Technical and Bibliographic Notes / Notes techniques et bibliographiques

The Institute has attempted to obtain the best original copy available for scanning. Features of this copy which may be bibliographically unique, which may alter any of the images in the reproduction, or which may significantly change the usual method of scanning are checked below.

L'Institut a numérisé le meilleur exemplaire qu'il lui a été possible de se procurer. Les détails de cet exemplaire qui sont peut-être uniques du point de vue bibliographique, qui peuvent modifier une image reproduite, ou qui peuvent exiger une modification dans la méthode normale de numérisation sont indiqués ci-dessous.

	Coloured covers / Couverture de couleur			Coloured pages / Pages de couleur	
	Covers damaged / Couverture endommagée			Pages damaged / Pages endommagées	
	Covers restored and/or laminated / Couverture restaurée et/ou pelliculée			Pages restored and/or laminated / Pages restaurées et/ou pelliculées	
	Cover title missing / Le titre de couverture manque			Pages discoloured, stained or foxed/ Pages décolorées, tachetées ou piquées	
	Coloured maps /			Pages detached / Pages détachées	
	Cartes géographiques en couleur			Showthrough / Transparence	
	Coloured ink (i.e. other than blue or be Encre de couleur (i.e. autre que bleue			Quality of print varies / Qualité inégale de l'impression	
	Coloured plates and/or illustrations / Planches et/ou illustrations en couleu	ır		Includes supplementary materials / Comprend du matériel supplémentaire	
	Bound with other material / Relié avec d'autres documents		L	Compreha da materiel supplementaire	
	Only edition available / Seule édition disponible			Blank leaves added during restorations may appear within the text. Whenever possible, these have been omitted from scanning / II se peut que	
	Tight binding may cause shadows or along interior margin / La reliure serre causer de l'ombre ou de la distorsion marge intérieure.	ée peut		certaines pages blanches ajoutées lors d'une restauration apparaissent dans le texte, mais, lorsque cela était possible, ces pages n'ont pas été numérisées.	
/					
V	Additional comments / Commentaires supplémentaires:	Various pagings.			
		Sessional paper No. 9, Annual report of the Department of Railways 30^{th} June, 1892 starts at page v.			
		In Sessional paper page 134.	No. 9, A	Appendix No. 12, page 143 is incorrectly numbered	
		In Sessional paper starts at page [iii].	r N o. 9A,	Canal statistics for season of navigation 1892	
		In Sessional paper 39 is incorrectly nu		Reports. Railways statistics of Canada, page page 9.	

SESSIONAL PAPERS

8-96

VOLUME 6

THIRD SESSION OF THE SEVENTH PARLIAMENT

OF THE

DOMINION OF CANADA

SESSION 1893



☑ See also Numerical List, page 3.

ALPHABETICAL INDEX

TO THE

SESSIONAL PAPERS

OF THE

PARLIAMENT OF CANADA

THIRD SESSION, SEVENTH PARLIAMENT, 1893

NOTE.—In order to find quickly whether a paper has been printed or not, the mark (n.p.) has been inserted when not printed; papers not so marked, it may be understood, are printed. Further information concerning each paper is to be found in the List, commencing on page 3.

A	· · · · · · · · · · · · · · · · · · ·
Adulteration of Food	Commander's Certificate, Fishery Protection
Agriculture, Annual Report 7	(n.p.)
Archives, Canadian 7a	Commercial Relations, Canada 2
Auditor-General, Annual Report 1	Commissions to Public Officers
R	Conference at Washington 52
-	Conference, Canada and Newfoundland 20e
Banks, Chartered 3	Cosgrove, John J(n.p.) 21
Banks, Unclaimed Balances in 3a	Criminal Statistics
Baptisms, Marriages and Burials(n.p.) 75	Culverts on Railways (n.p.) 61
Beet-root Sugar	Customs Department (n.p.) 41
Bonds and Securities(n.p.) 36	Custom-house, Montreal(n.p.) 77
Bonne Espérance, Fishery Officer for (n.p.) 20h	D
Boundaries of Quebec	Dividends, Unpaid in Banks
Bounties, Fishing (n.p.) 20, 20a, 20b, 20k	Dominion Lands
Bridge Across the Richelieu River (n.p.) 44	16
British Canadian Loan and Investment Co.(n.p.) 55	Ellis, Wm (n.p.) 76
British Columbia Fishery Commission 10c	English Financial Agents (n.p.) 53
British Columbia Quarantine Station (n.p.) 68	Esquimalt, Defences of 32
C	Estimates 2
Canadian Cattle, Scheduling of 50	Exchequer Court, Rules 25
Canadian Fishermen, Treatment endured by	Excise, etc
(n.p.) 20j	Expenses, Unforeseen(n.p.) 23
Canadian Pacific Railway	Experimental Farms, Annual Report 70
Canadian Pacific Railway, Lands sold by 30a	Experimental Farms, Reports(n.p.) 40
Canal Statistics	Exports and Imports(n.p.) 64
Caron, Sir A. P., Charges against	I F
Census of Canada, 1890-91Vol. A.	Financial Agents of Canada (n.p.) 53
Census of Canada, 1890-91(n.p.) 46, 46a	Fisheries Statements and Inspectors' Reports. 10
Central Ontario Railway Co	Fishery Commission, British Columbia 10
Chartered Banks	Fishery Officer for Bonne Espérance(n.p.) 201
Cheese	Fishery Overseers (n.p.) 20/
Cholera, Prevention of (n.p.) 65	Fishery Protection, Commander's Certificate
Civil Service Board of Examiners	(n.p.) 20
Civil Service Examination	Fishing Bounties(n.p.) 20, 20a, 20b, 20
Civil Service List	Fishing Licenses (n.p.) 54
Civil Service, Superannuations 28	Food, Adulteration of 68
4	French Treaty

G		N	
Geological Survey Report	13a	Newfoundland Fishermen(n.p.)	2 0 j
Governor-General			15
	22	Notre Dame du Rosaire Post Office (n.p.)	59
н	1	•	
	18	Oyster Fisheries of Canada	106
	59a	P	
	17	-	
Horses, Trade in	2d	P. E. I. Tunnel(n.p.)	58
		Pig Iron	
I		Prosser, Wm(n.p.)	12 20 c
	64	Public Accounts, Annual Report	200
Indian Imano, III and Indian	14	Public Officers' Commissions	31
Inland Revenue, Annual Report	6	Public Printing and Stationery	16d
Insurance, Annual Report	4	Public Works, Annual Report	8
Insurance Companies	40	0	
Intercolonial Railway:	26	•	
	26a	"Quadra," Steamer	74
Working Zaponass	266	Quarantine Station, British Columbia(n.p.) Quebec, Boundaries of	68 43
100101140111111111111111111111111111111	26c	Quebec Oriental Railway (n.p.)	45
	26d		10
	13	R	
		Railway Culverts (n.p.)	61
J ,		Railways and Canals, Annual Report	9
Justice, Annual Report	18	Railway Statistics.	96
K		Receipts and Payments(n.p.) 24, 24a, 24b, 24c,	
Kingston Penitentiary (n.p.)	38	Richelieu River, Bridge across the(n.p.) Rouleau, F. F	90-
		Royal Commission, Liquor Traffic(n.p.)	20g 67
L		Royal Commission, Sir A. P. Caron	27
Labelle, Charles Living	60	Rules, Exchequer Court	25
	29	8	
The state of the s	21a		~~
Library of Parliament, Annual Report	17 54	Scheduling of Canadian Cattle Secretary of State, Annual Report	50
Licenses to U. S. Fishing Vessels (n.p.) Lobster Industry	10d	Small-pox in British Columbia	16
Lurcher Shoal(n.p.)	72	Soulanges Canal (n.p.)	56 42
Lurcher Shoat		Steam-boat Inspection	11
M		St. Sébastien Post Office (n.p.)	59b
Manitoba School Acts33, 33a, 33b, 33c,	33d	Superannuations, Civil Service.,	28
Marine and Fisheries, Annual Report	10 .	Supplementary Estimates	2
Militia and Defence, Annual Report	19	T	
Militia, Establishment Lists	19a	Telegraphic System of the Empire	35
Mines and Minerals.	63 23	Trade and Navigation, Annual Report	5
Miscellaneous Unforeseen Expenses(n.p.) Montreal Custom-house(n.p.)	23 77	Trade and Trade Openings	2
Mounted Police, Annual Report		Trades Unions(n.p.)	57
Murphy, O. E(n.p.)	66	Treaty with France 51, 51a, 51b	, 51 0
Murphy, O. 12		Trudeau, T (n.p.)	28 a
Me		Tunnel between P.E.I. and Mainland(n.p.)	58
McDougall, Lauchlin (n.p.)	73	U	
McGreevy, R. H (n.p.)	66	Unforeseen Expenses, Miscellaneous (n.p.)	23
McIntyre, Postmaster (n.p.)	21	w	
McNamee & Co (n.p.)	71		00
N		Warrants, Governor-General's Washington Conference	22 52
Newfoundland and Canada, Conference	20d	Weights, Measures and Gas	60
Newfoundland and Canadian Trade	20 <i>t</i>	Welland Canal	
Newfoundland Bait Act	20 e	Wetmore, Justice, Report of	

See also Alphabetical Index, page 1.

LIST OF SESSIONAL PAPERS

Arranged in Numerical Order, with their Titles at full length; the Dates when Ordered and when Presented to both Houses of Parliament; the Name of the Member who moved for each Sessional Paper, and whether it is ordered to be Printed or Not Printed.

CONTENTS OF VOLUME A.

CONTENTS OF VOLUME 1.

Report of the Auditor General on Appropriation Accounts for the year ended 30th June, 1892. Presented 27th January, 1893, by Hon. G. E. Foster.

Printed for both distribution and sessional papers.

CONTENTS OF VOLUME 2.

- Public Accounts of Canada for the fiscal year ended 30th June, 1892. Presented 27th January, 1893, by Hon. G. E. Foster. 2a. Estimates for the year ending 30th June, 1894; presented 30th January, 1893. 2b. Supplementary Estimates for the financial year ending 30th June, 1893; presented 17th February, 1893. 2-1b*. Further Supplementary Estimates for the year ending 30th June, 1893; presented 16th March, 1893. 2c. Supplementary Estimates for the year ending 30th June, 1894; presented 27th March, 1893. ... Printed for both distribution and sessional papers.

- List of Shareholders in the Chartered Banks of Canada, as on the 31st December, 1892. Presented
 24th March, 1893, by Hon. G. E. Foster.......Printed for both distribution and sessional papers.

CONTENTS OF VOLUME 3.

- 8a. Report of dividends remaining unpaid and amounts, or balances, in respect to which no transactions have taken place, or upon which fio interest has been paid for five years or upwards prior to 31st December, 1892, in chartered banks of Canada......Printed for both distribution and sessional papers.
- Report of the Superintendent of Insurance for the year ending 31st December, 1892.
 Printed for both distribution and sessional papers.
- 4a. Preliminary abstract of the business of the Canadian Life Insurance Companies for the year ending
 31st December, 1892. Presented 20th February, 1893, by Hon. G. E. Foster.

Printed for both distribution and sessional papers.

4b. Abstract of statements of Insurance Companies in Canada for the year ending 31st December, 1892.

Printed for both distribution and sessional papers.

CONTENTS OF VOLUME 4.

- Tables of the Trade and Navigation of Canada for the fiscal year ended 30th June, 1892. Presented 27th January, 1893, by Mr. Wood (Brockville.). Printed for both distribution and sessional papers.
- Inland Revenues of Canada. Part I., Excise, &c., for the fiscal year ended 30th June, 1892. Presented 26th January, 1893, by Mr. Wood, (Brockville). Printed for both distribution and sessional papers.
- 6b. Inland Revenues of Canada. Part III., Adulteration of Food, for the fiscal year ended 30th June, 1892. Presented 27th January, 1893, by Mr. Wood (Brockville).

Printed for both distribution and sessional papers.

CONTENTS OF VOLUME 5.

CONTENTS OF VOLUME 6.

- Annual Report of the Minister of Public Works, for the fiscal year ended 30th June, 1892. Presented 20th February, 1893, by Hon. J. A. Ouimet. ... Printed for both distribution and sessional papers.
- Annual Report of the Minister of Railways and Canals, for the past fiscal year, from the 1st July, 1891, to the 30th June, 1892. Presented 10th February, 1893, by Hon. J. G. Haggart.

Printed for both distribution and sessional papers.

- 9a. Canal Statistics for Season of Navigation, 1892. Presented 10th February, 1893, by Hon. J. G. Haggart.
 Printed for both distribution and sessional papers.
- 9b. Railway Statistics, and Capital, Traffic and Working Expenditure of the Railways of Canada, for 1892. Presented 29th March, 1893, by Hon. J. G. Haggart.

Printed for both distribution and sessional papers.

CONTENTS OF VOLUME 7.

Annual Report of the Department of Marine and Fisheries for the fiscal year ended 30th June, 1892.
 Presented 27th January, 1893, by Hon. J. Costigan.

Printed for both distribution and sessional papers.

10a. Fisheries Statements and Inspectors' Reports for the year 1892.

Printed for both distribution and sessional papers.

- 10b. Report on the Oyster Fisheries of Canada, 1892. Presented 30th January, 1893, by Hon. J. Costigan.

 Printed for both distribution and sessional papers.
- 10c. Report of British Columbia Fishery Commission, 1892.

Printed for both distribution and sessional papers.

10d. Report on the Lobster Industry of Canada, 1892... Printed for both distribution and sessional papers.

CONTENTS OF VOLUME 8.

- 12. Report of the Postmaster-General of Canada for the fiscal year ended 30th June, 1892. Presented 3rd February, 1893, by Sir A. P. Caron Printed for both distribution and sessional papers.
- 18a. Summary Report of the Geological Survey Department for the year ended 1892.

Printed for both distribution and sessional papers.

CONTENTS OF VOLUME 9.

- 14. Annual Report of the Department of Indian Affairs for the year ended 31st December, 1892. Presented 7th March, 1893, by Hon. T. M. Daly Printed for both distribution and sessional papers.

- 16a. Civil Service List of Canada, 1892. Presented 9th February, 1893, by Hon. J. Costigan.

Printed for both distribution and sessional papers.

16b. Report of the Board of Civil Service Examiners, for the year ended 31st December, 1892. Presented 29th March, 1893, by Hon. J. C. Patterson.

Printed for both distribution and sessional papers.

16d. Annual Report of the Department of Public Printing and Stationery of Canada, for the year ended 30th June, 1892, with a partial report for services during six months ending 31st December, 1892. Presented 28th February, 1893, by Hon. J. Costigan.

Printed for both distribution and sessional papers.

CONTENTS OF VOLUME 10.

Report of the Minister of Justice as to Penitentiaries in Canada, for the year ended 30th June, 1892.
 Presented 27th January, 1893, by Sir John Thompson.

Printed for both distribution and sessional papers

 Annual Report of the Department of Militia and Defence of Canada, for the half-year ended 30th June, 1892. Presented 31st January, 1893, by Hon. J. C. Patterson.

Printed for both distribution and sessional papers.

- **20**b. Statement in reference to fishing bounty payments for 1891-92, required by chapter 96 of the Revised Statutes of Canada. Presented 6th February, 1893, by Hon. J. Costigan............ Not printed.
- 20d. Copy of the proceedings of the conference recently held at Halifax between delegates from the governments of Canada and Newfoundland upon the fishery question and other questions between the two governments. Presented 8th February, 1893, by Sir John Thompson.

- 30f. Further papers respecting the several questions at issue between the dominion of Canada and the colony of Newfoundland. Presented 13th March, 1893, by Hon. G. E. Foster.

Printed for sessional papers only.

20g. Return to an address of the House of Commons to his excellency the Governor-General, dated 27th July, 1891, for copies of all documents, petitions and letters in relation to the fishing rights of F. F. Rouleau, Esq., advocate, of Rimouski, which said rights he and his predecessors have always exercised on his property at Rimouski. Presented 13th March, 1893.—Mr. Choquette.

Not printed.

- 20k. Return to an order of the House of Commons, dated 20th March, 1893, for: 1. Copies of instructions issued to the fishery overseers of Berthier, Maskinongé, St. Maurice, Champlain, Nicolet, Yamaska and Richelieu, since 1st January, 1892, and of all correspondence on the subject between the Government and the said fishery overseers; or between the government and any other persons from 1st January, 1892, up to this date, in relation to such instructions and the enforcement therefor. 2. A statement of fishing licenses issued in the counties aforesaid during the years 1891 and 1892, separately. 3. A statement of the quantity and value of the various kinds of fish taken in the said counties—separately—during the years 1891 and 1892. Presented 30th March, 1893.—Mr.

 Bruneau. Not printed.

- 21a. Return to an order of the House of Commons, dated 20th February, 1893, for copies of all letters, correspondence, petitions and other documents received and exchanged by the government, respecting the dismissal of Edouard Lesage, postmaster of St. Léon, in the county of Maskinongé, and to any appointment or appointments made to the position since the discharge of the said official. Presented 16th March, 1893.—Mr. Legris.
 Not printed.

VOLUME 10—Concluded.

- 25. Rules of the Exchequer Court of Canada in respect to any proceeding that may be had or taken in the Exchequer Court of Canada to impeach any patent issued under "The Patent Act." Presented 27th January, 1893, by Hon. J. Costigan Printed for sessional papers only.
- 26a. Return to an order of the House of Commons, dated 6th February, 1893, for a statement of the working expenses of the Intercolonial Railway for the year 1890-91 and also for the year 1891-92, and from the 1st July, 1892, to the 31st December, inclusive, under the following headings, viz. —

 Locomotive power, car expenses, maintenance of way and works, station expenses, general charges, car mileage. Presented 27th February, 1893.—Sir Hector Langevin.

Printed for distribution only.

26b. Return to an order of the House of Commons, dated 6th February, 1893, for a statement showing the revenue of the Intercolonial Railway for the years 1890-91 and 1891-92, and from the 1st July, 1892, to the 31st December, inclusive, under the following headings, viz.:—Passengers, freight, mails and sundries; giving also the number of passengers and the number of tons of freight carried in each of the above named years. Presented 27th February, 1893.—Sir Hector Langevin.

Printed for distribution only.

- 27. Copy of the Report of the Commissioners appointed by Royal Commission to take evidence as to the truth or falsity of certain charges made against Sir Adolphe P. Caron, member of the House of Commons and of the Queen's Privy Council for Canada, with copies of the evidence and exhibits thereto pertaining. Presented 6th February, 1893, by Sir John Thompson.

CONTENTS OF VOLUME 11.

28. Statement of all superannuations and retiring allowances in the civil service, giving the name and rank of each person superannuated or retired, his salary, age and length of service; his allowance and cause of retirement, whether vacancy has been filled by promotion or new appointment, etc., for year ended 31st December, 1892. Presented 7th February, 1893, by Hon. G. E. Foster.

Printed for sessional papers only.

- 80α. List of all lands sold by the Canadian Pacific Railway Company from the 1st October, 1891, to the 1st October last. Presented 9th February, 1893, by Hon. T. M. Daly.

Printed for sessional papers only.

81. List of public officers to whom commissions have issued under chapter 19 of the Revised Statutes of Canada, during the past year, 1892. Presented 9th February, 1893, by Hon. J. Costigan.

Printed in No. 16.

- 82. Return to an address of the House of Commons to his excellency the Governor-General, dated 17th March, 1892, for copy of all correspondence between the imperial government and the Canadian government concerning the defences of Esquimalt. Presented 10th February, 1893.—Mr. Laurier.

 Printed for sessional papers only.
- 83. Return to an address of the House of Commons to his excellency the Governor-General, dated 6th February, 1893, for copy of all petitions, memorials, appeals, and of any other documents addressed to his excellency in council, since the 15th March, 1892, relating to the Manitoba School Acts of 1890 and to section 22 of the "Manitoba Act" and section 93 of the "British North America Act." Also copy of all reports to and of all orders in council in reference to the same. Also copies of all correspondence in connection therewith. Presented 10th February, 1893.—Mr. La Rivière.

Printed for both distribution and sessional papers.

- 88a. Return to an address of the House of Commons to his excellency the Governor-General, dated 6th February, 1893, for a copy of the judgment of the judicial committee of her majesty's privy council in the appealed case of Barrett vs. the City of Winnipeg, commonly known as the "Manitoba School Case." Also copy of factums, reports and other documents in connection therewith. Presented 14th February, 1893.—Mr. La Rivière..... Printed for both distribution and sessional papers.
- 33b. Further return to an address of the House of Commons to his excellency the Governor-General, dated 6th February, 1893, for a copy of the judgment of the judicial committee of her majesty's privy council in the appealed case of Barrett vs. the City of Winnipeg, commonly known as the "Manitoba School Case." Also copy of factums, reports and other documents in connection therewith. Presented 20th February, 1893.—Mr. La Rivière.

Printed for both distribution and sessional papers.

- 83c. Supplementary return to an address of the House of Commons to his excellency the Governor-General, dated 6th February, 1893, on the subject of the Manitoba School Acts of 1890, with a certified copy of a report of a committee of the honourable the privy council, approved by his excellency the Governor-General in council on 22nd February, 1893, relative to the settlement of important questions of law concerning certain statutes of the province of Manitoba relating to education Presented 1st March, 1893.—Mr. LaRivière.... Printed for both distribution and sessional papers.
- 88d. Partial return to an address of the Senate to his excellency the Governor-General, dated 3rd February, 1893, for: 1. A copy of the deliberations, resolutions and ordinances of the former council of Assiniboia, relating to educational matters within its jurisdiction as it existed on the banks of

the Red River before the creation of the province of Manitoba. 2. A statement of the amounts paid by the said council of Assiniboia for the maintenance of schools, showing the persons to whom such payments were made, the schools for which such amounts were paid, and the religious denomination to which such schools belonged. 3. A statement of the amounts paid by the Hudson's Bay Company or by its agents, to the schools then existing in the territories forming to-day the province of Manitoba. 4. A copy of all memoranda and instructions serving as basis for the negotiations as a result of which Manitoba became one of the provinces of the confederation; together with a copy of the minutes of the deliberations of the persons charged, on both parts, to settle the conditions of the creation of the province of Manitoba and of its entrance into the confederation; and also a copy of all memoranda, returns and orders in council, establishing such conditions of entrance, or serving as a basis for the preparation of "The Manitoba Act." 5. A copy of the despatches and instructions from the imperial government to the government of Canada on the subject of the entrance of the province of Manitoba into the confederation, comprising therein the recommendations of the imperial government concerning the rights and privileges of the population of the territories, and the guarantees of protection to be accorded to the acquired rights, to the property, to the customs and to the institutions of that population by the government of Canada, in the settlement of the difficulties which marked that period of the history of the Canadian west. 6. A copy of the acts passed by the legislature of Manitoba relating to education in that province, and especially of the first act passed on this subject after the entrance of the said province of Manitoba into the confederation, and of the laws existing upon the same subject in the said province immediately before the passing of the acts of 1890, relating to the public schools and relating to the department of education. 7. A copy of all regulations with respect to schools passed by the government of Manitoba or by the advisory board in virtue of the laws passed in 1890, by the legislature of Manitoba, relating to public schools and the department of education. 8. A copy of all correspondence, petitions, memoranda, resolutions, briefs, factums, judgments (as well of first instance as in all stages of appeal), relating to the school laws of the said province of Manitoba, since the 1st June, 1890, or to the claims of catholics on this subject; and also a copy of all reports to the privy council and of all orders in council relating to the same subject since the same date. Presented 30th March, 1893.—Hon. Mr. Bernier.

Printed for both distribution and sessional papers.

84. Return to an order of the House of Commons, dated 13th April, 1892, for copies of the instructions issued to Prof. Saunders when he was directed to inquire into the question of the growing of sugar-beet and the manufacture of beet-root sugar in Canada, or since that date up to the time when his report was laid before this House. Presented 10th February, 1893—Mr. Beausoleil.

Not printed.

- 85. Return to an Address of the House of Commons to his excellency the Governor-General, dated 6th February, 1893, for all correspondence, documents, reports and orders in council about a special commission to inquire into the most feasible means of completing the telegraphic system of the empire. Presented 10th February, 1893—Sir H. Langevin. Printed for sessional papers only.
- 36. Detailed statement of all bonds and securities registered in the department of the secretary of state of Canada, since last return, 1892, submitted to the parliament of Canada under section 23, chapter 19, of the Revised Statutes of Canada. Presented 13th February, 1893, by Hon. J. Costigan.

Vot printed

37. Statement showing quantity and bounty paid on pig iron produced in Canada since date of last return to House of Commons, 16th March, 1892. Presented 16th February, 1893, by Mr. Wallace.

Printed for sessional papers only.

- 87a. Return to an order of the House of Commons, dated 20th February, 1893, for return showing the quantity of pig iron produced in Canada in the years 1870, 1871, 1872, 1873, 1874, 1875, 1876, 1877, 1878, 1879 and 1880, and bounty paid, if any, during those years; also amount of pig iron imported from Great Britain and the United States respectively, and the total amount imported during those years. Presented 28th February, 1893.—Mr. Macdonald (Huron).

- 40. Return to an order of the House of Commons, dated 20th February, 1893, for a return showing the number of Experimental Farm Reports published for the year 1891; the number published in English and French respectively; the number allotted to each member of the House of Commons and Senate, and the number still on hand. Presented 24th February, 1893.—Mr. Grieve.

Not printed.

- 4. Return to an order of the House of Commons, dated 6th February, 1893, for a list of the names of all tenderers for section eight of the Soulanges canal, also of the residence of each such tenderers, and of the amount of each tender. Presented 27th February, 1893.—Sir Hector Langevin. Not printed.

- 46a. Return to an address of the Senate to his excellency the Governor-General, dated 6th February, 1893, for information, accompanied with full explanatory remarks, from the officer in charge of the direction and superintendence of the last Canadian Census of 1891, on the following points:

 1. Was the enumeration of the French element of the population, in the taking of the Census of 1891, intended and carried on to convey the same information as was furnished by the previous Census of 1851 and 1861 of the former province of Canada, and the Canadian Census of 1871 and 1881?

 2. What was the meaning intended and the interpretation given, in the taking of the Census of 1891, to the words French-Canadian and Canadian-French as heading of one of the columns of Census Schedule No. 1?

 3. What is the precise meaning and what is to be understood by the various words made use of in the Census Bulletin No. 11, signed George Johnson, statistician, namely, the words Nationalities, Nationalities, French-speaking, English-speaking, Canadiens-Anglais, as part of the new nomenclature adopted?

 4. Were there people of French nationality, real Frenchmen, excluded from the registration of the French element of the population on account of being born outside of Canada, and were there French people included among the English-

speaking on account of being able to speak the English language? Is there any connection between such cases and the nomenclature of Bulletin No. 11, and if not, why is it that the simple word French, formerly used as meaning the French element, was abandoned, to be variously replaced by the words French-speaking, French-Canadians, and so forth? 5. What were, in addition to the printed instructions, the practical explanations and directions given to the officers, commissioners and enumerators, as regards the registration of the French element of the population, or persons of French origin or nationality? 6. Was the actual enumeration of the French, in 1891, uniformally carried on throughout, in the various Census districts, subdistricts and divisions? 7. Are there reasons to apprehend, from direct investigation, personal knowledge, or statistical criticism, that the figures given as representing the number of French people, are notably deficient in some or many returns of the enumeration of 1891? 8. Were the returns delivered by the enumerators examined by the commissioners, the officers, and at the central office under the supervision, the responsibility of the superintendent, in view to test their accuracy and to correct apparent errors? 9. Was it noticed by some of the officers or the superintendent, that very serious discrepancies existed in the return of the French between the Census of 1891 and the statistical series of previous censuses, and was thereby trouble taken to investigate the serious question raised by the very striking want of concordance? 10. Is there any rational explanation of the returns of 1891 by which the French appear to have met abnormous losses in their number, especially in Nova Scotia, Ontario and the Territories? 11. Are there local or accidental causes capable of explaining the vast differences in the multiplication of the French which would have taken place, if the figures of the Census of 1891 were correct, between Prince Edward Island, New Brunswick and Nova Scotia, for instance? 12. Was there, at any time, steps taken to ascertain the cause and extent of such extraordinary returns; if not, what was the cause of that omission; if so, what were the proceedings adopted, and what the results? 13. Has the superintendent of the Census of 1891 taken notice of the very determined objection to accept the extraordinary figures of 1891, as representing the actual number of the French in Canada, and has any serious investigation of this important question been undertaken by him; if so, what are the conclusions arrived at, including the statistical criticism involved? 14. And that the said information include all instructions given to the enumerators in the several years, 1881 and 1891, be brought down with the return. Presented

- Return to an address of the House of Commons to his excellency the Governor-General, dated 6th February, 1893, for a return of all letters, correspondence, reports and all other matter on record, passed between the department of agriculture and the high commissioner of Canada in London,

the imperial board of trade or any other officials of an authoritative body in reference to the scheduling of Canadian cattle in the ports of Great Britain and Ireland, on and after 20th October, last. Presented 6th March, 1893.—Mr. Sproule.......Printed for sessional papers only.

- 51a. Return to an address of the House of Commons to his excellency the Governor-General, for copies of correspondence and other papers in relation to an agreement entered into between Her Majesty the Queen of the United Kindom of Great Britain and Ireland and the President of the French Republic, regulating the commercial relations between Canada and France in respect of customs tariffs. Presented 15th March, 1893, by Hon, G. E. Foster.

Printed for both distribution and sessional papers.

- 52. Papers relating to the conference held at Washington in February, 1892, between the delegates of the Canadian government and the secretary of state of the United States upon the several subjects therein mentioned. Presented 7th March, 1893, by Hon. G. E. Foster.

Printed for sessional papers only.

- **Example 1. **Example 2. **Exa

- Feturn to an address of the Senate to his excellency the Governor-General, dated 21st February, 1893, for copies of all letters, communications and telegrams between the minister of agriculture or any official under him, or any other minister or official of the Dominion government and the Canadian Pacific Railway Company, the British Columbia government, the mayors of the cities of Victoria and Vancouver, the Dominion health officers of the ports of Victoria and Vancouver, the the introduction of small-pox into Victoria and Vancouver, in May and June, 1892, by the mail steamers from Japan and China. Presented 9th March, 1893.—Hon. Mr. McInnes (Victoria).

 Not printed.

- 59. Return to an order of the House of Commons, dated 20th February, 1893, for copies of all petitions, letters and documents whatsoever, in relation to the change in the location of the post office of Notre Dame du Rosaire. Presented 20th March, 1893.—Mr. Choquette.............Not printed.
- 59a. Return to an order of the House of Commons, dated 6th February, 1893, for a return of all petitions, documents and letters in relation to a request made for increased mail service at the Harkaway post office, during the past six years. Presented 29th March, 1893.—Mr. Landerkin......Not printed.

- 65. Return to an order of the House of Commons, dated 20th February, 1893, for all papers, documents, correspondence, etc., addressed to the government in relation to the best means to be adopted to prevent the spreading of cholera. Presented 23rd March, 1893.—Mr. Landerkin.....Not printed.

- •7. Return to an address of the Senate to his excellency the Governor-General, dated 23rd February, 1893, for: 1. A copy of the commission issued appointing and constituting certain persons a royal commission to obtain reliable data respecting the operation and effects of legislative prohibition of the traffic in intoxicating liquors. 2. Also a copy of any and all instructions given for the guidance of the said royal commission by or under the authority of the government. 3. Also copies of any and all documents and statistics furnished to the said royal commission, by any of the departments of the civil service, or any officer of the government, embodying information or suggestions in relation to the subjects which the said royal commission was appointed to examine and report upon. Presented 15th March, 1893.—Hon. Mr. Vidal. Not printed.
- 68. Return to an address of the Senate to his excellency the Governor-General, dated 7th February, 1893, for copies of all letters, communications and telegrams between the minister of agriculture, or any official under him, or any other minister or official of the Dominion government, and the government of British Columbia or any official thereof, the British Columbia board of trade, and the local Dominion engineer, relating to the erection of a proper quarantine station at Albert Head or William Head, British Columbia. Presented 15th March, 1893.—Hon. Mr. McInnes (Victoria).

 Not printed.
- 69. Return to an address of the Senate to his excellency the Governor-General, dated 7th March, 1893, for a copy of the royal instructions from her most gracious majesty the Queen to his excellency, on his appointment to his present office. Presented 20th March, 1893.—Hon. Mr. Wark.

Printed for sessional papers only.

- 70. Return to an order of the House of Commons, dated 6th February, 1893, for copies of all correspondence between Mr. Robertson, dairy commissioner for Canada, and the department of agriculture, in relation to a certain resolution adopted by a committee of the board of trade of Bristol, England, against accepting as Canadian chesse, cheese designated by the said committee under the name of "French Cheese" and manufactured in the province of Quebec. Copies of all speeches, letters and reports made by the said dairy commissioner, Mr. Robertson, on the value of cheese manufactured in the provinces of Quebec and Ontario. Presented 25th March, 1893.—Mr. Rinfret.

