ 1,412,420 \ 17 \end{array}$	77,712 71 $3,009,881$ 32	36 56 98 37	10 11	
311,856 40			78 40	12	
404,112 78 16,555 02	840,357 20 55,231 66	3,012,827 62 225,138 56	94.03	13	
882,767 54	4,707,306 73	12,202,360 50	84 94	14	Including portion of Alberta Railway an Coal Company's line from Dunmore to Lethbridge, 109 50 miles.
1,199 63 132 75 5,136 64 1,084 43 5,136 36	5,502 74 36 00 20,920 27 10,364 33 11,948 70	17,122 31 4,310 13 75,496 50 25,420 63 51,211 23	53·50 66·82 65·93 62·35 67·29	15 16 17 18 19	
18,649 97	112,574 06	367,461 26	71.60	20	
·		64,051 34	69.21	20	
2,021 99	23,069 36 2,936 89	10,081 72	60·03 50·22	22 23	
4,501 74 6,856 71	32,941 45 193,274 54 751 43	81,908 98 296,502 11 1,426 23	239.91	24 25	
	·				

No. 7-Summary Statement of Operatin

	Name of Railway.	Mileage.	Maintenance of Line, Buildings, &c.	Working and Repairs of Engines.
			\$ cts.	\$ ets
6	Grand Trunk—Continued. London, Huron and Bruce			
- 1	Waterloo Junction 10.25			
- 1	South Norfolk 17:50 Wellington, Grey and Bruce 168:13			
Ì	Northern	3,146.98	1,978,714 79	3,958,625 22
- }	North Simcoe 33 34			
1	Hamilton and North-western 173 90 Northern and Pacific Junction 111 37			
- 1	Toronto Belt Line			1
į	Midland 166.78			
i	Grand Junction S5 40 Toronto and Nipissing S5 00) }	ļ
-	Lake Simcoe Junction 26 50			
1	Victoria., 53.25			
١	Whitby, Port Perry and Lindsay 46.50		İ	
	Cobourg, Blairton and Marmora 450 Jacques Cartier Union		1	
	Montreal and Lake Champlain Junction 61'75		}	į
,	Beauharnois Junction 19:50) St. Clair Tunnel	2.23	7,190 06	49,738 98
₹ !	Great Northern	38.00	1,220 00	3,457 9
)	Great North-west Central	20.83	6,665 49	6,246 9
)	Hamilton Grimsby and Beamsville (Electric)	17·00 53·30	4,352 12 21,164 26	6,480 6 24,725 5
2	Hereford	45 00	2,134 66	2,862 6
3	Joggins, now Canada Coals & Ry. Co	12.00	3,217 19	3,717 4
1	Kaslo and Slocan	31 · 80 34 · 00	23,144 67 1,850 00	7,552 6 2,453 5
5 6	Kent Northern		34,375 40	33,742 5
7	L'Assomption	3.00	255 16	893 5
8	Lake Eric and Detroit River 88 05 London and Port Stanley 23 66	111.80	31,695 91	45,260 8
9	Lothinière and Mégantic	23 34	9,577 64	3,127 1
Ö	Manitoha and North-western 234 50	249 · 97	63,300 08	48,598 7
•	Saskatchewan and Western	34.00	27,923 74	1
$_{2}^{1}$	Massawippi Valley Montford Colonization.	21 00	1,165 43	
3	Montreal and Atlantic, formerly South-eastern 140:10)	201 50	68,638 08	129,691 2
	Lake Champlain and St. Lawrence Junction 01 40	14.42	7 000 71	29 410 9
4 5	Montreal Park and Island (Electric)	14 · 43 40 · 60	7,968 71 12,572 78	
6	Montreal and Vermont Junction	23 60	17,160 95	40,091 0
7	Nelson and Fort Sheppard. New Brunswick and Prince Edward Island	59·40 36·00	16,591 25	
8	Niagara Falls Park and River Electric Railway	13.68	7,202 66 2,988 60	
ŭ	Northern Pacific and Manitoba	269.12	94,912 97	65,575 1
1	Nosbonsing and Nipissing	2.20		
$\frac{2}{3}$	Nova Scotia Central	14 00	12,742 97	8,680 1
v	and Ry. Co	12.90		10,937 6
4	Orford Mountain	26 50		
55	Oshawa Electric Railway Ottawa and Gatineau	8·50 56·50		
56 57	Ottawa, Arnprior and Parry Sound	164.00	34,240 72	51,735 6
58	Parry Sound Colonization	48.00	4,669 90	5,585 6
59	Philipsburg Ry. and Quarry Co	6·75 70·60		
50 51	Pontiac Pacific Junction	85.50		
32	Qu'Appelle, Long Lake and Saskatchewan	253 96		
33	Quebec and Lake St. John. 242 00 Lower Laurentian. 39 50	991 50	50,652 12	55,096 1
	LOWER Laurentian	213.50	,	1 .

Expenses for the Year ended 30th June, 1896—Continued.

Working and Repairs of Cars.	General Operating Expenses.	Total.	Cost of Operating per train mile.	Number.	Remarks.
S cts.	\$ cts.	\$ cts.	Cents.		
1,176,390 04	4,430,895 38	11,544,625 43	71 · 09	26	
114 74 675 70 9,368 33 2,233 30 620 10 622 44 1,123 68 125 90 4,544 20 9 45 8,389 31 26,489 91 14,334 66 514 36 16,456 86	32,128 54 1,721 41 15,337 55 13,387 26 10,129 48 1,420 95 2,105 58 45,769 34 2,500 00 34,482 03 831 32 54,917 04 1,870 50 62,945 78 44,180 28 2,210 28 116,743 39	89,057 55 6,514 06 28,925 64 33,588 33 58,252 59 7,038 31 9,662 70 77,590 33 6,928 50 107,144 14 1,989 48 140,263 11 14,575 27 201,334 51 133,922 04 7,184 08 331,529 62	37 90 198 29 162 26 55 05 15 07 55 21 624 72 37 72 84 31 34 43 63 34 118 90 188 90 71 80 51 49 89 55	27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43	
4,041 38 26,514 12 793 80 643 55 3,616 10 15,068 39 3,275 00 100 00	8,739 38 23,859 70 10,635 46 2,271 37 26,095 34 93,066 05 8,980 20 6,617 73	38,442 95 107,625 81 34,651 16 14,777 77 36,271 47 268,622 54 25,315 20 28,140 82	64' 41 143' 83 43' 45 118' 50 120' 25 214' 35 60' 02	46 47 48 49 50 51 52	*Engines and power-house plant (electric.)
153 93 99 24 462 33 3,628 95 4,996 17 289 57 3,654 56 242 94 2,723 13	1,338 70 3,283 46 8,205 46 14,840 53 39,039 39 3,385 36 1,382 82 11,170 90 5,787 14 10,390 38	16,657 96 13,425 47 16,700 35 45,389 04 130,011 96 13,930 50 3,144 63 44,943 32 12,199 76 40,615 16	105.76 43.29 71.80 99.85 55.14 49.34 167.44 88.99 94.28 76.26	53 54 55 56 57 58 59 60 61 62	
10,040 33 23,574 87	68,265 58 102,112 81	184,054 18 254,874 48	86 84 75 70	63 64	

No. 7—SUMMARY STATEMENT of Operating

	Name of Railway.	Mileage.	Maintenance of Line, Buildings, &c.		Working and Repairs of Engines.	
			*	cts.	\$	cts
5 i	Quebec, Montmorency & Charlevoix	30.00	8,822	22	12,540	59
	Salisbury and Harvey	45.00	8,082		6,758	
7	Shore Line	82.50	10,178	77	6,896	
	Stanstead, Shefford and Chambly		20,924		16,810	
9	St. Catharines and Niagara Central	12.35	6,808		5,902	
	St. Lawrence and Adirondack	19.80	8,463		24,828	
:	Sydney and Louisbourg	65 90	18,007		32,860	
3	South Shore, formerly Montreal and Sorel	44.67 113.00	$\begin{array}{c} 6,491 \\ 21,996 \end{array}$		9,967 15,650	
	Temiscouata Tilsonburg, Lake Erie and Pacific	16.00	1,176		1,980	
	Thousand Islands	4 33	2,146		4,052	
	Tobique Valley	28.00	_,110		1,002	
	Toronto, Hamilton and Buffalo	83.83	5,251	20	23,554	89
:	United Counties	61.00	7,618	67	14,583	
1	Victoria and Sydney, B. C.	16.26	5,828	49	7,509	61
-		16,270 04	7,370,718	39	11,194,857	28

Expenses for the Year ended 30th June, 1896—Concluded.

Working and Repairs of Cars.	General Operating Expenses.	Total.	Cost of Operating per train mile.	Number.	Remarks.
\$ cts.	\$ cts.	\$ ct	cs. Cents.		
3,317 09 1,115 79 1,826 11 5,004 93 1,167 43 1,391 89 10,044 99 648 22 3,645 54	11,070 44 5,105 49 9,423 95 15,795 76 11,760 36 40,476 94 86,922 62 15,833 62 16,453 21 460 00 5,914 82	35,750 3- 21,061 9: 28,325 0: 55,535 6: 25,638 6: 75,160 3: 147,835 2: 32,940 1: 57,745 2: 3,616 0: 12,651 9:	7	65 66 67 68 69 70 71 72 73 74 75	For 6 months from 1st January, 1896, to 30th June, 1896.
1,354 83 5,173 77	30,266 94 12,605 11 7,018 71	60,427 8 39,981 1 20,356 8	46.81	77 78 79	
3,121,056 20	13,356,022 65	35,042,654 5	2	1	

No. S .-- SUMMARY OF ACCIDENTS

				•			
	Name of Railway.	Mileage.	Passengers, Employees or Others.	Fell Car Eng	rom	on o Trai eng when	ping or off ns or ines n in ion.
Numper.				Killed.	Injured.	Killed.	Injured.
$\begin{array}{c} 1 \\ 2 \\ 3 \end{array}$	Alberta Railway and Coal Co. Albert Southern 16:00; Harry Branch 3:00 Atlantic and Lake Superior Comprising— Baie des Chaleurs 80:00						
	Great Eastern Ottawa Valley Baje of Quinté Ry. and Navigation Co. 4 00	80.00			· • •		
4 5	Baie of Quinte Ry. and Navigation Co. 4 00 Kingston, Napanee and Western. 60 82 Berlind and Waterloo (Electric)	$\frac{64.82}{2.75}$	Passenger				
6	Brockville, Westport and Sault Ste. Marie	45.00					
7	Buctouche and Moncton Calgary and Edmonton	32.00					
8	Canada Atlantic 138 00	$295 \cdot 07$	(Pageon gove		· · · ·		
3	Central Counties. 38 00	176.00	Passengers	1		1	
		100.00	Others]			
10	Canada Eastern	136 00	Others	1			
11	$egin{array}{ccccc} {\sf Canada Southern} & 359 & 24 \ {\sf Sarnia Chatham and Erie} & 7 & 00 \ \end{array}$	382 · 19	Passengers Chers Passengers Chers Passengers Passengers Chers Chers	1	6		1
	Leamington and St. Clair		Others		2	1	2
10	Canadian Government Railways	1 150.50	Passengers	1	1		1
12	Intercolonial	1,150.50	Others	. 1	1 2	1	6
13	Prince Edward Island.	210 00					
14	Canadian Pacific Railway	6,211 50	$\begin{cases} \text{Passengers} & \dots \\ \text{Employees} & \dots \\ \text{Others} & \dots \end{cases}$	5 5	5 25	3	8 10
15	Caraquet	68.00	(Others	3	5	4	16
16	Carillon and Grenville.	13.00					
17	Central Ontario	104.00	Others.		١		1
18 19		75:00					
20	Cumberland Railway and Coal Co Dominion Atlantic, comprising— Windsor Annapolis. 87 50	32.00					
	Windsor Annapolis. 87 50 Cornwallis Valley. 14 00 Yarmouth and Annapolis. 87 00 Windsor Branch of Intercolonial 32 00	220.50	$\begin{cases} \textbf{Passengers}\\ \textbf{Employees}\\ \textbf{Others} \end{cases}$		1 1		
21	Drummond County	90.53	Employees	 	l		
22	Elgin and Havelock Erie and Huron	27.00					
23 24	Esquimalt and Nanaimo.	76:75 78:00	Others				
25	Fredericton and St. Mary's Railway and Bridge Co	1.33			1		ĺ.
26	Grand Trunk.	3,146.98	$\begin{cases} \text{Passengers} & \dots \\ \text{Employees} & \dots \\ \text{Others} & \dots \end{cases}$	2	6	1	3
27	St. Clair Tunnel	2.23	1	1	1	1	1
28 29	Great Northern Great North-west Central	38·00 50·93					
=:	Hamilton, Beamsville and Grimsby (Electric).	17.00	Employees.				(
31	Hereford	53.30	Zampioy ces				
32	Irondale, Bancroft and Ottawa	45.00		١.			
33 34	Joggins, now Canada Coals and Railway Co	12:00			∤		\
35	Kaslo and Slocan. Kent Northern	31·80 34·00		1	1		
36	St. Louis and Richibucto. 7 00 Kingston and Pembroke.	112.85			1	1	
37	L'Assomption	3.00		1	ļ		
38	Lake Erie and Detroit River 88.05)	111.80	Passengers	1	1	1	.1
39	London and Port Stanley	1	(Employees			1	
40	Lotbinière and Mégantic	23.34		1	į.		i
••	Saskatchewan and Western	249 97	Employees	·]····	1		

for the Year ended 30th June, 1896.