 Not printed.
- 72. Return to an order of the House of Commons, dated 20th February, 1893, for copies of all correspondence and reports accumulated between the years 1876 and 1893 in the hands of the government relating to the Lurcher Shoal, near the entrance to the Bay of Fundy, and proposed means for the protection of navigation in that vicinity. Presented 29th March, 1893.—Mr. Bowers.

Not printed.

- 74. Return to an address of the House of Commons to his excellency the Governor-General, dated 13th March, 1893, for copies of all tenders, letters, telegrams and correspondence between the government and their agents and any other persons, in regard to the contract let for the repairing of the Dominion steamer "Quadra." Presented 30th March, 1893.—Mr. Prior.........Not printed.

14

VOLUME 11-Concluded.

CANADA

REPORT

OF THE

MINISTER OF PUBLIC WORKS

ON THE WORKS UNDER HIS CONTROL,

FOR THE FISCAL YEAR ENDED 30th JUNE, 1892.

SUBMITTED IN ACCORDANCE WITH THE PROVISIONS OF CHAPTER THIRTY-SIX 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

1893

[No. 8—1893.] Price 20 cents.

To His Excellency the Right Honourable Sir Frederick Arthur Stanley, Baron Stanley of Preston, in the County of Lancaster, in the Peerage of Great Britain, Knight Grand Cross of the Most Honourable Order of the Bath, Governor-General of Canada, and Vice Admiral of the same, &c.

MAY IT PLEASE YOUR EXCELLENCY:

In compliance with Chapter 36, Section 37, of the Revised Statutes of Canada, I have the honour to lay before Your Excellency, the Report of the transactions of the Department of Public Works, for the fiscal year ended 30th June, 1892.

Respectfully submitted,

J. ALD. OUIMET,

Minister of Public Works.

Ottawa, 9th February, 1893.

ERRATA.

The Roman Numerals of the Alphabetical Index should read one page in advance of those printed, viz.:—For page xxi read page xxii and so on.

ALPHABETICAL INDEX

TO

REPORT AND APPENDICES.

Name of Place, &c.	Nature of Work, &c., referred to.	Page in Report.	Pages in Appendices
bercrombia	Wharf	xxi	13, 4
Cos OI Fariiament	Relating to public works	xvi	21
Bassix.	K'ynarimental farm	xvii	7, 3
Sues, Lake Megantic	Pion	VYIV	14, 6
	Post office, &c	XXII	4, 9, 28, 23
mherst. mherstburg.	do		3, 8, 23 3, 8, 23
do	do Harbour		18, 7
nderson's Hollow	do		10,
ciiiiaDOl18	Post office		3, 8, 23, 23
ullual Statement	Expenditure		1 ' ' '
Liise St. Jean	Wharf	xxiv	14, 6
use a l'Esu (Tadousac)	Pier		14,
Inticosti Island	Telegraph service	XXV	20, 10
antigonish Ppendix No. 1.	Post office	xvi	3, 8, 2
richat.	Navigation opening, &c.	xix	2
uo	Post office	*	-
risaig	Pier	xx	13,
" Gallery Notional	1	XV1	1
	Telegraph lines	XXV	20, 165, 1
		vvi	13,
addeel	Post office		4, 8, 2
Baddeck Baie St. Paul	do	xxi	3, 8, 23, 2
	Wharf. Dredging.	xxiii	15,
MITACKS (tenorally	Mounted police	vv	7,
			5, 9, 28, 2
Parrington	Harbour and wharf, &c.	xxi	17,
Bathurst	Telegraph lines. Public building.	xxv	20, 165, 1
do	Public building	xix	3, 8, 24, 2
Sattleford	Navigation opens, &c. Barracks, &c.		6, 11,
uo	11)		19,
		xxiii	14,
		·	19,
Beaverton	Pler	. XX	
PCILIANI.	1 1	. xxii	1 1 1
Bell Service	Dominion buildings	xxiii	,
cheville	Harbour	vvii	1
uo	. Navigation opens, &c	xix	
Serlin .	Piers	xxiv	15
Bersimis, East and West	Post omce	. XXI	1 ' ''
Berthier, en bas.	Telegraph service.	. xxv	
do en haut	Ice pier	XXIV	
Dig Bay	Slip Ice pier Cribwork Wharf Landing.	xvi	
Bird Island	Wharf	XX	
Birtle	Landing.	xx	
Black River	Land's office		
Bonilla Daine	Pier, &cTelegraph lines	. xix	14,19,131, 20,

Name of Place, &c.	Nature of Work, &c., referred to.	Page in Report.	Pages in Appendices
Bow River	Bridge	XX	19, 8
Brampton	Post office, &c		5, 9, 23
Brandon	Experimental farm		, ,
- do	Post office, &c	xix	6, 3
	Industrial school		* 0.00
	Post office, &c. Drill shed		5, 9, 23
Brae Harbour	Breakwater	xxiii	14, 4
	Generally		7, 3
do	Telegraph service.	VVV	• " 2
	Wharf		13, 3
Brockville	Public buildings	xxii	5, 9, 28, 23
Brule	Wharf, &cTrent Valley works		
	Nova Scotia		3, 8, 23, 23
do	Their construction and maintenance	xvii	3, 8, 2
Bull's Head	Their construction and maintenance Barracks		, , , ,
Burleigh	Trent Valley works		13
	Pier, &c		16,
	Government sub-marine		15
	Pier	xxiv	6 11 24
	Barracks		6, 11. 34, 3 6, 11, 3
	Breakwater		14,
	. Wharf		14,
do	Navigation opens, &c.	xix	2
"Canada"	. Dredge	i 	89, 97, 1
	Pier		
	Trent Valley		1 20 1
Cape Breton	Telegraph lines		20, 1
Cane Sable	do lines	YYV	19, 167, 1
Cape Sable Island	. Wharf	xxi	13,
Cape Tormentine	Harbour	xix	14,
Caraquette	Names, salaries, &c	• XX	14,
Caretakers	.: Names, salaries, &c	xviii	8, 37, 1
Carillon Station	Ottawa River		129, 1
Carleton		xix	3, 8, 2
do	Wharf.	xxiv	15.
Carleton Place	Post office, &c.	xxii	5, 9, 2
Cartier Square	Maintenance]
Channels oto	Post office		5, 9, 2
	Ontario Dominion building		16, 75,
do	Navigation opens, &c	xxiii	3, 8, 24, 2
"Challenge"	Dredge	1	92, 105, 1
Chatham, N.B	Public huildings	viv	3, 8, 25, 2
do Ont	.: Post office		5, 9, 2
do Escuminac, N.B	. Telegraph system	xxv	20, 1
Chats Station	. Ottawa River do		130, 1
do			129, 1 19, 130, 1
Chenaux Station			130, 1
Cheticamp	Dredging	xxi	13,
do	. Telegraph lines		19, 1
Chicoutimi	. Marine hospital	1	4, 2,
do	Retaining wall, &c	xxiv	15,
Chipman's Brook	Pier		10
	Removing rock		13, 16,
Clifton, N.B.	Breakwater	xix	14,
do PEI	l do		14,
Clyburn Brook	. Channel improvements	vvi	13.
Coaticook	Public Building	1	4, 8, 2
Copourg	Post office, &c Harbour	xxii	5, 9, 28, 2
Cocagne	Wharf	xxii	18,
Collector Slide and Boom Dues	Report.	xxiv	14, 18, 1
Collingwood	Dredging	xxii	6, 18,
	INDEX.	,	, , ,

Name of Place, &c.	Nature of Work, &c., referred to.	Page in Report.	Pages in Appendice
ollingwood	Navigation opens, &c	xix	2
onin's Bay	Dredging	xxii	18,
olumbia River	Slide repairs		19, 131, 1
	Improvements to channel	xvii xvii	16,
ornwall	Post office &c	1	5, 9, 2
Orrespondence	Departmental &c	vvii	0, ., 2
reall Landing	Pier.	xxiv	15,
Purtney River	Protection work	XVII	16, 8
outes	Barracks	1	
ow Bay	Breakwater Improvements to channel	XX	13,
ribbins' Point	Wharf	xvii xxi	16,
urator's Report	Art Gallery	xvi	13,
alhousie.			3, 8, 25, 2
00	Post office. Wharf	XX	14,
artmouth	Public building	xxi	3,
	Land office		
CSCOMSSA	Dredging, &c	xxi	17,
	Breakwater		10
18011rsements	Dredges	xxi xvii	13,
ominion Buildings.	Charlottetown		3, 8, 24, 2
αο	General expenditure	xvii	8, 12, 2
	Halifax	xxi	3, 8, 23, 2
do	British Columbia	1	7, 12,
	Generally	xvii	17, 18,
	Plant		17,
redges	Repairs, &c	xvii	17
	Ottawa		17, 19, 130, 1
	Post Office, &c		5, 9, 2
*** ISSN	Wharf		13,
	Dredging		1
Winvilla	Beach protection work		
	Pier Wharf		14
Imonton	Public buildings		14,
	Immigration building	XX	6,
Manager to	Manage malaming fro	vviii	8, 37, 19
	Telegraph lines		18, 10
	Graving dock	xviii .	16, 85, 2
	Telegraph service	XXV	1
(aminations and Comment	Works List of places		
	A 1 - t - t - t - moont of	vviii	3, 2
	Slide repairs		1, 1,
	Names Ac. salaries	xviii	37, 1
- viracteod	Barracks and Custom-house	XX	6, 11, 35, 2
do	Bridge		19,
ort Saskatchewan	Barracks	xx	6,
aser Dina		xvii	16, 18,
		i::	10, 10, 4
edericton	Post office, &c	xix	8, 25, 2
ench River	Breakwater	XX	13,
enchman's Bay (Pickering)	T) . 1	xxii	18,
nanca-	Post office, &c		5, 9, 2
do do	Custom-house, &c		5, 9, 10, 2
R	Dominion buildings		18,
spé tinean Ding	NT		2
tineau River.	C11.1		19, 131, 1
uthier Creek	Sindes and pooms. Dredging	xviii	18,
Heral Service	Dredging British Columbia Dredge Removing Robertson's rock		· ·
Orgina D.	Dredge	· • • • • • • • • • • • • • • • • • • •	91, 100, 1
Orgetour	Removing Robertson's rock.		10
g-wu.	Pier, dredging Navigation opens, &c Wharf	XXIII	17,

Nature of Work, &c., referred to.	Page in Report.	Pages in Appendice
Post office &c		5, 10, 23
Pier	xxii	16, 18,
Navigation opens, &c	xix	2
Shear dam		14,
WhariVowle builden		13,
Improvements		15,
Employés, &c	xviii	1 1
Dimensions	xviii	} 2
Breakwater	xix	14,
Wharf		4 90 15
Tolograph sarvice		4, 26, 15, 20, 1
Post office &c		5, 10, 2
Telegraph service	xxv	20, 1
Dominion building.,	xxi	3, 8, 23, 2
Examining warehouse	xxi	3, 8 2
		13, 2
Penitentiary		3, 8,
		0, 2
Pier		
		16,
Post office, &c	xxii	5, 10, 29, 2
Drill hall		5, 17,
		14, 17,
do ,		,,
do	xxiv	14,
do	1	16,
do		13,
		16,
		16,
do		
		14,
Dominion oungings	XXIII	5, 31, 2
Post office	AAIII	14,
		., 0, .
Experimental Farm		
Harbour		
		13,
Breakwater	XXIV	15,
Post office repairs		4, 9,
Breakwater	XX	13,
Dredging		16,
Wharf		
Dominion Lands office	xvn	7,
Improving channel	XX	17,
Harbour	XXII	16, 18,
Navigation opens, &c	xix	
Wharf	XX	14,
. Removing shoal	XXII	16, 18, 16,
Military College.	XVIII	1 -
. Public buildings		5, 10,
. Pier		16,
1-		15,
		·
	xxiii	9,
. Canal office		.]
. Pier	xxiv	
Post office	xxiv	
	Post office, &c Pier Navigation opens, &c. Shear dam. Wharf York bridge. Improvements. Employés, &c. Dimensions. Breakwater Wharf Quarantine station and wharf. Telegraph service. Post office, &c. Telegraph service. Dominion building. Examining warehouse Graving dock Immigrant building Penitentiary. Navigation, &c. Pier Dredging. Post office, &c. Drill hall Dredging Generally do Ho do	Post office, &c. Pier

Name of Place, &c.	Nature of Work, &c., referred to.	Page in Report.	Pages in Appendices
Lake of Two Mountains	Dredging	xxiii	18, 7
L'Ardoise	Breakwater.	xx	13, 5
	Barracks, &c		21
do	Belly River bridge	VV	1
do	Dominion Lands office		î
Lévis Graving Dock	Report, &c	xviii	15, 70, 22
do Ferry	Wharf Dominion buildings	xxiv	15, 7
Lindsay			5, 10, 23
Lismore	Wharf	xxi	13, 5
Little Current			16, 7
	Improvements	xviii	13, 16, 5
London, Ont	Public buildings		5, 10, 23
London, Great Britain	High Commissioner's residence		1, 23
	Wharf.		15 10 7
Louisburg Harbour.	do dredging, &c	xxiv xix	15, 18, 7 21
Louis' Head	Works	XX	5
Low Point ,	Telegraph		19, 16
Lunenburgh Makon	Harbour improvements.	xxi	19 17 8
Macleod	Barracks	XXI	13, 17, 5 6, 11, 20, 3
Madawaska River	Pier, dams, &c		19, 131, 13
	Telegraph service		20, 16
Majors Hill Park	Improvements. Public buildings at Ottawa	xıx xviii	5, 3 5, 2
Mal Baie, or Murray Bay	Pier	xxiv	15, 7
Malpeque	Breakwater	xxiii	14, 4
Manitoba		xix	6, 33, 8
do Harbours	Mounted Police barracks		5, 1 7, 34, 3
Maritime Provinces.	Telegraph service		19, 17
Margaree	Pier	xxi	13, 5
Margaretville	Breakwater Rebuilding.	xx, xxi	13, 5
Matane	Pier, dock, &c	xxiv	19, 130, 13 15, 7
McNair's Cove	Breakwater		i
	Harbour		16, 18, 7
Meat Cove.	Improvements. Telegraph		19, 16
Medicine Hat	Barracks, &c		7, 1
derigomish	Wharf		1
Mille Isles Miller's Lending	Deepening rapids Shear dam.		. 7 8
Milk River	Barracks	xviii	•
Miminegash	Harbour, &c	xxiii	14, 4
dink River	Pier.	xxiii	14, 4
Innecosa	Lands office	• • • • • • • • • • • • • • • • • • • •	1 2
Ioidart	Landing place		14, 6
Moneton	Post office		3, 8, 23
Montague	do Custom house, &c		3, 8, 23
do	Drill hall.	xxiii	4, 9, 27, 23
do	Examining warehouse	xxiii	4, 9, 27, 23
	Harbour	xxiv	7
do	Immigration building. Inland_Revenue office	xxiii	4, 4.
do	Post office	xxiii	4, 9, 27, 23
do	Ship channel, dredging		95, 106, 11
_ do	Navigation, opening of, &c	xix	21
Aoose Jaw	Court house do &c	• • • • • • • • • • • • • • • • • • • •	7, 11, 23
Morden	Wharf		1
Iountain Station	Ottawa River Generally		130, 13
Iounted Police Barracks			

INDEX.

Name of Place, &c.	Nature of Works, &c., referred to.	Page in Report.	Pages in Appendices
Nanaimo.			7, 36
do	Harbour, Nichol Rock.	xvii	16, 86
Napanee	Post office, &c. Experimental farm		5, 10, 235 3, 24
Nation River	Improving channel.	xxi xxii	16, 79
National Art Gallery	Improving channel	xi	1 23, 1
Navigation	Opening and closing of	xix	21-
Negro Point (St. John) Neguac	Breakwater do		14, 63
Nepean Point	do Maintenance	xix	14, 6
New Brunswick	Public buildings	xix	3, 14, 24, 60
New Carlisle District	Slides and booms	xxv	13
Newcastle, N.B	Post office	xix	3, 8, 25, 23
Newcastle, Unt	Slides and booms	XXV	19, 13
Newfoundland	Dredge Telegraph service		90, 98, 11e 20, 165, 16
New Glasgow	Post office		8, 3, 23
New Westminster	Public buildings	xvii	7, 12, 3
do	do property		
Niagara Falls	Post office	! • • • • • • • • • • • • • • • • • • •	5, 10, 23
Nicol Rock	Nanaimo harbour	xvii	16, 8
Nicolet River	Harbour protection work	xxiv	15, 18, 7
Nicomeckie Kiver	Clearing channel	xvii	17, 8
Nipissing	Dredge		92, 101, 11
North Cardigan	Dredge	xxiii	14 4
North Sydney	Post office		8, 3, 23
Yorth-west Territorius	Post office Navigation opens, &c. Telegraph service, &c.	XIX	21
Nova Scotia	do do	XX	6, 2 48, 16
Oakville	do do	xxii	16, 18, 7
Officials, Principal	Department of Public Works, 1841 to 1893.	xxi	18 21
Ogilvie's	Pier		1
Old Man's River	Bridge Barracks Dredge	xx	19, 8
Union Lake	Barracks		92, 104, 11
Untario	. Telegraph service		32, 104, 11
Orangeville.	Post office		5, 10, 23
Orillia	Public building	xxii	5, 2
Oromocto Snoais	Dam, &cCentral Experimental Farm.	xviii xxii	14, 6 5, 10, 2
do	Geological Museum	xxii	5, 29, 23
do	Government House, Rideau Hall	xxii	6, 30, 23
	Major's Hill Park	xix	5, 3
do	Parliament buildings do grounds	xxii	5, 29, 31, 23 5, 3
do	. Post office		5, 23
do	Printing Bureau		5, 23
do	Public buildings, &c		5, 23
do	Supreme Court building Langevin Block, Departmental Buildings.		1
00	Victoria Hall. Art Gallery	xvii	5, 3
Ottawa River do Works	Dredging	xxii	16, 18, 7
Owen Sound	Slides and booms	xxii	
do	Navigation opens &c	viv	16, 18, 7 21
" Pacific "	Dredge		94, 10
Parliament Buildings	. Ottawa	xxiii	5, 29, 23
Parry Sound Narrows	do	XXII	5, 3
Partridge Island	St. John, N.B., quarantine station	viv	3 14 6
Pelee Islands	Telegraph lines &c		
Penetentiary	Post office, &c. Halifax.		5, 1
Perce	Navigation opens. &c	viv	
Patarbarangh	Custom house, &c	XIX	5, 10. 31, 23
i eteriorough			

Name of Place, &c.	Nature of Work, &c., referred to.	Page in - Report.	Pages in Appendices
Petrolia	Post office, &c.	xxii	6, 31
Pickering (Frenchman's Bay)	Dredging	xxii	18, 77
Pictou, N.S	Harbour, dredging, &c	xxi	17, 57
do	Marine hospital		3, 8
do	Navigation opens, &c	xix	214
do Pictou Island,	Quarantine station. Wharves	xxi	3, 8, 2
Picton, Ont.	Post office, &c.	xxi	13, 5
do	Dredging.	xxii	8
Piers			ĭ
Pincher Creek	Barracks	. <i>.</i>	_
Pointe St. Pierre	Removal of reef		1
Pointe à Valois	Wharf.		1.
Pointe Esquimaux	Telegraph Service		2
Portage du Fort	Slide stations, &c.		7, 3 130, 13
Port Arthur	Immigration building.		150, 15
do		xxii	6, 10, 3
do	Harbour		0, 10, 0
	Navigation opens, &c	xix	21
Port Colborne	Post office		6, 10, 23
Port Credit	Dredging	xxii	18, 8
Port Dover	Navigation opens, &c Breakwater	xix	12 21
Port George	Harbour	xxii	16, 8
Port Hood	Harbour, breakwater, &c	xx	13, 17, 5
Port Hope	Pier, &c	xxii	16, 18, 8
do	Post office, &c		6, 10, 23
_ do	Navigation opens, &c	xix	21
Portland	Post office, &c	xix	8, 25, 23
Port La Tour		xii, xvi	14, 6
Port Maitland	Breakwater Harbour.	XX	13, 5
	Pier	xx, xxi xxiii	13, 5 14, 4
	Post office	AAIII	14, 4
Port Stanley	Navigation opens, &c	xix	1
do	Pier	xxii	16, 8
Pot au Beurre	Dredging	xxiii	15, 6
Pownal	Pier, dredging Public buildings	xxiii	17, 4
"Priestman"	Dredge		6, 10, 23
Prince Albert			7, 11, 35, 23
do			,, 11, 00, 10
do			
do	Mounted Police Barracks		
"Prince Edward"	Dredge	·····	90, 99, 11
Printing Bureau	Public buildings	XXIII	3, 8, 24, 23
Property	Purchased and sold		20
do	Leased		20
Public Buildings	Generally	1	
Public Property, British Columbia	Value, &c		22
do West	Breakwater	xix	14, 6
Quebec	Citadel buildings	xviii xxiii	14, 6 4, 9, 27, 23
a o	. Clerk of Works office		4, 0, 21, 20
do	Culler's office	xxiii	4, 9, 2
do	Custom house		4, 9, 23
do			1
do	Drill half. Examining warehouse.		4 0 97 95
	Immigrant building	XXIII	4, 9, 27, 23
do	Inland Revenue office		
do ,	Navigation, opening and closing of	xix	21
do	Observatory		4,
do	Post Office	xxiii	4, 9, 27, 23
do			
	Queen's wharf Telegraphs	XXIV	15, 7
_ w	Weights and measures office	xxv	20, 17
do	Welville shi messire omos		

Name of Place, &c.	Nature of Work, &c., referred to.	Page in Report.	Pages in Appendice
' Queen "	Dredge		93, 103, 1
Rainy River	Improvements.		.,0, 100, 1
Red Deer	Industrial school		7,
_ do	Lands office		
	Dredging	XIX	18,
do	Barracks, &cCouncil chamber	XX XX	7, 7,
do	Court house	XX	12, 35, 2
do	Gaol and asylum		7, 2
do	Governor's residence, new.	XX	7, 12,
do	Immigrant building, &c.		7,
Revenue and expenditure Richibucto	Telegraph service		14, 17,
Rideau Hall		xxii	6, 30, 2
Rimouski	Wharf, &c	xxiv	15,
River Blanche	Wharf		15,
do des Prairies	Improvements		1.
do du Lièvre do du Loup	Lock, &cPost office	xviii	15, 4,
do Kennebecasis			17.
do L'Assomption		xxiv	15,
do Mattawin	do	xxiv	15,
do Maccinac Shoal	Removing obstructions		15,
do Nicolet do Ottawa	Dredging		16,
do St. Lawrence	Ship channel		
do St. Louis	Improvements		20,00,100,1
do St. Maurice	Dredging, &c		15,
do Vermilion	Chute aux Iroquois dam		19,
do Yamaska Roads and bridges	Dam		15, 18, 19, 72, 74, 8 130
Rocher Capitaine	Station, Ottawa River slides	ļ	130, 1
Rondeau	Piers	XXII	16,
Round Hill	Works	xviii xix	13,
Rustico, South	Breakwater		14,
Saguenay District	Slides and booms, Report, &c	xxv	18, 1
Saltcoats	Dominion Lands office		
"Samson"			95, 1
	Ottawa	1	19, 130,
Sarnia	. Navigation opens, &c		
Saguenay District		xxv	18,
do			
	Navigation opens, &c		
Sherbrooke	Post office		4, 9, 9
Shippegan	Harbour	xix	
	River St. Lawrence		15,95,106,
	Collection of dues		17, 18,
do	Collector's report, &c	xxiv	10,
dο	. Newcastle district, report	xxv	10,
do	Saguenay do do		19,
do		XXV	18,
do	St. Maurice district do	XXV	18,
	Removal of		
	. Improvements	xvii	17,
Sorel	Lee piers	xxiv	15,
do	Post office.		4, 9,
Souris	Marine hospital	xviii	
	PierWhomf	xxi	
Southampton			13,
South Gut	Wharf	XXI	140,
South Gut	. Post office, &c	1	

Name of Place, &c.	Name of Work, &c., referred to.	Page in Report.	Pages in Appendice
te. Anne de la Pérade	. Dredging, &c	xxiv	15, 7
	C ! harring le Mr.	VVIV	15, 7
te. Anno du Somunav	Wharf	xxiv	15, 7
Cotharines	Wharf	xxii	6, 10, 32, 23
t. Henri			
t Hvacinthe	00		4, 5
t Jérôme	Public building	xxiii	4, 9, 27, 23
		xix	2
do	Post office.	XX	4, 9, 2 14, 0
t. John River, N.B	Navigation improvements. Civil service examining office.	xiv	3,
t. John. N.B	CIVII service examination	xix	3, 4, 8, 25, 25
do	Inland revenue office		1, 1, 0, 20, 20
do	Manine hespital	XIV	4, 8, 26, 2
	Newsgotton opens of	XIX	2
			4, 8, 26, 2
			4, 8,
do (Negro Point)			14,
t. Laurent	Wharf		00 00 1
	Dredge		83, 96, 1
			14, 74, 95, 1
			93, 102, 1
t. Martin's	Post office.	XXV	18, 20, 1
t. Maurice District	Works	1	10, 20, 1
do ····	1171£	vviv	15,
t. Michel	. Indian industrial school.		10,
t. Paul	Breakwater Navigation opens	xxiii	14,
t. Peter's Bay	. Navigation opens	xix	1 9
do	Canal dredging		• 1
4 Stophon N B	Post office		4, 0, 2
ite. Thérèse	do	·	
st. Thomas	do &c		
bussex, N.B	do	XIX	4, 8, 26, 2
t. Vincent de Paul	Penitentiary	xxiv	4, 9,
t. Zotique	ou'l and boome	VVV	15,
staff employed	(1)		1
stand-On	1 amonditure	1	3, 2
		·	19
stony Island	Post office.		6, 10,
strathroy	Public building		6, 10,
Sturgeon	Pier—Dredging	xxiii	17,
Summerside	las in hounital		
do	TO 1 02 - 0	YV1	8, 2
do		xxiii	17,
Supreme Court. Ottawa	Building	xxi	.1
Surveys and Examinations	List of	XXI	4, 8, 26,
Ingeny	T OST OTHER	xxi	
Sydney (South)	ting station	yyi	
do	277 - f	. x x 1 v	
radousac	Navigation opens, &c		
do Felegraph Lines	Report on Government, &c.	. xxv	,
	The service and evidentifier the service as a service		-
do	m_1 1 04 Lowrence lines expellenture	. XXIV	İ
Celephone Service	Public buildings		10
Thames River	Dredging	. xxiii	
Phombury	uo ac	xxiii	
Thron Rivers	What he		-, -,
do	Novigation opens, &C		
do	Decelerator	i XXIII	
Tignish	Channel improvements	. xx	
	Civil Service examination office		6,
Toronto	Custom house, &c	.; XX11	6, 10, 32,
	Dail hell	.: XX11	6
	Www.ining.warehouse	. 1 XX11	6, 10, 33,
do		XXII	
do	T. 1-nd Dovonue office	. XX11	6, 10, 33,

Name of Place, &c.	Name of Place, &c. Nature of Works, &c., referred to.		Pages in Appendices	
n.	 	: !		
Toronto	Military school			
do	Navigation opens, &c Barracks, &c		21	
Proceedia	Harbour		14 (
	Channel	XIX	14, 6	
do	Post office.	XXII	18, 8	
Γrois Pistoles	Wharf		6, 10, 33, 23 15, 7	
	Breakwater		13,	
Fruro	Public buildings		3, 8, 23	
Tynemouth Creek	Breakwater	xix	14, 6	
	Post office		4, 9, 28, 38	
	Post office		7, 12, 3	
Vermilion River.	Slide and dam	xviii	19, 7	
	Public buildings		7, 12, 3	
do B.C		xvii	7, 8	
do B.C	Harbour improvements	xvii	17, 18, 84, 8	
do B.C	Macaulay Point battery	: •••• ••• •	1,,	
do B.C	Public property	· · · · · · · · · · · · · · · · · · ·	22	
do B.C	Telegraph lines		20, 18	
do P.E.1	Pier	xxiii	14, 4	
Walkerton	Post office	xxii	6, 10, 33, 23	
Walton	Breakwater		1	
	Dominion buildings		į.	
	Ottawa		\ 1	
	Breakwater	XX	13, t	
West Chezzetcook	Wharf		. 1	
West Farnham	Post office, &c		1	
West Pubnico	Works		1	
Whitehead Island and Grand Narrows	Telegraph lines	xxv	19, 16	
White Mud River	Dredging	xix	18, 8	
Wiarton	Navigation opens, &c		2	
Windsor, N.S	Post office building	• • • • • • • • •	3, 8, 23	
do Ont	Dublic building		21	
do Ont	Public building	XXII	0, 10, 33, 25	
winnipeg	Public buildings Post office, &c Navigation opens, &c	XIX	6, 11, 33, 28	
do, ,	Navigation orang &c	AIX	0, 11, 54, 26	
"Winnipeg"	Dredge			
Woodstock, N.B	Post office	viv	4, 8, 25, 25	
Wood Mountain	Barracks	313	7, 0, 20, 20	
Works on navigable rivers	Darracks		,	
Writing-on-Stone	Barracks			
Yamachiche			1	
Vamaska River	Dam	xviii	15,	
do	Dredging	xxiv	15, 18, 68,	
Yarmouth Harbour	Works		10, 10, 00, 7	
do			3, 8, 2	
York Factory	Navigation opens, &c			

DEPARTMENT OF PUBLIC WORKS,
OTTAWA, 6th February 1893.

To the Honourable

JOSEPH ALDRIC OUIMET.

Minister of Public Works.

SIR,—I have the honour to submit the report of this department, for the fiscal year ended 30th June, 1892.

The report contains references to the more important works performed under the direction and superintendence of the department, during the fiscal year.

In the appendices annexed, detailed accounts of the expenditure will be found, with reports by officers of the department, on the extent and nature of the services performed, in constructing, extending, repairing and maintaining the public buildings, harbours, government telegraph lines, slides and booms, &c., throughout the Dominion.

The works under the control of the department are:-

Buildings (Public), their construction and maintenance.

DREDGING AND DREDGE VESSELS.

HARBOURS AND PIERS, their construction and maintenance.

ROADS AND BRIDGES.

SLIDES AND BOOMS, and the collection of revenue therefrom.

TELEGRAPHS.

Works on Navigable Rivers.

For convenience of reference, the following summary of the transactions and operations of the department, is alphabetically arranged:—

ACTS OF PARLIAMENT.

LAW AMENDMENTS.—A list of the acts passed during the last session of Parliament, having reference to the Department of Public Works, is given in Appendix No. 18, page 219.

ART GALLERY-NATIONAL.

The additions to the gallery during the fiscal year consist of two oil paintings, viz.:—

"Twilight," by Miss M. A. Bell.

"Marine," by Franklin Brownell,

and a life size bust of L. R. O'Brien, R.C.A., by Hamilton McCarthy, R.C.A.

The number of visitors who registered their names during each fiscal year, since the gallery was inaugurated, have been as follows:—

1882-83	8,261
1883-84	
1884-85	11,893
1885-86	
1886-87	
1887-88	16,593
1888-89	
1889-90	18,048
1890-91	21,289
1891-92	20,026

The Curator's report is added hereunto, in Appendix No. 11, page 185.

BRITISH COLUMBIA.

Buildings.—The following public buildings have been extended, improved, repaired or fitted up during the fiscal year, viz.:—

Agassiz experimental farm,	Victoria	custom-house,
Kamloops industrial school.	do	"C" battery barracks,
Nanaimo post office, etc.	do	immigrants' home,
New Westminster public building	do	nublic building

Owing to the failure of the first contractor to carry on the works, the contract for the erection of the Vancouver post office was re-let. A site for the new drill hall in Victoria was secured, and a contract entered into, for the erection of the building.

(See Appendix No. 1, page 7, and No. 2 pages 35-37.)

HARBOURS AND RIVERS.—For facilitating, and for the security and improvements of navigation, operations for the removal of obstructions by dredging and otherwise, have been carried on at the following harbours and rivers, viz.:—

Columbia river,		Nanaimo harbour,		
Courtney	do	Nicomeckel	river,	
Cowichan	do	Skeena	do	
Fraser	do	Somas	do	

Victoria Harbour and Esquimalt Graving Dock.—(See Appendix No. 1, page 16-17 Appendix No. 3, pages 84 to 87.)

Public Property.—In Appendix No. 20, page 227, attached to this report, is a statement by Mr. F. C. Gamble, resident engineer, British Columbia, showing the extent and value of property owned by the Dominion, in the city of New Westminster.

CONTRACTS.

APPENDIX No. 15, page 203, contains a statement of the contracts entered into, the property purchased and sold, and property leased by or to the department, during the fiscal year.

CORRESPONDENCE.

APPENDIX No. 16, page 211, shows a statement of the official correspondence of the department, together with that of its principal officials, from 1867 to the 30th June, 1892.

DOMINION BUILDINGS.

APPENDIX No. 1, pages 3 to 13, is a statement, by provinces, showing the amounts expended for heat, light and water, for the use of the several public buildings throughout Canada, for the fiscal year.—(See also Appendix No. 21, page 230.)

DREDGES.

DREDGING OPERATIONS.—The report on the operations of the various dredges in the different provinces, is appended in Appendix No. 3, pages 88 to 126, and the expenditure will be found in Appendix No. 1, pages 17-18.

ENGINEERS, ENGINEMEN, FIREMEN AND CARETAKERS, ETC.

EMPLOYEES.—A list of the engineers, &c., employed in the public buildings throughout Canada, with a statement showing date of birth, position, date of appointment and salaries, is added in Appendix No. 13, page 192.

EXPENDITURE.

APPENDIX No. 1.—This appendix is a succinct statement by the accountant of the department, of the expenditure on the various services provided for, during the fiscal year.

APPENDIX No. 21, pages 229 to 234 is also a statement prepared by the accountant, giving in detail, the items of expenditure in connection with the repairs, etc., of all the public buildings under the control of the department, during the last fiscal year.

GRAVING DOCKS.

APPENDIX No. 19.—This appendix, at page 223, is a statement showing the dimensions of the several graving docks in operation in Canada.

ESQUIMALT GRAVING DOCK.—A report on the operations of this dock will be found in Appendix No. 3, page 85.

KINGSTONGBAVING DOCK.—This work has been completed, and is now in thorough working order. Twenty-one vessels, of various descriptions, availed themselves of the use of the dock, since its completion in November, 1891, up to the 30th June, 1892.

(See Appendix No. 3, page 78.)

LÉVIS GRAVING DOCK.—This dock was under the control of the Quebec Harbour Commissioners until October, 1890, when the department assumed the management thereof. During the year, some necessary improvements were supplied, and the dock maintaineed in good order. Government dredge No. 11, worked for 15 days, improving the entrance to the dock.

(See Appendix No. 3, page 70.)

OFFICIALS.—A list, showing the age, date of appointment, salary, etc., of all the graving dock employees, is annexed to this report, at page 197 of Appendix No. 14.

LOCKS AND DAMS.

IMPROVEMENTS.—Extension, necessary repairs or construction work, was carried on in connection with the following locks, shear or other dams, during the fiscal year, viz.:—

Grand Falls Shear Dam, N.B. Round Hill Dam, N.S.

Miller's Landing Dam, B.C. Vermillion River Dam, P.Q.

Oromocto Shoals, Shear Dam, N.B. Yamaska River, Lock and Dam.

River du Lièvre, Lock and Dam, P.Q. West Quaco Dam, N.B.

(See Appendix No. 1, pages 13 to 16. Appendix No. 3, pages 59 to 73.)

MANITOBA.

Buildings.-Fixtures, fitting, etc., were supplied for the use of the following buildings, etc., viz.:-

Brandon Post office,

Winnipeg Immigration Building.

Winnipeg

(See Appendix No. 1, page 6. Appendix No. 2, page 33.)

DREDGING,-Operations for the improvement of navigation by dredging, were carried on, at the bar at the mouth of the west branch of the Red River, 18 miles from Selkirk; and at the mouth of the White Mud River, 9 miles west of Westbourne, in Marquette county.

(See Appendix No. 3, page 83.)

MAJOR'S HILL PARK.

The appearance of this favourite resort, during the summer season, has been pleasing and attractive. The grounds and walks have been maintained by the contractor to the satisfaction of the department.

(See Appendix No. 2, page 31.)

NAVIGATION—OPENING AND CLOSING OF.

DATES.—At page 214, Appendix No. 17, is given an alphabetically arranged list of the principal ports of Canada, showing the date of the formation of ice, and the closing of navigation thereby at each place, in 1891, also the date when the pavigation opened in 1892, &c.

The department again, this year, thankfully acknowledges the courtesy and kindness of the customs officials at the several ports, who supplied the information.

NEW BRUNSWICK.

Breakwaters and Piers.—At each of the following places, breakwaters or piers were either commenced, repaired or extended during the fiscal year, viz.:-

Black River,

Partridge Island.

Cape Tormentine,

Quaco,

Caraquette, Clifton,

Quaco West, Richibucto, Shippegan,

Gray's Island, Kingston,

Tracadie, Tynemouth Creek.

Negro Point, Neguac,

(See Appendix No. 1, page 14. Appendix No. 3, pages 60 to 67.)

Buildings.—Repairing and improving the following public buildings engaged the attention of the department last fiscal year, viz:-

Bathurst, Portland post office, Chatham, Carleton, Dalhousie, Fredericton, Newcastle,

St. John custom house, marine hospital, do

do post office, do savings bank,

Sussex public building, Portland meteorological office, Woodstock public building.

(See Appendix No. 1, page 3. Appendix No. 2, pages 24 to 26. Appendix No. 21, page 230.)

HARBOURS.—Improvements by dredging, &c., were executed at the following places, viz.:—

Caraquette,

St. John River,

Hampton-Kennebecasis,

Tobique River.

Richibucto,

(See Appendix No. 1, page 14. Appendix No. 3, pages 60 to 67.)

Wharves.—During the fiscal year, wharves have been either completed, extended or repaired, at the following places viz:

Campbellton,

Edgett's Landing.

Kingston.

Cocagne, Dalhousie.

(See Appendix No. 3, pages 60-67.)

NORTH-WEST TERRITORIES.

BRIDGES.—During the fiscal year the Battle River bridge, at Battleford, was painted and repaired; the approaches to the Belly River bridge were completed; the Bow River bridge was also repaired, and the bridge that spans Old Man's River, near Macleod, completed.

(See Appendix No. 3, page 83.)

BUILDINGS.—The following named buildings and other edifices for public purposes, were constructed, improved or fitted up during the year, viz:—

Calgary barracks,	Regina	Council chamber,
do court house	do	court house,
Edmonton immigrant building	do	government offices,
Maple Creek barracks,	do	new government house,
Red Deer industrial school,	do	immigration building.

(See Appendix No. 1, page 6. Appendix No. 2, pages 34-35.)

General.—Various and numerous repairs and renewals have been made by Police labour, at the Mounted Police posts and connected outposts, at Prince Albert, Battleford, Fort Saskatchewan, St. Albert, Calgary, Fort Macleod, Lethbridge, Maple Creek and Regina.

(See Appendix No. 2, page 35.)

NOVA SCOTIA.

Breakwaters.—The following named breakwaters, were commenced, repaired, reconstructed or extended during the last fiscal year, viz.:—

Arisaig, Margaretville,
Beaver River, Port Hood,
Church Point, Port Lorne,
Cow Bay, Port Maitland,
French River, Stoney Island,
Jordan Bay, Trout Cove,
L'Ardoise, West Arichat.

Louis Head,

(See Appendix No. 1, page 13, Appendix No. 3, pages 48 to 60.)

Buildings.—The following public buildings have been repaired, improved, or extended during the last fiscal year, viz.:—

Annapolis, Nappan,
Baddeek, Pictou,
Dartmouth, Sydney.
Halifax,

(See Appendix No. 1, pages 3 and 8. Appendix No. 2 pages 23-24, and Appendix No. 21, page 230.)

HARBOURS.—During the last fiscal year improvements were made to the undermentioned harbours by dredging, protection work or other means, viz.:—

Cheticamp, Margaretville,
Clyburn Brook, Margaree,
Descousse, Pictou,
Mabou, Port Maitland.

(See Appendix No. 1, page 13. Appendix No. 3, pages 48 to 60.)

PIERS.—Slight repairs to the old Digby pier were effected. Owing to the death of the contractor and other causes, actual work of construction on the new pier had not been commenced, although a large quantity of material had been provided, at the end of the fiscal year.

(See Appendix No. 3, page 53.)

Wharves.—Public wharves, or landing places, have been constructed, repaired or extended at each of the undermentioned places, during the year, viz.:—

Cribbin's Point,-Abercrombie, East Bay, Aspy Bay, Georgeville, Barrington, Grand Narrows, Big Pond, Irish Cove, Bird Islands, Broad Cove, Lismore, Cape Sable Island, Pictou Island, South Gut. Cheticamp,

(See Appendix No. 1, page 13. Appendix No. 3. pages 48 to 60.)

OFFICIALS.

APPENDIX No. 12, page 189, is a statement, giving the names, with the dates of appointments, etc., of the chief officers of the Department of Public Works, from 1841 to 1893.

ONTARIO.

BREAKWATER.—The breakwater which forms the harbour of Southampton, was connected with the shore by a landing pier. The work was completed on the 21st June.

(See Appendix 3, page 82.)

Buildings.—Public buildings have been commenced, completed, extended, repaired, or fitted up and improved during the fiscal year at the following places, viz.:—

Almonte,
Barrie,
Peterborough,
Barrie,
Petrolea,
Port Arthur,
Brockville,
Carleton Place,
Cobourg,
Hamilton,
Peterborough,
Port Arthur,
St. Catharines,
Toronto,
Trenton,
Walkerton,

Orillia, Ottawa,

(See Appendix No. 1, page 4. Appendix No. 2, pages 28 to 33. Appendix No. 21, page 231.)

Windsor.

CHANNELS, &c.—Dredging or other operations to improve the channel and facilitate navigation were performed in connection with the following rivers, channels, &c., during the last fiscal year, viz.:—

Clapperton Channel, Ottawa River,

Cobourg, Parry Sound Narrows,

Collin's Bay, Pickering or Frenchman's Bay,

Kaministiquia River, Thames River.
Little Current, Thornbury,
Meaford. Trenton.

Nation River,

(See Appendix No. 1, page 16. Appendix No. 3, pages 75 to 83.)

HARBOURS.—The improvement of the following harbours engaged the active attention of the department during the fiscal year. A description of the work done at each, will be found in Appendix 3, pages 75 to 83:—

Amherstburgh, Meaford,
Belleville, Oakville,
Collingwood, Owen Sound,
Gananoque, Picton,
Hamilton, Port Credit,
Kincardine, Toronto.

Kingston.

PIERS.—In Appendix 3, pages 75 to 83, will be found a description of the work done to the following piers, viz.:—

Beaverton, Port Hope,
Burlington channel, Port Stanley,
Goderich, Rondeau,
Kingsville, Southampton,
Port Elgin, Thornbury.

, PARLIAMENT HILL GROUNDS.

CONTRACT.—The contract for the keeping and dressing of the Parliament grounds, has been satisfactorily carried out.

(See Appendix No. 2, page 31.)

PRINCE EDWARD ISLAND.

BREAKWATERS.—The breakwaters at the following places were repaired, extended or reconstructed during the fiscal year, viz.:-

Bay Fortune,

Campbell's Cove,

Brae Harbour,

Malpeque.

(See Appendix No. 1, page 14. Appendix No. 3, page 41.)

BUILDINGS.—Minor repairs to the Dominion building, Charlottetown, and Souris Marine hospital were effected.

(See Appendix No. 1, page 3. Appendix No. 2, page 24. Appendix No. 21,

HARBOURS.—Harbour improvements were executed at the following places, viz.:--

Miminegash,

Summerside,

Rustico,

Tignish.

(See Appendix No. 1, page 14. Appendix No. 3, page 41.)

PIERS.-The following piers were repaired, rebuilt or extended during the fiscal year, viz.:-

> Bay View, Belfast, Clifton,

North Cardigan, Port Selkirk,

Pownal,

Georgetown, Higgin's Shore, Miminegash,

Mink River,

Rustico (South), St. Peter's Bay,

Sturgeon, Victoria.

(See Appendix No. 1, page 14. Appendix No. 3, pages 41 to 47.)

PUBLIC BUILDINGS, OTTAWA.

MAINTENANCE.--The heating, lighting, bell and water services in connection with the Parliament and other public buildings in the capital were maintained with efficiency and due regard to improvement and economy.

(Particulars are given in Appendix No. 1, page 5. Appendix No. 2, pages 29 to 31. Appendix No. 21, page 232.)

QUEBEC.

Buildings.—Improvements, repairs, additions or extensions were made to the following public buildings and institutions during the fiscal year, viz :-

Fraserville,

Quebec citadel,

Grosse Isle quarantine station,

do examining warehouse,

Lachine,

do post office, St. Hyacinthe,

Montreal custom house,

do examining warehouse, St. Jérôme.

do inland revenue office,

St. Vincent de Paul penitentiary,

post office, do

Three Rivers,

Quebec culler's office,

Valleyfield.

(See Appendix No. 1, page 4. Appendix No. 2, pages 26 to 28. Appendix No. 21, page 231.)

xxiv

Channels, etc.:—Baie Lavallière, near the mouth of the River Yamaska, was drained by means of a channel dredged from River Yamaska towards Pot au Beurre River; a channel was also dredged through the Lake of Two Mountains, to a depth of 10 feet; and boulders that obstructed the channel of the River Mattawin, in the parish of St. Michel des Saints, were removed; at Chute Monte-à-peine on Rivière L'Assomption the protection work was extended and points of rock and boulders removed from the channel; two gangs of men wrought during a portion of the season, removing the Maccinac Shoal, and blasting rock at the Manigance rapid on the River St. Maurice, and the channel of the Yamaska River above the lock was improved by dredging. Operations for the improvement of the ship channel between Montreal and Quebec, were continued during the year; at Ste. Anne de la Pérade the channel at the outlet of the River Ste. Anne, was improved by dredging.

HARBOURS.—The dredge St. Louis commenced operations at Longueuil, but the material being too hard for her machinery, the work was abandoned. At Laprairie the retaining wall was extended. (See Appendix No. 3, page 70.)

(See Appendix No. 3, page 71.)

PIERS.—During the past fiscal year, piers, have been commenced, completed, repaired or extended at the following places, viz:—

Belœil, Matane,
Cacouna, Nicolet River,
Isle Verte, Rimouski,
Lake Megantic, Sorel,

Lanoraie, Ste. Anne des Monts.

Longueuil,

(See Appendix No. 1, page 14. Appendix No. 3, pages 68 to 75.)

Wharves.—The requirements of public wharves have been attended to by the department at the following places, during the fiscal year, viz.:—

Anse St. Jean, Murray Bay,
Berthier, en bas,
Carleton, Rivière Blanche,
Chicoutimi, Ste. Anne du Saguenay,

Coteau Landing, St. Michel,
Grande Rivière, St. Zotique,
Grosse Isle, Tadoussac,
Knowlton's Landing, Trois Pistoles.

Lévis Ferry,

(See Appendix No. 1, page 14. Appendix No. 3, pages 68 to 75.)

ROADS AND BRIDGES.

Construction, &c.—A detailed account of the expenditure on roads and bridges will be found in Appendix No. 1, page 19, and a description of the work done in Appendix No. 3, pages 72, 74 and 83 and Appendix No. 4, page 130.

SLIDES AND BOOMS.

COLLECTOR'S REPORT.—The report of the collector of slide and boom dues, for the fiscal year, will be found at page 149 of Appendix No. 8.

To this report eight statements are attached, viz:-

1st. Showing the dues accrued on the Government slides and works, on the River Ottawa and its tributaries, during the fiscal year ended 30th June, 1892.

2nd. Statement of the number of pieces of saw-logs, &c., that passed through the Government slides and works, on the River Ottawa and its tributaries, during the fiscal year ended 30th June, 1892.

3rd. Statement of slide and boom dues, accrued from Ottawa River works since 1st July, 1889, outstanding on 30th June, 1892.

4th. Statement of slidage and boomage from the Ottawa slides and works, outstanding at Ottawa, previous to 1st July, 1889.

5th. Statement of outstanding slide dues, Ottawa District, bonds for which were sent to Quebec for collection, remaining unpaid 30th June, 1892.

6th. Statement of slide and boom dues from the St. Maurice slides and works outstanding on 30th June, 1891, and remaining uncollected the 30th September, 1891.

7th. SAGUENAY DISTRICT—Statement of slide dues accrued at the Saguenay, outstanding on 30th June, 1892.

8th. Statement of slide and boom dues accrued on the Fenelon River works outstanding on 30th June, 1892.

NEWCASTLE DISTRICT.—A detailed description of the repairs executed, and a statement showing the quantities of timber that passed through the slide is inserted at page 137, Appendix No. 5.

Ottawa District.—A detailed report on the work done, under the direction of the department, and a statement showing the number of pieces of timber that passed through the Government slides and works on the Ottawa River, and its tributaries, etc., will be seen on reference to Appendix No. 4, page 129.

SAGUENAY DISTRICT.—The report of the superintendent of slides in this district is attached at page 145, Appendix No. 7.

St. MAURICE DISTRICT.—The report of the superintendent, and details of the expenditure in connection with the maintenance of the St. Maurice district works are given in Appendix No. 6, page 141.

STAFF EMPLOYED.—In Appendix No. 9, page 160, is given a list, showing the names, date of birth, where employed, date of appointment and salary, of each one of the staff, employed on all the slides and booms in Canada.

SURVEYS AND EXAMINATIONS, &c.

Preliminary surveys, examinations and reports, were made at 134 different localities by officers of the department during the fiscal year, a list of which will be found in Appendix No. 3, pages 87-88.

TELEGRAPHS.

Important improvements to, and extension of, the Government telegraph system were carried on throughout the Dominion, the particulars of which are attached in the acting superintendent's report, Appendix No. 10, page 165.

I have the honour to be, sir,

Your obedient servant,

A. GOBEIL,

Deputy Minister.

APPENDIX No. 1.

STATEMENT OF EXPENDITURE

BY THE

DEPARTMENT OF PUBLIC WORKS

DURING THE FISCAL YEAR ENDED 30th JUNE, 1892.

O. DIONNE, ACCOUNTANT.

(Reference No. 135628.)

APPENDIX No. 1.

STATEMENT showing the amount expended by the Department of Public Works, Dominion of Canada, during the fiscal year ended 30th June, 1892.

Name of Work.	Con- struction and Im- provements	Repairs.	Staff and Main- tenance.	Total.	
PUBLIC BUILDINGS.	\$ ets	\$ cts.	\$ cts.	* c	
Generally		37 13	14,748 91	14,786	04
Nova Scotia.				•	
Amherst post office, &c Annapolis do Antigonish do Baddeck do Dartmouth do Halifax Dominion building do examining warehouse. do immigrant building do penitentiary. Lunenburg post office Nappan experimental farm. New Glasgow post office, &c North Sydney do Pictou quarantine hospital. Sydney (South) post office, &c do quarantine station—Rebuilding wharf, &c. Truro post office, &c Windsor post office, &c Yarmouth do Prince Edward Island.	11 00 4,521 18 2,482 34 1 16 1,644 01 107 20 498 70 1,014 58 300 00	190 49 1,764 99 1,257 95 0 24 8 20 75 00 40 55 40 00		12 82 37 190 4,521 1,764 1,257 2,482 1 1 1,644 6 8 182 498 1,014 300 6 40 1 40 31 1	12 33 49 18 99 534 24 601 20 70 55 00 55
Charlottetown Dominion building	, 50 55	1,383 95 5 97 21 84		2,494 9 291 9 56 9 577 9	98 55
Bathurst post office Carleton do (St. John) Chatham do Dalhousie do Fredericton do Moncton do Newcastle do Partridge Island quarantine station. Portsmouth post office. St. John civil service examination office. do custom-house (destroyed by fire 19th March, 1892).	5,271 65 129 00 4 73	396 80 280 00		42 (28 : 5,285 : 188 : 338 : 272 : 396 : 280 : 130 : 1,557 :	35 70 50 23 30 80 00 90
Carried forward		7,638 07	14,748 91	40,838	 50

Name of Work.	Con- struction and Im- provements.	Repairs.	Staff and Main- tenance.	Total
PUBLIC BUILDINGS—Continued.	\$ ets.	\$ ets.	\$ cts.	
New Brunswick—Concluded. Brought forward	18,451 52	7,638 07	14,748 91	40,838 5
t. John custom-house—New (clearing debris) do do —Temporary quarters	2,965 72			2,965 73 3,441 5
do Fort Howe—See page 20. do inland revenue office		100 57		0 9 100 5
do post office		18 05 41 33		517 4: 18 0: 41 3:
t. Stephen's do		84 25 12 94 64 30		84 29 12 9 64 3
Quebec.				
ylmer post office, &carillon inland revenue building—Improvementshicoutimi marine hospital.oaticook post office, &c	170 00	5 50		5 5 170 0 299 4
rosse Ile quarantaine station	4,045 05			9 3 4,045 0 12 8
achine do aprairie do		15 57		15 5 6,311 2 5,435 3
do examining warehouse. do immigrant building.	2,399 97	699 46 556 52 6 00		3,435 3 3,099 4 556 5
do inland revenue office	4,996 94 1,058 95	26 76 4,511 10		26 7 9,508 0 1,058 9
uebec citadel buildings do clerk of works office do culler's office		1.106 55 711 00 1,473 06		1,106 5 711 0 1,473 0
do custom-house	250 00	153 36 88 09		153 8 250 (88 (
do immigrant building		15 50 151 00		177 9 15 8 151 0
do old Parliament grounds	1,055 92	1,730 70		175 (2,786 (15 (
do weights and measures office	7 20	549 70 70 50		6,558 549 77
t. Henri do t. Hyacinthe dot. Jérôme do		93 50		8,227 126
t. John's do t. Vincent de Paul penitentiaryte Thérèse inland revenue office	32,064 66	89 74		32,064 27
hree Rivers custom-house		714 56 463 44 534 10		714 463 534
Vest Farnham do &c	1,519 15			1,519
.lmonte post office, &c		2 00		9
				$\frac{2}{2}$

Name of Work.	Con- struction and Im- provements.	Repairs.	Staff and Main- tenance.	Total.	
PUBLIC BUILDINGS—Continued. Ontario—Continued.	\$ cts.	\$, cts,	\$ cts.	\$ ets	
Brought forward	99,002 21	22,964 80	14,748 91	136,715 92	
arrie post office. &c	128 47	174 88		303 35	
elleville do	379 09	175 20	•• • • • • • • • • • • • • • • • • • • •	175 20	
erlin do	11 40	46 78 17 14		425 87	
rampton do	46 15	17 14		28 54 46 18	
do nost office &c		234 65		234 65	
moleville most office &c		53 00		53 00	
arleton Place post office, &c	12,322 65			12,322 6	
ayuga do		157 19		157 19	
hatham do		34 11		94 7	
obourg do	1,114 76	19 62		1,134 3	
ornwall do	:	11 86 504 20		11 8 504 2	
undas do		81 23		81 2	
ant doananoque custom-house		312 00		312 0	
adomich most office from	65 00	4 00		69 0	
nelph do		75 42		75 4	
amilton gustom-house	l 7 .	147 58		147 õ	
do deill ball		12 45		12 4	
do nost office		1,541 46		1,541 4	
ingeton civil corvice eveningtion office	1	9 45 715 12	[9 4	
do custom-house	15.78	710 12		715 1	
do military college, new dormitory	10 10	107 63		$\frac{15}{107} \frac{7}{6}$	
do post office		26 46		26 4	
undsay do &c		136 57		136 5	
do drill hall	7 50			7 5	
do infantry school	2,791 62			2,791 6	
do post office—Alterations	1,708 00	92 60		1,800 6	
condon custom-house do drill hall do infantry school do post office—Alterations Vapanee do &c Viagara Falls post office, &c Orangeville do Orillia do Ottawa experimental farm	1,025 70	99 40		1,113 4	
Nagara Falls post office, &c		116 41		28 4	
Drangeville do Drillia do Dttswa experimental farm do do lighting	4 330 78	110 11		116 4 4,330 7	
Ottowo experimental form	7,119 00			7,119	
			263 03	263	
do do lighting do geological nuseum do lighting do Major's Hill park	1	704 91		704 9	
do do lighting			704 00	704 (
do Major's Hill park			3,820 50	3,820	
do national art gallery.	54 20	6,577 17	0.0	816 2	
do national art gallery. do post office. do do lighting.	34 30	0,577 17	3,121 34	6,631 4 3,121 3	
do do lightingdo printing bureau	9 768 13	463 11		10,231	
do printing bureau	671 00	1		671	
do do hosting				444	
do do lighting				1,113	
do public huildings	309 00	116,567 18		116,926	
do do Langevin block	1 0,010 01		60 504 00	3,510	
do do gos and electric lighting	d	• • • • • • • • • • • • • • • • • • • •	20,534 66	20,534	
do do grounds				5,653 57,947	
do do heating			1,041 25	1,041	
do do neatingdo do do removal of snow do do telephonic service			3,447 80	3,447	
do do water			14,942 22	14,942	
do supreme court,—Addition to building	14,718 75			14,718	
do do Lighting				43	
Pembroke post office. &c	. 2,043 25			2,043	
Peterborough new custom-house	10,451 29	0.05		,	
do post office, &c	• • • • • • • • • • • • • • • • • • • •	. 3 65	· · · · · · · · · · · · · · · · · · ·	3	

Name of Work.	Con- struction and Im- provements.	Repairs.	Staff and Main- tenance.	Total.	
PUBLIC BUILDINGS—Continued.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	
Ontario-Concluded.					
Brought forward	171,644 75	152,264 63	128,641 54	452,550 92	
Petrolea post office, &c Port Arthur immigration building		59 77		2,699 99 59 77	
do post office, &c	4.404 79			4,404 79	
do post office, &c	1,202	62 95		62 95	
Port Hope post office, &c		66 04		66 04	
Prescott do		53 30		53 30	
Rideau Hall		11,394 53	0.000.00	11,394 53	
do fuel and light do lighting New Edinburg street		.,	8,000 00	8,000 00	
do lighting New Edinburg street			400 00 450 00	400 00	
do removal of snow		3.75	4.50 00	450 00 3 75	
Strathroy do	637 90	9 15		647 05	
St. Catharines post office, &c				112 23	
St. Thomas do				9 00	
Toronto civil service examination office		122 60		122 60	
do custom-house		857 36		857 36	
do drill hall	39,926 20	F 457 (10)		39,926 20	
do examining warehouse do inland revenue office		547 63 142 54	• • • • • • • • • • • • • • • • • • • •	547 63	
do inland revenue office	3,295 42	142 04		142 54 3,295 42	
do post office		1.848 08		1,848 08	
Trenton do		58 00	!	261 00	
Walkerton do		4 30		7,255 57	
Windsor do		614 89	·	614 89	
$m{M}$ ani $toba$.					
Brandon experimental farm	3,446 11			3,446 11	
do industrial school				284 91	
do post office, &c	14,072 11			14,072 11	
do post office, &cPublic buildings generally			1,390 30	1,390 30	
St. Paul Indian industrial school.		15 00		15 00	
Winnipeg clerk of works office		1,232 75		1,232 75	
do custom-housedo examining warehouse		155 26 239 37		155 26	
	2 090 97	200 01		239 37	
do Fort Osborne do immigrant buildings.	1 998 70	104 10		3,929 27 2,102 80	
do Indian office	1,0.00 10	11 72		2,102 80	
do land office		123 17		123 17	
do post office		337 62		337 62	
do savings bank		17 00		17 00	
North-west Territories.			1		
Battleford mounted police barracks		2,043 68	1	0.049 00	
Bull's Head do do		3 00		2,043 68 3 00	
Calgary do do				2,397 31	
do court-house and jail	452 14			452 14	
do mines office		50 00		50 00	
do post office, &c.—Land for site.	2,500 00			2,500 00	
Coutts mounted police barracks. East end do do				31 00	
East end do do Edmonton crown lands and timber agent's office		13 20		13 20	
do immigrant building	884 11			55 57 884 11	
Edmonton mounted police barracks.	004 11	54 33		884 11 54 33	
do registry office	19.75	1	1	13 75	
Fort Macleod custom-house	1	81 33		81 33	
do mounted police barracks		901 72		901 72	
Fort Saskatchewan do do		402 19		402 19	
	9 000 40	1		3,980 48	
		1	• • • • • •		
	3,980 48	301 33		301 3	
Indian Head experimental farm	<u> </u>		138,881 84	301 33	

	Name	of Work.		and In	struction and Im- provements.		Repairs.		Staff and Main- tenance.		Total.	
PUBL	IC BUIL	DINGS-	-Continued.	-8	cts.	*	ets.	8	ets.	8′	cts.	
North	west Terr	ritories – C	oncluded.									
	Brou	ght forwa	rd	261,680	47	175,745	83	138,881	84	577,308	3 14	
Kutawa mou Lethbridge Maple Creek	nted polic do do		(S				60 26 54				7 60 0 26 9 54	
Milk River Ri	dge mount	ed police r	parracks			5	70			. 550 5	00 5 70	
Moosomin cou	rt-house			1		22	98	· • • • · · · · ·		22	3 11 2 98	
			ks				56 50			3,129	5 63 9 56 7 50	
Pincher Creek Prince Albert o	do do court-house	do doek-up	cks.	37	65	59 81	81 50			59	90 981 915	
do (Crown land inmigrant	l and timb building	per office	$^{233}_{1,020}$	35 57	540		• • • • • • • • • • • • • • • • • • • •		$\frac{233}{1,020}$	35 57	
ao 1 Public building Qu'Appelle in	gs generall migrant bi	y yilding	CKS.			543 22		3,796	10	3,796	3 39 3 10 2 00	
do mo Red Deer indu	unted poli strial scho	ce barrack ol	8	3,134	67	42	95 				95	
do court-h	DIISE					532 73	10			73	2 42 3 10	
do iailand	ation build	ling			• • •	701 487	35 41		• • • •	701	78 35 41	
do jail—St do Lieuter	eam heati ant-Gover	ng, water nor's resid	supply, &c lence (new)	2,696 6,100	41 26	• • • • • • • •				2,696 6,100	6 41 9 26	
do North-	vest counc	il chambe	 r	10.496	-07 1	l				1,460 10,496	07	
do Wagon	a dam (w	ston aurus)	y)	37	44	100		•••••		37	35 44 00	
Stand-off Touchwood	do do	do do				8	00			8	00 8 00 8 95	
Whitewood Wood Mounta Writing-on-Sto		do do do				372 475	00			372 475	00	
Ξ,	British	Columbia		!		02	10			. 32	78	
							00	•••••			00	
Nanaimo post New Westmins do	ter custom	ı-house ion buildi	ing (old)		: . : :	152	96 00 75			152	96 96 75	
do do	inland land o	revenue office	office			127 11	00 25	•••••		127	00 25	
do do	post of	ffice		35,259	. [1,848	50 90 20			1,848		
Vancouver pos Victoria coal sl do custon	ed			182		274				35,278 182 274	34	
do drill he do immig	ill rant buildi	ng		2,865			90.			2,865 15	50 00	
do post of	fice			403	00	541	98			403 541 30		
GO SMAILE	Engl									•167	1,70	
London High (Commission	er's house	÷			30	66			30	66	
				338,363	63	190,966	66	142,677	94	672,008	23	

Name		Construction and Improvements.	Repairs.	Staff and Main- tenance.	Total.		
PUBLIC BUII			<i>1</i> .	\$ cts.	\$ ets.	\$ ets.	\$ cts.
							012,000 20
Expenditure on Account Services Mentioned.	Salaries of Engineers, &c.	for En-	Heating.	Lighting.	Water.	Total.	
Nova Scotia.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	
Amherst post office	400 00		257 25			891 92	
Annapolis do Antigonish do	400 00 400 00	16 52 2 77	117 50	1 25	40 00	521 52	
Arichat do Baddeck do	15 00 200 00		78 75 107 00			93 75 327 35	
Halifax appraiser's office			146 19			146 19	
do Dominion building do examining ware-	2,017 96	10 40	890 61	2,615 30		'	
house do immigrant shed	I .	3 00	13 20 21 88			740 44 336 04	
New Glasgow post office	400 00		138 18	410 49	100 00	1,053 59	
North Sydney do Pictou marine hospital	400 00			279 02		841 47 80 64	
do post office	400 00		150 68			550 68	
Sydney South post office Truro do	400 00 400 00		100 00 143 00		20 00		
Windsor do Yarmouth do		1	164 67				
Prince Edward Island.	100 00		, ,				
Charlottetown Dominion		1	Ì				
building					225 00	4 000 00	
Montague post office Summerside do	400 00			26 13		223 54	
New Brunswick.			!	40 80		798 39	
		0.00	400 40			040.00	
Bathurst post office Carleton, St. John, post	400 00	6 09	430 12	12 15		848 36	
office	100 00		56 28			312 51 328 64	
Chatham post office Dalhousie do		6 80			35 00		
Fredericton do Moncton do							
Newcastle do			324 12	285 90		1,010 02	
Portland do St. John custom-house	1 796 60	60 05	29 94 1,432 42			29 94 3,878 63	
do marine hospital			557 34	212 76	44 37	814 47	
do penitentiary	450 00 1,169 87		47 60 579 92			503 85 4,130 92	
do savings bank		1 82	264 17	58 26	19 96	344 21	
St. Stephen's post office Sussex do						1,174 15 613 54	
Woodstock do	000 00						
Quebec.							
Aylmer post office			150 99			290 21	
Coaticook do Hull do	400 00 116 62		220 50 259 50				~
Car ed forward		.	ļ	·	\		070 000 0
I SEE AN ENWARM	. 10.030 Ui	423 60	9,721 83	10,860 03	2,656 22	40,357 73	672,008 2