	als.	Tot	her ses.	Ot Cau	king iges.	Stri Bri	x- ions.	E plos	lking, nding, ying or ng on rack.	stan ly bein	disions, or Trains rown rom rack.	by the	ipling ars.		ting ms r ads of d'ws	Ar He out	work r near rack king up ains.	on o Ti ma
Number.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.
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1 38	1									1 							1	

No. 8.—Summary of Accidents

	Name of Railway.	Mileage.	Passengers, Employees or Others.	Fell: Car Eng	s or	Jum on or Train eng when not	r off nsor ines n in
Number.				Killed.	Injured.	Killed.	Injured.
41	Massawippi Valley	34 00	Employees Others				
42	Montford Colonization	21 00					
43	Montreal and Atlantic, formerly South-eastern. 140 10 \\ Lake Champlain and St. Lawrence Juncticn. 61 40	201 50	Employees	2			1
4 ţ	Montreal Park and Island (Electric)	14.43	Others				
45	Montreal, Portland and Boston, now Province Line	40.60	EmployeesOthers.				
46	Montreal and Vermont Junction	23 60	Employees		1		1
47	Nelson and Fort Sheppard	59 40					
48	New Brunswick and Prince Edward Island	36:00					
49 50	Niagara Falls Park and River Electric Railway Northern Pacific and Manitoba	$13.68 \\ 265.12$	Employees.				
90		200 12	Others				
51	Nosbonsing and Nipissing	5.50	****			,	
52 53	Nova Scotia Central	74.00		1.			• • • •
00	Coal and Railway Co	12.50					
54	Orford Mountain	26:50		1,			
55 56	Oshawa Electric Railway Ottawa and Gatineau	8:50 56:50					
57	Ottawa, Arnprior and Parry Sound	164 00	Employees Others		2		
58	Parry Sound Colonization	48 00			1	1	
59	Philipsburg Railway and Quarry Co	6.75	T23				
60 61	Pontiac Pacific Junction. Port Arthur, Duluth and Western.	70 · 60 85 · 50	Employees				
62	Qu'Appelle, Long Lake and Saskatchewan	253 · 96					
63	Quebec and Lake St. John	281 50	Employees				l
64	Lower Laurentian. 39 50 f Quebec Central	213.50	Employees		I		1
65	Quebec, Montmorency and Charlevoix.	30.00	12mployees				
66	Salisbury and Harvey	45.00					
67 68	Shore Line	82·50 43·00	Passengers Employees				
69	St. Catharines and Niagara Central	12.35	Employees			· · · · ·	
70	St. Lawrence and Adirondack	19.80	Others.	.1	1		1
71 72	Sydney and Louisburg.	65·90 44·67	Employees		1		
73	South Shore, formerly Montreal and Sorel	113.00	Employees	1	J	. :::.	1
74	Thousand Islands.	4 33					
75 76	Tilsonburg Lake Erie and Pacific.	16.00 28.00					
76 77	Toronto, Hamilton and Buffalo	83·83	Others				
78	United Counties	61.00	Passengers		.		
79	Victoria and Sydney B.C	16.26					<u> </u>
		16,270 04		23	65	19	65

for the Year ended 30th June, 1896—Concluded.

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Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Number.
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• • •	6	1	2	14	205	2	46	75	52		1		3	27	174	161	619	

No. 9.—Lines of Railway owned by Coal and Iron Mines, for the Year ended 30th June, 1896.

Name.	Length of Railway.	Gauge.	No. of Engines.	No. of Waggons.	Remarks.
Nova Scotia.	Miles.	Feet.			
Acadia Coal Mining Co Intercolonial Coal Mining Co	8.00 3.00	$\frac{4.81}{4.8\frac{7}{2}}$	2 4	25 268	Known as the Albion Mine Railway. Connecting Drummond Colliery with Inter- colonial Railway and Granton Wharf,
$\textbf{Londonderry Iron Co.} . . \left\{$	5·75 4·50 7·00	4·8½ 4·8½ 3·1	2 2		Pictou Harbour, N.S. From Londonderry Station on I.C.R. to Acadia mines, with sidings. From East Mines Station to East mines, with sidings. From works to West mines, with sidings.
CAPE BRETON.	28 · 25		10	346	
General Mining Association of London, England— Sydney Mines	5·15	4.87	4	241	This railway is used for colliery purpose
Dominion Coal Co— Main Line Victoria Branch. Caledonia do Glacie Bay. Reserve. Gowrie	40.00 5.00 1.00 50 10.00 1.50	4 · 8½ 4 · 8½ 4 · 8½ 4 · 8½ 3 · 0 4 · 6	10 1 1 1 4 2	727 150 119 69 228 150	only.
	63 15		23	1684	j

No. 10.—Statement of Aid granted to Railways—Constructed and under Construction—by Governments, for the year ended 30th June, 1896.

\$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$ cts. \$	Name of Railway.	Loan.	Total.	Bonus.	Total.	Subscription to Shares or Bonds.	Total.	
* 29,665 45 alo). 300,000 00 15,142,633 33		& cts.	ļ	1			66	cts.
alo). 300,000 00 15,142,633 33	Albert (now Salisbury and Harvey) Albert Southern Atlantic and North-west in Canada Baie des Chaleurs Duit des Chaleurs And Albert Hostings Grand Junction (now in Grand Trunk)	* 29,665 45						
300,000 00	Believille and Notes traceings Beauharnois Junction Brantford, Waterloo and Lake Erie (now Toronto, Hamilton and Buffalo). Brockville, Westport and Sault Ste. Marie. Buckvulche and Moncton.							
By). Ry). 300,000 00 4ge Company. 15,142,633 33 Wen Sound Branch.	Canada Atlantic. Canada Central. Canada Eastern (formerly Northern and Western of New Brunswick). Canada Eastern (formerly Arrow Lake							
Hereford Ry) Hareford Ry) y and Bridge Company. 15,142,633 33 ke Erie, Owen Sound Branch.	Caraquet Central of New Brunswick Cobourg, Northumberland and Pacific Columbia and Kootenay Cormwallia Valley (now in Dominion Atlantic).			226,012 226,012 156,800 44,800 39,850				
Railway and Bridge Company. 300,000 00 15,142,633 33 and Lake Erie, Owen Sound Branch. 15,142,633	Cumberland Railway and Coal Company Drummond County Dominion Lime Company (now in Hereford Ry) Elgin and Havelock Erte and Huvon.			297,920 00 15,360 00 15,360 00 96,000 00 750,000 00				
sive of Ottawa Valley Section).	Esquimate and Nanamus. Frederictor and St. Mary's Railway and Bridge Company. Grand Trunk do Georgian Bay and Lake Erie, Owen Sound Branch. Great Eastern. Great Eastern.							·
	Guelph Junction Harvey Branch Hereford			5,553 57 155,200 00 55,267,044 63				

No. 10,-Statement of Aid Granted to Railways by Governments-Continued.

Name of Railway.	Loan.	Total.	Bonus,	Total.	Subscrip- tion to Shares or Bonds.	Total.
DOMINION GOVERNMENT—Continued.	e cts.	& cts.	e cts.	s cts.	e cts.	e cts.
International (Atlantic and North-west) C. P. R. Irondale, Bancroft and Ottawa. Joggins (now Canada Coals and Railway Co.). Kent Northern	+ 58 334 97		156,800 00 160,000 00 37,500 00			
Kingston, Napanee and Western Kingston and Pembroke. 17 Assementan			208,732 80 48,000 00			
Lake Britand Detroit River			338,731 00			
Learnington and St. Clair (now in Canada Southern).			51,200 00			
Lower Laurentian Ingrand Midland of Nove States (Seminal: States)			217.600 00			
Montfort Colonization			67,200 00			
Montreal and Lake Maskinonge Montreal and Champlain Junction			103,600 00			
Montreal and Ottawa Montreal and Sorel (now South Shore)		:	192,000 00			
Montreal and Western.			361,270 00			
New Brunswick and Prince Edward Island			113,440 00			
New Glasgow Iron and Coal Co.			39,840 00			
Nova Scotia Central.			1,320,000 00			
Nova Scotia Southern			240,000 00			
Ontario and Quebec			196,000 00			
Orford Mountain.			84,800 00			
Ottawa, Arnprior and Parry Sound.			430,400 00			
Ottawa and Gatineau.			284,128 00			
Parry Sound Colonization						
Philipsburg Railway and Quarry Co.					•	
Pontiac and Renfrew.			13,600 00		,	

Auchee, Montreal (Hawa and Charlevoix, Montreal to Quebee, Montreal to Quebee, Montreal (Hawa and Occidenta).
do do Montreal to Ottawa
ivière du Loup (subsidy lapsed)
St. Clair Tunnel. St. Stenhen and Milltown
Shuswap and Okanagan
and Pacific
West Ontario Pacific. Western Counties (now in Dominion Atlantic). Winders and Amarolis (now in Dozinion Atlantic).
10,394,535 + Dominion Government pays to Quebec Government 5 per cent inter est per annum on these
ONTARIO GOVERNMENT. 4 Port Rutwell in Grand Trunk
Credit Valley
Grand Junction and Belleville & North Hastings
Grand Trunk, Georgian Bay and Lake Erie

No. 10.—Statement of Aid granted to Railways by Governments—Continued.

Name of Railway.	Loan.	Total.	Bonus.	Total.	Subscription to Shares or Bonds.	Total.
ONTARIO GOVERNMENT—Continued.	e cts.	es cts.	e cts.	ee cts.	& cts.	& cts.
North Simoce Ontario, Belmont and Northern. Ottawa, Armprior and Parry Sound Parry Sound Colonization Port Arthur, Duluth and Western Tilsonburg, Lake Erie and Pacific. Toronto and Nipissing Lake Simcee Junction. Toronto, Grey and Bruce. Victoria Wellington, Grey and Bruce. Wellington, Grey and Lindsay. Basie des Chaleurs (now in Atlantic and Lake Superior) Beauharnois Junction Ganada Atlantic Great Eastern (now in Atlantic and Lake Superior) Breat Northern. Drummond County, Hereford International (now Atlantic and North-west—C. P. R.) Lake Champlain and St. Lawrence Junction Lake Champlain and St. Lawrence Junction Lake Champlain and St. Lawrence Junction		26,000 00 -	83,300 00 20,000 00 411,000 00 148,500 00 155,511 00 155,212 00 157,000 00 311,000 00 311,000 00 171,073 00 171,073 00 188,250 00 188,250 00 188,250 00 188,250 00 188,250 00 188,250 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000 00 189,000	%		
Lake 1 temiscanningue Colonization Kallway. L'Assomption. Lotbinière and Mégantic Lower Laurentian. Montrer Laurentian. Montreal and Champlain Junction. Montreal, Portland and Boston (now Montreal and Province Line). Montreal and Ottawa. Montreal and Western. Montreal and Western. Montreal and Washinonge			310,846 82 310,846 82 87,506 90 228,000 90 73,506 90 129,710 90 231,122 90 4725,645 90 87,750 90			