				1			
Name	e of Work.			Con- struction and Im- provements.	Repairs.	Staff and Main- tenance.	Total.
PUBLIC BUII	DINGS.—	Continued	<i>l</i> .	\$ cts.	\$ ets.	\$ cts.	* cts.
Broug	ght forward	l .		338,363 63	190,966 66	142,677 96	672,008 23
EXPENDITURE ON ACCOUNT SERVICES MENTIONED—Continued.	Salaries of Engineers,		Heating.	Lighting.	Water.	Total.	
•	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	
Brought forward	16,696 05	423 60	9,721 83	10,860 03	2,656 22	40,357 73	
${\it Quebec}{\rmConcluded.}$							
Joliette post office Lachine canal office do post office Montreal custom-house do drill hall	56 15 124 98 1,360 00 540 00	13 53	198 96 9 65 70 25 804 74	57 75 3 00 541 30	108 00 11 75 346 75	68 80	
do examining ware- house	1,310 00	454 89	1,922 87 219 52	688 08	576 13	4,951 97 219 52	
do post officeQuebec citadel buildings.do cullers officedo custom-house			244 76 746 36 206 02 384 62 1,251 50	245 10 4,950 48 127 26		1,484 46 8,719 57 387 03 924 62 2,753 80	
do examining ware- house do observatory do post office Sherbrooke do Sorel do St. Jérôme do St. John's do	1,091 20 400 00 400 00 400 00 349 96	25 48 62 22	999 48 552 80 325 15 286 80 207 13 152 00	176 00	42 00 50 00 250 00 142 50	2,032 52 1,239 38 1,193 52 945 79	
St. Vincent de Paul penitentiary. Three Rivers custom-house do post office Valleyfield do	600 00		710 07 371 96 176 53 48 00	4 88	60 00	#10 07 1,079 31 684 76 66 78	
Ontario.						,	
Almonte post office. Amherstburg do Barrie do Belleville do Berlin do Brampton do Brantford do Brockville do Carleton Place post office. Cayuga do Chatham do Cobourg do	400 00 400 00 400 00 600 00 400 00 400 00 400 00 400 00 400 00 400 00	2 50 1 20 18 91 14 05 7 80	222 25 165 50 244 50 298 50 221 95 146 25 312 31 281 75 57 50 172 50 261 82 272 25		104 15 81 75 35 25 47 25 30 40 170 00	637 92 999 85 1,472 14	
Cornwall do .	475 00	7 35	257 20 26 25	462 88 91 85	45 00	1,247 43 118 10	
Dundas do . Galt do . Gananoque custom-house .	400 00		209 00 106 00	242 80	32 75	884 55 106 00	
Carried forward	33,457 11	1,561 24					672,008 23 9

Name	of Work.			Construction and Insprovements.	Repairs.	Staff and Main- tenance.	Total.
PUBLIC BUII	LDINGS	Continued	!•	\$ ets.	\$ cts.	\$ cts.	\$ ets.
Broug	ght forward			338,363 63	190,966 66	142,677 94	672,008 23
Expenditure	Salaries of Engineers, etc.	Supplies for En- gineers, &c.	Heating.	Lighting.	Water.	Total.	
ON ACCOUNT SERVICES MENTIONED—Continued. Ontario—Concluded.	\$ ets.	\$ ets.	\$ cts.	\$ cts.	\$ cts.	\$ ets.	
Brought forward	33,457 11	1,561 24	22,866 53	23,502 86	7,563 65	88,951 39	
Gananoque post office Goderich do Guelph do	400 00	38 52	67 84 199 50 272 95	27 47	46 80	386 14 665 49 964 25	
Hamilton custom-house do drill hall do post office	600 00 360 00		00.00	87 80	•••••	717 80 360 00	
Kingston custom-house do examining ware-	91 60	38 80	276 00		70 80	602 20	
house do inland revenue office] 			43 40	12 00 113 26	12 00 156 66	
do military college. do post office Lindsay do	1,440 00 98 25	3 50				1,440 00 658 41 639 79	
London custom-house do post office Napanee do	1,000 00 600 00 400 00	10 67	580 99 576 26 221 75	631 70		1,903 63	
Niagara Falls post office Orangeville do Ottawa experimental farm	400 00 400 00	23 75 3 00	232 80 162 22	52 21 125 80	29 00		
Pembroke post office Peterborough do Port Arthur do	400 00 400 00	5 40	150 90	240 00 301 65	75 00	796 30	
Port Colborne do Port Hope do	240 00 400 00 405 00	13 20		96 25 188 20		406 78 828 40 678 52	
Stratford do Strathroy do	650 00 400 00	14 90 8 00	359 35 137 53	339 80 19 43	63 00	1,427 05 564 96	
St. Thomas do Toronto assistant receiver	400 00			413 55	35 67	1,279 37	
do custom-house do Dominion build'gs		64 71	351 75	74 82 100 59			
do examining ware- house do inland revenue	2,350 79	3 04	774 58	23 41	112 00	3,263 82	
$\begin{array}{ccc} & \text{office} & \dots & \dots \\ \text{do post office} & \dots & \dots \\ \text{Trenton} & \text{do} & \dots & \dots \end{array}$	648 34 3,038 49 400 00	22 08	216 62 711 2 9 179 50	235 59 3,849 23 208 00	162 52 657 04		
Walkerton do Windsor do	366 67 1,000 00	20 55	191 38 438 15		97 50	578 60	
M anitoba.							
Brandon Dominion lands office				56 00		56 00	
Carried forward	53,918 55	2,111 96	31,970 85	34,844 41	11,496 90	134,342 67	672,008 23

Department of Public Works. APPENDIX No. 1—Continued.

Name	of Work.			Con- struction and Im- provenients.	Repairs.	Staff and Main- tenance.	- Total.	
PUBLIC BUIL Brought for				\$ cts.	\$ cts. 190,966 66	\$ cts.	\$ cts. 672,008 23	
EXPENDITURE ON ACCOUNT SERVICES MENTIONED—Continued.	Salaries of Engineers, &c.	Supplies for Engineers, &c.	Heating.	Lighting.	Water.	Totals.		
Manitoba.—Concluded.	\$ ets.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ ets.		
Brought forward	53,918 55	2,111 96	31,970 85	34,844 41	11,496 90	134,342 67		
Brandon experiment'l farm do post office Deloraine Dominion lands	400 00	55 65	110 80 1,355 51		52 80	110 80 1,935 24		
office			62 50		•••••••	62 50		
lands office			125 80 673 55		91 20	125 80 1,001 27		
office do examin'g ware-			272 15	14 04	····	286 19		
house . do immigrant shed			475 75 759 50 180 50	247 15	125 00			
do Indian office do post office	2,973 25	61 12	2,554 77		550 00			
North-west Territories.								
Battleford, Dominon lands office.			52 5 0			52 50		
Birtle, Dominion lands office			85 75	: 		85 75		
Calgary barracks do court-house do custom-house			492 75 40 00			2,750 00		
do Dominion lands) 	1	168 00		
officedo immigrant sheddo nines office			80 00	}				
Coteau Dominion lands office			19 00)		19 00		
Edmonton Crown lands,	l	1)		28 00		
Fort Macleod custom-):):				
house)		238 90		
Lethbridge Dominion lands office			42 50			42 50		
Medicine Hat intelligence office			17 00			17 00		
Moosomin court-house Prince Albert court-house	400 00 400 00		403 96	30 90)	882 41		
do Crown lands			89 78	5		89 75		
do registry of- fice Red Deer Dominion lands	[24 00			24 00		

「1892]

Name	Construction and Improvements.	Repairs.	Staff and Main- tenance.	Total.			
PUBLIC BUILDINGS—Concluded. Brought forward				\$ cts.	\$ cts.	\$ ets.	\$ ets.
EXPENDITURE ON ACCOUNT SERVICES MENTIONED - Concluded.	Salaries of Engineers, &c.	for En-	Heating.	Lighting.	Water.	Totals.	
N. W. T.—Concluded.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ ct3.	\$ cts.	
Brought forward	58,091 80				•	153,639 93	
Regina court-house do jail and lunatic		<i>'</i>				717 46	
asylum do LieutGovernor's	1,560 00	10 00				1,570 00	
residence do post office do registry office Saltcoats Dominion lands						400 00 246 00 197 61 11 50	
British Columbia.	••••	•••••	11 50			11 50	
Kamloops Dominion lands office	600 00			318 55		19 75 1,214 55	
office Vancouver post office Victoria appraiser's office. do custom-house do post office do savings bank	600 00 77 50		33 37 450 22 1 40	266 55 41 00 970 35	12 00 29 74 31 79	104 11	
sures office		,		1	12 00	12 00	
Miscellaneous.			!				
Dominion buildings generally			4,216 28	 	1,484 79	5,701 07	•
Totals	61,329 30	2,357 53	46,883 59			166,426 16	166,426 1
	forward	i			190,966 66	309,304 10	838,434 3

Name of Work.	and Im- Repairs. and M		Staff and Ma tenand	in- Total.		l.		
,	*	cts.	*	cts.	*	cts.	\$	cti
Forward	338,363	63	190,966	66	309,104	10	838,434	39
HARBOURS AND BREAKWATERS.							•	
Nova Scotia.								
bercrombie wharfrisaig pier	864 3,001	22	••••••	• • •	· • • • • • • • • • • • • • • • • • • •	.	864	
spy Bay		95					3,001 199	
eaver River		00					450	
g Pond		00	1,076					0
road Cove Marsh pierrulé pier							1,076	5 O
anada Creek pier			2 50	00			250	
ape Sable Island breakwater, south side	300	54					306	3 5
neticamp—Dredging	4,89	, , ,					4,895	
burch Point wharf	1,434	38					200 1,434	
vburne Brook	i		200	00			200	0
ow Bay breakwaterribbin's Point wharf	3,499 6,081		•••••				3,499	
evil's Island breakwater		99					6,081	19
ighy—New pier at the Raquette	9,80						9,804	1 7
do old pier				76			2 9	7
ast Bay wharf atonville or "The Three Sisters"—Beach protection		• • • •	911	10		• • • •	811	1 1
works	569	74				!	569	9 7
conomy breakwater	1,16	3 8			l		1,16	
ox Island do	2,86		50	00	<u> </u>			0 0
rench River piereorgeville wharf							2,860 4,874	
rand Narrows wharf	14	75						$\frac{1}{9}$ $\frac{1}{7}$
reat Village	1,58 10,00						1,58	5 Ò
lalifax graving dock—Subsidy		00	 				10,000	
[arbourg generally					4,771		4,77	00 17
ngonish south nigr				3 50				8 5
rish Cove	1,20	, 00	98	771			1,20	0 0
oggins breakwaterordon Bay do				00			98	7 0 0
'Ardoise do	0,97						5,97	
ismore—Extension of pier	1,30						1,30	0 0
labou harbour	0,00		586	8 08			8,39	
largaretville nier	1		2,19				2,19	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Looghov's Rosoh	יו ו	יטעיי					599	90
lerigomish				4 80 0 00				4 8
IcNair's Cova	1		"	5 00				0 0 5 0
miluia suband	1			00			. 50	0 (
ictou Island wharves	2,09	o 29	2,94	7 00		• • • •	2,09	
ort Georgeort Hood pier	2	7 45		000			2,94	$\frac{7}{7} \frac{0}{4}$
ort Lorne	1		99	3 22				3 2
ort Maitland or "Green Cove"	2 70	4 96	29	8 45	ļ			8 4
ound Hillaulnièreville pier		760				• • • • •	3,72	
tony Island	3,26	0 00				 	3,26	7 6 0 0
outh Gut pier		• • • •		9 66	ļ		49	9 6
Trout Cove	5.39	3 84	10	0 31		• • • • •		0 8
ValtonVest Arichat—Breakwater	0,02		51	8 34	1	• • • • •	5,32	8 3
Vest Chezzetcook	2,52	6 32				• • • • •	2,52	
Vest Pubnico				0 00		• • • • •	25	60 (
Tarmouth		• • • •		0 00		• • • • •	5	60 (
Carried forward	425,77	2 54	205,55	2 46	313,87	5 64	945.20	

Name of Work.	Construction and Improvements.	ruction Repairs.		struction and Im-		Total.
Brought forward	\$ cts. 425,773 54	\$ cts. 205,552 46	\$ cts. 313,875 84	\$ ets. 945,201 84		
HARBOURS AND BREAKWATERS-Continued.						
Prince Edward Island.						
Bay Fortune harbour	46 17			46 17		
Bay Fortune harbourBayview wharf.	499 63			499 63		
Belfast pier	891 10	699 28		699 28 891 10		
Brae harbour breakwater Harbours generally Higgin's Shore wharf			4,994 92	4 994 99		
Higgin's Shore wharf	• • • • • • • • • • • • • • • • • • • •	511 56		511 56 1,208 45		
Clifton pier—New London		49 99		49 99		
Higgin's Shore wharf Campbell's Cove pier. Clifton pier—New London Hurd's Point pier Malpeque breakwater Miminegash do Mink River do New London, see Clifton. Ning Mile Creek - Extension of vier		23 00		23 00		
Malpeque breakwater	90.51	350 00		350 00 39 51		
Mink River do	99 91	1.100 00		1,100 00		
New London, see Clifton						
Nine Mile Creek—Extension of pier. North Cardigan pier Port Selkirk do South Rustico do	33 14	974.07		33 14 274 97		
Port Selkirk do	2.325 25	214 91		2,325 25		
South Rustico do		146 94		146 94		
ot. reters Day breakwater		411 19		411 13 361 15		
rignish do		50 03		50 03		
New Brunswick.				-		
		50 19		59 13		
Anderson's Hollow		319 70		319 70		
Campbellton ballast wharf	3,448 48			3,448 48		
Anderson's Hollow Black River breakwater Campbellton ballast wharf Cape Tormentine breakwater Cape Tormentine breakwater	52,889 92 875 00		· · · · · · · · · · · · · · · · · · ·	52,889 92		
Caraquet harbour—Wharf at Oyster Grounds	0,000			875 00 1,000 99		
Cocayne wharf	2,250 39			2,250 39		
Dalhousie ballast wharf	500 38		•••			
Edgett's Landing	4,873 00	1		1,901 00 4,873 00		
Harbours generally			4,771 74	4,771 74		
Harbours generally Kingston wharf—on Richibucto River	2,355 00 1,064 34		`•••••. ••••••			
Lower Neguac wharf				1,064 34 $1,350$ 82		
Quaco breakwater		,		_,500 02		
do Oromocto do 54 30	2 014 40			2 014 40		
do removel of energy		i	250 00	3,014 49 250 00		
do generally			178 91	178 91		
do generally Shippegan breakwater St. John harbour—Partridge Island wharves.	9,714 52	400 99		9,714 52		
St. John harbour—Partridge Island wharves do Negro Point breakwater		100 40		499 23 14,968 20		
Pobique River	200 00			200 00		
Fracadie wharf Tynemouth or "Ten Mile Creek"		52 68		52 68		
West Quaco—new outlet for Irish or Mosher's River.	1,841 63	1,000 00		1,000 00 1,841 63		
Quebe~.			1			
Agnès wharf, Lake Mégantic		349 80		349 8		
Anse à L'Eau or "Tadousac" pier	1,996 47	34.7 00		1,996 4		
Anse St. Jean Dier		775 74		775 7		
Baie des Pères pier, Lake Témiscamingue	68 12	24 90		68 1 24 9		
		1	I .	ı		
Carried forward	510 001 00	001 140 15	904.073.45	1 071 010 0		

Name of Work.	Con- structio and Im provemen	1-	Rep	airs.	Stand I and I tena	Main-	Total	••
	\$ cts	s.	\$	cts.		cts.	\$ ct	 ts.
Brought forward	516,601	08	231,1	40 15	324,0	71 41	1,071,81	2 64
HARBOURS AND BREAKWATERS-Con.		İ						
Quebec—Concluded.								
Selcril piers Serthier (en bas) pier Serthier (en haut) ice pier	13]		193 88 185 93	1			0 88 5 93 3' 50
Jacouna pier	300	1				••••	35	$\frac{500}{211}$
Arieton do Licoutimi pier Loteau Landing pier—Reconstruction Ltang du Nord Breakwater—He aux Groëlands Frande Rivière Lrosse He quarantine station wharf	1,496 9,454	57 78	·····i	01 85 00 00	i	80 00	1,59 18 9,55	8 42 0 00 4 78
la Vorte, pier				94 33 99 70		68 17	6,09 10,36 3,99	8 17 9 70
Kamouraska whart Knowlton's Landing pier.	971	22		4 80	1		97 41	4 80 1 22 6 04
Laprairie ice piers Lévis graving dock Long Sault wharf—Lake Témiscamingue Longueuil pier	3,479 68 24	10 13	1,5	502 25	8,2	98 76		
Malbaie do	1,258			300 37	6,5	63 58		0 37 8 22
Pointe & Valois pier Pointe St. Pierre harbour	320 999	70 66					6 32 99	7 67 20 70 19 60
Quebec Queen's wharf Rimouski pier Rivière Blanche pier			4,	592 75 953 03		• • • • • • • • • • • • • • • • • • • •	4,59	0 93 2 73 3 03
do des Prairies—Improvments at St. Raphaël and Ste. Geneviève do du Lièvre do L'Assomption	35,562 35,247 649	72			i	93 59	8,56 35,44 64	
do Matawin do Nicolet, harbour of refuge description of the state of t	291 8,888	36	· • • •	• • • • • •				1 5
do St. Louis	49,956 1,999 2,000	16		14 00		45 00		9 10 9 0
do St. Maurice—West channel at mouth do do channel between Grandes Piles and Latuque.	1,225			• • • • • • •			1,22	
do Yamaska lock, &c. (Damages Dr. P. E. Mignault)	000	62		946 74	7	50 84	6,49 1,90	3 6
Ste. Anne de la Pérade. do des Monts pier. do du Saguenay pier.	4,827 2,262	10		206 60			4,82 2,26	2 2 7 10 2 1 6 6
St. Laurent (He d'Orléans) pier	362			996 70 90 20		· • · • • • • • • • • • • • • • • • • •	99	6 70 6 70 6 20 52 75
Trois Pistoles do	1,499 73	28				••••	1,49	

Name of Work.	Construction and Improvements.	Repairs.	Staff and Main- tenance.	Total.
	\$ cts.	\$ cts.	\$ cts.	\$ ets
Brought forward	660,146 17	260,156 39	350,588 28	1,270,890 84
HARBOURS AND BREAKWATERS-Con.				
Ontario.				
Beaverton wharfBelleville harbour	3,606 50 2,765 95	••••		3,606 50 2,765 95
do do —Dredging Burlington Bay channel	1,464 25	310 00	639.96	1,464 25 949 96
Cobourg harbour		107 63	639 96	107 63
Georgian Bay—Removal Robertson rocks		771 44		2,370 95 771 44
Hamilton harbour—Dredging				2,437 74
Harbours generally	2,924 33	• • • • • • • • • • • • •	11,841 14	11,841 14 2,924 33
Kincardine harbour		21 62		21 62
Kingston graving dockdo harbour	115,108 64 6.092 73	442 33	4,978 90	120,529 87 6,092 73
Kingsville harbour		1,250 00		1,250 00
Little Current, Lake Huron	3,662 16 4,006 00		• • • • • • • • • • • • • • • • • • • •	3,662 16 4,000 00
Meaford harbour	818 12			818 12
Oakville harbourOwen Sound harbour	546 99 24,795 54			546 99 24,795 54
Parry Sound Narrows Port Arthur harbour	5,748 58 141 00	• • • • • • • • • • • • • • • • • • • •		5,748 58
Port Elgin do	1,000 00		•	141 00 1,000 00
Port Hope do	4,999 42	4 000 0g		4,999 42
Rainy River-Long Sault Rapids	182 82			4,999 96 182 82
River Ottawa—Narrows above Pembroke	198 64	3 484 96	• • • • • • • • • • • • • • • • • • • •	198 64
Sault Ste. Marie—Crib-work	1,475 25			3,484 26 1,475 25
Southampton harbour Thornbury harbour—Dredging	5,473 87 1 949 35	455 05		5,473 87 1,949 35
do do pier	169 04	455 95	• • • • • • • • • • • • • • • • • • • •	624 99
Toronto harbour	102,823 88		•••	102,823 88
Manitoba.				
Harbours generally			2,211 98	2,211 98
North-west Territories.				
Harbours generally			2,794 59	2,794 59
British Columbia.		,		
Columbia River—above Golden \$5,979 86 do —between Revelstoke		1		
and Arrow Lake 5,995 51 do —between mouth of				
Kootenay R. & Int. boundary 6,522 67				
Courtney River—Protection work at junction with	18,498 04			18,498_04
Isolume	1,014 68	• · · · · · · · · · · · · · · · · · · ·		1,014 68
Cowichan River Esquimalt graving dock	1,310 67 51 60		16,591 36	/ 1,310 67
Fraser River	20,300 83	• • • • • • • • • • • • • • • • • • • •		16,642 96 20,300 83
Harbours generally	4,172 29	• • • • • • • • • • • • • • • • • • • •	3,589 46	3,589 46 4,172 29
	-1-14 40	· • • • • • • • • • • • • • • • • • • •		1.1/2 29

Name of Work.	Con- struction and Im- provements.	Repairs.	tepairs. Staff and Maintenance.	
Brought forward	\$ cts.	\$ cts. 271,999 58	1 7 000.	\$ cts.
·		211,000 00	555,250 67	1,665,485 28
HARBOURS AND BREAKWATERS—Concluded British Columbia—Concluded.				
New Westminster wharf—Shed for snag-boat	528 07			528 07
Nicomeckel River	483 76 2,000 00			483 76
Victoria harbour—Dredging inner harbour. \$6,192 31 do do outer do 1,178 23	499 55	•••••	******	2,000,00 499 55
do do outer oo . 1,176 20	7,370 54			7,370 54
HARBOURS AND RIVERS GENERALLY.			6,936 42	6,936 .42
Dredge repairs		30,846 04	•••••	39,846 04
Generally 2,950 01	18,896 69	•••••		18,896 69
DREDGING.				
(Reference No. 133048.)				
Nova Scotia.				
Barrington (Shelburne) \$1,731 16 D'Escousse (Richmond) 3,004 83 East River (Pictou) 7,280 86 Mabou harbour (Inverness) 3,300 83 Port Hood (do) 318 99 Pictou Acadia Coal Co.'s wharf 259 61 St. Peter's Canal (Cape Breton) 1,344 27 \$17,241 55				
Prince Edward Island.				
Georgetown (Queen's) \$ 378 00 Pownal (do) 1,223 43 Sturgeon (King's) 5,129 14 Summerside (Prince) 5,108 39 11,838 96				
New Brunswick.				
Hampton (King's)				
GRNERALLY	j		İ	
Total Maritime Provinces\$ 45,058 51				
Carried forward	1,030,028 64 0 2]	302,845 62	400,172 09	1,733,046 35 17

	Name of Wo	ork.		Construction and Improvements.	Repairs.	Staff and Main- tenance.	Total.
***************************************	Brought forward	d	\$45,058 51	\$ ets.	\$ cts.	\$ cts.	\$ / cts 1,733,046 35
	DREDGING-C	meluded.				,	
	Quebec.						1
Lévis Longu Ottaw do River Yama	of the Two Mountains\$ graving dock basin a River Queen's basin, Rideau Canal Nicolet ska River ally	733 91 418 37 75 00 4,305 42 356 35 16 25 356 34 1,804 22	8,065-86				
	Ontario.						ĺ
Cobout Collin Collin Frenc Ganat Goder Kings Meafo Oakvi Ottaw Owen Port I River Thorn Trent	gratburg \$ grat s Bay. gwood hman's Bay hoque iich. grdine tton. grdin	558 99 276 77 329 40 00 1.434 31 592 48 2,722 08 742 15 279 12 453 01 453 01 1,326 67 1,214 75 2,895 91 1,131 00 1,72 10 2,926 19 3,597 20	25,803 62				
	Manitoba.			!			
	River	3,994 30	14,992 51				
Fraser	r River\$	5,486 15					
	RAL SERVICE.		13,727 56 8,459 54				
	SLIDES AND I	BOOMS.		116,107 60			116,107 60
Sague St. M: Verm	nay Districtaurice doilion River, St. Maurice l			292 17 514 91	3,334 75 4,332 75 877 53	1,047 53 15,658 83	4,674 45 20,506 46 877 53

Name of Work.	Con- struction and Im- iprovements.	Repairs.	Staff and Main- tenance.	Total.
	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Brought forward	1,146,943 32	311,390 65	416,878 45	1,875,212 42
SLIDES AND BOOMS—Concluded.			i,	
Ottawa District			23,915 77	23,915 77
do River slides, Gatineau boom, legal expenses . \$ 4,869 07	8,716 67		• • • • • • • • • • • • •	8,716 67
do do reconstruction works at des Joachims and Calumet	674 69			674 69
Black River slides \$ 1,625 61 Petewawa do 889 93	2,722 87			2,722 87
Coulonge do 1,341 76 Gatineau do 2,049 83 Madawaska do 4,928 62				2,122 61
Newcastle District		15,704 82 3,999 54	1 000 00	15,704 82
		0,000 01	1,908 20	5,907 74
ROADS AND BRIDGES. Ontario.				
Ottawa City bridges and approaches— \$ 541 50 Cartier Square \$ 541 50 Chaudière bridges 3,635 49 Dufferin bridge 35 88 Maria Street old bridge 241 40 do new do Nepean Point 584 51 New Iron Truss Bridge (Chaudière) 10 00 Sappers' bridge 225 70 Wellington Street 2,688 40 York bridge, over Grand River	15 54 8,498 30	,	7,962 88	15 54 7,962 88 8,498 30
North-west Territories.				
Battleford bridge, Battle River	. 6,998-84			1,059 42 6,998 84 62 00 24,968 63
Nova Scotia.				
Cape Sable \$ 422 95 Cheticamp 1,098 86 Low Point 50 00 Meat Cove—Repoling 1,930 27 do and White Point Loop line \$ 3,502 08	2,136 87 200 69			2,136 87 200 69
Prince Edward Island.				
Prince Edward Island and Mainland—Subsidy	.		1,946 66	1,946 66
New Brunswick.				-,020 00
Bay of Fundy\$2,662 66 Escuminac				

APPENDIX No. 1-Concluded.

				
Name of Work.	Construction and Improve- ments.	Repairs.	Staff and Main- tenance.	Total.
Brought forward \$ 6,778 35	\$ cts. 1,202,997 84	\$ ets. 331,095 01	\$ cts. 452,611 96	\$ cts 1,986,704 81
TELEGRAPH LINES—Concluded.				
Quebec.				
Anticosti Island	2,975 40		•• •••••	2,975 40
Newfoundland.				
Cape Ray				
GENERALLY				
Total, Telegraph lines, lower St. Lawrence		.	28,208 02	28,208 02
Ontario.			u.	
Pelée Island			705 09	705 09
North-west Territories.		1		
Telegraph lines generally			19,959 61	19,959 61
British Columbia.				•
Nanaimo to Comox. Telegraph lines generally.	1,085 84		8,191 39	1,085 84 8,191 39
TELEGRAPH SERVICE GENERALLY			6,956 43	6,956 43
MISCELLANEOUS.	1			
Agent and contingencies, B. C. Surveys and inspections. Surveys and plans of Government properties. St. John, N.B., Fort Howe			15,403 88 1,212 00	6,352 17 15,403 88 1,212 00 23 00
Regina, Wascana dam Gratuities—Widow late Thos. Pruneau \$ 198 25 do do W. O. Strong 1,110 00 do P. O. Bonenfant 83 33			8 20	8 20
do G. A. Brown 450 00 Extra clerks preparing returns ordered by Parliament			1,841 58 112 80	1,841 58 112 80
COLLECTION OF SLIDE AND BOOM DUES.	i]
St. Maurice District \$1,236 51 Ottawa District 2,505 24				
do Upper Ottawa Improvement Co.:-	 		3,741 75	3,741 75
Logs, Cheneaux boom, 1891-92			1,162 41	1,162 41
Totals	1,207,082 08	331,095 01	546,467 29	2,084,644 38

O. DIONNE,

Accountant.

APPENDIX No. 2.

REPORT

ON THE

PUBLIC BUILDINGS

THROUGHOUT THE DOMINION.

FOR THE FISCAL YEAR ENDED 30TH JUNE, 1892,

BY THE

CHIEF ARCHITECT

OF THE

DEPARTMENT OF PUBLIC WORKS.

APPENDIX No. 2.

REPORT OF THE CHIEF ARCHITECT.

DEPARTMENT OF PUBLIC WORKS, CANADA, CHIEF ARCHITECT'S OFFICE, OTTAWA, 29th December, 1892.

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, 1892.

I have the honour to be, sir,

Your obedient servant, (Signed), THOMAS FULLER,

E. F. E. Roy, Esq.,

Chief Architect.

Secretary, Department of Public Works.

PROVINCE OF NOVA SCOTIA.

ANNAPOLIS.

POST OFFICE, &C., BUILDING.

Alterations and repairs of a minor nature have been made to the inside and roof, the tide-waiters' room divided to make room for savings bank, lamps furnished to customs, and platform raised, &c.

Clerk of works, Mr. J. E. Turnbull, St. John, N.B.

BADDECK.

PUBLIC BUILDING.

Inside walls of this building have been cleaned and tinted, and the woodwork painted.

Clerk of works, J. E. Turnbull, St. John, N. B.

DARTMOUTH.

PUBLIC BUILDING.

A site for this building has been selected on the corner of Water and Portland streets, 78 x 59 feet, and plans and specifications are in course of preparation.

HALIFAX.

DOMINION BUILDING.

Ceilings of post office have been whitened, walls, woodwork and furniture painted and repaired, and bulletin board put in.

Clerk of works, J. E. Turnbull, St. John, N.B.

IMMIGRATION BUILDING.

Offices for the Direct Cable Company and for the Canadian Pacific Railway were fitted up, skylights repaired, w. c.'s and baths with all necessary plumbing and some additional electric lights put in.

Plans prepared and work superintended by J. C. Dumaresq, architect, Halifax.

Clerk of works, Mr. Donald Grant, Halifax.

NAPPAN.

EXPERIMENTAL FARM BUILDINGS.

An implement, cart and wagon-shed and piggery are being constructed, both of wood; the former 60×25 ft., having ahennery 20×25 ft. and wagon-shed 40×25 with loft over all, and the latter 41×25 ft., one story, and consisting of eight pens and a feed room.

Plans, &c., prepared by this department.

Clerk of works, Col. W. M. Blair, Nappan, N.S.

PICTOU.

QUARANTINE STATION.

New storehouse and latrines have been built, and repairs made to hospital floor, kitchen, windows and locks, wainscotting put on walls, ladders supplied and the sinking of a well is in progress.

Clerk of works, J. E. Turnbull, St. John, N.B.

SYDNEY.

POINT EDWARD-QUARANTINE STATION.

The wharf which had been damaged was renewed and enlarged. Clerk of works, J. E. Turnbull, St. John, N.B.

PROVINCE OF EDWARD ISLAND.

CHARLOTTETOWN.

DOMINION BUILDING.

Some alterations of and addition to heating apparatus and some minor repairs to the building generally were made.

Superintending architect, W. C. Harris, Charlottetown, P.E.I.

PROVINCE OF NEW BRUNSWICK.

BATHURST.

PUBLIC BUILDING.

Some slight repairs have been made to the building and new grate bars put in the heating boiler.

Clerk of works, J. E. Turnbull, St. John, N.B.

CARLETON.

POST OFFICE.

. Repairs were made to the chimney, stove, stove pipes, and locks and broken glass replaced.

Works carried out under the supervision of W. J. McCordock, C.E., St. John, N.B. [1892]

24

CHATHAM.

Negotiations for the purchase of part of the Fraser property as a site for the proposed public building at this place are in progress.

DALHOUSIE.

POST OFFICE.

Drains have been repaired and window fastenings renewed.

FREDERICTON.

POST OFFICE, &C., BUILDING.

Window screens and other small articles supplied, down pipes repaired, new urinal put in, water closets ventilated and lighted, 122 drawers and box locks repaired and furnished with keys, &c., &c.

Clerk of works, J. E. Turnbull, St. John, N.B.

NEWCASTLE.

PUBLIC BUILDING.

The walls of this building have been tinted and the woodwork painted, defective lock boxes replaced with new ones, and repairs and improvements made to plumbing. Clerk of works, J. E. Turnbull, St. John, N.B.

PORTLAND.

POST OFFICE.