Ortond Mountain Ottawa Mountain Ottawa and Gatineau Ottawa and Gatineau Ottawa and Gatineau Ottawa Valley (now in Atlantic and Lake Superior). Philipsburg Ry. and Quarry Co. Philipsburg Ry. and Quarry Co. Pontiace Pacific Junction. Pontiace and Renfrew. Quebec and Lake St. John Quebec, Montreal, Ottawa and Occidental, including North Shore Quebec, Montreal, Ottawa and Occidental, including North Shore Quebec, Montreal, Ottawa and Atlantic) St. Lawrence and Adirondack Temiscousta United Counties. Waterloo and Magog (now Atlantic and North-west—C.P.R.)	3,722,956 00	154,000 00 00 00 00 00 00 00 00 00 00 00 00	12,409,007 58	,	
Albert (now Salisbury and Harvey) Albert Southern Buccouche and Moncton		455,000 00 52,500 00 96,000 00	•		
Cartal de Cantal Branch (now part of Canada Eastern). S. Fredericton G. Fredericton G. Fredericton Harvey Branch Harvey Branch Kent Northern		139,000 00 139,000 00 230,000 00 413,000 00 135,000 00			
New Brunswick New Brunswick and Canada. New Brunswick and Prince Edward Island. Northern and Western (now Canada Eastern). Elgin, Petitcodiac and Havelock (now Elgin and Havelock) St. Martin's and Upham (now Central of New Brunswick) St. John Bridge and Railway Extension		76,000 00 575,000 00 99,708 90 107,500 00 145,600 00 5,500 00			
St. John Valley and Rivière du Loup St. Louis and Richibucto St. Stephen and Milltown Temiscousta. Tobique Valley Nova Scotta Government.		21,000 00 13,920 00 66,000 00 70,000 00	4,169,728 90		300,000 00
Coast Line. Cornwallis Valley (now in Dominion Atlantic). Joggins (now Canada Coals and Kailway Co.). Midland Ry, of Nova Scotia (formerly Stewisoke Valley and Lansdowne). New Glasgow Iron, Coal and Railway Co. (now Nova Scotia Steel Co.). Nova Scotia Central		288,000 00 44,800 00 35,200 00 288,000 00 40,000 00 432,261 08			

No. 10.-Statement of Aid granted to Railways by Governments-Concluded.

Name of Railway.	Loan.	Total.	Bonus.	Total.	Subscription to Shares or Bonds,	Total.
NOVA SCOTIA GOVERNMENT—Concluded.	e cts.	es cts.	ee cts.	e cts.	& cts.	e cts.
Nova Scotia Southern (Cumberland Railway and Coal Co.). Springhill and Parrsboro' (Cumberland Railway and Coal Co.). Sydney and Louisbourg, Dominion Coal Co. Western Counties (now in Dominion Atlantic).			307,200 00 173,650 00 87,808 00 679,197 45	2,376,116 53		Y.
Manitoba Government.						
Canadian Pacific. Manitaba and North-western. Manitoba South-western Colonization.	649,934 27 900,000 00		237,377 50			
Northern Psoific and Manitoba 95 Saskatchewan and Western 60 Winnipeg and Hudson Bay, (now Winnipeg Great Northern).	50,000 00 256,000 00	1,855,934 27	925,300 00	770,677 50		
BRITISH COLUMBIA GOVERNMENT.						
Canadian Pacific		:	37,500 00	37,500 00		
Total aid granted by Governments		21,569,423 32		165,215,010 42		300,000 00

TO: TO: TOTAL PREPARATION TO THE	And granted to railways—Constructed and under Construction—by Municipalities, 30th June, 1896.	tructed and	under Consti	nection—by	Municipaliti	es, 30th Jun	3, 1896.
Municipalities.	Name of Railway.	Loan.	Total.	Bonue.	Total.	Subscrip- tion to Shares or Bonds.	Total.
ONTARIO.		e cts.	e cts.	es cts.	& cts.	s cts.	69
t Deseronto Town of Brockville	Bay of Quinté Ry. & Navigation Co. Brockville, Westport and Sault Ste.				5,000 00		
:	Mariedo do			36,000 00			
Rear of Leads and Lansdowne	op op op			15,000 00 5,000 00			
South Crosby.				28,000 00 6,000 00			
Village of Newboro' North Crosby	op op op			4,000 55 200 000 000 000 000 000 000 000 000 000		-	
Various Municipalities	Buffalo and Lake Huron.				116,000 00 966,000 00		
6 Horton Admaston	Canada Central, now Can. Facincdo	: : : : : : : : : :				%,7,000 00 1,500 00	
		: :	:	: .		2,000 00	49 500 00
County of Elgin. Township of Townsend	Canad			30,000 00			42,000 00
do Durham do Anderdon	ဝ ဝ			15,000 00			
Town of St. Thomas.	op			25,000			
Town of Amherstburg.	op			15,000 00 15,000 00			
South Norwich	ор	:::::::::::::::::::::::::::::::::::::::	:	7,500 00	000 000		
Sault Ste. Marie Northumberland and Durham	Canadian Pacific	:			80,000 80,000 90,000 90,000		
West Hawkesbury	Central Counties			15,000 00	113,000 00		
Dalkeith.	op op			1,800 90 800 90 900 90			
Kockland	do do			6,000 00 1,000 00			
	Central Ontario			10,000 00	24,000 00		
Yown of Picton.	op			2,500 00			
County of Prince Edward	op		;	60,000 00	93,500 00		

No. 10.—Statement of Aid granted to Railways by Municipalities.—Continued.

Municipalities.	Name of Railway.	Loan.	Total.	Bonus.	Total.	Subscription to Shares or Bonds.	Total.
Ontario—Continued.		e cts.	e cts.	cts.	es cts.	ee cts.	
other Munici-	Cobourg, Northumberland & Pacific Credit Valley.			200,000 00 135,000 00	93,500 00		
do Waterloo. do Peel. do Halton.	0 0 0			70,000 00 350,000 00			
do St. Thomas. Town of Milton.	ှင် တို့ တို့ တို့			20,000 20,000 20,000 20,000 20,000			
do Drampton d do Ingersoll. Village of Streetsville.	9 9 9 9 9			10,000 15,000 20,000 00	900 ago		
	Erie and Huron.			30,000 00 16,000 00 16,000 00	7,000,000 to		
Village of Dreaden. Village of Dreaden. do Blenheim. do Wallaceburg.	9999			11,000 00			
	do Grand Trunk, Georgian Bay and Lake Erie			15,000 00	257,500 00		
Town of Simcoe. Township of South Norwich	ဝှင်			10,000 00			
do North do Vor Town of Woodstock. Township of East Oxford.	00 00 00 00 00 00 00 00 00 00 00 00 00			25,000 00 25,000 00 35,000 00			
Town of Woodstock				00 000,09 {			
				120,000 00			
Town of Listowel	<u> </u>			10,000 00			ų
Township of Wallace	do do			10,000 00		_	

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	50,000 00		
-	85,500 00	213,000 00 491,000 00 361,500 00	599,805 00
8,828,838,44,4,83,51,83,82,83,83,83,84,4,4,83,51,83,82,83,83,83,83,83,83,83,83,83,83,83,83,83,	75,000 00 7,500 00 3,000 00 15,000 00 15,000 00 35,000 00 35,000 00	170,000 00 318,000 00 3,000 00 3,000 00 11,253 00 11,253 00 30,974 00	25,525 25,525 25,525 25,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26,525 26
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	n Sound Branch do do	broke	do do do do do do do do do do do do do d
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Minto Minto Triston Normanby Bentinck Brant Brant Arran Ambel Arran Ambel Albemarle unt Forest unt Forest Glenelg		: : : : : : : : : : : : : : : : : : :	
f Palip of Handip of Mooning of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff of Duff o	f Owenip of Belle of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Sip of Si	City of Guelph County of Frontena City of Kingston City of Kingston and other Mun palities City of Hamilton County of Hamilton County of Peel County of Peel County of Peel County of Peel	Township of Innisting Township of Innisting do Majala do Adjala do Essa do Tosorontio do Mulmur. Village of Alliston City of Hamilton Township of Nottawasaga.
Townsh Townsh Townsh Townsh do do do do do do Do Do Townsh Townsh Townsh	Town of Townsh do do Village Village Do do do do do do do do do do do do do do	City of City of City of City of City of City of City of City of City of City of City of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County of County o	Towns Towns Towns Towns do do do Yillage Townsh City of Townsh

No. 10.-Statement of Aid granted to Railways by Municipalities-Continued.

Total.	್ರಾ •••
Subscription to Shares or Bonds.	et cts.
Total.	\$ cts. 87,500 00 100,000 00 33,000 00
Bonus.	\$\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\fra
Total.	83 95 99
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No. 10.—Statement of Aid granted to Railways by Municipalities—Continued.

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No. 10.—Statement of Aid granted to Railways by Municipalities—Continued.

Municipalities.	Name of Railway.	Loan.	Total.	Bonus.	Total.	Subscrip- tion to Shares or Bonds.	Total.
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Parish of St. Antoine do St. Denis	Great Eastern			10,000 00	15,000 00	•	
2. Parish of Ste. Sophie. 9 Village of New Glasgow. County of Compton.	Great Northern. do International, now in Atlantic and			4,000 00 2,000 00	20,000 00		
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No. 10,-Statement of Aid granted to Railwaye by Municipalities-Concluded.

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Municipalities.	QUEBEC-Concluded.	Township of Sorel Village of Actonvale do Roxton Township of Roxton do West Wickham	Fraserville	New Brunswick.	Hillsboro', Hopewell and Harvey Parlishes. Coverdale, Hillsboro', Hopewell and Harvey do Harvey Parishes.	City of St. John. City of Fredericton. County of York.	Parish of St. George do Pennfield. Lepreaux		City of Calais do Houlton do St. Stephen	Town of Chatham

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Total.	\$ cts. \$ cts.	2,802,500 00
Subscription to Shares or Bonds.	\$ cts. \$ cts. \$ cts.	748,500 00 1,393,000 00 60,000 00
Total.	\$ cts.	11,744,501 78
Bonus.	\$ cts. 138.145,441 67 7.306.538 24 12.409,007 58 4.163,728 90 2.376,116 53 7.776,677 50 37,500 00	10,069,142 78 482,074 00 273,500 00 281,685 00 585,600 00 37,500 00 25,000 00
Total.	\$ cts.	2,970,000 00
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	Governments. Dominion Ontario Ontario Quebec New Brunswick Manitoba British Columbia Municipalities.	Ontario Quebec Quebec New Brunswick Nova Scotia. Manitoba. British Columbia. North-west Territories.

PART VII

REPORT OF THE UNITED STATES DEEP WATERWAYS COMMISSION

REPORT OF THE UNITED STATES DEEP WATERWAYS COMMISSION.

On the 8th day of February, 1895, Senator William F. Vilas introduced the following joint resolution, authorizing a preliminary inquiry concerning deep waterways

between the ocean and the Great Lakes, and providing commissioners therefor:

"Resolved by the Senate and House of Representatives of the United States of America in Congress assembled, That the President of the United States is authorized to appoint immediately after the passage of this joint resolution three persons, who shall have power to meet and confer with any similar committee which may be appointed by the Government of Great Britain or the Dominion of Canada, and who shall make inquiry and report whether it is feasible to build such canals as shall enable vessels engaged in ocean commerce to pass to and fro between the Great Lakes and the Atlantic Ocean, with an adequate and controllable supply of water for continual use, where such canals can be most conveniently located, and the probable cost of the same, with estimates in detail; and if any part of the same should be built in the territory of Canada, what regulations or treaty arrangements will be necessary between the United States and Great Britain to preserve the free use of such canals to the people of this country at all times; and all necessary facts and considerations relating to the construction and use of deep-water channels between the Great Lakes and the Atlantic Ocean.

The persons so appointed shall serve without compensation in any form, but they shall be paid their actual travelling and other necessary expenses, not exceeding in all ten thousand dollars, for which purpose the said sum of ten thousand dollars, or so much thereof as may be necessary, is hereby appropriated. The President may, in his discretion, detail as one of such persons an officer of the United States Navy or of the

Army.

This resolution having passed the Senate (S. Res. 130) was favourably reported to the House by Mr. Wise from the Committee on Interstate and Foreign Commerce, and was incorporated in the sundry civil appropriation bill and became a law on March 2, 1895 (U. S. Pub. Doc. 122, p. 44). On November 4, the President announced appointments, under the law, of Commissioners: James B. Angell, of Ann Arbor, Mich.; John E. Russell, of Leicester, Mass.; Lyman E. Cooley, C. E., of Chicago, Ill.

Soon after the Government of the Dominion of Canada appointed Commissioners:
Oliver A. Howland, M. P. P., of Toronto; Thomas C. Keefer, C. E., of Ottawa; Thomas

Monro, C. E., of Coteau Landing.

The United States Commission met at Detroit, January 13, 1896, and organized with Mr. Angell as chairman and Mr. Russell as secretary. The time and place of meeting were chosen on account of the annual meeting of the Lake Carriers' Association. A week was spent in taking the testimony of ship owners, masters, and merchants, who

were pre ent at this meeting.

On the 18th of January a joint meeting was held with the Commissioners of the Dominion of Canada. The United States Commission made a plan of the work necessary to accomplish, so far as its means would allow, the purpose of the law. The exhibits of detailed reports, drawings, maps, and the report upon the technical work of examination will show what has been done. The material discovered in all quarters where search has been made has proved to be of far more importance than was conjectured, and the Commission has been directly led to make recommendations for the action of Congress.

The Canadian Commission has furnished all the matter, much cf it of great importance, contained in the public offices of the Dominion, cordially responded to all inquiries, and made special surveys on the route from Lake St. Francis to Lake Cham-

plain by the Richelieu River, the results of which have been laid before our Commission. Examination of the statistics of lake traffic, increasing with a rapidity but little understood, except by those occupied in it, must lead the statesman to consider what assistance Government can give to promote an internal commerce of such direct benefit to the whole country.

The most profound economic changes of modern times have been brought about by the improvements in transportation. These began with small canals and later with railroad construction, in the first half of the century, and have proceeded with accelera-

ting speed to the present time.

The railroad of to-day bears about the same relation to the transportation of thirty years ago as that did to the stage coach and freight wagon of the first quarter of the century. The general use of steel has given an efficiency and security to railway traffic far surpassing even the prophesies of enthusiasts. This has been accompanied by the utilization of steel in shipbuilding, which may be said to date from 1878, as in that year less than 2 per cent of steel was used in construction of ships in Great Britain. Minor inventions in the improvement of marine engines and locomotives have accompanied the greater changes, and resulted in affecting the living and exchanges of the whole world, and greatly broadening the line of separation between progressive and unprogressive peoples.

In the first half of the century each nation practically depended upon its own agriculture for the subsistence of its people. States or communities isolated by distance or mountain ranges might suffer from famine. A bushel of wheat raised far west of the shore of Lake Superior and now consumed by cotton spinners in Lancashire, 5,000 miles away from the field of its growth, might have its value exhausted by a wagon

haul of a hundred miles.

Now the combined stock of the world is the daily visible supply; its amount is

known in every city and its accessibility is fully understood.

In 1869 occurred the opening of the Suez Canal, which brought the East into competition with Western civilization by reducing a voyage of six or eight months to thirty days, virtually destroying the value of the fleet of sailing vessels previously employed, and making it necessary to readjust ancient systems of distribution and all the capital and labour incidental to them.

A part of the effect of this rearrangement of the world's commerce upon the business of this country may be seen in the reductions of the freights upon grain about 75 per cent, and enabling India to enter the markets of Europe with wheat to the amount of 34,000,000 bushels annually from 1881 to 1885. The magnitude of commercial change or disturbance in reduction of values may be estimated from the fact that in 1869 the value of the total trade of India with foreign countries was \$527,000,000. Five years later in had fallen off \$50,000,000 in value, but had so increased in volume as to employ an increase of 250,000 tons of steam shipping, an equivalent of 500,000 tons of sail.

The future of this commerce between the western world and eastern nations, increased by the introduction of better methods of production and stimulated ambition,

must be left to conjecture.

The agricultural competition we have been compelled to meet from India has lately been intensified by the entrance into the world's market of the rising States of the south of our continent. These circumstances, which will change only in the direction in which they are moving, strongly appeal to us to examine in what manner we can lighten the burdens of our agriculture and keep pace with the world's progress by facilitating and cheapening our internal transportation.

The limit of reduction in railroad freights seems to have been reached; it remains to be determined if it is not possible to extend lake navigation to the ocean by a practicable ship channel, for although the development of our natural waterways is but little advanced beyond the bounty of nature, and is capable of immediate and vast extension, the effect of the little we have done has been enormously profitable.

The chain of great lakes, with a water surface of 95,965 square miles, a basin area of 312,365 square miles, and coast lines in the United States limits of 3,075 miles, gives

us a deep, fresh-water navigation, the extent of which can not be accurately stated, so rapidly does it increase.

If it is overestimated in enthusiastic estimate, the calm statistics soon overtake the

exaggeration.

The coast lines of the lakes border upon nine States, containing more than one-third of our population, and upon their harbours are six cities, with an aggregate population of 3,000,000, and hundreds of rapidly growing towns. The increased power of navigation effected by the Welland Canal, through which vessels of a cargo capacity of 1,700 tons are passed into Lake Ontario and thence to Ogdensburg, a distance from Duluth of 1,235 miles, the enlarging and deepening of harbours and the connecting channels of the lakes, and the building of powerful rapidly working locks at the Falls of St. Mary, have given such commercial results that any suggestion of improvement upon a wider scale must at once secure favourable notice.

The amount expended by the United States upon lake navigation, in widening and deepening channels, is about \$12,000,000, and marine history contains no parallel to the rapid development which has been made possible by this assistance. The largest item in the lake traffic, the transportation of iron ore from the Superior shores, has been made possible by the locks at St. Marys Falls and the deepening of the connecting channels. The importance of this industry, but yet in its infancy, can not be estimated.

The richest iron ores are now delivered along a line of coast of 1,000 miles, dotted with manufacturing towns. This has cheapened iron and steel below the cost in any other part of the world. The development of this industry has worked a revolution scarcely less important than the enlargements of harbours, channels, and locks, in the shipbuilding of the lakes.

As steam took the place of sail, so iron and steel have succeeded wood, and there is no part of the seaboard where vessels can be so cheaply built as in the shippards of the lakes. These enterprising builders are confined to their own shores. Were they not landlocked in their fresh-water seas, they might compete with the shipbuilders of

the world.

The increase of tonnage and freights can be better understood from a table showing the business of the locks at St. Marys Falls during ten years:

Year.	No. of vessels.	Tonnage.	Net tons freight.	Year.	No. of vessels.	Tonnage.	Net tons freight.
1885	5,380	1,035,937	3,256,628	1891	10,191	8,400,685	8,888,759
	7,424	4,219,397	4,527,759	1892	12,580	10,647,203	11,214,333
	9,355	4,897,598	5,494,649	1893	12,008	8,949,754	10,796,572
	7,803	5,130,659	6,411,433	1894	14,491	13,110,366	13,196,860
	9,579	7,221,935	7,516,022	1895	17,956	16,806,781	15,062,580
	10,557	8,454,435	9,041,213	1896	18,615	17,249,418	16,239,061

The estimated value of freight in 1895 was \$159,575,130.

In 1894 the St. Marys Falls Canal was open for 234 days, about 10 days more than the average time. The Suez Canal, which is open all the year, passed 3,352 ships, with a tonnage of 8,039,105 or 5,071,261 less net tonnage than the canal connecting the lower lakes with Lake Superior.

The amound of freight passed by this canal in two hundred and thirty-four days was equal to 13.6 per cent of all the freight carried by all the railroads of the United

States for the entire year.

In 1889 the late Mr. George H. Ely published an estimate of the traffic passing through the Detroit River. He made it three times greater than the foreign trade of the port of New York. It exceeded the aggregate foreign trade of all the seaports of the United States by 10,000,000 tons, and was 3,000 tons more than the foreign and coastwise trade of London and Liverpool combined. At the annual meeting of the Lake

Carriers' Association, at Detroit, January, 1896, the statement was made that in 1895 the ton mileage of vessels passing Detroit was estimated at 22,395,251,250. The cost per ton per mile was 0.85 of a mill. The net tons of freight carried was stated to be 29,860,335.

The effect of this enormous trade upon the increase of manufacturing may be partly estimated by the growth of Cleveland. The city, at the mouth of the Cuyahoga River, near the lower end of the deep water from Duluth to Buffalo, had a population of about 80,000 in 1876. It was not expected that there would be any special development of business there, but the deepening of the connecting channels of the lakes has created a trade in ore and coal which has carried the population of Cleveland to 350,000 people, and its shippards rival the busiest in the world in their activity.

The increase of the business of Buffalo in receiving, storing, and forwarding grain and lumber, in shipbuilding, and in general manufacturing is a matter of common

knowledge.

This may be called the eastern terminus of deep-water navigation and receives a large proportion of the grain bound to the seaboard. For export and distribution, Duluth, Superior, Chicago, Milwaukee and Toledo all send the greater part of their grain and flour to Buffalo. The table of receipts of grain at Buffalo nearly equals the total exports of grain from all ports of the United States. For three years past the receipts were, reckoning flour in bushels—

1893	187,235,160
1894	160,968,095
1895	

At Buffalo bulk has to be broken, the grain elevated and transferred to cars or canal boats, and the same thing, with equal expenses, is repeated at New York.

The lake freight from the farthest shore of Lake Superior and of Lake Michigan to Buffalo is from 1 to $1\frac{1}{2}$ cents a bushel. The ocean freight averages about 3 cents, making 4 to $4\frac{1}{2}$ cents for the deep water carriage of 4,000 miles. The whole cost from Chicago or Duluth to Europe is from 9 to 10 cents for a bushel of wheat. Therefore more than half the cost is in elevator charges, commissions, and canal freights, to which must be added the item of waste.

It costs twice as much to carry a barrel of flour from Duluth to New York as it does from New York to Europe, though the latter distance is more than twice as great as the former.

If an ocean steamer could clear from an upper lake port to Europe, it would save the time and expense required to break bulk at two intermediate points, and the cost of carriage would be about one-half of what it is now. Such a vessel could carry her cargo from the east end of Lake Erie to the ocean for not exceeding 1 cent a bushel for the additional water distance.

In 1885, the United States was the principal source of wheat supply to make up the deficiency in the world's markets, notwithstanding that the opening of the Suez Canal in 1869 had brought India into competition with us, and the British East Indian Government had by railways, canals and irrigation greatly stimulated the growth of wheat. From 1881 to 1885 the average export from the United States in grain and flour was 122,157,043 bushels. In the same time the average supply from our competitors was—

Canada	2,906,218
Argentina	2,015,118
Uruguay	77,296
Russia	76,189,773
India	

Five years later changes of a most ominous character had taken place. The world's supply had greatly increased, prices were on a much lower level, and the competition was from an unexpected quarter.

From 1891 to 1895 the exporting countries poured into the markets as follows:—

United States (wheat and flour in bushels)	171,731,480
Canada	
Argentina	34,617,381
Uruguay	1,619,489
Russia	105,581,617
India	29,251,323

This shows a yearly average increase from 1891 to 1895 of 114,000,000 bushels over the years from 1881 to 1885. The percentage of increase is nearly divided between the United States and Russia. India falls off. Canada trebles her surplus production, and from the southern part of the continent new and threatening competition rapidly enters the market.

This new feature appears all the more dangerous if we examine the production of these later years. 1891 was an unusual and uneven wheat year. There was a partial failure of crop in Europe. The Russian crop was exceedingly light with agricultural distress; the crop of the United States was the best ever known with active demand and firm prices. In this year the Argentinian crop was 36,000,000 bushels and the Uruguay crop 3,000,000; but in 1895, the Argentinian crop rose to 75,000,000 and the Uruguay crop to 10,000,000 bushels, of which 6,000,000 of bushels in grain and flour were available for export.

While the crop reports of the present year indicate that our southern competitors are subjected, like ourselves, to variable and even disastrous seasons, their standing in the market is established and their production of wheat and corn will undoubtedly greatly increase. When they have bountiful harvests, we must meet very low prices. The Empire of Russia is making prodigious advances in connecting her distant grain fields with the coast and her competition will undoubtedly increase rather than diminish.

A few years ago agricultural products and lumber made the cargoes of lake shipping, but a new industry has arisen from the recent discoveries of iron ore in the Lake Superior region, which, under favourable conditions of transportation, bids fair to bring about far-reaching, economic changes.