Slight repairs to counter, stoves, stove pipes, &c., were made, under supervision of W. J. McCordock, C. E., St. John, N.B.

METEOROLOGICAL OFFICE.

This office and a small house for instruments have been fitted up. A stone pier for transit was built on top of vault to the roof of the building. Works supervised by W. J. McCordock, C.E., St. John, N.B.

ST. JOHN.

CUSTOM-HOUSE.

This building, during the past fiscal year, and up to the 19th March at which date it was destroyed by fire, received the usual attention as regards repairs, cleaning, &c. The boilers, furnaces and machinery were carefully looked after, new springs placed in valves and the valves tested and set at 25 lb. pressure. The furnaces lined and new dead plates put in. Water closets, urinals, steam heating, gas, electric bells, locks, roofs. radiators, hydraulic hoist, sashes and window cords and weights repaired and rearranged. New winter sashes furnished for windows of long room, and furniture repaired.

On the 19th March, 1892, as above stated, this building was entirely destroyed by fire, leaving only the stone and brick walls and towers standing. The débris was at once removed and all the iron, &c., which could not be used in the reconstruction of the building sold by public auction. Temporary quarters were secured for the several departments in the Pugsley building, which was leased, offices fitted up and furniture purchased.

Works carried out under the supervision of W. J. McCordock, C.E., St. John, N.B.

SAVINGS BANK.

Repairs during the year were made to mason work, furnace, gas fixtures, closets and urinals and flag pole.

Works carried out under the supervision of W. J. McCordock, C.E., St. John, N.B. [1892]

MARINE HOSPITAL.

In this building repairs were made to plumbing, chimneys, iron roof, slating, conductors and gutters, baths, urinals, closets, water pipes, cooking range and furnace. The ceiling of the surgery, which had fallen, was replaced by a new one.

Works carried out under the supervision of W. J. McCordock, C.E., St. John, N.B.

POST OFFICE.

The furnace, water closets, urinals, water pipes, heating, gas and speaking tubes, electric bells, locks, radiators, roof, hydraulic hoist, sashes, window cords and weights, furniture, clocks, letter boxes and doors were repaired, cleaned and rearranged. Lamps were furnished, asphalt repaired, janitor's quarters cleaned, ceilings whitened and walls and woodwork painted. A flag staff and yard for time ball, storm and shipping signals were erected on the building house. A portion of the roof, which is iron, was covered with plank flooring as a protection, and quarters were prepared for the signal officer.

Works carried out under the supervision of W. J. McCordock, C.E., St. John, N.B.

SUSSEX.

PUBLIC BUILDING.

Slight repairs have been made during the year. Clerk of works, J. E. Turnbull, St. John, N.B.

WOODSTOCK.

PUBLIC BUILDING.

Slight repairs have been effected during the year. Clerk of works, J. E. Turnbull, St. John, N.B.

PROVINCE OF QUEBEC.

FRASERVILLE (RIVER DU LOUP).

POST OFFICE, &C., BUILDING.

This building is roofed in and is expected to be completed and fitted up by this autumn.

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

Clerk of works, Elzéar Marquis, Fraserville.

Contractor, Alfred Lortie, Quebec.

GROSSE ISLE.

QUARANTINE STATION.

A search-light apparatus was furnished for the steamer "Challenger" and some further fittings for the laboratory.

Works done under supervision of this department. Contractor for fittings, Mr. F. Poitras, Quebec.

LACHINE.

POST OFFICE, &C., BUILDING.

This building which was described in a previous report has been fitted up and occupied.

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

Clerk of works, Jos. Mettayer, Lachine. Contractor, Jos. Fitzpatrick, Joliette.

[1892]

MONTREAL.

CUSTOM-HOUSE.

Usual and ordinary repairs to heating apparatus and plumbing were made.

EXAMINING WAREHOUSE.

Repairs of a minor nature were done during the year to machinery and heating apparatus.

POST OFFICE.

The woodwork and fittings throughout the building were cleaned and put through repair. Alterations to the registry office were made and a large amount of new fittings supplied of the various departments, repairs and alterations to plumbing, &c.

Supervising architect, James Nelson, Montreal.

Contractor, Em. St. Louis, Montreal.

QUEBEC.

CULLER'S OFFICE.

Carpets were supplied and furniture repaired.

CITADEL-GOVERNOR-GENERAL'S QUARTERS.

The usual annual cleaning, painting and preparations for His Excellency's annual visit were done.

EXAMINING WAREHOUSE.

The steel wire cables of elevator were renewed, and plumbing, spouts and conductors repaired.

POST OFFICE.

New springs and checks were supplied to all the entrance doors. A postal-bag rack of 100-bag capacity was supplied and a burglar-proof safe for the stamp branch. The inside walls of the post office flat were cleaned, scraped and repainted. Alterations of the registration office and in the post office screen were made. Some furniture supplied for the post office. Inspection and general repairs to woodwork, &c.

Works done under the supervision of this department.

ST. JÉROME.

PUBLIC BUILDING.

Some portions of heating pipes in examining warehouse which had been destroyed by frost were renewed.

ST. HYACINTHE.

POST OFFICE, &C., BUILDING.

The contractors for this building failed to carry out their contract in a satisfactory manner, and from examination the work done was found to be so defective, both as regards materials and workmanship, as to endanger the building.

The work was, therefore, assumed by the Government, and a competent officer was sent from this department, under whose supervision portions of the walls were taken down and are being rebuilt in a substantial manner, and new tenders for the completion invited.

ST. VINCENT DE PAUL.

PENITENTIARY.

The following works were carried out, as far as was possible, by convict labour, under the supervision of this department:—

Stone floor, 3,600 square feet, and brick ceilings with iron joists in south wing.

A block of 42 stone cells with iron doors was built. Marechal locking apparatus was put on 132 cells. An organ was furnished for the Protestant chapel. The barn, stable, cart-sheds, fire-hose house, and warden's quarters were painted. Repairs were made to buildings, water works and heating apparatus.

Clerk of works, Mr. Elz. Dagneault, St. Vincent de Paul.

THREE RIVERS.

CUSTOM-HOUSE.

The roof of this building was reshingled, and general repairs done throughout. Superintending architect, Mr. O. Z. Hamel, Three Rivers.

POST OFFICE.

General repairs, painting, new floor and fittings supplied. Superintending architect, Mr. O. Z. Hamel, Three Rivers.

VALLEYFIELD.

POST OFFICE.

The attic was fitted up and altered to serve as quarters for the caretaker. A new stairway was built from ground floor to attic.

Contractors, Messrs. Bélanger & Préfontaine, Valleyfield.

PROVINCE OF ONTARIO.

ALMONTE.

POST OFFICE, &C., BUILDING.

Some minor improvements were made during the year, and furniture supplied for the customs offices.

Clerk of works, Mr. A. Bell, Almonte, Ont.

BARRIE.

PUBLIC BUILDING.

The city watermain was connected with the plumbing of the building, and the closet drain connected with the town sewer.

BROCK VILLE.

PUBLIC BUILDING.

The roof covering was repaired; some additional hangers were supplied for large main heating pipe, and some essential minor repairs to fittings, executed.

BERLIN.

The hot water heating apparatus mains in basement were altered and covered with n-conducting material.

Work done under the supervision of this department.

COBOURG.

POST OFFICE, CUSTOM-HOUSE, &C.

The Customs and Inland Revenues offices were fitted up and furnished under the supervision of this department.

28 [1892]

CARLETON PLACE.

POST OFFICE, &C., BUILDING.

This building which was described in my report of last year, has been completed and is being fitted up and furnished with a hot water heating apparatus.

Plans, &c., prepared by this department. Clerk of works, Mr. Andrew Bell, Almonte, Ont.; contractor for building and fittings, Mr. R. Cameron, Almonte, Ont.

Contractor for heating, Mr. N. Landry, Ottawa.

HAMILTON.

POST OFFICE, &C., BUILDING

Extensive alterations were made in screen, partitions, and fittings of the post office, and the Gas Inspector's office was fitted up and furnished for the Post Office Inspector.

Work done under the supervision of this department.

ORILLIA.

PUBLIC BUILDING.

A contract was entered into for this building on the 5th April, 1892, and the work is in satisfactory progress. It is to be a $2\frac{1}{2}$ story brick building, with stone dressings, on stone foundation 55 x 43 and a one story brick annex 40 x 24.

The basement of the main building will be occupied by the heating apparatus, and for the storage of fuel, &c.; the ground floor as post office; the first floor as Customs and Inland Revenue Offices; the attic as caretaker's residence, and the annex as examining warehouse.

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

Contractor, J. R. Eaton, Orillia.

Clerk of works, W. H. Croker, Orillia.

OTTAWA.

EASTERN BLOCK-DEPARTMENTAL BUILDING.

Alterations to the rooms in attic occupied by Interior Department and Privy Council, repairs to rooms in basement and cleaning, tinting and painting various rooms throughout the building.

Works carried on under the supervision of this department,

CENTRAL EXPERIMENTAL FARM.

Additions to the poultry and piggery buildings were constructed, additional heating surface supplied at the chemist's and agriculturist's residences and paper hanging at the chemist's. Also some additional fittings at the laboratory building.

All done under the supervision of this department.

· LANGEVIN BLOCK.

Furniture, packing cases, &c., were supplied, shelving put up and furniture

repaired for the various departments occupying this building.

' Alterations and additions to gas fittings, heating and plumbing, ladders of iron pipe furnished for inside of the two large vent shafts, and the basement cleaned, white-washed and repainted under the supervision of this department.

GEOLOGICAL MUSEUM.

A new granolithic sidewalk was laid at this building and repairs made to roofs, &c., under the supervision of this department.

[1892]

29

GOVERNMENT HOUSE.

At the Hall a partition with doors was put up in basement passage and at foot of tennis court stairs to prevent draughts; a portion of still-room ceiling was sheeted with wood; part of the basement passage wall was restrapped, lathed and plastered; 11 squares of basement floor were renewed; 10 circular panelled doors were provided to match those in book-cases; 234 yards new carpet laid in drawing-room and library; coppers were retinned; new culinary utensils, linen and blankets, and a new cooking stove were purchased; and the furniture, curtains, &c., repaired and kept in order.

The ceiling of w. c.'s of cottage was sheeted in pine, 2,215 yards distempering, 350 yards painting, and 620 yards papering were done at the Hall, cottage and stables, which

were all thoroughly cleaned during His Excellency's absence.

In the conservatory 125 feet of plant tables were put in, a two-inch plank floor was put in potting-room; four squares of flooring were laid in flower pits, and 300 feet of broken glass in conservatories and vineries were reglazed.

Repairs were made to plastering and glazing in all the buildings; the double windows and blinds were cleaned, taken down and put up as required, and the furnaces, stoves,

pipes and chimneys were cleaned, repaired, &c.

There were built 245 feet, lineal, of 7-ft. boundary fence, 1,030 feet of 4-ft. picket fence, 350 feet of 10-ft. close board fence, 95 feet of 6-ft. close board fence, 875 feet of 4-ft. 3-rail fence and 150 feet of 3-ft. 6-in. 3-strip fence, together with 57-ft. picket gates, and two new gate posts at avenue gate similar to those existing. Some repairs to cricket fence were made and a turnstile put in.

Ten squares of 3-inch plank floor were laid in the west stable; 120 yards of paving of east stable were tarred and gravelled; 230 feet lineal of 3-ft. wide side-walk were laid from Avenue gate to McKay street; 130 feet lineal of 3-inch plank crossings were relaid; new stairs with cedar steps were built from lower to upper level of sidewalks at end of tennis court, and three new hydrant chambers built, two surface water pits rebuilt.

A new vine trellis 100 feet long was put up in garden; the toboggan slides were repaired; the band room and bridge were put up and removed, the curling and skating rinks were kept in good condition, the ice house filled, the snow cleaned from roads, footpaths and roofs, and the conservatories and gardens kept in good condition. A clump of 75 ornamental trees from the Experimental Farm was planted in a corner of the cricket field.

Works carried on under the supervision of this department.

Clerk of works, Mr. Wm. Hutchison, Ottawa.

Contractors for maintenence of grounds, &c., Messrs. Sorley & Sims, Ottawa.

Contract for removing snow, M. Cardiff, Ottawa.

PARLIAMENT BUILDING.

Repairs to sky-lights over the House of Commons and Senate Chamber, alterations and repairs to Serjeant-at-Arms' rooms, ventilators in Senate, alterations and repairs in the Library, pointing stonework of Library and repairing roof.

New window sashes in railway committee room and room 50, and extension of ventilating apparatus in each, and furniture supplied and repaired throughout various

offices in the building.

Works done under the supervision of this department.

WESTERN BLOCK-DEPARTMENTAL BUILDING.

Extensive cleaning, tinting and painting of corridors, and rooms were made, alterations and improvements in attic for the Marine Department, including extension of water, gas and electric bell heating services, and new rooms and staircase in record room of this department and repairs to roofs and sky-lights. Work carried on under supervision of this department.

POST OFFICE.

The extensive damages done to this building by fire which occurred on the 17th day of January last have been repaired. The greater part of the interior of the building

had to be re-lathed and plastered and much of the fitting renewed, furniture repaired, and water, gas and electric bell services reconstructed. Work supervised by the department.

· MAJOR'S HILL PARK.

The contractor has maintained the grounds to the satisfaction of this department. Painting and glazing were done to the greenhouse and some additional shrubbery supplied.

Contractor for maintaining grounds, Mr. L. Garello, Ottawa.

PARLIAMENT GROUNDS.

The contractor has maintained the ground to the satisfaction of this department. Contractor, Mr. N. Robertson, Ottawa.

Contractor for removal of snow, Mr. Wm. Moore, Ottawa.

PRINTING BUREAU.

Painting and glazing were done and new fence built around the premises, under supervision of the department.

PUBLIC BUILDINGS, REPAIRING STREETS, &C.

Scraping, cleaning and repairs were done to the roadways of East and West Canal streets, Nepean Point roadway, Wellington, Bank, Metcalfe, 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 side-walks and crossings of Wellington street, Cartier Square, St. Patrick street and at the Museums were repaired, the grass at Geological Museum and Cartier Square was kept clipped; and the ashes removed from the Langevin Block, Museums and Printing Bureau.

The various roadways, side-walks, footpaths, roofs and yards were kept clear of

snow during the winter.

Contractor for the removal of snow, Mr. Wm. Moore, Ottawa.

SUPREME COURT.

The additions described in my report of last year have been completed and rooms fitted up, including shelving and book cases for library, plumbing and gas-fitting, extension of the heating and electric bell service, also furniture, carpets, &c.

Plans, &c., prepared by this department.

Contractor for building and fittings, Wm. Stewart, Ottawa.

Contractor for plumbing and gas fittings, Mr. O. Higman, Ottawa.

VICTORIA HALL.

Repairs were made to roof of this building, under the supervision of this depart ment.

PETERBOROUGH.

CUSTOM-HOUSE.

This building, which was described in my report of last year, is now nearly completed, and plans for a hot water heating apparatus are being prepared.

Plans, &c., prepared by this department.

Superintending architect, J. E. Belcher, Peterborough.

Contractor for building, J. E. Askwith, Ottawa.

PETROLEA.

POST OFFICE, &C., BUILDING.

A contract was entered into for the construction of this building, on the 29th January, 1892, and the work is in progress. It is to be a $2\frac{1}{2}$ -story brick building with stone dressings, and stone foundation 56' $6'' \times 42'$ 0" and a one-story brick annex $44'6'' \times 21'$ 6". The basement will be occupied by the heating apparatus, and for the

storage of fuel; the ground floor as post office, the first floor as customs and inland revenue offices, the attic as caretaker's residence, and the annex as an examining warehouse.

Plans prepared and work supervised by this department.

Contractor, Joshua Garrett, Petrolea. Clerk of works, J. Sinclair, Petrolea.

PORT ARTHUR.

PUBLIC BUILDING.

A site 100′ 0″ × 100′ 0″ on the corner of Count and Arthur streets was conveyed to Her Majesty for the purposes of this building free and a contract for the erection and completion of the building entered into on the 8th January, 1892, since which time the work has been in progress. The main portion of the building is 43′ 0″ × 56′ 0″ two-stories, basement and attic, and a one-story wing 40′ 0″ × 20′ 6.″ The walls are to be of brick on stone foundation and stone dressings; partitions, floor and roof of wood, the last mentioned covered with galvanized iron. The basement will contain the heating apparatus and fuel; the ground floor the post office; the first floor the custom and inland revenue offices and the attic the caretaker's quarters. The addition will contain the examining warehouse and the weights and measures. Brick vaults are provided for the postal, customs and inland revenue offices.

Clerk of works, Mr. Powley, Port Arthur. Plans, &c., prepared by this department. Contractors, Tobin & O'Keefe, Ottawa.

ST. CATHARINES.

PUBLIC BUILDING.

A new wall coil was furnished and connected in public lobby, the caretaker's rooms were kalsomined and some repairs and alterations made to post office fittings and plumbing.

TORONTO.

CUSTOM-HOUSE.

Repairs were made to the heating apparatus and plumbing, sky-lights and roof, under the supervision of this department.

Superintending architects, Denison & King, Toronto.

DRILL HALL.

The site for the above building was transferred by the Corporation of the city of Toronto to the Government. It comprises a block (270 x 497) with frontage on Osgoode, University, Chestnut and Armory streets. A contract was entered into on the 10th of November, 1891, for the erection of the building which is being proceeded with,

The building will be of brick with stone dressings and stone foundation, 300 feet

long by 185 feet wide, exclusive of projecting towers on Osgoode street front.

The Drill Hall is 280 feet long, 125 feet wide and 36 feet high from floor to springing of roof. The basement under is 125 feet by 140. On either side of hall are armouries extending the full length of building and 22' 6" wide, forming a lean-to on each side of building, that on the north side being one story high. On the south side two stories high and basement.

The towers at corners and central projections are four stories high, and are appropriated to band-rooms, w. c., &c. Over the armouries on south side are officers' quarters, and in basement under are furnace, storerooms, kitchens, cellars, w. c., &c. The basement under hall is appropriated for bowling and shooting alleys, store-rooms, &c., cleaning-rooms &c.

Plans, &c., prepared by this department.

Supervising architect, Mr. R. C. Windeyer, Toronto.

Contractor, Major John Stewart, Ottawa.

[1892]

32

EXAMINING WAREHOUSE.

Repairs were effected to boilers, hoist and plumbing, under supervision of this department.

Engineer in charge, John A. Wills, Toronto.

INLAND REVENUE OFFICES.

The heating apparatus was in part remodelled and repaired and minor repairs executed to plumbing, &c., under the supervision of this department.

Engineer in charge, Mr. John A. Wills, Toronto.

POST OFFICE.

Further work in connection with alteration of heating apparatus was done, and some repairs to plumbing, also painting, varnishing, paper-hanging and general minor repairs.

Work done under the supervision of this department.

Superintending architects, Denison and King, Toronto.

TRENTON.

PUBLIC BUILDING.

A new force pump was supplied and various minor repairs effected.

WALKERTON.

PUBLIC BUILDINGS.

This building, which has been described in a previous report, has been completed, the various offices fitted and furnished and hot water heating apparatus put in.

Clerk of works, J. J. Tolton.

Contractor for fittings, J. C. Oppenheiser, Walkerton.

Contractor for heating apparatus, McGuire & Bird, Toronto.

WINDSOR.

PUBLIC BUILDING.

The inland revenue offices were altered and provided with some new fittings, and an office was provided, fitted up and furnished for the inspector of gas.

Minor repairs were effected to roof, plumbing and post office fittings.

PROVINCE OF MANITOBA.

BRANDON.

POST OFFICE.

Building and hot water heating apparatus completed, and the building occupied. Contractor for building, James Hanbury, Brandon.

Clerk of works, T. J. Chubb, Brandon.

Superintending architect, W. R. Marshall, Brandon.

WINNIPEG.

IMMIGRATION BUILDING.

This building has been completed and fitted up with baths, tubs and hot water service, cooking range and furniture, also fences, platforms and side-walks.

Plans, &c., prepared by this department

Resident clerk of works, D. Smith, Winnipeg. Contractors, Messrs. Brydon & Charlesworth, Winnipeg.

POST OFFICE.

Fittings were supplied for Dominion Lands office. Steam boiler of heating apparatus was re-tubed and some minor carpenter's work performed.

Clerk of works, D. Smith.

NORTH-WEST TERRITORIES.

CALGARY.

BARRACKS.

The water service was put into the building.

An addition, consisting of two cells, dining-room and kitchen has been made to the guard-room, latrines built and a fence to inclose yard in rear erected. Repairs were made to offices and doctor's quarters.

Clerk of works, H. D. Johnson, Calgary.

COURT-HOUSE.

The water service was put into this building, the necessary plumbing made and the drains repaired.

Clerk of works, H. D. Johnston, Calgary.

EDMONTON.

IMMIGRANT SHED.

A site for this building was furnished by the Hudson Bay Company near the Canadian Pacific Railway station, and a wooden building 25' × 40' erected thereon.

Plans prepared by this department. Contractor, H. D. Johnson, Calgary.

MAPLE CREEK.

MOUNTED POLICE BARRACKS.

An additional story, $16' \times 30'$, to hospital has been built and closed in; it is now ready for plastering and finishing.

Clerk of works, H. J. Peters, Regina.

RED DEER.

INDUSTRIAL SCHOOL.

A contract was entered into for the erection of this building on the 11th September, 1891, and the work is now in progress. The building is to be of stone 65x48', two stories and basement, with wooden floors, partitions and roof. The basement will be occupied by the heating apparatus, pump and cistern, with separate rooms for fuel, water-closets, baths, etc. On the ground floor there will be the dining-room, reception room, matron's room, office, sewing room, sick room, bedroom, a kitchen, pantry and storeroom, and on the first floor a school-room, girls' dormitory, boys' dormitory, employees' room, infirmary and assistant matron's room.

Plans prepared by this department. Clerk of works, H. D. Johnson, Calgary.

Contractor for building, Mr. John Stewart, Ottawa.

REGINA.

COURT-HOUSE.

Alterations have been made to entrance to Dominion Lands Office to facilitate the business of the office.

Clerk of works, H. J. Peters, Regina.

IMMIGRANT BUILDING.

The inside walls and ceilings have been lined with seasoned lumber, sleeping platforms made, storm sash put on, small fuel shed erected and side-walks laid. Clerk of works, H. J. Peters, Regina.

NEW GOVERNMENT OFFICES.

Electric lighting has been introduced; hot water apparatus put in and the offices fitted up and furnished. The building is now occupied.

Contractors for heating apparatus, Dunlop & Chapman of Pembroke, Ont.

Clerk of works, H. J. Peters, Regina.

COUNCIL CHAMBER.

Alterations and repairs were made after removal of officials to the new offices, committee rooms and rooms for the Speaker and Clerk of the Assembly fitted up, additional members' desks and new chair for Speaker, as well as stoves and other fittings provided, and electric lights put in.

Clerk of works, H. J. Peters, Regina.

NEW GOVERNMENT HOUSE.

This building is occupied by His Honour the Lieutenant-Governor. A system of electric lighting has been introduced and is now in operation, and a fence inclosing twenty-five acres of ground immediately surrounding the building has been constructed.

Clerk of works, H. J. Peters, Regina.

GENERAL.

Various and numerous repairs and renewals have been made by police labour at the Mounted Police posts and connected outposts at Prince Albert, Battleford, Fort Saskatchewan, St. Albert, Calgary, Fort Macleod, Lethbridge, Maple Creek and Regina.

PROVINCE OF BRITISH COLUMBIA.

AGASSIZ.

EXPERIMENTAL FARM.

The superintendent's residence referred to in my last report has been completed and occupied. On the 20th November, 1891, a contract was entered into for the erection of a barn 61' 0" x 86' 0" x 58' 0" from level of ground to apex of roof. It consists of a stone basement for implement shed, coal cellar, silo and carpenter shop, ground floor for sheep pens, harness room, drive way and general storage; a first floor containing loft granary and tool room, &c.

Clerk of works, Jos. Brown.

Contractor, Messrs. Mathew & Rockett.

Plans, &c., prepared by this Department.

Works supervised by F. C. Gamble, C.E., Victoria.

A. 1893

KAMLOOPS.

INDUSTRIAL SCHOOL.

Minor repairs to this building were made during the year under the supervision of F. C. Gamble, C.E.. Victoria.

NANAIMO.

POST OFFICE, &C.

Several additions and alterations have been effected and furniture supplied in connection with the post office or ground floor portion of the building. These additions and alterations comprise (1) a 22-bag Harrison Postal Rack, (2) the making and placing in position 4,200 letter boxes with brass fronts, (3) a stamp cabinet and newspapers distributing table, (4) a storm porch with swinging doors, (5) cutting a hole through the exterior wall and setting therein a brass letter drop and minor repairs to gas fixtures.

Under supervision of F. C. Gamble, C.E., Victoria.

NEW WESTMINSTER.

PUBLIC BUILDING.

Works were carried out to meet the demands of the post office occupying the ground floor, for increased postal facilities; moving the Land office to the 1st and 2nd floors, moving the Fishery Inspector's office to make room for the Land office, fitting up office of the collector of inland revenue and supplying furniture to customs.

Works carried out under the supervision of Mr F. C. Gamble, C.E., Victoria.

VANCOUVER.

POST OFFICE, &C., BUILDING.

The contractor was unable to carry on the work, therefore new tenders were asked for by advertisement, and a contract awarded to Mr. T. Tompkins, of Brockville, Ont. Work now in progress.

Plans prepared by this department.

Superintending architect, Mr. C. O. Wickenden, Vancouver.

VICTORIA, B. C.

NEW DRILL HALL.

A site for this building has been secured on Melzies Street $250' \times 200'$ and a contract entered into on the 23rd May, 1892, for its erection. The walls are to be of brick on stone foundation. The drill hall will be $75' \times 160'$ having a two story lean-to 27 feet wide extending the entire length of the building. On the ground floor are five armouries, gun shed, an officer's room, orderly room, sergeant's room, and two rooms for quarter-master's stores. On first floor a band room, officer's room, reading and store rooms.

Plans prepared by the Militia Department.

Works supervised by F. C. Gamble, C.E., Victoria.

Clerk of works, Wm. Hassard, Victoria.

CUSTOM-HOUSE.

Additions and alterations have been made to the cashier's desk, linoleum supplied for one of the offices, and a few trifling repairs effected. A shed has been built on the custom-house wharf for the storage of fuel for the various public buildings in Victoria.

Works done under supervision of F. C. Gamble, C. E., Victoria.

, PUBLIC BUILDING.

Repairs have been made during the year to gas and water services, water closets, urinals, floors, locks, doors and windows; sorting table and desks for letter carriers have been supplied and a burglar alarm placed in the vault of the Dominion Savings Bank and connected with the Police Station.

Works carried out under the supervision of F. C. Gamble, C.E., Victoria.

"C" BATTERY BARRACKS.

The house drains of the officers' quarters have been overhauled and partly renewed, and lumber for sidewalks and gravel for roads supplied.

Works done under the supervision of Mr. F. C. Gamble, C.E., Victoria.

IMMIGRANTS' HOME.

A few trifling and necessary repairs have been made to this building during the year under the supervision of Mr. F. C. Gamble, C.E., Victoria.

ENGINEERS, FIREMEN, &c.—PUBLIC BUILDINGS.

The various engineers, firemen and caretakers, and the heating apparatus of Dominion Public Buildings, with the exception of those at the various penitentiaries and the military buildings, are under the control of this branch of the department, and number 140, including the staff of Ottawa buildings.

HEATING DOMINION BUILDINGS (FUEL.)

Tenders were invited by public advertisement for the supply of coal at 123 of the public buildings, and coal and wood supplied to over 160 buildings in all.

LIGHTING DOMINION BUILDINGS.

The lighting of the various Dominion buildings, excepting the penitentiaries and military buildings, is under the control of this branch of the department. Of these buildings, 73 were lighted by gas, 31 by incandescent electric light, 2 by gasoline, 1 by natural gas, and the remainder by coal oil, but at several of the last mentioned the entrance is illuminated by an arc light outside.

WATER FOR DOMINION BUILDINGS.

The water supply for the various public buildings, excepting the penitentiaries and military buildings, is controlled by this branch of this department; 73 buildings at 44 localities have water services connected with the water supply of the local waterworks companies, the remainder being in general supplied with wells, pumps, and tanks.

GENERALLY.

Repairs and alterations have been executed and sundry articles of furniture, &c., provided, cleaning, painting and other improvements carried out in connection with a number of buildings not herein referred to.

APPENDIX No. 3.

REPORT

ON

HARBOURS AND RIVERS, DREDGES, DREDGING AND SURVEYS

THROUGHOUT THE DOMINION,

FOR THE FISCAL YEAR ENDED 30th JUNE, 1892,

BY THE

CHIEF ENGINEER

OF THE

DEPARTMENT OF PUBLIC WORKS.

APPENDIX No. 3.

DEPARTMENT OF PUBLIC WORKS OF CANADA,
CHIEF ENGINEER'S OFFICE,
OTTAWA, 30th December, 1892.

No. 47729.

SIR,—I have the honour to transmit herewith a report on the works performed in the different harbours, &c., throughout the Dominion, during the fiscal year ended 30th June, 1892.

I have the honour to be, sir, Your obedient servant,

E. F. E. Roy, Esq., Secy. Dept. Public Works.

LOUIS COSTE, Chief Engineer.

PRINCE EDWARD ISLAND.

BAY FORTUNE.

Bay Fortune, King's County, is on the south side of Rollo Bay, on the east coast of Prince Edward Island, about tive miles south-west from Souris, the eastern terminus of the Prince Edward Island Railway. The breakwater is at the entrance of the Fortune River, sand beaches extend out on both sides from the mainland to the edge of the channel, the one on the south side being only about 300 feet long, while that on the north side has fully a length of a quarter of a mile. The village of Bay Fortune is situated about two miles from the mouth of the river and at the head of its navigation.

The inhabitants, to improve the depth of water outward from the mouth of the river, and to prevent the sand, of which the extensive flats to the eastward is composed, being carried into the channel, many years ago commenced the construction of a breakwater on the beach, at the eastern side of the channel, starting it at a point 50 feet from the eastern side of the crib-work approach to the north pier, and extending outward in a south-easterly direction, a distance of about 400 feet, its object being to give direction to the current at ebb-tide, and when extended, to maintain, by scouring, a channel through the "bar" of 8 to 10 feet of water, the depth at low water on the bar being generally only 4 feet, thus preventing vessels of any size from entering.

At the last session of Parliament the sum of \$1,500 was appropriated towards an extension of the breakwater, and a plan and specification therefor have been prepared. The work proposed consists in an extension of 400 feet to the present work, and in

repairs to the original structure.

BAY VIEW PIER.

Bay View Pier is situated on the eastern side, and near the mouth of the Hope River which enters New London Harbour, about $3\frac{1}{2}$ miles to the south-east from its entrance.

This pier is not exposed to any heavy sea, but the extreme high tide of the 1st December ult., which with the prevailing gale caused so much damage elsewhere, rose to some 18 inches above the top of the work, washed out the brush, stone and clay filling in part, leaving the structure almost unballasted, and in this condition it was partially lifted, breaking the bolts which secure the pile fenders to the work, or splitting the heads of the piles, and had it not been for the piles around the work, the structure would undoubtedly have floated off.

[1892]

41

The work of repair, &c., consisted first in rebuilding the top of the outer end for a distance of 40 feet, to an average depth of 5 feet and in placing 14 new pile fenders around it; second, in rebuilding the top on 60 feet of the pier, inside of the outer end, to a depth of 2 feet.

In October and November, 1891, the pier was again damaged, a breach being made through the inner portion of the work. This was made good during the fiscal year.

BELFAST PIER.

Belfast Pier, Queen's County, is situated on the south side of Orwell Bay, about

one mile distant from the village of Eldon.

This pier is 600 feet in length and from 24 to 35 feet in width, with an L at the outer end 105 feet in length, 28 feet wide, giving a channel face of 140 feet. Excepting two small openings, the work is constructed with square timber faces, the inner end for a distance of 390 feet being filled in with brush, stone and clay, while the outer end and the L are floored over.

Since its assumption by the department the outer end and the L, as well as the

inner end for a distance of 150 feet, have been put in thorough repair.

During the past fiscal year, the sum of \$700 has been expended in making up with brush, stone and clay the roadway of the inner portion of the pier over a length of 350 feet, two tiers of timber on each side for a length 74 feet, or 148 feet in all, also being put in, 81 feet of the planked portion of the pier was raised and new cross ties and stringers put in; 18 pile fenders driven and secured to face, 2 span beams put in, one of the stans filled in with poles, brush and stone, 47 lineal feet of guard timbers renewed, and 624 square feet of new planking laid, besides other repairs, thus placing the structure in fairly good condition.

BRAE HARBOUR.

Brae Harbour, Prince County, is situated on the northern shore of Egmont Bay, about 8 miles to the eastward of West Point, and 12 miles to the northward of Cape Egmont, the two headlands between which Egmont Bay is formed. The harbour is distant about 6 miles from Coleman Station, on the Prince Edward Island Railway, this station being 36 miles northward from Summerside, the shiretown of the county.

The harbour is at the mouth of the Brae River, and is formed by the protection of Brae Island, which, running nearly parallel to the shore, at a distance of from a quarter of a mile to a mile, and being about a mile and a half in length, gives complete shelter. The area inclosed is very large, but as most of it dries out at low water springs, and these rise but 4 feet, only a small portion of it is available for boats and small vessels.

The entrance to the harbour is about 900 feet in width, and is protected from southerly gales by a large sand bar, called in the locality the "outer bar." This lies about half a mile off shore, breaking the sea during gales from that quarter. An "inner bar," almost dry at low water, obstructs the entrance, rendering almost useless the good anchorage and shelter that otherwise would be afforded for boats and small vessels, and preventing the shipment of produce.

For the improvement of the entrance, the inhabitants of the district in 1890 commenced the construction of a brush and stone breakwater, for the purpose of narrowing the entrance, and directing the increased current formed on to the bar, with a view of

deepening by scour the water over it, constructing in all a length of 350 feet.

At the session of Parliament 1890-91, \$1,000 was appropriated for the extension of the breakwater, and a plan and specification having been prepared, a contract was entered into for the construction of a length of 200 feet, which was satisfactorily finished 13th April, 1892. The work built has a width of 20 feet from outside to outside of cap timbers, the bottom consisting of layers of brush 2 feet in depth; from this up to within 2½ feet of the top the work is constructed of small spruce spars, and the top of squared timber; two ballast floors are placed in the work, and securely ballasted; the faces are protected by fenders at 10 feet centres, and on the top, a roadway is formed by brush, stone and clay filling.

CAMPBELL'S COVE BREAKWATER.

Campbell's Cove, King's County, is situated on the north coast of the Island, about 9 miles west from East Point, and 14 miles distant from Souris, the eastern terminus of the Prince Edward Island Railway.

In 1872, the Provincial Government constructed a detached breakwater 300 feet in length and 30 feet wide, on the reef which extends out from the western end of the

cove, for the protection of small fishing vessels and boats.

During 1882-83 the department repaired the old structure, raised it 2 feet in height, connected it with the shore (a distance of 70 feet), and constructed an extension thereto, 250 feet long and 20 feet wide on top, making its total length 620 feet. The whole work is constructed of square timber, the faces of the old portion, and of the connection with the shore being built plumb; the extension has a timber slope of 1 to 1 on the seaward side.

The repairs and additions made by the department being of a substantial character, the work continued in good condition for many years, notwithstanding its exposed situation, and up to 1888–89, when some planking and fenders were replaced. Slight repairs were again found to be required in 1889–90, but before these could be effected, a severe storm occurred which forced a heavy sea through the broken face of the work, lifting the top timbers, washing out the ballast and doing other damage.

During the fiscal year 1891-92, the inner face of the work has been rebuilt over a length of 80 feet near the end, the entire sloping face has been re-floored, the whole

work re-ballasted, and fenders, capping, etc., put on.

CLIFTON PIER.

Clifton Pier, Queen's County, is on the south side of the South-west River about 21 miles from its entrance into New London Harbour, and immediately below the

Clifton bridge.

The pier is 260 feet in length and $17\frac{1}{2}$ to 20 feet in width for a distance of 202 feet, the remaining 58 feet being 25 feet wide. It is constructed of alternate blocks of timber, and poles and brush for a distance of 175 feet; then comes an opening or "span" of 27 feet; the outer block 58 feet long, being of solid timber close faced. The roadway out to the opening is formed of clay filling placed on top of the stone and brush. The opening is spanned by 5 stringers planked over, as is the outer 26 feet of the outer block, the remainder being clay filled. The pier has at the outer end 14 feet of water at low water springs, or at high water 18 feet, affording good shipping facilities as it admits of the largest class of vessels, that enter New London Harbour, lying at it affoat at all stages of the tide.

Having been damaged by a high tide, repairs were made during the year at a cost

of \$50, and the pier placed in serviceable condition.

GEORGETOWN.

Georgetown, the shiretown of King's County, is situated on the northern side of the Montague River, near its entrance into Cardigan Bay, and is the terminus of the Georgetown Branch of the Prince Edward Island Railway. Its harbour is well known as being one of the best and safest in the Island.

On the 2nd December, 1891, the dredge "Prince Edward" commenced work in front of the railway wharf, making a cut 354 feet in length, 67 feet in width and 16 feet deep at the inner, and 19½ feet deep at the outer end, the work being closed on the 7th December.

HIGGINS SHORE, PIER.

Higgins Shore Pier, Prince County, is situated on Egmont Bay, about ten miles north of Cape Egmont and about 6 miles west of Richmond Station on the Prince Edward Island Railway. It has a width of 20 feet 6 inches and is 453 feet long extending out to a depth at low spring tides of 3 feet, giving at high water a depth of 8 feet.

The pier, which was constructed very many years ago by the Local Government, has solid close-faced timber sides, and end securely tied together by cross ties placed at [1892]

10 feet centres and central longitudinal timbers in each course that extend all of its length, the interior body of the work being filled with brush and stone, with clay on top to form the roadway.

During the past year, the sum of \$511.56 has been expended in renewing its top portion, filling in ballast, brush and stone, with clay filling on top to make up the roadway, putting on new fenders, and other general repairs, placing the work in good condition.

MALPEQUE BREAKWATER.

Malpeque Breakwater, Prince County, lies within the eastern or principal entrance of Richmond Bay, on the north shore of the Island, about ninety miles from East Point, and 40 miles from North Cape.

During 1877-78-79 a breakwater 600 feet in length was constructed by the department, on the western end of "Royalty-Sands," on the eastern side of the harbour, to shelter the anchorage from north-east winds, and to afford a shipping place for the produce of the surrounding country.

Since the construction of the breakwater, the sands inside began to waste away by the action of the sea during easterly storms; and to prevent this action, a breastwork was constructed from the inner end of the breakwater to Royalty Point, a distance of 2,370 feet.

The sum of \$350 has been expended during the fiscal year in reconstructing the top portion of the outer 400 feet of the breakwater, which was carried away in the fall of 1890.

MIMINIGASH.

Big Miminigash, Prince County, is situated on the north-west coast of the Island, about 15 miles from North Cape, and 18 miles from West Point.

Before its improvement, Big Miminigash was one of the numerous ponds along this coast which empty into the Northumberland Strait, through sand beaches, being sheltered to a great extent by Miminigash Reef, a ledge of rock nearly a mile long, which lies parallel to the shore, at a distance of about half a mile, it had the advantage over the other ponds, and it was the one mostly sought by fishermen during stormy weather.

The outlet of the pond, called the "run," being through sandy soil, often changed its course. To make it permanent and to improve the depth of water in it, it was confined to a width of 56 feet, by works on either side, the department having expended about \$9,000 since 1878.

The works consist, on the north side, of a solid timber pier 417 feet in length, and 150 feet of close-piling, and on the south side, of a pier constructed of piles, brush and stone, 150 feet long.

MINK RIVER.

Mink River Pier, King's County, also known as "Murray Harbour North," is situated on the east side, and near the mouth of Mink River where it enters the southern side of Murray Harbour. It is one of the piers assumed by the department in 1884, and being at that time a very old structure, much out of repair, it required in 1885 an expenditure of \$400 to render it even passable, by putting on new flooring, floor stringers, fenders, &c.

The pier is 400 feet long, consisting of a shore approach of 200 feet "blocks" and "spans" 20 feet wide for 130 feet, and the outer 70 feet, 32 feet wide. The depth of water at the outer end is about 6 feet at low water, and 12 feet at high water springs.

The pier having become unfit for traffic owing to the decay of the flooring floor stringers and top portion of the blocks the sum of \$1,000 was expended during the year in the renewal of the same, the pier being put in good condition.

An appropriation having been made for extending and strengthening the south pier, plans and specifications were prepared, and tenders, to be received at the end of the fiscal year, were invited.

NORTH CARDIGAN PIER.

North Cardigan Pier, King's County (known in the locality as Newport Pier) is situated on the north side of Cardigan River, five miles below Cardigan Bridge (the head of navigation and railway station on the line of the Prince Edward Island Railway),

and near the point where the river enters Cardigan Bay.

The pier, which was built by the Local Government, is 380 feet long, consisting of a shore abutment and seven blocks with intervening openings or spans. The structure being old, it has, since its assumption by the department in 1884, required extensive repair. During 1884–85 the two outer blocks were close-piled on their sides, to prevent their falling apart. In 1885–86 the flooring of the outer block was renewed, and the tops of inner blocks and abutments levelled up. In 1888–89 all of the span beams, flooring and cap, excepting those of the outer block, were renewed, and the shore abutment, as well as the inside blocks levelled up with brush, stone and clay. In 1890–91 four mooring posts were put in, and the shore abutment and inner blocks made up where settlement had taken place.

During 1891, the Local Government built a ferry wharf, extending from the west side of the pier, making use of about 230 feet of the pier for an approach. This ferry wharf has since its construction been largely used as a place of shipment, greatly to the injury of the revenue of the pier, masters of vessels and shippers of produce preferring to make use of the ferry pier, where the accommodation was equally good and no

wharfage charged.

During the past year, the sum of \$248.68 has been expended on repairs of the outer three blocks by inserting face timbers where found destroyed by ice and sea-worms, renewing covering of outer block, and adding fender piles along the end and faces of the work.

PORT SELKIRK PIER.

Port Selkirk Pier, Queen's County, is on the south side of the mouth of the Orwell River, at its entrance into Orwell Bay.

The pier was constructed by the Local Government, and is in the form of a **T**, its length from the shore to the channel face being 252 feet, and the length of the pierhead, 200 feet, The width of the approach is 23 feet and that of the pierhead 35 feet.

The pier-head was originally 250 feet in length on the channel face, but as the upper block was in danger of tumbling into the channel, it was removed, together with the span connecting it with the next block, and thus the length was lessened by 50 feet.

On the 25th February, 1891, a contract was entered into for the construction of a block and span at the upper end of the pier, and the work was completed on the 31st

August 1892

The reconstruction and strengthening of the lower 80 feet of the pier were commenced by the department, under contract, in May, 1891, and the work undertaken was finished on the 30th November, 1892.

POWNAL PIER.

Pownal Pier, Queen's County, is situated at the head of Pownal Bay, the north-eastern corner of Hillsboro' Bay, and is distant about 9 miles from the city of Charlottetown.

The "Prince Edward" widened the basin at the wharf, and improved the entrance from the harbour, completing the work on the 16th of November, when 3,243 cubic yards of sand and mud had been removed.

RUSTICO (SOUTH) PIER.

South Rustico Pier, Queen's County, is situated immediately below the Oyster Bed Bridge, at the mouth of the Wheatley River, which enters Rustico Bay at its southern end. It is distant about six miles from Hunter River Station, on the Prince Edward Island Railway, and about thirteen miles to the northward of the city of Charlottetown.

The pier was constructed by the Local Government, to accommodate the shipping of produce from and the importation of coal and lumber to the locality. It is 593 feet [1892]

in length and consists of a shore abutment 450 feet long and $17\frac{1}{2}$ feet wide, and of three detached blocks about 25 feet apart. The inner block is 17 feet wide and $23\frac{1}{2}$ feet long, the two outer blocks are respectively 29 and 30 feet wide and 20 and 24 feet in length. The approach or shore abutment and the blocks are built of square timber, filled in with brush, stone and clay. The outer block and the spans are covered with plank.

During the storm of the 1st December, 1890, the top of the outer block was badly damaged and the span connecting it with the inshore portion also suffered, but with an

expenditure of \$120, the pier was placed in a serviceable condition.

ST. PETER'S BAY.

St. Peter's Bay, King's County, entered from the Gulf of St. Lawrence, about 35 miles west of East Point, is situated on the north coast of the Island. It is of considerable extent, running inland some 8 miles, with an average width of $\frac{3}{4}$ of a mile and carrying a depth of from 2 to 3 fathoms at low tide. The entrance is obstructed by a sand bar having over it only from 6 to 7 feet at low water springs, rendering the bay available for vessels of only small size, of which large numbers resort to it during the fishing season. During 1878 the department constructed a breakwater 226 feet in length on the western side of the mouth of the harbour, to afford shelter to the fishing fleet, connecting the inner end with a breastwork or beach protection, extending 800 feet inward over the sands towards the high land, to prevent a channel being formed on its inner side.

After the construction of the western breakwater, it was proposed to further contract the width of the entrance and thus by increasing the current improve the depth of water over the bar, and to accomplish this a contract was entered into 10th February, 1883, for the construction of a breakwater 1,900 feet long, on the eastern side of the mouth of the harbour, but the contractor abandoned the work when less than half built, and little remains now of the work.

The beach protection inward of the western breakwater, consisted of two rows of piles, placed 5 feet apart, and driven at 8 feet centres, the space between the rows of piles being filled in with alternate layers of brush and stone, the top course being covered with poles placed longitudinally and secured by cross braces bolted to the piles. Sand, however, not accumulating about the work as had been expected, the brush became worn and settled, and the severe storm of 1st December, 1890, completely carried it and the stone filling away, leaving only the rows of piling standing.

In view of the unsatisfactory result obtained from the use of brush to withstand the action of the sea, for the reconstruction of this protection work a contract was entered into 23rd May last, for a work of round log open cribwork to be solidly filled with ballast, making use of the piles in place for bolting to, instead of placing fenders.

At the close of the fiscal year the work was in progress, and the greater portion of the materials required for the work had been delivered.

STURGEON PIER.

Sturgeon Bay, King's County, is situated on the south side of Cardigan Bay, about 6 miles south of Georgetown, the terminus of the Georgetown Branch of the Prince Edward Island Railway.

The pier was constructed by the Local Government to accommodate the shipping of produce from the locality. Its total length is 436 feet, and is from 20 to 25 feet in width, its height at the outer end is 13 feet, with a depth of 4 feet at low water springs, which rise 5 feet. It consists of a shore abutment 250 feet in length, and four blocks of from 20 to 25 feet in length, with intervening spans of from 22 to 25 feet long. The faces of the approach and blocks are constructed of squared timber, filled in with brush, stone and clay. The two inner openings are filled in with brush at the bottom, and with stone and clay on the top, the sides above the brush being timbered up to keep the stone and clay in place. The two outer openings and the outer block are covered with plank.

On the 9th May, 1892, the "Prince Edward" commenced work at this place and continued operations until the close of the fiscal year, up to which time it had removed 13.596 cubic yards of mud, clay, stone and sand.

The work done consisted of a cut 720 feet in length, and 103 feet in width from the channel to the wharf; a basin at the end of the wharf of 169 feet; a berth at the west side of the wharf, 100 feet long, 55 feet wide and 11 feet deep at low water spring tides.

SUMMERSIDE.

At the railway wharf, Summerside, the dredge "Prince Edward" made a cut 310 feet in length, 150 feet in width and 15 feet in depth, at low water springs, while off the north side of the middle grounds in the channel between the railway wharf and Beacon light a strip 1,330 feet in length by 65 feet in width, was removed to a depth of 15 feet at low water springs.

TIGNISH HARBOUR.

Tignish Harbour, Prince County, is situated on the northor Gulf Coast of the Island, about 6 miles southwardly from North Cape, and is formed by the mouth of the Big Tignish River where it enters the Gulf of St. Lawrence. The coast in the vicinity of the mouth of the river and for 6 miles on either side of it is almost straight, and gales from the north-east to the south-east throw in a very heavy sea, the entrance at times b ing completely filled in by the shifting sands of which the surrounding beaches are composed, and remain blocked until broken through by a freshet or other natural causes.

To keep the mouth of the river open and increase its depth for the fishermen of the locality, the Government of Prince Edward Island in 1868 commenced the construction of works on either side of the mouth of the river, contracting it to a width of 40 feet, whereby the current at ebb tide was so increased that the entrance has remained open, the cost of the works being \$8,149.56.

Since 1875, the department raised, repaired and extended the original structures, constructed breastwork on the low-lying sand beaches on either side of the mouth of the river to prevent the sea from breaking through, dredged a portion of the channel, and constructed other works for its improvement and enlargement.

During the fiscal year the sum of \$361.15 has been expended in replanking the outer 300 feet of the northern breakwater, replacing the fenders and iron strapping of corners and repair of close piling and sheathing.

VICTORIA PIER.

Victoria, Queen's County, is a thriving settlement at the head of navigation on Crapaud Basin. It is about 11 miles south from "Emerald Junction" on the line of the Prince Edward Island Railway, and about midway between the towns of Charlottetown and Summerside. Victoria is the outlet of probably the best farming district on the Island, and as a place of shipment, ranks next to Summerside on the south-west side of the Island, in importance.

The Government pier (Victoria) so called to distinguish it from the provincial wharves, has a total length of 468 feet, of which the approach 268 feet long is 20 feet wide, the next 143 feet being 37 feet wide, and the outer 75 feet, 58 feet wide, giving a large area for top wharfage. Its height at the outer end is 19 feet with a depth of 15 feet of water at high tides. With the exception of the approach which is solid timber work, the pier is composed of "blocks" and "spans" or "openings." The approach from the deep water outside was some years ago much improved by dredging, a channel carrying about 9 feet at low water or 16 feet at high tides having been made.

During the past year the sum of \$50 was expended on filling in of the roadway where settlement had taken place, and replacing fenders carried away by the ice, placing the whole pier in good condition.

PROVINCE OF NOVA SCOTIA.

ABERCROMBIE.

Abercrombie Point, is in Pictou County, N.S., on the south side of Pictou harbour, between the entrances to the East and Middle Rivers, and nearly opposite the town of Pictou.

A wharf was built at this place in 1889 by the Harbour Commissioners, to take the place of an old ferry wharf. It is a block and span structure 666½ feet in length and 21 feet in width, with a T head, on flats dry at extreme low water to within 167 feet of the outer end. The depth at the outer end at extreme low water is 2 feet.

Spring tides rise 6 feet, neaps rise 4 feet.

When taken in charge by the department, it consisted of 14 blocks (two being in the T head), roughly constructed of round spruce or hemlock timber, 9 inches in diameter at the small end, and only partially ballasted. The blocks are from 21 to 24 feet in length on line of work, and from 13½ to 21 feet apart. Three of them near the inner end had been moved out of place, and had a great deal of unsound timber in them. There were floor stringers over the blocks, and openings from the fifth block to the outer end, but no covering.

During the year ended 30th June, 1892, the sum of \$864.22 was expended in repairs and renewals, viz., a brush and stone approach 41 feet in length and 4 feet in height was built. The inner block was reconstructed, and the 2nd and 4th blocks from the inner end were placed in position and repaired. Five stringers were placed from the inner end to the 5th block and one central stringer from this to the outer end. The whole of the block and span work was covered with 3-inch plank and provided with guard rails. A small quantity of ballast was placed in 3 of the inner blocks and the ballast was adjusted in some of the other blocks. A small slip was made between the two blocks forming the T head and 12 piles were driven against the outer face of these blocks. Fifty feet out from the head of the work, 3 piles were driven together on each side of the approach to the slip.

ARISAIG.

Arisaig, Antigonish County, N. S., is on the Northumberland Strait, 15 miles to the eastward of Merigonish, the nearest harbour.

A pier commenced by the Government of Nova Scotia, came under the charge of the Federal Government in 1870. It was thoroughly repaired in 1873, and small amounts were expended in 1880 and 1881, in repairing damage caused by ice.

A contract entered into in 1886 for repairs to the pier, and for the construction of

a breakwater on the eastern side of the harbour, was completed in 1888.

At the time of the completion of the works referred to, the pier was 440 feet in length, consisting of an approach, and an outer portion 195 feet in length, and from 40 to 44 feet in width. There was at extreme low water a depth of but one foot along its inner face over a distance of 100 feet; from the outer end, and over the area sheltered by it, nowhere more than 3 feet.

The breakwater is 300 feet in length and 20 feet in width, on top, with an L at its outer end 40 feet in length. The depth at the outer end, at extreme low water is, 6

feet.

In 1889 the pier was extended 100 feet and a portion of its seaward face was protected by a deposit of heavy stone. The extension was founded on a bottom dredged to from 8 to 10 feet at extreme low water, and a cutting 70 feet in width was carried along the inner face of the extension and of the pier, over a distance of about 130 feet from its outer end.

Spring tides rise 5 feet.

In December, 1889, the covering and cap timbers of the extension were disturbed in places and during the great gale of 1st December, 1890, further damage was done to the top work of the extension; 50 feet of the seaward face of the pier, next its junction with the extension, was carried away down to 1 foot below low water, leaving only [1892]

the inner face standing; the covering over a further distance of 50 feet was dis-

turbed, and the side walls and top of the approach badly damaged.

During the year 1891-92, the sum of \$3,000 was expended in reconstructing the outer 50 feet of the pier, renewing the stringers, top ballast and covering over a further distance of 150 feet, in repairs to the approach, and in extensive repairs to the extension, including the renewal of the covering over half its width from the outer to within 25 feet of the inner end, close fendering the seaward face over a distance of 60 feet from the inner end and, the placing of a quantity of large stone against the seaward face near the junction with the pier.

ASPY BAY.

Aspy Bay, Victoria County, is near the northern extremity of Cape Breton Laland, between White Point and Cape North.

At the head of the bay there are three extensive sheets of water, known as the North, Middle and South Aspy ponds, or harbours, inclosed by a beach of sand 41 miles in length. The entrances to these ponds are shoal and intricate, the best being that of the North Aspy pond.

During the fiscal year 1891-92, the sum of \$200 was expended in repairs to a small

wharf on the west side of the North harbour.

The wharf is a lightly constructed block and span structure, 11 feet wide, extending 107 feet to 8 feet 8 inches at low water. It is the joint property of Zephirin Charron and Ronald McIsaac, by whom an agreement was signed, permitting the public the use of it free of charge or hindrance.. The road leading from the wharf to the highway is free to the public.

The wharf was strengthened and improved by the addition of 59 fenders, 4 mooring posts, 218 lineal feet of cap timber and 2 ring bolts. The outer block was

levelled up, and it and the central block were partially ballasted.

BARRINGTON.

Barrington, Shelburne County, is distant 45 miles to the south-east of Yarmouth. and 30 miles south-west from Shelburne, and is within 10 miles of Cape Sable, the most

southern point of Nova Scotia.

There being no wharves in the district having a greater depth than 2 or 3 feet at their outer ends at low water, and the need of such a wharf being greatly felt, the department began the construction of the present Barrington pier in 1888-89, and This wharf is 885 feet long, and extends completed it in 1890, at a cost of \$7,150. across the flats to Sherrow's Channel (so called), in which there is 12 feet of water at low tide. On the channel end of the structure a block 70 feet in length was constructed for steamers, &c., to lie at, which is provided with a suitable warehouse and drop landing.

To meet the additional requirements of the district, the sum of \$600 was voted during the past session, for the purpose of constructing a triangular piece of wharf work between the approach and the channel block or L so as to form an additional

berth for steamers to lie at.

On the 11th June the "St. Lawrence" left St. John for Barrington, where she arrived on the 14th and took up the work of improving Sherrow's Channel, making a channel 14 feet in depth on a length of 175 feet, the amount of material removed being 4,375 cubic yards of mud, and the work was completed on the 27th June.

BEAVER RIVER.

Beaver River, Yarmouth County, flows into the Bay of Fundy near the mouth of St. Mary's Bay, and forms part of the division line between Digby and Yarmouth Counties.

The mouth of the river was completely closed for some years by a gravel bar, but was opened by the department in 1886-87. Two expenditures were subsequently made on the construction of works on either side of the new river mouth. These works not only prevent the gravel bar from again forming, but the southern work forms a break-[1892]

water and makes the river mouth a safe and convenient harbour for boats and small vessels, so that shipments of products can now be made, and quite an extensive shore fishery is carried on.

The rush of water during freshets having begun to undermine the work, the sum of \$450 was expended during the year in close-piling a portion of the river face of the southern work, and in levelling up and repairing the top, which was leaning over into the stream.

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.

A wharf commenced in 1887-88 was completed the following year. It is 260 feet in length and 20 feet in width, and consists of an approach of 110 feet in length of brush and stone, with 10 feet of cribwork at the outer end, and four blocks each 20 by 20 feet, with openings of 17 feet 6 inches. The depth at the outer end is 8 feet at low or 9 feet at high lake level.

During the year 1891-92 the sum of \$40 was expended in placing 11 fenders at the sides and outer end of the outer block, and in partial repairs to a break in the brush

and stone-work near the outer end.

BIRD ISLANDS.

The Bird Islands, Victoria County, lie in the Atlantic Ocean, several miles off Cape Dauphin, between Ste. Anne harbour and the entrance to the Great Bras d'Or.

Ciboux Island, the largest of the group, is the resort during the season of 60 or 70

fishermen.

During the fiscal year 1891-92 the sum of \$142.84 was expended in improving the landing place on Ciboux Island by removing rocks, and by cutting down the end of an old block of round cribwork, so as to form a slip or approach from the narrow beach to the steep path leading to the cliff above, but the work was not completed.

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 25 feet in width on top, and was constructed in separate blocks up to a little above low water with continuous top work. 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. Spring tides rise 4 feet 5 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 above low water portion was destroyed over a distance of 100 feet from the outer end, and the top broken up for a further distance of about 60 feet. The outer block went down 4 or 5 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 over a distance of 80 feet, or to within 160 feet of the inner end.

During the year 1891-92 the sum of \$1,500 was expended in placing pieces of timber vertically inside the faces, and reballasting the outer pockets on the seaward side, cutting down the second block to about 6 inches below and rebuilding to 2 feet above low water. All the timber and iron required to complete the reconstruction of the work to within 56 feet of the original outer end, with the exception of part of the covering, was also procured.

CAPE SABLE ISLAND (SOUTH SIDE).

On the south side of Cape Sable Island, Shelburne County, and distant southerly about 1½ mile from the breakwater now under construction at Stony Island, there is a small wharf or breakwater built some years ago by the local authorities to protect the mouth of a pond, which forms a convenient boat harbour.

This work was never completed, and during the present fiscal year the department expended the sum of \$300.00 in putting the work in repair and building it up to its proper height. The wharf is too short, however, to be of much practical benefit.

CHETICAMP.

Cheticamp Harbour, Inverness County, is on the west coast of Cape Breton Island, 18 miles north of Margaree.

It is a secure harbour, being sheltered from the west and south by Cheticamp Island and a connecting beach. The entrance is from the north through a dredged channel.

A wharf was built on the eastern side of the harbour in 1890. It consists of an approach 125 feet in length and 30 feet in width over a distance of 60 feet from its outer end, with side walls and centre filling of stone; and an extension 80 feet in length in two blocks, with openings of 17 feet 6 inches. The outer block is 60 feet in length along the channel face. The depth at the outer face of the 60 feet block at extreme low water is 11 feet. Spring tides rise 3 feet 6 inches.

During the year 1891-92 a small sum was expended in placing extra fenders at the channel face and ends of the outer block; in slight repairs to the retaining wall of the approach; and in placing 9 fenders on each side of the retaining wall of the approach,

in place of the original posts and braces.

The "Canada" arrived at Cheticamp on the 3rd August, 1891, and commenced work in the channel, when a cut 800 feet in length and 100 feet in width was dredged up to the 24th September, and 10,620 cubic yards of gravel, stone and boulders removed. On the 1st November the same dredge resumed work at Cheticamp, where it remained until the 7th of that month, in which time a cut 80 feet long by 65 feet wide was made, and 720 cubic yards of sand and gravel removed. Again from the 4th June to the 29th, the same dredge was operating, completing the channel to 14 feet in depth removing a further quantity of 7,110 cubic yards of sand and gravel.

The dredge "Geo. McKenzie" worked at this place from the 1st July to the 28th,

during which time 6,970 cubic yards of sand, gravel, kelp, &c., were removed.

CHURCH POINT.

Church Point, Digby County, is one of the most important shipping places on St. Mary's Bay.

It is 9 miles south from Weymouth, and almost directly opposite Petite Passage.

Digby Neck.

This work was begun many years ago, and the pier has been extended, from time to time, as the gravel collects in large quantities on the back of the work and finally overlaps its outer end, and forms a bar which prevents vessels reaching or leaving the dock or sheltered area.

Several methods have been tried to remedy this evil but extending the work seemed the only way of reaching a satisfactory result. The work, however, at last became so long that an extension was made at right angles, instead of continuing the work in a northerly direction. This worked admirably for some four years, and an immense amount of gravel collected behind it, but it finally also overlapped the outer end, and it was necessary to again extend the work in a northerly direction. The gravel has lately got past this last piece of work, and has caused much trouble during the last year or so.

The river face of the older portions of the work, having become very much decayed and in places falling down into the dock, the department during the last fiscal year expended the sum of \$1,500 in repairing it, and in removing the highest part of the gravel

bar, so that vessels could utilize the pier.

The repairs extend over almost the entire length of the river face. The inner end or oldest portion was taken down and rebuilt in cribwork, and the remainder was closepiled, small general repairs being also made to other parts of the work, and it is now in good condition, but the gravel still causes inconveniences.

CLYBURN BROOK.

Clyburn Brook, Victoria County, empties into a small pond at the head of the North Bay of Ingonish.

The pond is separated from the bay by a beach of sand with shingle on top. The pond level is 3 feet above extreme low water and the bottom, which is of very soft mud, is about the level of extreme low water. Spring tides rise 5 feet.

During the fiscal year 1891-92 the sum of \$200 was expended in making a cutting 180 feet in length, 10 feet wide at the bottom, down to about 14 inches below high water, between the pond and the bay.

This work was done in December and January. When examined in April, it was found that the cutting had been filled in to within 2 to 4 feet of the original surface by the winter gales.

COW BAY.

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

The bay is $2\frac{1}{2}$ 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, some 20 or 25 years ago 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 20 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 20 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 now consists of an inner work extending from within 220 feet of the shore end to the outer end with counterforts, and connecting works on the seaward side from within 580 feet of the shore end to the outer end. The outer and inner works are from 20 to 25 feet apart. They are connected at intervals by tie walls, and the spaces are filled with ballast.

During the year 1891-92 the sum of \$3,500 was expended in general repairs to the outer works, in repairs to the covering of the inner work, in renewing the covering of the roof of the warehouse with cedar shingles, and in procuring 450 piles for close-piling a

portion of the inner work, and some hardwood for sheathing.

The repairs to the outer work included refilling where ballast had gone out with about 1,845 tons of stone, a good deal of which was large stone at the bottom of face work between counterforts on the seaward side, in renewing the close-piling of 50 feet of face work, in renewing about 7,000 feet board measure of covering over the two central counterforts, in constructing a break 10 feet wide and 2 feet in height across the inner end of the counterforts nearest the shore end, and in sheathing horizontally with hardwood over 60 lineal feet of close-piling to a height of 7 feet above low water at the angle made by the inner counterfort with the face work between it and the second counterfort.

CRIBBINS POINT.

Cribbins Point, Antigonish County, is on the west side of St. George's Bay, 8 miles south from Cape George, and 5 miles north from the entrance to Antigonish harbour.

In 1890-91 a contract was entered into for the construction of a wharf to extend 300 feet in a southerly direction from the point, with an approach 195 feet in length. The wharf to be 20 feet in width on top over a distance of 120 feet from the inner end and 20 feet over the remaining 180 feet. The inner 50 feet to be of stone, and the outer 250 feet of close faced timber work, full ballasted and protected by sheathing and fenders. The approach to consist partly of side cutting and embankment with stone retaining wall and partly of through cutting 18 feet wide at the bottom with sides sloping $1\frac{1}{2}$ to 1. At the close of the year 1890-91 the approach was nearly completed, there being in place over 45 feet of the retaining wall of the same, averaging 8 feet in height, and 40 feet of side wall of the shore end of the wharf, averaging $4\frac{1}{2}$ feet in height, while there had also been delivered a large quantity of the timber, and nearly all the iron required, and the whole was completed before the 30th June, 1892.

The depth at extreme low water, at the outer end of the wharf is 11 feet. Spring

tides rise 4 feet.

D'ESCOUSSE.

D'Escousse Harbour, on the north side of Ile Madame, lies inside of Bernard Island

at the eastern end of Lennox passage.

Between the 28th August and the 11th October the dredge "Geo. McKenzie" was engaged in improving the channel opposite Le Visconte's wharf, and on the Gland Shoal, making at the former a cut 200 feet in length by 140 feet in width with a depth of 12 feet at low water, while on the Gland Shoal the length of cut was 125 feet in length and 40 feet in width, leaving from 9 to 12 feet deep of water.

DIGBY.

The town of Digby is situated at the western end of the Annapolis Basin.

During the past season, the sum of \$30.00 was expended on Digby pier in patching holes in the covering, and in placing a few long fenders on the outer end, to prevent the guards of the steamers from catching on top of the caps at high water, during stormy weather.