Three quarters of the iron ore brought into use from these discoveries has been produced during the last ten years, and the amount of capital interested in mining and transportation is now estimated at \$234,000,000. The proportion of this recent business to the iron industry of the country may be seen in the statistics of 1892. In that year there was put out 16,036,043 tons of ore, of which the Superior region gave 9,564,388 tons. But when it is taken into account that these ores surpass in richness the ores of any other part of the country, the proportion of value is much greater than appears New discoveries are constantly reported, and the ease of access to the deposits makes it possible to supply any possible demand. The rapidity of the development of this industry in its infancy seems to establish that, with access to the ocean by a practicable waterway, we can not only control our own iron and steel trade, but can enter into competition in any market. Some of our large iron and steel plants are upon the sea-coast and are importers of foreign ores, as the low value of iron ore in proportion to its weight will not permit them to pay railway freights on the ores of the Superior region. The position of these coast iron works is similar to that of the same industry in Great Britain and Germany. The ores of those countries are not suitable for Bessemer steel, and for some years past their furnaces have been supplied from the mines in the north of Spain, which are the only accessible ores in Europe, so far known, that compare in purity and richness with those of our lake region.

Now the iron masters of Europe are confronted with the discovery that the Spanish deposits are rapidly being exhausted; they will this year supply 6,000,000 tons, four-fifths of which goes to England. At this rate, and with the prices of ore rising as the quantity diminishes, ten years will exhaust the mines of the Biscay region. The other mines of Spain are on the Mediterranean and are small deposits, about 100 miles from the coast.

Another possible resource is in the mines of central and northern Sweden. These are ores of great purity, but low in iron and with a long haul by rail, so that they can

not be cheaply afforded.

This condition of European manufacturing indicates that soon our iron masters can sell their iron and steel in all forms in any part of the world. With deep water access to the ocean, the ores required on the Atlantic could be supplied to the exclusion of foreign ores, the iron and steel business of the country equalized, and our country supplied at a minimum of cost, enlarging the field for capital and industry and increasing the prosperity of the whole. At the same time, furnaces and rolling mills on the lakes could produce iron and steel that, water borne, would irresistibly invade the markets of the world.

The foregoing remarks upon the present commerce of the lakes are capable of wide extension.

We append hereto as a part of this report the report of Mr. Cooley upon the technical work which has been carried on under his immediate supervision, accompanied by certain detailed reports and drawings, which are set forth in three exhibits.

Exhibit A consists of profiles and maps of water routes with explanatory texts, comprising profiles Nos. 1 to 14 inclusive, two maps, a general report, and two special reports. This exhibit comprehends the several routes which have been considered and advocated by diverse interests, and practically covers the available information. In compiling them recourse has been had to all sources of information, as surveys and examinations made by the two Governments, by State and provincial authority, by corporations, and by individuals. It was found necessary to make special examinations in the field of the Mohawk route and of that portion of the St. Lawrence-Champlain route between Lake Ontario and Lake Champlain, and these are covered by special reports. No attempt has been made to define projects, the presentation being limited to the characteristic physical features upon a uniform scale for purposes of comparison.

Exhibit B consists of five special topics, illustrated by one map and seven diagrams, designed to develop the considerations affecting riparian interests of unprecedented magnitude, and the conditions limiting the capacity and character of works. The first topic reviews the data pertaining to elevations and data planes, to which all records and plans are referred. The second sets forth the fluctuations of the several lakes and the St. Lawrence River from 1360 to October, 1896, inclusive, and is accompanied by complete tables and by diagrams showing graphically the record and the important deductions. A discussion of these data determines a certain common plane, or standard low water, throughout the bodies of water under consideration, to which all profiles and water levels have been reduced. The necessity of some standard of common reference is obvious in the undertaking of any comprehensive and far reaching system of works.

The third topic is illustrated by a general basin map, and has been carefully compiled from original sources with a view to better determinations of the water areas and the actual watershed drains therein, and this work has had the co-operation of the Geological Survey of Canada in the definition of the little known watershed line through

the highlands of Canada.

The fourth topic deals with the effect of gales on Lake Erie, and has a most important bearing on any proposition for the control of the level of this lake and the project for a canal therefrom to Lake Ontario. The available means did not permit the extending of this investigation to the other lakes, in which, however, the phenomena are less characteristic and less significant in their practical bearing.

The fifth topic has taken great research, and although the subject has not been exhausted, the results are valuable as an index of water conditions in the several lakes prior to any material disturbance of the watersheds due to inhabitation. It is to be inferred that extreme variations in water level were more pronounced than during recent times.

The important topics of rainfall and the outflow of the lakes and their relation to each other and to lake levels have been quite beyond the resources of the Commission, and the data regarding outflow are very meagre.

Exhibit C was designed to cover the practical topics governing most directly the character and utility of works, but as their consideration has naturally followed the

development of the preceding schedules, little progress has been made except in relation to the ice season. This comprises a large number of tabular records for varying periods upon the streams and lakes of the United States and Canada, and the more significant features in their bearing on water routes are partially presented in five diagrams. This topic is compiled from material, the larger part of which has been collected for the first time from original sources, and is found to give systematic and consistent indications quite beyond any anticipations, considering the diverse character of the original observations and the various individual incentives for keeping these records. A very voluminous correspondence had led to the conclusion that it will be feasible to obtain a substantially complete record for a sufficient number of points to project general charts of the ice season and its variations with latitude, altitude, and water conditions, and the economic and scientific importance of such work can not be overestimated.

It is considered that these general exhibits are important, and that they should be published in full as the primary information for the many who have under advisement.

or wish to consider, the questions herein treated.

SUMMARY OF DEDUCTIONS.

The leading deductions which are to be inferred from the work of the Commission

are presented in the following summary:

They are tentative in part and ignore the boundary line and are intended to present in logical sequence the leading considerations which determine a choice of routes and the character of an enterprise as well as the collateral bearing of the same.

I. The Trunk Route.

1. All routes are assumed to originate at the head of Lake Michigan at Chicago, and at the head of Lake Superior at Duluth-Superior, thence by Lake Michigan and the Straits of Mackinac and by Lake Superior and the St. Mary's River, respectively, a junction is reached in Lake Huron. All deep water routes to the eastern seaboard are restricted to two outlets, the St. Lawrence River from Montreal to the Gulf of St. Lawrence on the north, and the Hudson River from Troy to the Atlantic Ocean at New York.

2. From the junction in Lake Huron to Montreal and to Troy various routes and

combinations of routes have been advocated by diverse interests:

(a) The natural route via Lake Erie, Lake Ontario, and the St. Lawrence River to Montreal, and via Lake Champlain to Troy, with an alternative line from Lake Ontario to Troy via the Oswego-Oneida-Mohawk Valley. An alternative to the Lake Erie route is the direct line via Georgian Bay to Lake Ontario at Toronto.

(b) The Ottawa route via the Ottawa and St. Lawrence rivers to Montreal and via

Lake Champlain to Troy. This line omits Lake Erie and Lake Ontario.

3. The Georgian Bay line is not considered an available alternative for the Lake

Erie route;

(a) The work of construction is much more serious, and the same money will develop the Lake Erie route for a capacity which will more than effect the saving in distance.

(b) The water supply is limited for a navigation of the first class, the summit level being drawn upon in both directions, which exacts locks of moderate lifts. The excess of lockage, the number of locks, and the amount of restricted channel increase the commercial length or time on the route, the saving in distance being apparent rather than real.

(c) The ice season is sensibly longer on Lake Simcoe, the proposed summit level,

and at Georgian Bay points.

(d) Lake Erie is the greatest traffic lake, and its position will always make it an important factor. The construction of an alternative line would not obviate the necessity of developing the Lake Erie route.

1. The Ottawa route is a short, independent line which may have great value for

future development, but its consideration is not now justified:

(a) It is the shortest through route between terminals and is unquestionably adapted to a navigation of considerable capacity. Comprehensive surveys will be required to determine its availability for a navigation of the first class, and until a project has been matured it will be impossible to say how far lockage and restricted channels will offset the apparent saving in distance.

(b) For a large portion of its length it runs through a region meagre in resources

and the ice season is considerably longer than on the Lake Erie route.

(c) The function of the Ottawa route is as a future loop line for through business when traffic conditions shall have been sufficiently developed by the Erie-Ontario route;

provided, it shall be found capable of a radical solution.

5. The routes for shortening distance between Lake Michigan and Lake Huron and between Lake Michigan and Lake Erie are available for a moderate capacity suited to the local and coasting trade. A first-class navigation, if practicable, would be very costly and its utility would be problematical. A large vessel would probably make the longer course through the open water as quickly and the land routes would be closed earlier by ice. They would open earlier in the spring, and this would be a positive advantage, unless means are devised for breaking the ice blockage at Mackinac.

6. A ship route through Western New York along the general course of the Erie

Canal is not regarded as a desirable project:

(a) It would involve 120 to 140 miles more of artificial channel than the route via Niagara Ship Canal, Lake Ontario, and the Oswego-Oneida-Mohawk Valley; it would be crossed by a greater number of bridges and might have as many locks, owing to the conformation of the ground, and it would have a side hill location across lines of drainage for much of its course; all of which would make the route longer for navigation, more expensive to construct, and involve greater risk in maintenance.

(b) All the important points to be reached by such a project as Rochester, Cayuga Lake and Syracuse, can be better and more cheaply served directly from Lake Ontario-

or by local canals.

(c) The country to be reached from both shores of Lake Ontario between Hamilton and Ogdensburg is an important consideration. Lake Ontario is comparatively isolated, and to join it with the upper lakes is conceived to be as fruitful in developing commerce as has been the union of Lake Superior, and a project for this purpose would be justified were there no possibilities of going farther in the direction of the seaboard.

(d) A moderate development of the canal through western New York with a high level through the central lakes basin may be of value as a means of water supply for a

ship route through the Oswego-Oneida-Mohawk Valley.

7. The question of a trunk route is thus reduced to the natural course through the several Great Lakes. From Lake Ontario the St. Lawrence River leads to tide water at Montreal, and the Lake Champlain and Mohawk routes lead to tide water of the Hudson River at Troy.

II.—Terminal Routes.

8. The making of Lake Champlain a part of the Great Lake system is justified

independently of any project for reaching the seaboard:

- (a) The same considerations apply as in the case of Lake Superior and Lake Ontario, but in higher degree, on account of the very favourable position of Lake Champlain with respect to a distributive traffic through New England and the magnitude of the movement to and from this section.
- (b) Except as opening up an increased territory, extension of navigation eastward gives very little advantage over Lake Erie for the transhipping and forwarding business until Lake Champlain is reached, which is more favourably situated for a part of the through service.
- (c) An extension of lake commerce to Lake Champlain would add 40 to 50 per cent to the length of present lake routes, and a nearly proportional amount of territory

in direct service, and would largely increase the total water movement. Lake Champlain is a normal part of the Great Lake system.

9. The St. Lawrence route is justified as a seaboard route on its merits and inde-

pendent of all other considerations;

(a) Lake navigation at the head of the St. Lawrence rapids below Ogdensburg is 111 miles from ocean navigation at Montreal, with a present length of 46 miles of intermediate canals and 220 feet difference in level. The artificial channel required for a navigation of the first class is much less than that of either the Suez or the North Sea-Baltic Canal. This route is capable of development to any useful capacity for much less money than any other.

(b) It is the shortest line for direct trade with the north of Europe to the maritime provinces of Canada. It is recognized that the foreign movement is largely incidental to the lines of domestic commerce, and that by comparison the ratio of domestic movement in this direction is destined to be small; so the St. Lawrence route is not to be

taken as a solution of the seaboard problem.

(c) Half of the work required to open the St. Lawrence route is also half of that required to reach Lake Champlain. Considering Lake Champlain as a part of the lake system justifying development, the cost of making the St. Lawrence outlet is very small in proportion to its probable utility. The works to reach Lake Champlain and to reach Montreal should be regarded as one outlet.

10. The development of the St. Lawrence seaboard outlet and the making of Lake Champlain a part of the lake system in nowise lessen the importance of an outlet to the

Atlantic seaboard through the Hudson River.

(a) The predominant seaboard movement on this continent is to and from the Atlantic Coast between Portland and Norfolk. This is likely to continue the major

factor in domestic commerce and the controlling element in foreign movement.

(b) From Lake Erie north-easterly, the Lakes and St. Lawrence extend parallel to the trend of the Atlantic coast and at a distance of 250 to 400 miles. The detour via the Gulf of St. Lawrence to reach this coast is an average trip of 1,830 and 2,000 miles, as against feasible cross routes of 370 and 330 miles. If Lake Ontario were an arm of the sea, the situation would not be materially changed. In other words, for the movement in question, the St. Lawrence route would be of very doubtful utility.

(c) The situation is not unlike and more emphatic than that of France between the Mediterranean and the Atlantic, with physical conditions, such as France does not possess, inviting a water route of the first magnitude. The economic conditions warrant

an expenditure several times that required for the St. Lawrence route.