A contract for the construction of a new pier 50 feet wide and 780 feet long, extending into 16 feet of water at low tide, was entered into on the 18th November, 1890. The site of this proposed work is on the north side of the Raquette about 1 mile to the north of the present pier and town of Digby.

Owing to numerous delays and the death of the contractor, actual construction

was not begun during the fiscal year 1891-92.

A large quantity of timber, both hardwood and soft, has been delivered near the site, and is now in the booms at the Raquette, or yarded in the vicinity of the railway track.

EAST BAY.

East Bay, Cape Breton County, is at the head of East Bay, an arm of the Great Bras d'Or Lake.

A wharf was built at this place by the residents in 1881. It was a lightly constructed block and span structure, 160 feet in length and 15 feet in width, with a T head 17 feet wide and 70 feet in length. In 1882-83 a block 70 feet in length and 18 feet in width, was built at the outer end by this department. In 1883-84 the inshore, or original work, was put in thorough repair, and in 1888-89 the covering of the outer end was repaired, and two blocks of the approach were reconstructed.

During the year 1891-92, the sum of \$811 was expended in reconstructing a block at the shore end of the approach from 2 feet below low water; in removing the end blocks in the old **T**, and cutting off the connecting work between them and the back of the 70 feet block; in reconstructing the central block in the old **T** from about 7 feet below low water, and in close-piling the outer and end faces of the 70 feet block.

FRENCH RIVER.

French River, Victoria County, is on that part of the east or Atlantic coast of Cape Breton Island, known as the "North Shore," midway between the harbours of St. Ann's and South Ingonish.

In 1890-91 a contract was entered into for the construction of an isolated breakwater, 50 feet in length and 27 feet in width on top, to be placed in from 6 to 7 feet at extreme low water. Up to the close of that year, nothing was done except in the way of procuring materials.

During the year 1891-92, the work under contract was completed consisting of squared timber close-faced, and close-fendered from top to bottom at the sides and outer

end.

GEORGEVILLE.

Georgeville, Antigonish County, is on the Northumberland Strait, 6½ 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.

In 1890-91 a contract was entered into for the construction of a wharf, and at the close of that year there was in place 45 feet of the stone approach. A small quantity of timber, and nearly all the iron required for the outer work, had been delivered.

During the year 1891-92 the work under contract was completed.

The depth at the outer end, at extreme low water is 5 feet. Spring tides rise 4 feet.

GRAND NARROWS.

Grand Narrows, Cape Breton County, is on the south side of the Grand Narrows, a strait connecting the Great and Little Bras d'Or Lakes.

The wharf at this place is 287 feet in length, including 67 feet of cribwork filled with brush and stone, and covered with gravel; 80 feet of pile work built in 1885-86 by the department over the remains of the outer portion of an old landing pier built by the Provincial Government; and an extension, 140 feet in length, built by the department in 1883-84.

The extension consists of three blocks each 20 by 20 feet, and an outer

block 20 by 60 feet of round timber cribwork, with openings of about 16 feet.

The depth at the outer end of the extension is 12 feet at low, or 13 feet

at high lake level.

During the year 1891-92 the sum of \$749.75 was expended in renewing the piles in one bent of the pile work, and replacing the stringers; in raising, repairing and close-piling the channel and end faces of the outer block of the extension; in placing 25 fender piles where required, and in renewing the covering over 105 feet of pile work and extension.

IRISH COVE.

Irish Cove, Cape Breton County, is on the south-east shore of the Great Bras d'Or Lake, near the entrance to East Bay. The distance to the head of East Bay is 20 miles; to St. Peter's Canal about 22 miles; and across the Lake to Grand Narrows 10 miles.

During the fiscal year 1891-92, the sum of \$1,200 was expended in completing a wharf for which most of the material was procured and which was partially constructed during

the preceding year.

The wharf is 160 feet 8 inches in length and 20 feet in width, including a shore block 47 feet long, a central block 20 feet 4 inches long and an outer block 57 feet long with an 20 by 20 feet. The openings are respectively 17 feet 6 inches and 18 feet 10 inches, and the depth at the outer end varies from 12 feet 3 inches to 13 feet, at low lake level.

JORDAN BREAKWATER.

Jordan Bay, Shelburne County, is on the Atlantic Coast of Nova Scotia, about midway between Shelburne and Lockeport.

A breakwater, 550 feet long, was built on the eastern side of the bay in 1875, to give shelter to vessels loading lumber, a considerable quantity of which is cut on the Jordan River which flows into the head of the Bay. The work was badly damaged shortly after it was built, and 100 feet of its outer end was reconstructed, and the sea-

ward face protected with a stone slope.

During the fiscal year, the inner end of the work which was damaged by a high tide and heavy sea was repaired. The plank covering and floor stringers for a distance of 100 feet, as well as some of the face timbers, were carried away, and a considerable amount of ballast was washed out. All this was replaced by new work, and a considerable amount of stone was placed along the inner end of the slope, where this had been washed out in places. These repairs were effected at a cost of \$750.00.

L'ARDOISE.

L'Ardoise, Richmond County, is on the east side of St. Peter's Bay, about 9 miles south-east of St. Peter's Canal.

A breakwater, 400 feet in length built off Martin's Point, Lower L'Ardoise in 1876,

in from 5 to 9 feet at low water, was almost entirely destroyed in 1883.

During the year 1891-92 a contract was entered into for the reconstruction of the breakwater. The new work to consist of a cribwork core, 400 feet in length and 20 feet in width, placed over the remains of the old work, in from 1 to $4\frac{1}{2}$ ft. at low water, built up to 1 foot above high water, and covered with stone sloping, on the seaward side and ends 3 to 1, and on the inner side 2 to 1, the whole of the covering above low water to be riprapped with large stones laid as closely together as possible, with the spaces filled with cement concrete. At the close of the year there had been placed three-fifths of the cribwork core, and about 1,000 cubic yards of stone in the slope, and all the timber and iron required to complete the cribwork, and a large quantity of stone for slopes and rip-rap had been delivered.

LISMORE.

Lismore, Pictou County, is on the Northumberland Strait 10 miles to the eastward of the entrance to Merigomish Harbour, and the same distance from Merigomish Station

on the eastern extension of the Intercolonial Railway.

A wharf 200 feet in length and 20 feet in width, extending to 1 foot 9 inches, at extreme low water, commenced in 1886-87 was completed the following year. In 1890-91, a portion of the amount appropriated for that year was expended in procuring timber enough to extend the wharf 181 feet, and in placing and building up to 2 feet above extreme low water, 150 feet of work.

During the year 1891-92, the sum of \$1,300.00 was expended in completing the

work undertaken the preceding year.

The extension is of round timber, full ballasted and closé fendered.

The depth at extreme low water at the outer end is 4 feet. Spring tides rise 4 feet 6 inches.

LOUIS HEAD.

Louis Head is a thriving fishing settlement on the western side of the mouth of

Sable River, Shelburne County, and is about 10 miles east of Lockeport.

During the year, a contract was entered into for the construction of a breakwater for the protection of the fishing boats and boat landing to cost \$4,072.00. Materials for the structure have been obtained, but no actual construction has yet been begun, but it is the intention of the contractors to have the work completed before the winter storms set in.

MABOU.

Mabou Harbour, Inverness County, is on the west coast of Cape Breton Island,

6 miles north-east from Port Hood.

The entrance was formerly at the northern extremity of a range of sand hills, by an intricate channel obstructed by a bar, over which there was a depth of only 4 feet at low water.

In 1870, a survey was made and a report submitted, on the project of opening a new channel through the sand hills at their northern extremity, and closing the existing channel.

The work was commenced in 1872. A pier on the south side of the new channel, 753 feet in length was completed in 1876, and the same year the old channel was closed. Expenditures have been made nearly every year since 1876, in constructing a brush and stone dam on the south side near the outer end of the pier; constructing and repairing a breast work on the north side of the channel, repairing and close-piling the pier; and since 1885 in contructing a work of brush and stone, in shoal water on the south side of the channel.

In December, 1890, a portion of the pier 290 feet in length, 90 to 380 feet from the outer end was carried away, and the remaining 90 feet more or less damaged. breast work on the north side of the channel was destroyed several years ago.

In 1890-91, a dam of brush and stone 250 feet in length and 10 feet in width on top, was constructed, between the pier head and the sand hills, and the brush and stone work, then extending 1,087 feet beyond the head of the pier, was raised nearly to high water level from end to end.

During the year 1891-92, the sum of \$8,398.84 was expended in extending and raising the brush and stone work on the south side of the channel, and in constructing groins on the north side to collect sand and gravel, and thus form a natural protection to an exposed clay bank; the work done consisting in extending the brush and stone work on the south side 600 feet, in from 9 to 6 feet at low water. The inner end of this extension was built up to a little above, and the outer end to about two feet below low water. A brush and stone work 60 to 20 feet in width and 5 feet in average height was also built, extending 380 feet in from the original head of the pier, and out over the brush and stone work about 120 feet; the remains of the pier head were removed, and 4 groins were constructed on the north side of the channel, 55, 40, 45 and 55 feet in length, 5 feet in width and 5 feet in height. These groins were made by driving piles in pairs, 5 feet apart, filled in with brush and secured with cross caps at each pair of piles.

On the 1st July, 1891, the "Canada" was engaged in dredging at the entrance of She continued working to the 2nd August removing 8,100 cubic yards of gravel, stone and sand, and extending the cut in the channel 600 feet by 85 feet, over which 4 feet were taken off, as well as making a cut, at the Gypsum Company's new wharf, of 100 feet in length and 60 feet in width. Work was again resumed by the "Canada" on the 11th October, where it remained until the 29th, making a cut 360 feet in length and 100 feet in width in front of the breakwater, 1,980 cubic yards of gravel, stone and old timber being removed. She again resmued work on the 10th May, 1892, in improving the channel, removing a further quantity of 5,940 cubic yards of material.

MARGAREE.

Margaree Harbour, Inverness County, is at the mouth of Margaree River, on the west coast of Cape Breton Island, about thirty 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.

A pier constructed on the west side of the entrance to the harbour by the Provincial Government, was repaired and extended by the department in 1876 and 1879. In 1890-91 the work was extended 200 feet, and some repairs to the old work were effected.

During the great gale of December, 1890, the old Provincial Government work was almost totally destroyed, and the covering, cap timbers and top ballast of the outer work were disturbed in places.

In 1891-92 the sum of \$586.08 was expended, and 2 face chambers at the outer end of the new extension were re-ballasted, and the covering, cap timbers and top ballast of outer works were replaced where required. A new crib work 130 feet in length was built over the remains of the old Provincial Government work, between the 56 [1892]

outer works and the shore to within $1\frac{1}{2}$ feet of required height. Of this, 65 feet averaged 2 feet in height and 20 feet in width, and the remaining 65 feet $4\frac{1}{2}$ feet in height and 18 feet in width.

MARGARETVILLE.

Margaretville, Annapolis County, is on the south shore of the Bay of Fundy, and is about 42 miles east of Digby Gut.

In October, 1890, the outer end of the breakwater was badly damaged by a severe storm. A block, 86 feet by 40 feet wide at the extreme outer end, was badly damaged but left standing, while the next section, 117 feet in length, was entirely destroyed down to the level of the beach.

The broken end of the work was repaired in the autumn of 1891, so as to prevent further damage, and during the last half of the present fiscal year these repairs were made permanent, and a new block built to tie the broken end into. Besides this, most of the wreckage was cleared away, the outer end of the "break" was repaired and the sheathing on the seaward face renewed where old and broken.

PICTOU.

Pictou Harbour is pronounced by Admiral Bayfield to be in every respect the finest on the southern shore of the gulf eastward of Gaspé. It is situated at the head of a bay which is 1\frac{3}{4} miles wide and 1\frac{1}{2} deep. The mouth of the harbour is over \frac{1}{4} of a mile wide, and there is a depth of from 30 to 40 feet in the channel as far as the town, which stands on the north side 2 miles distant from the lighthouse. The flats, however, extend some distance beyond the ends of the wharves. On the south side is the terminus of the Pictou branch of the Intercolonial Railway, the principal point of connection between Nova Scotia and Prince Edward Island.

Opposite the town the harbour divides into three large arms called the East, Middle and West Rivers. The last two may be navigated without much difficulty for 2 or 3 miles above their confluence, but higher up they become divided into several small channels obstructed by oyster beds.

Before placing the "Canada" on the marine slip for the winter, she resumed work at the Pictou market wharf, and a cut of 280 feet long, 65 feet wide was made, 1,530 cubic yards of mud being removed. Work closed on the 25th November, and the dredge was placed in winter quarters. At the Acadia Coal Company wharves near Pictou Landing, work was resumed by this dredge in the spring, for which the company paid the sum of \$275. Work was commenced by the "George McKenzie" on the 23rd October, in the East River of Pictou, continuing until the 21st November, between which dates a cut of 1,150 feet in length by 50 feet in width and with a depth of 9 feet at low water spring tides was made, the quantity removed amounting to 5,555 cubic yards of mud and shells. It resumed work on the 2nd May and was still engaged thereon at the close of the fiscal year, when a further quantity of 14,665 cubic yards of gravel, clay, sand, mud, &c., had been removed.

PICTOU ISLAND.

Pictou Island, Pictou County, N.S., in the Strait of Northumberland, and about 10 miles north-east of the entrance to Pictou Harbour, is 5 miles long and 11 miles wide.

There are two wharves on the south side of the island; one near the west end commenced by the Provincial Government, repaired and strengthened by the department in 1880, and extended 62 feet 6 inches in 1887-88, and one near the centre known as the "East Wharf" built by the Department in 1882-83, and extended 100 feet in 1887-88. The east wharf and the extension of the west wharf, are 20 feet in width, of round timber, full ballasted and close-fendered.

During the year ended 30th June, the sum of \$2,096.29 was expended in repairing

and extending the east wharf, and in extending the west wharf.

Of the above, the sum of \$1,187.26 was expended on the east wharf, in stripping and levelling up, over a distance of 75 feet from the outer end, and in removing 50 cubic yards of ballast from the upper floor in the outer 30 feet; and in placing a block

68 feet in length at the outer end and building it up to within 6 feet of finished

height.

The sum of \$909.03 was expended on the west wharf, in placing and nearly completing a block 50 feet in length at its outer end. The work remaining to be done to complete the extension includes placing the covering, a small quantity of ballast and some of the fenders.

The depths at extreme low water are at outer end of east wharf 4 feet 6 inches, and at outer end of west wharf 2 feet 6 inches. Spring tides rise 6 feet.

PORT HOOD.

Port Hood, the shire town of the County of Inverness, is on the west coast of Cape Breton Island, and 2 miles north of the northern entrance to the Strait of Canso.

The harbour was formerly a secure one, Smith's Island, which is 2 miles in length and forms its western side, having been connected with the main land by a range of sand hills. In 1839 the sea made a breach through this protection. The opening, at first narrow, was enlarged by the tidal currents with increasing rapidity until it was swept entirely away and its site occupied by 15 feet of water. The harbour is now unsafe during northerly gales, except in a small cove on the east side of Smith's Island.

The pier which is on the eastern side of the harbour was commenced by the Provincial Government in 1865-66. It was originally 550 feet in length and 24 feet in width, with an Lat the outer end 100 feet in length and 25 feet in width. It came under the charge of the Federal Government in 1871, since which time extensive repairs and renewals have been made, including the construction of a new block 125 feet by 25 feet at the outer end in 1873; the placing of slopes of heavy stone on each side in 1883-84; the construction of a block 48 feet by 22 feet at the south end of the L in 1888-89, and the construction of a block 71 feet by 24 feet at the outer end in 1889-90. In 1890-91, the 71 feet block, which had settled, was cut down and rebuilt from about 3 feet below low water, and extensive repairs were effected including the reconstruction of 80 feet of the north face (50 to 130 feet from the outer end) from low water, and the renewal of the covering, cap timbers and floor stringers from the inner to within 50 feet of the outer end.

During the fiscal year 1891-92, the sum of \$800.00 was expended in driving 50 piles to complete the close-piling at the back of the __, and in repairing the talus on the north side by placing about 200 cubic yards of large stone.

The depth at the outer end of the pier at the face of the 71 feet block, varies from 111 to 15 feet at extreme low water, but there is less water over a sand bar further out.

Spring tides rise 4 feet.

The "Canada" arrived at Port Hood on the 24th September, when she took up the work at the public wharf making a cut 185 feet in length by 60 feet in width, removing 1,553 cubic yards of sand, and leaving a depth of 12 feet at low water.

PORT LORNE.

Port Lorne, formerly Port William or Marshall's Cove, is in Annapolis County, and

30 miles east of Digby Gut.

During the fiscal year the sum of \$1,000.00 was expended in repairing the centre portion of the seaward face of the breakwater, which was very old and retten, and in building a piece of cribwork inside the dock, to divert the brook which during freshets tore away the loading berth of vessels, and threatened to undermine and destroy the breakwater.

PORT MAITLAND.

Port Maitland, formerly Green Cove, Yarmouth County, is situated at the mouth of the Bay of Fundy, about 13 miles north of the town of Yarmouth.

The harbour, which is dry at low water, is formed by a western breakwater and an eastern loading pier. The western structure was badly damaged in 1887-88 by severe storms, and a breach 86 feet in length was made through the centre of the work. This was rebuilt in 1890, the contract including close-piling nearly the whole seaward face of the breakwater, and some general repairs.

During the present year the sum of \$300.00 was expended in repairing the loading wharf, the work consisting of the removal and rebuilding of almost the entire top, to a depth of 3 feet.

ROUND HILL.

Round Hill, Annapolis County, is situated on the Annapolis River, about midway between Annapolis and Bridgetown.

The river at this point takes a sharp turn, the bank on its northern side being a dyked marsh, while on the convex side of the bend of the river is a high steep hill which gives the settlement its name. For many years the river has been eating into and undermining the hill, and several acres have already fallen into the river, thus destroying not only valuable property, but the material being afterwards washed away by the current, forms banks and bars in the channel and otherwise injures navigation.

To prevent further damage, it was decided to try the effect of a shear dam, on the up river side of the hill, to divert the stream from the foot of the bank. for the sum of \$4,750.00 was entered into for this work in November last, and since the opening of navigation satisfactory progress has been made with the work. dam is not yet completed, but it is noticed that already the point of marsh on the opposite side of the river is wearing away, and it is thus probable that the dam will have the desired effect.

SOUTH GUT.

South Gut, Victoria County, is the local name of the south arm at the head of St. The latter is a fine basin 7 miles in length, the entrance to which is a few miles to the westward of the principal entrance to the Great Bras d'Or Lake.

A wharf was commenced at this place in 1890-91. During that year nearly all the material required to complete it was procured, and the work was built up to within 3 or 4 feet of finished height.

During the year 1891-92, the sum of \$499.66 was expended, and the wharf completed with the exception of the approach the placing and bolting of 12 fenders, and the cutting off the tops of the fenders previously placed.

The wharf extends 198 feet, to 6 feet at extreme low water. It consists of a shore abutment 48 feet long and 20 feet wide on top, and of 3 central blocks each 20 by 20 feet, and an outer block 20 by 40 feet.

STONY ISLAND.

Stony Island is on the east side of Cape Sable Island, about midway between Cape Sable and North-East Point.

During the present year, the construction of a breakwater to cost \$4,650, was begun at this place for the protection of fishing boats. The inshore section of the structure, which is of cribwork, was completed during the first half of the fiscal year, before the winter storms set in, and the outer section which was of pile work was begun, but owing to various delays on the part of the contractor, was not completed, and became almost a wreck during the storms of last winter. This spring, a satisfactory arrangement was made with the contractor, by which the pilework section should be replaced by cribwork without additional charge. This work is still in progress and is nearly completed.

TROUT COVE.

Trout Cove, Digby County, now called Centreville, is on the Bay of Fundy side of Digby Neck, nearly midway between Digby Gut and Petit Passage.

The original breakwater built by the local authorities in 1858, was 200 feet long and 30 feet wide. In 1876, an extension 175 feet in length was added by the department, and in 1880, and again in 1881, extensive repairs were made to the old breakwater. 100 feet of which was completely destroyed in 1879.

The situation is much exposed to northerly storms off the Bay of Fundy, and since the above mentioned date, the work has been several times repaired, the total expendi-

ture to date by the department being \$8,981.30.

[1892]

59

During the present fiscal year, the sum of \$100 was expended in repairing the outer end, which is now in fair order, but portions of the inner face require strengthening and partial renewal.

WEST ARICHAT.

West Arichat, Richmond County, is a small but safe harbour on the south side of Isle Madame, sheltered from the south and west by Creighton Island and a breakwater between it and the main land.

The breakwater is 1,285 feet in length and 23 feet in width. A portion of it extending 628 feet from the Island, was built by the Provincial Government in 1867, and the remainder by the department in 1879. It is of round timber open faced, and was full ballasted. The top of the covering is 11 feet above extreme low or 6 feet above extreme high water, the bottom being dry at low water except near a 25-foot opening between the old and new work.

In 1883-84 fenders were placed on the south face 3 to 9 inches apart, over a distance of 490 feet.

During the year 1891-92 the sum of \$496 was expended in removing the covering over 140 feet at the west end, and over 120 feet at the east end, and filling in with stone and gravel, and in renewing 15,000 feet board measure of covering, along the centre of the work.

PROVINCE OF NEW BRUNSWICK.

BLACK RIVER.

Black River, St. John County, empties into the Bay of Fundy, about 12 miles east of the entrance to St. John Harbour.

In 1879, the department constructed a breakwater, 160 feet in length, near the mouth of the stream, in order to provide a shelter for vessels frequenting the bay, and

also to form a convenient shipping place for lumber, piling, &c.

During the present fiscal year, the sum of \$500 was appropriated for repairing the covering and approach to the work. The outer part of the covering was repaired and refastened, and the inner portion was renewed with new material, and the approach, which lies through a narrow, deep valley or gulch, was ditched, &c., to prevent the freshets from washing down material upon the surface of the pier and again rotting out the covering.

CAMPBELLTON.

Campbellton, Restigouche County, is situated on the southern side of the Restigouche River, about fifteen miles west of Dalhousie, the shire town, and where the river enters the Baie des Chaleurs. It is an important station on the line of the Intercolonial Railway, as well as a thriving and growing town, which does an extensive business

in the shipment of lumber.

Campbellton is practically at the head of navigation, although the tide flows up the river some 9 miles further, but shoals and the intricacy of the channel prevent the passage of vessels of any size. Except on the "Traverse," about 4 miles below Campbellton, where the depth is only about 12½ feet, a depth of 18 feet at low water springs can be carried up to the town, which, with a rise of 10½ feet at springs and 7 feet at neaps, affords a good depth of water for the class of vessels engaged in trading to and from the port, which are generally barques of from 400 to 900 tons. The greatest number of these arrive in ballast, the disposal of which has been a matter of serious inconvenience, owing to there being no convenient place of deposit.

To remedy this, a contract was entered into on the 23rd April, 1889, for the construction of a "ballast wharf," the structure being an isolated block, 140 feet in length by 35 feet in width on top, and having a minimum depth of 18 feet at low water spring tides. This work, which had been in progress during the previous year, was completed

on the 30th of August, 1890.

A contract has been entered into with Messrs. G. and J. Robertson for the extension of the present wharf to connect with the lower or eastern end of Ferguson's wharf (so called), this extension to cost \$3,975.00, not including superintendence and contingencies.

To complete the landing and approach required for the accommodation of the ferry steamer plying between Campbellton and Cross Point (directly opposite), on the Quebec shore of the river, a contract was entered into 31st March, 1891, for the construction of the work, to extend 250 feet in length from the outer end of the work built by the department by day's labour in 1889-90, at the site selected and provided by the Campbellton Town Council. The work contracted for consists of four crib work blocks, respectively 50, 20, 20 and 100 feet long, and 3 spans or openings of 20 feet each, the latter spanned by four 10 by 12 inch stringers, the work being covered with 4 inch planking. The first three blocks and all the spans are to be 20 feet in width from outside to outside of cap timber, the fourth or outer block for a distance of 40 feet, to be 30 feet wide, while its remaining length, or that portion of it forming the incline will be 20 feet in width. This work was commenced early in July and completed on the 18th September, 1891.

CAPE TORMENTINE.

Cape Tormentine is on the New Brunswick coast of Northumberland Strait, and is the nearest point to Prince Edward Island, from which it is distant about 9 miles.

During the fiscal year 1891-92, the substructure of the pier has been extended a distance of 800 feet, and the superstructure a distance of 565 feet.

Two cribs have been sunk in the angles of the pier-head, and 1,080 cubic yards of stone have been placed in the talus, on the north side of the work.

On the 30th June, 1892, there remained 100 feet of substructure to be put in, while 500 lineal feet of superstructure and 800 feet of hardwood sheathing, together with the superstructure of the angle cribs, had not been built.

CARAQUET.

Bridgetown, Gloucester County, is the name of the railway station situated at the upper or western end of Caraquet Harbour and Settlement, and is 2 miles east of the bridge crossing the Caraquet River, and 6 miles west of the existing public wharf near Caraquet church.

Directly off Bridgetown, extensive oyster beds are situated, causing this portion of

Caraquet Harbour to be known as the "Oyster Grounds."

To provide shelter and a landing place for boats, a contract was entered into on the 25th October, 1890, for the construction of a work 350 feet long, consisting of a shore approach 160 feet long, 4 blocks each 15 by 15 feet, 5 spans or openings of 20 feet each and an outer block 30 by 30 feet. The shore approach and the several blocks to be constructed of round logs open cribwork, the spaces or spans between each being spanned with four 10 by 12 stringers, the blocks and approach to be fendered on the sides and full ballasted, the whole being covered with 3-inch planking.

This work, which was in progress during the previous year, was completed in

October, 1891, the expenditure thereon amounting to \$1,308.72.

As built, the work only extends out to extreme low water springs, although at low tide there is generally from 1 to $1\frac{1}{2}$ feet of water at the end, thus giving fair accommodation to those engaged in the oyster fishery.

CLIFTON

Clifton, Gloucester County, is on the south shore of the Bay des Chaleurs, about midway between Bathurst and Caraquet Harbours. Extensive stone quarries are worked in the district, the stone being used for building purposes and in the manufacture of all the different grades of scythe and grind-stones. Two firms, Messrs. Henry Read & Co., and Messrs. Lombard & Co., are largely engaged in this business, and, to facilitate shipments, the former firm, many years ago, built a breakwater 480 feet in length, and in 1878 transferred the same to the Crown. This breakwater was then extended 100 feet with a return—or —200 feet in length in a westerly direction, inclosing an area sufficient to shelter vessels and fishing craft.

[1892]

61

During the year general repairs were made to the outer portions of the breakwater, hardwood sheathing was put on in places, new face timbers put in where required, floor stringers replaced, the work reballasted and covering repaired, and a rip-rap of large stone placed along the east side near the outer end, the whole expenditure amounting to \$1,000.

COCAGNE.

Cocagne Harbour, Kent County, is situated on the south-west coast of the Strait of Northumberland, about 10 miles north of Shediac harbour. The entrance is obstructed by a bar of sand and gravel, the channel carrying a depth of about 9 feet at low water spring tides. Inside the "bar" there is anchorage in from $2\frac{1}{2}$ to 4 fathoms in a narrow basin, about $\frac{3}{4}$ of a mile long, while in the bay or harbour inward of this (which is about $2\frac{1}{2}$ miles by 4 miles), only a depth of from 4 to 6 feet is obtained at low water, until the mouth of the Cocagne River which enters the bay at its southwest corner is reached, where a pool or basin about half a mile long and about 500 feet wide, carries a depth of from 10 to 14 feet, affording good anchorage and shelter for vessels.

During 1881-82, the department built, under contract, a wharf 400 feet long on the west side of the pool, connecting it with the public road bridge to provide shipping facilities for the district. This wharf originally was 20 feet in width for 370 feet, the outer 30 feet being 40 feet wide, the depth of water along its outer face being 9 to 11 feet. In 1888 to afford increased space for shipment of lumber, tan-bark, &c., 100 feet in length of the outer end was widened 20 feet, and levelled up where settlement had taken place. Further settlement having taken place over the remaining portion of the work, and further wharfage accommodation being needed, as well as a renewal of the covering, the sum of \$2,250, voted at the last session of Parliament has been expended in levelling up and widening all of the inner portion of the wharf, in renewal of the planking, fendering, putting in new floor stringers, guard-logs, &c., where required, and in placing all of the work in good condition.

DALHOUSIE.

Dalhousie Harbour, Restigouche County, is situated at the head of Bay des Chaleurs and a short distance below the mouth of the Restigouche River. Dalhousie, the shire town, is on the south side of the harbour, on its eastern or lower end. A branch line of railway connects the town with the Intercolonial, the branch extending down to a wharf, having a depth of from 12 to 15 feet of water at low water spring tides. The principal export of the place is lumber, and vessels visiting the port for cargoes usually arrive in ballast. For the disposal of this ballast a contract was entered into, December, 1886, for the construction of a ballast wharf, where vessels could also take in their cargoes.

The wharf built has a length of 300 feet, averages in height 27 feet; it carries a depth at low water along its outer face of about 14 feet, the work being satisfactorily finished in October, 1887, since when, each season, it has been used as a place of discharge for ballast. Owing, however, to proper care not being exercised in the disposal of ballast from vessels, the wharf has become in part displaced, and with the amount available the necessary repairs and improvements have been undertaken, and though not completed at the end of the fiscal year, will shortly be satisfactorily finished.

EDGET'S LANDING.

Edget's Landing, Albert County, is on the west side of the Petitcodiac River, about 2 miles south of the railway station, and village of Hillsboro'.

Many years ago before communication was opened by the Albert Railway, the Local Government constructed a steam-boat wharf at this place, which was destroyed in the fall of 1869, by the "Saxby gale."

In 1889 the construction of a new wharf was undertaken by the department, and the work has been going at intervals since this date.

During the past fiscal year, the sum of \$900 was expended in forwarding the work and constructing two "gridirons."

The whole work is now nearing completion, and it is the intention of the department to finish the work during the coming fiscal year. It will be 400 feet in length, reaching to within 150 feet of low water mark, and having 30 feet of water at its outer end at high water spring tides. The first section of 200 feet is 20 feet wide on top, the next 100 feet 30 feet wide, and the last 100 feet 40 feet wide.

GRAY'S ISLAND.

Gray's Island (so called), Albert County, is situated on the western bank of the Petitcodiac'River, about two miles distant from the village of Hillsboro'. A quite extensive shipping business is carried on from Gray's Island, it being the principal shipping place for the district, having good wharves which are approached both by public road and railway, a branch line extending from the main line of the Albert County Railway to the wharves. These wharves, however, at times are difficult and dangerous for the approach or departure of large vessels, and great difficulty being experienced in holding them at the wharves during ebb tide, which sets very strongly against them, a contract was entered into, 27th October, 1890, for the construction of a breakwater 300 feet in length for their protection. The first 100 feet or inner end of the work is merely ordinary "clay dyking" 5 feet wide on top, sloping 1 to 1 on the sides. The next 100 feet outwards is of round logs open cribwork 15 feet wide on top, and sloping 1 in 4 on the sides. The next 50 feet has its upper 30 feet similar to that last described, excepting that the upper or northern sides, has the outer longitudinal face timbers of square timber and close sheathed with flat wood spruce spars, dressed to 6 inches in thickness, the bottom being built plumb, and its northern or upper side protected by close-piling. outer 50 feet is 25 feet wide on top, and its upper 30 feet having a slope of 1 in 12 on the end, 1 in 4 on the north side and 1 in 2 on its southern or lower side, the bottom being built plumb and having both sides and end protected by close-piling, and the upper portion by close sheathing of spruce and hardwood.

Materials for the work being procured during the winter of 1891, construction was commenced early in 1892, the work being finally completed 28th May, 1892.

KINGSTON.

Kingston, Kent County, is situated on the Richibucto River, 3 miles south of Richibucto, the shire town, and 6 miles from the mouth of the river, which enters the Strait of Northumberland.

The river above Kingston being poorly provided with shipping facilities, a contract was entered into in May, 1890, for the construction of a wharf on the upper side of the Kingston bridge, to provide additional accommodation and a means of warping vessels through the "draw." The work is 200 feet long and 35 feet wide on top, the ends and outer or north face, being built close faced of square timber, and the inner or south side open faced, both sides and ends having a slope of 1 in 18. It is connected with the public road bridge by an approach 63 feet long (measured along its centre) and 20 feet wide, built of round logs, open cribwork, ballasted, with floor stringers and planked over, the whole having been completed on the 1st December, 1891.

NEGRO POINT BREAKWATER.

St. John Harbour, on the north side of the Bay of Fundy, is the estuary of the River St. John, and lies at the head of a small bay, the distance between "Red Head" and "Negro Town Point" at the eastern and western sides of the mouth being about 2½ miles. Partridge Island, which lies a little more than a half mile outside of the line of points named, divides the entrance of the harbour into two channels. During south-easterly winds the sea is broken by Inner Mispec Point (which bears south by west 2 miles from Red Head), and by the shoal water between Red Head and the main or eastern channel. South-westerly winds throw 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 main channel.