11. With Lake Champlain in the lake system, engineering considerations favour the Champlain-Hudson route from the head of Lake Champlain at Whitehall to tidewater

at Trov:

(a) By a cut through the Champlain-Hudson divide the level of Lake Champlain may be carried into the Hudson River Valley and locked down to tide level above Troy in a total distance of 64 miles. The entire route from Lake Ontario will be downhill

and the lockage may be concentrated at three localities in maximum lifts.

(b) The tidal Hudson is favourable to deep-water improvement, the amount of material to be moved being no greater than has already been handled in the deepening of the St. Lawrence below Montreal, and the mileage of shallow water to be improved is considerably less. In fact, from the common point in Lake St. Francis to the open sea, the mileage of restricted channel by the Champlain-Hudson route is not excessive in comparison with that of the St. Lawrence route. The statements regarding the tidal Hudson are equally applicable to the Oswego-Oneida-Mohawk route.

(c) The Champlain-Hudson route is advantageous to eastern Canada as a short cut to the southern coasts and to the West Indies. It is the logical extension of a future Ottawa route should conditions favour a radical development on that line, and it skirts

New England.

12. Economic considerations favour the Oswego-Oneida-Mohawk route from Lake Ontario at Oswego to tide water of the Hudson River at Troy, provided the physical conditions permit of a radical solution:

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- (a) The route from Oswego to Troy is 177 miles as against 379.5 miles by the St. Lawrence River and Lake Champlain, or 202.5 miles less in absolute distance. Were the Mohawk Valley in virgin condition it would be feasible to dam it near Amsterdam to the level of Oneida Lake and make a through cut of the Rome summit. Such a treatment would make the route as a whole equal to if not better than the slowest or more restricted 177 miles of channel on the St. Lawrence-Champlain route and save in time the equivalent of the remaining 202.5 miles. This saving on so large a proportion of the commerce as is destined to the Hudson River outlet will be a matter of great moment.
- (b) To the extent that vested interests prevent a radical solution will the advantage of distance diminish by increase in the number of locks and through a more restricted channel. An endeavour to mould the works closely to existing conditions may actually destroy the advantage in distance without greatly reducing the cost for a navigation of the first class.
- (c) The data show that the route is capable of development for a second-class navigation without radical disturbance of vested interests. The relative value of the route and the capacity to which it may be developed must await final surveys and actual projects, considered on the basis of cost and of economic value. The profile and map, the first ever made of this route as a whole, suggest possibilities not heretofore anticipated, and warrant an exhaustive consideration from final data.

13. Each of the three routes from Lake Ontario seems to have independent merits justifying its construction, and no one of them can be eliminated without sacrificing material advantages. It is easy to believe that the eventual growth of commerce will furnish business for all. Meantime, the determination of the route for initial development should rest on a consideration of all the factors in the problem.

III. Limiting Conditions.

14. The water supply is adequate to a project of any character on all available routes, except the Mohawk, which may require special provision:

(a) The mean outflow of the lakes at Niagara is adequate to a channel three-fourths of a mile wide and 40 feet deep, with a velocity of 1 mile per hour. Any pro-

portion of this is available for the St. Lawrence and Champlain-Hudson routes.

(b) A through cut of the Rome summit to the level of the lakes of central New York, or a high-level feeder from Lake Erie, will provide a sufficient water supply for the Mohawk route; otherwise a limited water supply will dwarf the project for a navigation of the first class, as the channel must be fed both ways from a summit, while on the other routes the feed is continuously in one direction.

15. Assuming 30 feet at standard low water as the limit of depth for a navigation of the largest useful capacity, the proportion of channel to be actually constructed or

deepened on any of these routes is relatively small:

- (a) In this consideration, it is assumed to be feasible to control the level of Lake Erie so as to produce 16 feet on the mitre sill of the Welland Canal at Port Colborne, or raise standard low water 2.28 feet, by works placed in the Niagara River, at Tonawanda and in the Canadian channel opposite, and that the Lake Erie level, less the slope required in the Niagara River, will extend to Tonawanda; and further, that the Niagara Ship Canal is to be constructed from Tonawanda to Lake Ontario at Olcott harbour, via Lockport.
- (b) It is assumed that the St. Lawrence River below Montreal has been deepened to 30 feet. The present improvement is for a depth of 27.2 feet and covers a length of 43 miles of dredged channel. A depth of 30 feet involves 50 miles of work, and this has already been undertaken.
- (c) It is assumed that the Hudson River below the State dam at Troy has been deepened to 30 feet. The project now under way is for 12 feet and covers 12 miles. A depth of 30 feet involves 31 miles of improvement.
- (d) Between Lake Michigan and Lake Huron, through the Straits of Mackinac, the depth is ample; but a change in the sailing course will be required over a some-

what longer route. Between Lake Superior and Lake Huron, through the St. Marys River, a depth of 30 feet involves 27 miles of channel and 1 mile of the St. Marys Falls Canal.

(e) From Lake Huron to Lake Erie are 43.5 miles of channel of less than 30 feet; and between Lake Erie and Lake Ontario, 5.5 miles of channel and 25.3 miles of canal

(f) From Lake Ontario to Montreal and to Troy the constructed and deepened channel will be approximately as follows (the constructed channel may be classified as actual canal and as artificial channel formed by impounding water):

Routes.	Actual canal.	Artificial channel.	Deepened channel.	Total.
St. Lawrence River to Montreal St. Lawrence-Champlain to Troy Oswego-Oneida-Mohawk to Troy	Miles. 42 5 67 85	Miles. 20 80 70	Miles, 16 52.3 12	Miles. 78·5 199·3 167

On the St. Lawrence-Champlain route, 20 miles of canal, 20 miles of artificial channel, and 9.8 miles of deepened channel are common to the St. Lawrence route; and 23 miles of canal, 20 miles of artificial channel, and 8 miles of deepened channel are between the St. Lawrence River and Lake Champlain.

The artificial channels are assumed equal in capacity to the deepened channels. How far this may be true and the relative extent of actual canal and of artificial channel depend on the treatment.

(g) From Chicago to Montreal and to Troy the proportion of work is as follows:—

Character of work.	St. Law- rence route.	Champlain route.	Mohawk route.
Actual canal	20	Miles. 92·3 80 101·3	Miles. 110·3 70 61
Total work required Total distance Percentage	152·8 1,281·5 11·9	273·6 1,460·5 18·7	241·3 1,258 19·1

To the mouth of the Saguenay River and to New York City the proportion of work is as follows:—

	St. Law- rence route.	Champlain route.	Mohawk route.
Total work required	Miles. 202.8 1,558.5 13	Miles. 304·6 1,614·5 18·9	Miles. 272·3 1,412 19·3

The distance from Duluth is 67.5 miles greater than from Chicago, and the proportion of work may be computed as above from data under (d).

16. A channel of certain dimensions may be taken as practically equivalent to deep and open water. Without assuming it to have this actual value, a channel one-fourth mile wide and 40 feet deep is arbitrarily taken as free water for the purpose of

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comparing the length of free and restricted channels. The distances are taken from Chicago to the mouth of the St. Lawrence at Pointe De Monts and to the Atlantic Ocean at Sandy Hook light vessel. Duluth-Superior will have 67.5 miles more of distance and 48 miles more of restricted channel than Chicago.

Destination.	Restricted channel.	Total distance.	Proportion.
Montreal Gulf of St. Lawrence Troy—Champlain route Atlantic Ocean—Champlain route. Troy—Mohawk route Atlantic Ocean—Mohawk route	Miles. 223 · 8 333 · 8 341 · 3 407 · 3 300 · 3 366 · 3	Miles. 1,281·5 1,698 1,460·5 1,642·5 1,258 1,440	Per cent. 17.5 19.6 23.4 24.8 23.9 25.4

In the above tables canal distances are included in restricted channel.

17. The capacity of canals required between Lake Erie and tide water of the Hudson at Troy may be increased two and a half times at an additional cost of 30 to

40 per cent :-

(a) This statement applies to the canal work proper and assumes that channels in open water will be deepened progressively as demanded by commerce. The basis of comparison is a canal adapted to a vessel of a draught of 20 feet. A vessel of the same model and a draught of 27 feet will have approximately two and a half times the carrying capacity.

(b) It may be assumed that about 30 per cent of the cost of the smaller channel is represented by fixed charges that will not vary materially with the capacity. Half of the remainder is represented by deep cuttings, in which the increased cost will be about 40 per cent. The other half will represent shallow cuttings, embankments, structures, etc., at various ratios and averaging about 60 per cent increase of cost. The results are as follows:—

Class of Expenditures.	For dra	ught of—
Olide of Enipoletics.	20 feet.	27 feet.
Fixed charges Deep cuttings Ordinary work, structures, etc	Per cent. 30 35 35	Per cent. 30 49 56
Total	100	135

⁽c) This ratio is taken for the Champlain route, including that portion of the St. Lawrence necessary to it. It will be greater for the St. Lawrence route as a whole. The project for the Mohawk route is not sufficiently obvious for comparison, but if a radical solution is adopted the ratio will be about the same. The results will vary on different sections and with difference in treatment.

^{18.} The deepening of channels in open water, when necessary, will be relatively a minor factor. The deepening of the St. Lawrence below Montreal, and of the St. Marys River and the passage between Lakes Huron and Erie, furnish sufficient precedent. The material for the most part yields to ordinary dredging operations, and alternative channels offer special facilities at the most serious rock cuts.

19. The question of depth and width of channels between the several lakes and to the seaboard is solely one of cost. Up to channels sufficient for a draught of 27 or 28 feet, every condition seems to lend itself. Beyond this limit the difficulties rapidly increase, and the proportion of restricted channel will be so large as to make the result of doubtful efficiency. Happily, there does not appear to be any economic reason in sight that seems to require provision for a larger draught.

20. The season of navigation is limited by ice, and this varies greatly in different years. The body of the several lakes is capable of winter navigation, and through navigation would be feasible if intermediate channels could be kept open. The ice

interruption differs for the several routes:-

(a) The ice season for the St. Lawrence between Montreal and the sea is given by the record at Montreal. The average is from December 10 to April 19, a period of 130 days. The closing is due to the freezing of drift and anchor ice accumulations and holds out little hope that the season can be shortened.

(b) The average ice season for the Hudson River at Albany is from Dec mber 22 to March 26, or 94 days. The St. Lawrence-Champlain route is governed by the St. Lawrence at Ogdensburg and Lake St. Francis, which may be taken from December 15 to April 14, or 119 days. The data for Lake Champlain indicate the possibility of shortening this period by ten days to two weeks.

(c) The Mohawk route is governed by Oneida Lake with an average ice period from December 16 to April 7, or 112 days. The rivers are usually free before the lake is

open, and the ice season can probably be shortened.

(d) Whenever Lake Ontario can be reached it will be possible to reach Lake Erie. Lake St. Clair is the controlling point between Lake Erie and Lake Huron, the ice season averaging from December 17 to April 5, or 109 days. The closing is about the same, and the opening about two weeks later than the Detroit River and west Lake Erie points, which are nearly the same as Albany. Whether this period can be abridged or not depends on how far Lake St. Clair is complicated by drift accumulations from Lake Huron. Lake St. Clair corresponds practically to Oneida Lake and the southern end of Lake Champlain, so it is possible to reach Lake Huron whenever it is possible to reach Lake Ontario.

(e) The average ice season in the Straits of Mackinac is from January 6 to April 15, or 99 days. It will thus be seen that through navigation is limited by the closing of Lake St. Clair and the opening of Mackinac, or from December 17 to April 15, a period of 119 days. The Mackinac ice is understood to be largely the accumulated

drift, due to winds on the two lakes.

(f) The ice season of the St. Marys River is from December 8 to April 11, or 124 days, as indicated by the record at the mouth of the river; from December 4 to April 25, or 142 days, as indicated by the opening and closing of the canal, and from December 3 to April 27, or 145 days, as indicated by the record at Sault Ste. Marie, Ontario. The canal record may be taken as the practical limit of ice for the river as a whole. This is over a month earlier and over a week later than at the Straits of Mackinac.

(g) A through route from Lake Michigan will be closed from December 16 to April 15, or 120 days, by the Mohawk route; and from December 15 to April 15, or 121 days, by the St. Lawrence-Champlain route; and from December 10 to April 19, or 130 days, by the St. Lawrence route. From Lake Superior the period is 142 days, closing six days earlier and opening six days later than at Montreal. From Lake Huron the period is

governed by the routes east from Lake Ontario.

(h) Ice boats are now in operation that will break 10 inches of solid ice at 5 miles per hour and claims are made of ability to handle 18 inches. The great car ferries operate across Lake Michigan and even across the Straits of Mackinac at all seasons and are able to break any field ice encounted and plough through several feet of drift ice. It would seem to require no great development of resources to reduce the ice period to 90 or 100 days from Lake Huron by either the Mohawk or Champlain routes, and if Mackinac proves tractable this period will apply to Lake Michigan. It is possible St. Marys River would also yield to proper efforts, but no inducement can be held out for the St. Lawrence between Montreal and Quebec as conditions are now understood,

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unless it be feasible to prevent the actual closing of the river as has been suggested by a commission of engineers. If commercial necessities should ever so demand, means are likely to be found for still shortening the period, and the experience in high latitudes in the north of Europe is not amiss in this connection,

IV. Capacity.

- 21. It is assumed that the character of works is to be adequate to vessels of the most economical type, not only for the coasting or domestic trade, but also for the foreign movement, so that commerce may be carried on directly between lake ports and other domestic and foreign ports without transhipment:—
- (a) Vessels vary in size with the trade in which they are engaged and with the length of route. The ability to obtain cargoes and to deliver them at points capable of distributing or forwarding them promptly, combined with length of route, justifies the largest type of carrier, and these conditions obtain at the great ports only. There are many other ports at which the trade requires a more moderate type of vessel. In this consideration it is assumed that harbours are improved to meet trade requirements, and this has usually followed closely on actual needs.
- (b) The opening up of the lake system to foreign commerce will increase the length of many important trade routes upward of 40 per cent, and will reach directly the producing and consuming interior of the continent, in which, relatively, the largest future growth is to be anticipated. These conditions will make advantageous the largest type of vessel found useful in any trade of the world.
- (c) The present type of lake vessel is of flat bottom and broad beam, and is an outgrowth of the demand for large carriers on the small depth of water through the intermediate channels. The limit of economical carrying capacity seems not to have been reached even on the shore lake routes. The type of vessel is not the most economical to construct and operate, and would doubtless be modified in favour of larger draught were there no limit to the depth of channelways.
 - 22. The requirements as now defined demand a limiting draught of 27 or 28 feet:
- (a) Thirty feet is now recognized as the standard depth for first-class harbour entrances. This is intended to provide some margin of depth, depending on the tide, against pounding the bottom in a seaway.
- (b) The North Sea-Baltic Canal is built with a depth of 29.52 feet (9 meters). The North Sea-Amsterdam has a depth of 27.88 feet, and an eventual depth of 35.5 feet is projected. The Suez was originally constructed for 26.24 feet (8 meters), and is undergoing progressive enlargement and deepening. The Panama project adopted 27.88 and 29.52 feet in different sections, and the Nicaragua project 28 and 30 feet. Corinth and Manchester each has 26 feet. The North Sea-Baltic and the North Sea-Amsterdam may be taken as the latest type, with depths of 29.52 and 27.88 feet, respectively. To float the same boat in fresh water these canals would require to be 30.3 and 28.2 feet in depth, on account of less density.
- (c) In 1886 21.7 per cent of the vessels passing through the Suez Canal exceeded a draught of 22 feet 11 inches (fresh water, 23.5 feet), the limiting draught being 24 feet 7 inches. In 1890, 29.3 per cent exceeded the above, and in 1895, 36.4 per cent. The limiting draught was fixed on April 15, 1890, at 25 feet 7 inches (fresh water 26.3 feet). The proportion of large vessels between a draught (fresh water) of 23.5 and 26.3 feet has rapidly increased until in 1895 it was 36.4 per cent of the number and about 44 per cent of the tonnage, as inferred from the usual proportion between draught and tonnage. Half of this tonnage exceeded a fresh-water draught of 24.5 feet.
- (d) Freight vessels are in commission with a loaded sea draught of 26 to 28 feet equivalent to a fresh-water draught of 26.6 to 28.7 feet.
- 23. Assuming a fresh-water draught of 27 feet, equivalent to a sea draught of 26.3 feet, a good type of boat will have a breadth over all of 60 feet and a length over all of nine times the breadth, or 540 feet, with a cargo capacity of 11,000 to 15,000 net tons.
- (a) Recent lake practice for freight carriers gives a coefficient of displacement of 80 per cent, or the above boat would displace 21,870 net tons. The same practice gives

maximum cargo capacity at 68 to 75 per cent of the displacement. If taken at 70 per cent, the above boat would carry a maximum cargo of 15,309 tons. This type may be taken as the extreme limit.

(b) For general service the coefficient may be taken at 70 per cent and the displacement at 19,140 tons. With more machinery and fuel, the cargo ratio may be taken at 60 per cent, and the cargo capacity at 11,480 net tons.

(c) Some of the latest Atlantic liners have coefficients ranging in the vicinity of 60 per cent. Of twenty-three of these vessels built since 1880, eight exceed the above dimensions either in length or beam. This type is not considered of utility for future lake business.

24. The locks required for the above type of boat are assumed to have a depth of 28 feet on the sills, a breadth of 64 feet, and a net length of 560 feet, with lifts up to 40 feet where permissible:

(a) The above dimensions give a better leeway than with the boats of the Ogdensburg line, which are built for the lock of the Welland Canal, their extreme width being 3 feet less than that of the lock, while their length is but 1 foot less than its net length and their draught is practically the depth on mitre sills.

(b) Each of the several canals can be so designed as to bring the locks in the same locality so as to save delay. The single individual lock is considered better than the fleet lock and can be operated more quickly, and the maximum facilities may be provided

by duplicate locks.

(c) The lift of locks should be made as great as possible where conditions permit, as time is consumed by the number of locks rather than by the lift. It is believed to be practicable to construct quick-acting locks, with girder gates and lifts of 40 feet, and much of the canal work can be better laid out for large lifts.

(d) With the least possible number of locks, quick operation, and provision for the speedy handling of boats into and out of the lock, much of the objection on account of

delays will be obviated.

25. The question of canal prism and channel depth is important, and aside from the question of lockage, the efficiency of works for vessels of the largest class depends thereon:

(a) The subject of ship resistance in restricted channels is a matter requiring comprehensive investigation in view of the proportion of such channels on lake-seaboard routes. In addition to a sufficient ratio of cross section of canal to the midship section of the boat and ample width for two boats to pass, the shape of the section is important. Experience shows that within certain limits and with sufficient width of prism, depth

beneath the boat is essential both to speed and carrying capacity.

(b) As a trial section a minimum prism of 10,000 square feet is suggested, or a ratio 5 6 times that of the lock prism and 6.2 times that of the boat, with a depth of about 20 per cent in excess of lock depth and 25 per cent in excess of draught of boat, say a depth of 33\frac{1}{2} feet and a mean width of 300 feet. In some situations greater depth would be justified at the expense of width, and again other situations might make 30 feet expedient. The general proposition is that when depth is readily obtainable an increase will be advantageous, and this is relatively a small item of cost in the bottom of deep cuttings.

(c) In open water where the depth may be increased at any time, this is a matter of less importance, but depth here will greatly facilitate speed and steering qualities, a matter of importance in channels as crowded as are the intermediate channels of the lakes. On this account and uncertain drifting due to currents and wind, lake interests are asking for widths of 600 feet and more according to locality for submerged channels, and future conditions will doubtless make expedient a width of one fourth mile with

such depth in excess of draught as may be found readily practicable.

(d) Experience in navigating the Welland Canal shows that the bridges and other structures are a source of vexation, requiring great care in navigation. Every obstruction that checks speed involves loss of steering power and is to be avoided so far as may be possible.

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V. Projects.

26. In addition to a project for a navigation of the first class as developed in the preceding sections, a project for navigation of the second class corresponds to present lake development, to much of the coasting trade, and to a vast general commerce with minor ports of moderate harbour depths. It is assumed that such a navigation is satisfied with dimensions in vessels, locks, and canal prisms of three-fourths of those heretofore discussed:

(a) The vessel would have a length over all of 405 feet, a breadth of 45 feet outside, and a draught of 20½ feet, with a displacement of 8,000 to 9,200 net tons, and a cargo capacity of 4,800 to 6,400 tons. The lock dimensions would be 420 feet by 48 feet, with a depth of 21 feet on sills. The minimum canal section would be 5,625 square feet, or a depth of 25 feet and a mean width of 225 feet. The character of work is set

forth in the preceding discussion.

(b) The above dimensions cover the lake fleet, except a few exceptional boats built in the last two years for ore carrying and capable of loading to 20 feet. The largest of these have lengths of 426 to 438 feet, breadths of 45 5 to 48 27 feet, and will carry 6,300 to 6,800 net tons on 19 feet and 500 tons more on 20 feet. The boats for general service are now well inside the dimensions fixed, but no limit can be given for special trades or even the general service, notwithstanding all routes are inside of 1,000 miles. It is to be assumed, however, that there will always be a trade demanding vessels within the limits set.

(c) It will be seen by consulting the several profiles that the limiting depth at standard low water is, for the St. Mary's River, 17.9 feet; Lake St. Clair, 18.8; Lime Kiln Crossing, 19.3 feet, and Niagara River, 17 feet. By raising the level of Lake Erie as heretofore described, over 21 feet would be given from Tonawanda to Lake St. Clair, Lake St. Clair would require another foot and the head of the river at Lake Huron nearly 2 feet. The St. Marys River will require a deepening of over 3 feet. The depth on the floor of the new lock is sufficient if changes can be made so as to utilize the limit, as in the Canadian lock opposite.

(d) The present limit to Lake Superior is 17.9 feet and between the other lakes 18.8 feet. By controlling the level of Lake Erie and by continuing the policy of channel deepening at the other points, the standard of 21 feet may be obtained, and all in line with the policy of ultimate development. The extension of this depth over any route to the seaboard involves no extraordinary works except in the construction of canals. As already set forth, these can be made in essential parts on an ultimate basis

without extraordinary increase in cost.

27. As a measure of early utility and pending the execution of new projects, it might be feasible to so amend the Canadian canal system, now nearing completion, as to be adequate to nearly all the lake fleet as developed up to the recent deepening of main channel.

(a) The Lake Superior trade has developped on a depth of 14.2 feet at standard low water as defined on the lower platform of the lock of 1881, and that of the other lakes on about 14.5 feet. The depths on the sills of the terminal locks of the Welland Canal are 13.7 feet at Lake Erie and 14.3 feet at Lake Ontario, and the canal has been open since the spring of 1887. The St. Lawrence canals now constructing between Prescott and Montreal vary from 14.4 to 16.2 feet on the sills of the several terminal locks.

(b) No sufficient reason appears for the failure to develop a greater trade to Lake Ontario points except the length of the locks, as the upper lake boats had outgrown these before the enlarged canal was opened. The number of locks and the length of time in passage and the lack of an adequate outlet from Lake Ontario may have contributed to the result. The locks are 270 feet long between hollow quoins and 45 feet

wide, with 14 feet on the sills.

(c) The boats of the Ogdensburg line are built to conform to the locks, and are 255 feet in length, or within I foot of the possible limit, 42 feet over all, and carry a cargo of 1,750 net tons, with a depth of 14 feet on mitre sills. With 16 feet the cargo would be increased to 2,200 tons. If the locks had been 125 feet longer the cargo would be

3.600 tons, or more than double the present limit, and this is about the limit of the general service boat on the lakes until recently, and represents a very large fleet

running in various lines.

(d) To raise the level of Lake Erie as already suggested provides 16 feet in the summit level of the Welland. Some of the terminal locks require no change and others may be increased, while a few will need alteration or rebuilding. To raise intermediate levels and locks walls and to lengthen the locks to 395 feet may not be practicable. The ease and cheapness with which this could originally have been done, considering its value, encourages the hope that it may still be feasible to amend the work in progress and completed. A St. Lawrence-Champlain canal could thus furnish an early and valuable service to New England points.

28. The project outlined contemplates a first-class navigation for the largest type of ocean carrier now in use and also a navigation of the second class adapted to the present interlake trade, to coasting, and to the secondary foreign movement. The several considerations advanced are designed to determine a policy in accordance with which all schemes of work may be projected to some consistent and ultimate end that

shall comprehend the greatest possible utility:

(a) It is conceived that with the progressive improvement of intermediate channels some of the capital works will be undertaken and that the development will be in the direction of extending the area of lake navigation as securing the largest immediate benefit from the investment. It is believed that this may be done in harmony with the ultimate policy without undue increase in cost. In other words, the Niagara Ship Canal could be built on the ultimate design, but deferring such work as can be developed progressively or built as required without detriment to the final plan. How far this may be feasible in respect to this and other works can only be told as a final project is matured from detailed information.

(b) These remarks apply to other capital works and also to the question of expediency involved in the improvement suggested for the present Canadian canal system and in that connection the immediate carrying out of the section of work between Lake

St. Francis and Lake Champlain.

(c) The scheme of work is based on locks in two sizes and adapted to a navigation of the first and second class. At an early day after the completion of the work as a whole each of these types will require duplication, and before the movement has reached the proportions of that now existing through the Detroit River. It is not assumed that these types will exhaust the requirements. There are vessels in service in the merchant marine and in the Navy, sidewheel boats on rivers and sounds and tows for which a fleet lock may eventually be expedient. It is assumed, however, that the towing practice in certain trades on the lakes is simply the natural outgrowth of the economy of large carrying which must conform to limited depths and is in itself an argument for greater depths and the higher economy of the single hull. development of these greater depths the fleet tendency is likely to diminish.

29. The control of the level of Lake Erie is desirable if it can be accomplished by works in the vicinity of Tonawanda and on the opposite side of Grand Island, not only as an improvement of the rock channel near the mouth of the Detroit River, but especially as a measure of radical improvement for the Niagara River, and a contribution to the Niagara Ship Canal. It is believed to be justified solely in connection with

the passage from Lake Erie to Lake Ontario:

(a) It has been suggested that standard low water on Lake Erie should be raised 2.28 feet. This figure is taken arbitrarily as corresponding to 16 feet in the Welland Canal, and is well within the limits of high water, so no extraordinary question of damages is involved, but otherwise is not necessarily a measure of what can or may be With due allowance for the slope in the Niagara River, the water at wisely done. Tonawanda would be raised 7 to 8 feet above standard low water.

(b) To accomplish the above result would require a material improvement in the throat at Black Rock and a deepening of 5 to 6 miles of river and entrance in order to secure 30 to 33 feet of water. The summit level of the canal between Tonawanda and

the mountain ridge near Lockport would be materially reduced in excavation.

- (c) The general route for the canal as proposed in 1889 seems preferable to any other, with a possible modification in favour of a location along the general course of Tonawanda Creek and the Erie Canal between the Niagara River and the "gorge" at Lockport. No other route that has been surveyed from Niagara River to a lower point has equal availability on account of the continuous rock bed and limited depth below Tonawanda and the impracticability of farther down-stream extension of the Lake Erie level.
- (d) Most careful surveys and studies will be required to determine the actual practicability of the solution herein suggested. It is obviously desirable, and it is believed on superficial examination that it will be found within the domain of feasibility.

30. No experimental work is involved in the development of any useful depth

through the intermediate channels of the upper lakes :-

- (a) In a route of over 900 miles between Chicago and Buffalo the obstructions to a depth of 30 to 33 feet are about 44 miles, or about the same as the improved St. Lawrence below Montreal on a depth of 27.2 feet. Of this, 18 miles are through Lake St. Clair, which is understood for the most part to be of the easiest class of dredging and not more difficult than was Lake St. Peter on the St. Lawrence. Ten to 11 miles are near the mouth of the Detroit River and in part is known to be rock. Methods for this work have been developed. If these are too tedious and expensive, it will be feasible to unwater the American channel and execute the work more quickly and satisfactorily and at less probable cost. The remaining 15 miles are scattered shoal stretches which are not known to involve any special difficulties.
- (b) The route into Lake Superior through the St. Marys River involves some 27 miles of deepening aside from the canal. Portions of this are known to be a friable and laminated sandstone, which in part yields to dredging, and it is probable that machines would be devised to handle it efficiently if a radical improvement warranting the same were to be undertaken.
- 31. Eastward from Lake Ontario, the data are in part suggestive only, yet certain features are obvious and no extraordinary conditions are involved except in the magnitude of the works:—
- (a) The same dredging fleet that has through a series of years deepened the St. Lawrence below Montreal to 27.2 feet has only to continue in service as it is now doing to produce 30 and 33 feet. The improvement of Lake St. Louis and Lake St. Francis is the continuation of work of a different character, but of much less extent. The improvement of the shallows of Lake Champlain is believed to be less difficult, as the material in large part is probably alluvial. No reason appears why the Hudson River below the State dam at Troy should be more difficult as a whole than that of the St. Lawrence, and the extent of work is much less.
- (b) The American shore along the rapids of the St. Lawrence between Ogdensburg and St. Régis seems to be most available for a ship canal of the first class, and it is anticipated that a full survey will develop special adaptation. Between Lake St. Francis and Lake Champlain, the southern route explored by Mr. Barstow seems to have advantages in being some 26 miles shorter than any other and with that much less of shoal water. Detailed surveys will be required to develop its merits. A ship canal from Lake Champlain to tidewater of the Hudson involves a formidable cutting and the damming of the valley above Waterford. Aside from its magnitude there does not appear any obstacles of moment, and the seriousness of the great cuttings, which has grown less formidable in the last few years, may greatly diminish on final study with a view to practical work.
- (c) Little further can be mentioned in regard to the Mohawk route. The divide west of Little Falls is a filled in valley, and this discovery promise a better condition than heretofore assumed. The knowledge brought together in this investigation has developed a more favourable opinion respecting this line, but the best treatment is not yet obvious, and conclusions must await the test of final surveys and a matured project.

VI. Miscellaneous.

32. The ice record is incomplete and general deductions are not warranted. records that have been continued for fifty to eighty years fail to disclose any systematic change such as would follow a change of climate, and it appears that the average ice season for any twenty years may be taken substantially as the average for any other twenty years or for any longer period. There seems to be quite a systematic and uniform increase in duration with latitude from 37 degrees north to the Canadian highlands, north of which the increase is slower. The course of rivers and streams and the character of the body of water are also influential. The normal variations have not been worked out.

These records fail to show 33. The record of lake fluctuations is also incomplete. any change such as might be due to a change in precipitation and rainfall and the inhabitation of the watershed. It appears that the first half of the century had greater extremes of both high and low water than the last half in the region of the three upper lakes, while no special difference appears in the region of the lower lakes and the St. Lawrence. From 1815 to 1830 there appears to have been lower water in all the lakes than the period now passing, except Lake Champlain, which has had the lowest and highest water of seventy years within the last thirty. Conditions do not seem to be normally similar in all the lakes, and it is rare that all co-operate in a low or high water,

which fact tends to equalize conditions.

34. No effects on levels have appeared from the progressive deepening of channels except at Montreal, where the water has been lowered locally by a foot or more, and this is obviously due to special conditions in the vicinity. Special study has not been given this matter, however, but it is anticipated that the radical improvement of the passage between Lake Huron and Lake Erie will produce a sensible effect on the level of Lake Huron-Michigan. As most of this effect will occur in the delta of the St. Clair and in the lower reach of Detroit River, it may be largely masked by the raising of the The improvement of the St. Mary's River may have lowered the level of Lake Erie. water at the locks, and this effect may be anticipated from further enlargement. radical project herein considered will bring the level at the locks well down toward the level of Lake Huron.

35. The raising of Lake Erie by 2.28 feet will raise the level of Lake St. Clair by about 1 foot, so far as can be inferred from a study of gauge relations, and the effect would disappear at the head of the St. Clair delta. The investigation has, however, not been sufficient for a final determination so as to conclude the matter. No sufficient reason has appeared for the control of the level of the lakes other than Erie, and this is

justified in large part in connection with the Niagara Ship Canal.

36. It may be said in regard to future works of navigation that experience in the last few years in this country and Europe has been revolutionary in the development of appliances and the methods for handling large cuttings, and these can now be undertaken with confidence both as regards cost and time of completion; and, further, that canals in rock cuttings can be so planned as to cost but little more per mile than in the kind of drift so common to canal locations. Further advances in earth removal are to be anticipated in some favourable situations. In underwater work the advance has been notable, and much is yet to be anticipated from the further development of hydraulic dredging. Machines are also in operation capable of handling many kinds of friable and stratified rock. In construction, a desirable advance has been made in the direction of monolithic masonry, which is cheaper and much superior for much of the work in question, and most anything may be attempted in the way of metals. While recent developments have furnished tried resources for every problem, the next series of great works is likely to produce further advances, so that no doubt need exist on the practical side in execution.

The mistakes, if any, are likely to occur from not having considered sufficiently all elements of the problem, and in works of such extraordinary magnitude an error involves a cost in comparison with which any mere cost of proper data and consideration thereof

is a vanishing quantity.

CONCLUSIONS.

After considering this question in its various aspects, we conclude-

First. That it is entirely feasible to construct such canals and develop such channels as will be adequate to any scale of navigation that may be desired between the several Great Lakes and to the seabord, and to conduct through the same domestic and foreign commerce, and that, in our opinion, it will be wise to provide for securing a channel of a navigable depth of not less than 28 feet.

Second. That starting from the heads of Lakes Michigan and Superior, the most eligible route is through the several Great Lakes and their intermediate channels and the proposed Niagara ship canal (Tonawanda to Olcott) to Lake Erie; and that the Canadian seaboard may be reached from Lake Ontario by the way of the St. Lawrence River, and the American seaboard may be reached from Lake Ontario by way of the St. Lawrence River and Lake Champlain and the Hudson River, or by way of the Oswego-Oneida-Mohawk Valley and the Hudson River.

That the alternative routes from Lake Ontario to the Hudson River require complete surveys and a full development of economic considerations to determine their relative availability.

That a moderate control of the level of Lake Erie and of the Niagara River above Tonawanda may be justified in connection with the Niagara ship canal, the determination in this matter to rest on a full examination of the physical conditions.

That the policy should contemplate the ultimate development of the largest useful capacity, and that all works should be planned on this basis, and that the actual execution should conform thereto, except in so far as the works may, without prejudice, be progressively developed with the actual demands of commerce.

Sixth. That it is practicable to develop the work in separate sections and the several sections in part by degrees, each step having its economic justification, so that benefits shall follow closely on expenditure, without awaiting the completion of the system as a whole.

Seventh. That the completion of the entire system as quickly as proper projects

can be matured and economically executed is fully justified.

Eighth. That the Niagara ship canal should be first undertaken, and incidentally the broadening and further deepening of the intermediate channels of the lakes, the same being in the logical order of development, and also requiring the least time for consideration.

As callateral to the main questions, and in view of the magnitude of the interests involved, the exhaustive consideration of all physical conditions that may determine the effects of proposed works or influence the character or features of a design should be concluded, but this need not delay the inception of plans or the beginning of work, but is likely to bear upon the manner of their completion. It is usually practicable to supply sufficient elasticity in design to meet any margin of uncertainty involved in these considerations.

In view of the international character and relation of a part at least of the works that will be required and of riparian interests involved, it seems expedient to make the examinations and projects and carry on the works through a commission that may be possessed with certain limited international functions.

Specifically, the matters which call for early action may be epitomized as follows:

RECOMMENDATIONS.

- I. That complete surveys and examinations be made and all needful data to mature projects be procured for-
 - (a) Controlling the level of Lake Erie and projecting the Niagara ship canal.
 - (b) Developing the Oswego-Oneida-Mohawk route.
 - (c) Developing the St. Lawrence-Champlain route.
 - (d) Improving the tidal Hudson River.
 - (e) Improving intermediate channels of the lakes.

II. That the collecting and reducing of existing information, supplemented by reconnaissances and special investigations, be continued until the general questions have been fully covered.

III. That a systematic measurement of the outflow of the several lakes and a final

determination of their levels shall be undertaken.

IV. The complete surveys and investigations, with measurements of the outflow of the several lakes and full investigation of collateral questions, will cost not less than

\$600,000 and require some years of time.

It is possible that the measurement of the outflow of the lakes and the final levels can be as well done through some other agency, and this item may be taken at \$250,000, to be expended through a series of years, and this should be at once undertaken on account of the prevailing low water of the lake system, which can not be expected to continue.

The specific surveys and investigations are in themselves estimated at \$350,000 and will take two or three years, and of this not less than \$150,000 should be appropriated the first year, along with such additional sum as may be required for measuring the outflow of the lakes, of which \$100,000 should be made available during the first year.

Respectfully submitted.

James B. Angell. John E. Russell. Lyman E. Cooley.

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