During 1874-75 a thorough survey of the harbour was made by the engineers of the department, and in the spring of 1875 a breakwater 2,250 feet long, to partially

close the western channel, was begun, and in September, 1875, completed.

892] 63

Injury having been done to portions of the slopes, top and outer end of the work by storms, a contract was entered into 19th January, 1891, for supplying a quantity of stone for its repair, delivery of which was in progress by end of fiscal year; about 1,000 cubic yards having been delivered and placed at the most exposed parts of the work.

Delivery of stone to the amount contracted for was resumed on 9th May, and completed by the close of the fiscal year; the quantity delivered amounting to 8,114 cubic

yards.

The work done consisted in repairing a length of 420 feet of the structure, outward from the end of the wooden portion, including the refilling and repairs of some of the most serious breaches through the work.

NEGUAC.

Lower Neguac, Northumberland County, is situated near the northern entrance to Miramichi Bay, about 35 miles east from Newcastle and some 20 miles south of Tracadie, Gloucester County. There is a good and safe shelter for boats and small vessels, and it is in the centre of one of the best fishing grounds in the Gulf of St. Lawrence, the district also possessing excellent soil while the surrounding country is thickly settled and an extensive business carried on from the place, principally by water, to accommodate which a steamer of the "Miramichi Steam Navigation Co.," during the season of navigation, makes daily trips between Neguac, Chatham, Newcastle and other points on the bay and river.

The shipping facilities at Neguac being very poor, consisting of an isolated cribwork block, built some 4 years ago by the Steam Navigation Co. assisted by the Local Government, to and from which access is had by a plank walk supported on trestles, necessitating the carriage of all freight by hand or boating it to the steamer or other vessel calling for cargo, to better accommodate the large business a contract was entered into on the 14th April, 1892, for the construction of a public wharf, consisting of a shore abutment 370 feet long, 19 blocks 20'x 21' each, 20 spans or openings of 20 feet each, and the outer block or landing pier 40 x 62 feet, making in all a length of 1,190 feet.

By the close of the fiscal year, material was being delivered, and work of construction about to be commenced.

OROMOCTO.

The Oromocto shoals (St. John River) are about 10 miles below Fredericton in Sunbury County.

The river at this point is divided into three channels by Oromocto and Thatch Islands, the main channel being the centre one between the two islands.

A large amount of dredging has been done on these shoals, to keep open navigation between St. John and Frederiction, and a shear dam 1,600 feet in length has been constructed between the head of Thatch Island, and the western bank of the river to confine the current, and make more scour through the dredged cut on the shoals.

During the past fiscal year the sum of \$500 was expended on repairs to this dam. The plank covering was renewed in part, as was also the planking on the up river or sloping face. On other portions of these faces the planking was repaired and refastened, and the inner end of the dam, where it joins the shore, was protected with brush and stone.

Between the 6th of July and the 5th of November, 1891, the "New Dominion" was engaged in deepening the channel between Oromocto and Thatch Islands, removing during that period 36,785 cubic yards of sand and mud, leaving a depth of 14 feet of water in the channel.

PARTRIDGE ISLAND.

Partridge Island, lies directly off the entrance to St. John Harbour, dividing the approach into two channels, the principal of which is to the eastward of the island.

On the island is situated an important lighthouse, a quarantine station, fog whistle, &c., and to facilitate the landing of coal, and other supplies for these, the department constructed many years ago two small piers with a landing dock between; these piers are on the north-east end of the island and facing the harbour and city of St. John.

During the present fiscal year, the sum of \$500 was expended in repairing the approach to the eastern work, which was much decayed, and in planking portions of the western work, and both structures are now in good condition.

QUACO.

Quaco Bay, is on the north-east coast of the Bay of Fundy, about 30 miles east of St. John Harbour.

A small river discharges into the eastern end of the bay, and a harbour of refuge is formed by the breakwaters each 300 feet in length, one on either side of the river's mouth. This harbour is accessible for coasting vessels and schooners which come here to load timber, &c., for about 4 hours in each tide, but owing to the rise and fall of tide, about 30 feet, it is bare at low water.

During the present fiscal year, the sum of \$1,350 was expended in general repairs to both structures. The sheathing on the seaward face of the western work was refastened where loose, and renewed where torn off, while the repairs to the eastern work were mostly to the covering and upper timbers, new floor stringers, cross-ties and plank covering being added to the inshore end, and fenders and plank covering to the outer.

Both structures are now in fair order, except that the eastern work requires some

additional repairs to the covering.

QUACO WEST.

During the past fiscal year, the sum of \$1,841.63 was expended by the department in opening a new mouth, and otherwise improving the exit of the river at West Quaco. This work was undertaken in consequence of a high gravel bar and sea-wall having forced the original opening to the westward, making the entrance to the harbour both difficult and dangerous.

A dam 205 feet in length and 12 feet high, was first constructed across the

river, a short distance below the proposed new opening.

This dam, owing to the bad foundations, was carefully built with plank sheathing, sheet piling and brush and stone mats on either side, as there was a reverse head of water at high tide, and provided with a suitable sluice and gate, and has a row of close-piling driven through the centre of the work. After the completion of the dam a cutting 400 feet long and 7 feet deep, in its deepest part, was made through the gravel bar, and after shutting down the gates a new channel was torn out down to the level of the bottom of the harbour. Schooners and small vessels now enter by the new channel, and it is proving in every way satisfactory.

RICHIBUCTO.

Richibucto Harbour, Kent County, is situated on the south-west shore of the Gulf of St. Lawrence, about 40 miles north from Pointe du Chêne (Shediac Harbour) the eastern terminus of the Intercolonial Railway.

At the close of the last fiscal year the "St. Lawrence" was engaged in improving the Albion or middle channel leading into the Harbour of Richibucto, and continued work

until the 28th October.

The total quantity of material removed was 20,388 cubic yards of fine sand. Full details of the work done, will be found in the report on dredging under the heading of the "St. Lawrence."

RIVER KENNEBECASIS.

The Kennebecasis takes its rise near the sources of the Petitcodiac, and after a south-west course of about 20 miles, enters the St. John through Kennebecasis Bay.

On the 12th May the dredge "New Dominion" was taken to Hampton to resume the work at that place where it operated until the 30th of June. During this period one cut 800 feet in length, by 43 feet in width, and leaving 10 feet at summer level, was made through a long flat in the channel, and a cut of 110 feet in length by 40 feet in width, to 10 feet at low water, was made in front of the public wharf.

SHIPPEGAN.

Shippegan Harbour, Gloucester County, is situated near the entrance of the Baie des Chaleurs, about 60 miles east of Bathurst.

At the southern end of Shippegan Harbour, connection is made with the Gulf of St. Lawrence, by "Shippegan Gully," a shoal and difficult channel, formerly used during fine weather by the smaller fishing boats and vessels of very light draught.

By the use of the "gully" a saving in distance is made of from 25 to 40 miles, for the fishermen going or returning to their homes from the fishing grounds situated off this part of the shore, while the harbour is also a most desirable shelter during storms, being perfectly protected from all winds, and largely used by all of the fishing vessels of the extensive fishing establishments of Caraquet, and other parts of the south shore of the bay.

To make the "gully" available for vessels of a larger class and permit of it being entered at all time of tide or during stormy weather, the department in 1875 commenced the construction of a breakwater to protect the entrance, and a "dam" to close an opening known as the "east gully." Difficulty was had with the contractors, who suspended operations at the close of the summer of 1876, and the work was relet in December, 1877, operations being resumed April, 1878, but the second contractors, about the end of July, stated their inability to proceed further with the work, and it was taken over by the department.

At this time the "dam" was completed, about 900 feet of breakwater was raised to its proper height, and a further length of 500 feet partly built.

In October, 1879, a storm occurred during which the tide rose much higher than before known, seriously injured the "dam," while the unfinished outer 500 feet of the breakwater was completely destroyed, and the inner portion much damaged. In 1880-81 the dam was repaired, raised and strengthened by piles driven 10 feet apart, connected by caps and walings. During 1883, portions of it that had again settled were raised where deemed unsafe, and an extension of 120 feet added to the remains of the breakwater, a gap that had been made being closed as well, and the other portions of the structure raised.

General repairs were again made in 1884-85, when 50 feet of the outer end was close-piled, the "dam" at the time being raised, where settlement had taken place. Further close-piling and some general repairs of the work were also done in 1886-87, while during 1888-89, a length of 60 feet which had been seriously damaged the previous winter, was reconstructed.

In November, 1889, a contract was entered into for an additional block of 50 feet, at the end of the eastern or existing breakwater, and the construction of a breakwater to extend 1,000 feet, in a southerly direction, from the beach west of the "gully," the whole being complete in January 1892.

A length of 137 feet of the inner end of the work built in 1875, was reconstructed under direct charge of an officer of the department, and other necessary works of repairs and improvements were effected.

ST. JOHN RIVER.

During the fiscal year, the sum of \$250 was expended by the department in removing snags and sunken logs from the channel of the St. John River, between St. John and Fredericton.

These obstructions are brought down annually by the spring freshets, and, as they often lie directly in midchannel, are very dangerous to navigation, especially to the steamers which ply on the river during night.

ST. JOHN RIVER-GRAND FALLS SHEAR DAM.

During the year 1883-84 the construction of a shear dam, was begun by the department on the eastern side of the river, immediately above Grand Falls and at the mouth of Little River, for the purpose of preventing logs and timber, during times of freshet, from being stranded on the rocks, and to direct them in their passage over the [1892]

Besides building the shear dam, a portion of the rock projecting over the falls was blasted away so as to destroy the eddy in the basin below, where a large amount of timber usually gathered and remained.

During the fiscal year, the dam was extended, and the upper and older portions, which had become rotten, were removed, and the work raised 2 feet 6 inches in height

and reballasted.

TOBIQUE RIVER.

The Tobique is one of the most important tributaries of the St. John and falls into the main river, a short distance above the village of Andover, in Victoria County.

The country on either side is excellent farming land, and, as the settlers have, up to the present, no railways by which to reach their markets, the river has formed their principal highway. Large quantities of timber are also driven down the river every spring.

The river itself is rapid, and, except in times of freshets, shallow, with numerous gravel bars and rocks, which are brought down by the spring floods. Communication is kept up principally by flat-bottomed tow-boats, drawn by horses, and the department has for some years expended various sums in blasting rocks, removing bars, improving tow-paths and otherwise improving the navigation of the stream.

During the fiscal year the sum of \$200 was expended in continuing this work, and

now the channels are in fairly good condition.

Owing to the improved state of the river, and the construction of the Tobique Valley Railway, which extends from the river mouth 28 miles to Plaster Rocks, no further expenditures will be required for the lower portion of this river.

TRACADIE.

·Tracadie Harbour, Gloucester County, is situated on the east coast of New Brunswick, about midway between Shippegan Gully and the entrance into Miramichi Bay, and is entered from the Gulf of St. Lawrence by what is known as the "North," "South" and "Old" "Gullies." The harbour is some 6 miles in length by 1/4 to 1 mile or more in width, but excepting in the river channels (North and South Tracadie Rivers) and in the channels entering from the different gullies is quite shoal, being

almost dry at low water spring tides.

To provide wharfage facilities for the district, which is a large and populous one. containing fully 2,000 inhabitants, a contract has been entered into for the construction of a public landing pier, 1,430 feet long, and extending to the edge of the North Gully channel, the work consisting of a shore approach 250 feet long, 28 "blocks" 20 x 25 feet, one "block" 40 x 45 feet, and 29 "spans" or openings of 20 feet each, the latter spanned by 7 floor stringers 10 x 12 inches, and the entire top of the work covered with The blocks and shore approach are to be constructed of round logs open cribwork, and fully filled with ballast, fendered, &c.

At the close of the fiscal year active work of construction had not been commenced.

TYNEMOUTH CREEK.

Tynemouth Creek, St. John County, is on the north-east coast of the Bay of Fundy, about 21 miles east of St. John Harbour.

The stream enters the bay through a sea wall of gravel and shingle, immediately inside of which there is a basin, which, at high water, forms a safe and convenient harbour.

To prevent the erosion of the sea wall and to facilitate the entrance into the basin, the department, in 1875, and again in 1883, constructed works on either side of the

river mouth; the work on the western side being the last to be constructed.

During the present fiscal year, the eastern work which was becoming undermined was repaired and strengthened. Both works are now in fair condition and no further expenditure is immediately required, although parts of the older work are becoming much decayed.

[189**2**]

67

PROVINCE OF QUEBEC.

ANSE ST. JEAN.

Anse St. Jean is on the south-west bank of the Saguenay, about 25 miles from its mouth.

The renewal of the flooring of the wharf was completed over a length of 250 feet with red spruce plank 5 inches in thickness. Twenty-five toises of stone were placed in the wharf, and the shed painted. The movable slip was also completely renewed.

BAIE LA VALLIÈRE.

Baie la Vallière is a bay near the mouth of the River Yamaska, 9 miles below Sorel. This bay at low water had no outlet and remained a marsh. A channel 6 feet deép, 25 feet in width, was commenced in November, 1891, from River Yamaska towards the Pot au Beurre River, and completed in June, 1892. A total length of 650 feet was dredged, partly through a clay bank and the remainder through marsh.

Approximate quantity dredged, 4,800 cubic yards, consisting of blue clay and decayed vegetation.

BELŒIL.

Belœil piers and booms are on the Richelieu River, south of the Grand Trunk Railway bridge, which crosses the river at Belœil; they were built to facilitate the passage of steamers and barges through the swing of the bridge, and to prevent them from being carried into shallow water.

There are 5 mooring piers, which hold the heavy booms in position. Three of these booms were repaired in 1890, and the other two in the fall of 1891.

This spring one of the booms was made anew at a cost of \$1,129.94.

BERTHIER (EN BAS).

Berthier, $24\frac{1}{2}$ miles below Quebec, is on the south shore of the St. Lawrence, and in the County of Montmagny.

The repairs to this wharf during the year consisted in attending to the steps of the slips, the amount expended being \$485.93.

CACOUNA.

Cacouna is on the south shore of the St. Lawrence, 131 miles below Quebec, and on the line of the Intercolonial Railway.

Work in connection with the construction of an isolated block at this place was continued during 1891-92. When completed this block will be 102 feet in length on top, 27 feet in width on bottom and 24 feet on top, with a height at the outer end of 17 feet 8 inches.

CARLETON.

Carleton, Bonaventure County, is situated on the south shore of the Baie des Chaleurs, and is distant some 35 miles from Campbellton, and 5 miles from Dalhousie. The sum of \$382.11 was expended during the year 1891-92 in effecting urgent

necessary repairs to the wharf at this place.

CHICOUTIMI.

Chicoutimi is at the head of navigation of the River Saguenay, $71\frac{1}{2}$ miles above Tadousac.

The flooring of the wharf has been completely renewed on a length of 210 feet and a width of 110 feet, with red spruce plank 5 inches in thickness; the east side of the wharf, where the sheds are built, was raised 18 inches; the waiting room was painted both inside and outside, and seats constructed. Two mooring posts were renewed.

COMO.

Como is a village in the County of Vaudreuil, situated on the south shore of the Lake of Two Mountains, 37 miles from Montreal.

The government dredge "Nipissing" worked 3 days removing a portion of the wreck of the steamer "Dagmar" at the Como wharf.

COTEAU LANDING.

Coteau Landing is situated on the north side of the River St. Lawrence, at the foot of Lake St. Francis. It is the chef-lieu of the County of Soulanges, two miles from Coteau Station, Grand Trunk Railway, and 36 miles west of Montreal. It is also a station on the Canada Atlantic Railway.

During the season of navigation, the Richelieu and Ontario Navigation Company's

steamers, besides several local lines of boats, call at Coteau Landing.

There are several wharves at Coteau Landing, but the wharf known as the Richelieu's is the one referred to in this report.

It is 904 feet in length, including a block 279 feet by 24 feet at the outer end. The bridge or approach has a general width of 12 feet, with 2 sidings for the crossing of teams.

The reconstruction of the whole work was commenced in 1889, and completed last

fall.

GRANDE RIVIÈRE.

Grande Rivière is in the County of Gaspé, and is situated on the Baie des Chaleurs.

During the year the wharf under construction by contract at Robin's Point was completed. It has a total length of 457 feet, with a width varying from 25 feet 9 inches on top to 38 feet at its outer end, where there is a depth of water of 19 feet at low water springs.

On the northern side of the wharf, a slip and two stairways, for the accommodation

of those using the wharf at different stages of the tide, have been built.

GROSSE ISLE QUARANTINE STATION.

Grosse Isle is an island on the St. Lawrence, 33 miles below Quebec, and is the place where steamers and vessels on their way to Quebec report any case of infectious diseases they may have on board.

The outer end of the wharf having become much damaged owing to natural decay, it was found necessary to repair the same to make it available for any vessel or steamer that might have to tie up to it. Accordingly, extensive repairs and renewals were commenced in 1890-91, and completed during the past fiscal year.

ILE VERTE.

Ile Verte, on the south shore of the St. Lawrence, is in the County of Témiscouata, 17 miles below Rivière du Loup.

During the past fiscal year, the work of connecting the roadway with the isolated block has been continued, 80 feet in length having been completed, and the remaining 110 feet built up to within four courses of the required height.

KNOWLTON'S LANDING.

Knowlton's Landing is situated on the west shore of Lake Memphremagog, in the County of Brome, Province of Quebec, and about 11 miles from the town of Magog, which is at the foot of the lake.

The repairs made to the wharf, consisted in building an extension of 51 feet by 75 feet. This extension was built of hemlock piles, covered with stringers and 3-inch planking, the cost being \$971.22. There is a depth of 9 feet at low water at the end of the present wharf, which will permit of the steamers calling at all stages of water.

LAKE MÉGANTIC.

Lake Mégantic is a fine sheet of water, 14 miles in length, with a width varying from 1 to 2 miles.

It is the source of the Chaudière River, which flows into the St. Lawrence about 3 miles above Point Lévis. It is part of the dividing line between the Counties of Beauce and Compton.

During the fiscal year, the pier at the village of Lake Mégantic, known as Agnes, was repaired. These repairs consisted in removing the plank covering, and making a permanent roadway of stone and gravel. The work, however, was not completed.

LAKE OF TWO MOUNTAINS.

This lake is an expansion of the River Ottawa, 36 miles from Montreal.

A cut of 40 feet wide and 500 feet long was made through a shoal below Jones Island, to a depth of 10 feet, by the dredge "Nipissing," material dredged, consisting of clay and sand, 8,340 cubic yards.

LANORAIE.

The village of Lanoraie is situated in the County of Berthier, on the north shore of the St. Lawrence, 361 miles below Montreal, and at a distance of 6 miles from the Canadian Pacific Railway.

In 1884, a landing pier 70 x 30 feet at the bottom, and 54 x 27 feet on top was built at the village, and in the following year an approach 240 feet in length, 25 feet in width, with an average height of 12 feet was built to connect the landing pier with the shore.

The upper side of this approach for a height of 6 feet from the top, is built on a slope of 6 inches per foot, and sheathed with 4-inch tamarack plank. The surface

of the approach is built on a grade of four feet per hundred.

In 1887 the approach was damaged by the ice shove, which curved it towards the east. No further damage occurred until the spring of 1891. In the autumn of 1890, when the ice formed, it did not pack along the upper side of the approach as it usually

does, thus affording some protection.

The consequence was that the second shove of the ice at the beginning of April, in 1891, had the effect of moving the approach on two-thirds of its length 160 feet from the landing pier. The vertex of the curve, which is at about 80 feet from the landing Besides this damage, two tiers of the face timbers, on a length pier, measures 4 feet. of 42 feet of the approach on the lower side near the landing pier, were torn up by the ice; five fenders, on the lower side of the approach, were also removed.

Repairs were commenced on the 5th November, 1891, and finished on the 28th of the same month, consisting of pile work along the upper and lower side of the approach,

and the renewal of the face timbers.

LAPRAIRIE.

Laprairie is the chef-lieu of the county of the same name, and is situated on the south shore of the River St. Lawrence, seven miles above Montreal. It is one of the stations of the Champlain Division of the Grand Trunk Railway. One of the steamers of the Richelieu and Ontario Navigation Company plies between Laprairie and Montreal, making several trips every day during the season of navigation.

With the amount voted by Parliament, the retaining wall at the lower end of the

village was extended a further distance of 131 feet, at a cost of \$2,495.10.

POINTE LÉVIS.

Pointe Lévis, is a town in the County of Lévis, situated on the south shore of the River St. Lawrence opposite Quebec.

Government ship-channel dredge No. 11 worked here for 15 days near the entrance

to the graving dock, making a cut 300 feet wide through a shoal.

The material dredged consisting of 3,330 cubic yards, hard-pan, sand and stones at a cost of \$2,447.78.

LÉVIS GRAVING DOCK.

During the latter part of June and first part of July, 1891, the sluice valves in the caisson and culverts were taken off their seats, cleaned of all rust and put back in good working order. The inside of the caisson was scraped and two coats of cement wash applied; the outside of the caisson, and the folding bridge were painted and the joints in the masonry of the dock repointed.

The caisson berth and recess were cleaned of alluvial deposit, and during the winter the engines of the auxiliary pumps-which had been run daily for five years-were repaired in the dock shop, and all the steam pipes from the boilers to the different engines 70

were lagged with thick felt and asbestos, and covered with canvas to prevent condensation of the steam.

During the year three vessels were docked, the revenue derived therefrom, including \$45.53 proceeds of sales of scrap iron, amounting to \$4,690.93.

LÉVIS FERRY WHARF.

The ferry wharf on the west side of the entrance of the graving dock being in need of repairs, the top part was renewed on its whole length of 200 feet, for a height of 6 feet, the top flooring and floor stringers were renewed and four new mooring posts provided. Considerable repairs were also made to the pontoon, and the wharf is now in good condition.

Spring tides rise 19 feet; neap tides, 14 feet.

LONGUEUIL,

The chef-lieu of the County of Chambly, is situated on the south shore of the River St. Lawrence, nearly opposite Montreal.

The dredge "St. Louis" began work here towards the close of the fiscal year, but found the material too hard for her machinery, and after removing 45 cubic yards of hard-pan, it ceased work.

MATANE.

Matane, on the south shore of the River St. Lawrence, is in the County of Rimouski, 240 miles below Quebec.

During the past year the block previously built at this place, was connected with the shore by a block and span structure 160 feet long and 12 feet wide. The block itself was raised and general repairs were effected.

MURRAY BAY.

Murray Bay-or Malbaie-is in the County of Charlevoix, and is situated on the north shore of the St. Lawrence, 90 miles east of Quebec.

Towards the end of the fiscal year, materials were procured for the repairs required to the wharf at this place, but no actual work had been done up to 30th June, 1892.

NICOLET.

The River Nicolet empties into the St. Lawrence on its southern shore, at the foot of Lake St. Peter.

In order to protect schooners loading in the harbour from the force of the storms on Lake St. Peter, a jetty was commenced in 1881 and added to each consecutive year.

This work, in 1891, was resumed on the 29th September, the water having been

too high to admit of its being commenced before.

The pile-work was discontinued on the 14th October, and the stone-filling at the end of November. During this time 200 feet of pile-work were built, making the jetty 3,762 feet in length. It is 13 feet 2 inches in width, and 4 feet above low water, with an average height of 5 feet 6 inches.

Some dredging was done in the channel along the jetty, between the 24th September and the 28th October, 1891, the quantity removed amounting to 11,502 cubic yards

of sand.

Some damage was caused to the jetty at the beginning of December, 1891, about 200 feet of the outer part having been carried away. The remaining section was repaired in the spring at a cost of \$1,815.77.

QUEBEC-QUEEN'S WHARF.

The work of repairs to this wharf, consisted in renewing part of the top planking, and in small repairs to the slip or incline, and to the ladder at the west end, the amount expended being \$110.93.

The dredge "St. Louis" worked from the 8th to the 27th May, 1892, cleaning out the basin at the wharves, the material dredged consisting of 890 cubic yards clay, hard-pan

and gravel.

71 T18927

RIMOUSKI.

Rimouski is on the south shore of the St. Lawrence, in the County of Rimouski, 180 miles below Quebec.

A distance of 976 feet of the east wharf, was, during the fiscal, year, protected with 9-inch sheathing, at a cost of \$4,413.48.

RIVER BLANCHE.

River Blanche, Rimouski County, is on the south shore of the St. Lawrence, 9 miles west of Matane.

General repairs were made to the wharf at this place, at a cost of \$953.03.

RIVER MATTAWIN.

St. Michel des Saints is a parish in the County of Berthier (en haut), 53 miles north of the Joliette branch of the Canadian Pacific Railway, and is situated on the River Mattawin, one of the tributaries of the St. Maurice.

The work of removing boulders which obstructed the river, was commenced on the 7th December, 1891, and was discontinued on the 16th, 78 being removed, measuring 121 cubic yards, at an expenditure of \$291.59.

RIVIÈRE L'ASSOMPTION.

Rivière L'Assomption flows into the St. Lawrence at Repentigny.

Chute Monte-à-peine, which is 25 miles above the town of Joliette, and in the County of Joliette, was the most troublesome point on the river to the lumbermen. Every year thousands of logs stuck on the rocks, where they lay until the high water the following spring. In 1889 a side dam was built, which had the effect of keeping the logs in the main channel, and since its construction very little trouble has been experienced, to the satisfaction of the parties interested.

During the year, further improvements were made: the protection works on the river, commenced last year, were extended further up stream, and points of rock and large boulders which obstructed the channel were removed at an expenditure of \$649.99.

RIVIÈRE DU LIÈVRE-LOCK AND DAM.

The Rivière du Lièvre flows into the Ottawa River, 18 miles below the city of Ottawa. Its general course is northerly and its width for 25 miles above the mouth varies from 300 to 600 feet. The lock and dam commenced in 1887 at the Little Rapids, 12 miles above the village of Buckingham, were completed in April last, the first boat being locked up on the 19th April.

The lock is 150 feet in length between the gates, and the width is 31 feet, the lift

being 13 feet 9 inches at low water. It is built of stone.

The dam has a length of 310 feet, between the western abutment and the retaining wall. A slide 18 feet in width has been built in the dam to provide for the passing of logs, and three mooring piers were built for the fastening of the booms.

RIVER ST. LOUIS.

This river flows through the County of Beauharnois, into Lake St. Louis, at the town of Beauharnois.

It is connected with Lake St. Francis, at the head of the Beauharnois Canal, by means of a feeder and canal, which has a width of about 20 feet and an average depth of $3\frac{1}{2}$ feet.

Last May, the construction of a bridge across the river at St. Clément, 3 miles above the town of Beauharnois, was commenced, and will shortly be completed.

This bridge consists of two abutments and a span of 70 feet. It is built of wood. The municipality of St. Clément contributed \$400 towards its construction.

RIVER ST. MAURICE.

The River St. Maurice flows southward and empties into the St. Lawrence at Three Rivers.

The river at its outlet is divided into three channels by two islands—l'Isle Bellerive and l'Isle aux Cochons.

In order to enable the barges used by the lumber merchants to load at the highway bridge, the western channel of the St. Maurice has, during the past season, been dredged to a depth of 9 feet at low water.

On the 26th October, 1891, a dredge was set to work to cut a channel through a shoal at the outlet of the river. Operations were discontinued on the 12th November, 1891, and during this time 7,605 cubic yards of sand were removed and dumped on the south shore of the St. Lawrence, below Doucet's Landing.

The channel dredged during the previous years has filled in considerably.

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 75 miles, there is a good channel for vessels drawing less than 2 feet of water.

There are four steamers now plying on this section of the river, all drawing from 3

to 4 feet of water, which is too great a draught for some portions of the route.

The greatest impediments to navigation are at the Rapid Manigance, and the shoals at the Mekinac and Pointe à Thom.

Two gangs of men worked on the shoal opposite the River Mekinac, the plant employed being two scows rigged as spoon dredges, and worked by winches, while another gang worked at the Rapid Manigance.

Owing to the season being much advanced, only blasting of rock could be done. This work was commenced on the 16th October, 1891, and was discontinued on the 18th November.

RIVER VERMILION-CHUTE DES IROQUOIS.

The Iroquois Falls are situated on the River Vermilion, 4 miles from its mouth.

The Vermilion is one of the chief tributaries of the St. Maurice, into which it empties from the west, 93 miles north of Three Rivers.

In 1874, the main channel at the head of the Iroquois Falls was closed by a dam in order to divert the course of the river into the eastern channel, and so facilitate the descent of timber.

This dam having partly given way at two places, there was not enough water flowing through the eastern channel to admit of the timber being driven through it.

The repairs commenced in April, 1891, were continued on the 1st February, 1892, and the work closed on the 29th March, of the same year. It consisted in making the dam water-tight with fascines, stone and timber, and cost \$877.53.

RIVER YAMASKA.

This river flows through the County of Yamaska, and empties into the St. Lawrence on its southern shore, at the head of Lake St. Peter, 8 miles below Sorel.

A lock and dam at Ile à Cardin, 13 miles below the village of St. Michel

de Yamaska, about 4½ miles from the mouth of the river, were built in 1880.

By the construction of these works, and by dredging done subsequently on the shoals below the lock, the river has been rendered navigable for vessels of moderate draught up to Belle Pointe, or St. Aimé, a distance of 20 miles.

During the winter, some stone ballast was supplied, and put in front of the dam on

the upper side.

In April, 1892, when the Yamaska bridge was swept away, it carried in its course one of the gates of the lock, and also tore off the upper part of an ice pier at the head of the lock; these damages have since been repaired.

The dredge "Queen" continued the work began last year, making a channel above the lock 20 feet wide and 7 feet deep at low water over a length of 625 feet.

SOREL ICE PIERS.

The River Richelieu takes its rise in Lake Champlain, and empties into the St-Lawrence at Sorel.

In order to protect the properties at the outlet of this river, and the boats which winter there, from ice shoves in the spring, an additional ice breaker was built at the outlet of the river, at the northern end of the western shore of the Richelieu. The pier measures 30 feet by 24 feet and 23 feet in height, with a sloping face like those previously built, the amount expended being \$1,832.79.

SHIP CHANNEL-MONTREAL TO QUEBEC.

The work done during the fiscal year was the continuation of the deepening of the Channel at Cap à la Roche, from its present depth of 24 feet to a full depth of $27\frac{1}{2}$ feet at low water.

Dredge No. 11 worked a total of 140 days, near the upper end of the Cap à la Roche

Channel, completing a length of 1,270 feet, the full width of the channel.

Dredge No. 13 worked in all 139 days at the head of the Cap à la Roche curve, completing a total length of 3,150 feet, on an average width of 170 feet, and to the full depth of 27½ feet at low water.

Stone Lifter No. 1 was employed assisting these two dredges all the time they were working. Total quantity dredged at Cap à la Roche consisting of hard shale rock

was 140,865 cubic yards, at a cost of \$46,583.02 or 33.1 cents per yard.

Work was not resumed at Grondines or Lotbinière this year for lack of appropriation, though it is a fact that the obstructions at these places are now a greater hindrance to navigation than what remains to be done at Cap à la Roche.

To complete the Cap a la Roche Channel, there remains to be dredged two pieces, one about the middle of the channel, 925 feet long, and the other at the upper end 1,350 feet long. It is confidently expected that this will be finished by the close of the fiscal year ending 30th June, 1893.

Elsewhere are tables giving further particulars and details of work done.

STE. ANNE DE LA PÉRADE.

The River Ste. Anne takes its rise in the County of Quebec. It crosses the Counties of Portneuf and Champlain, and empties into the St. Lawrence on the north shore, at the parish of Ste. Anne de la Pérade, 54 miles above Quebec, and 23 miles below Three Rivers. It is for the most part very shallow.

On the 22nd June, 1891, a dredge was set to work to deepen the channel, at the outlet of the river, and operations were discontinued on the 6th July, 1891, during which time 7,670 cubic yards of sand were removed.

The channel dredged, during the previous years, has filled in considerably.

STE. ANNE DES MONTS.

Ste. Anne des Monts, Gaspé County, is on the south shore of the St. Lawrence, 108 miles east of Rimouski.

In November, 1890, a contract was entered into for the construction of an isolated

block of cribwork, 100 feet in length by 46 feet in width, measured on top.

On the 30th June, 1892, the work was practically completed, an estimate amounting to \$9,225.20 on a contract of \$9,294.00 having been given in favour of the contractor.

STE. ANNE DU SAGUENAY.

Ste. Anne du Saguenay is in the County of Chicoutimi, on the River Saguenay, opposite Chicoutimi.

A crib, 60 feet long 30 feet wide and 20 feet high, with a depth at low water at its outer end of 7½ feet, was built, 250 feet distant from the existing wharf.

ST. LAURENT.

St. Laurent is situated on the south shore of the Island of Orleans, 15 miles east of Quebec.

On the 24th August, 1891, during a heavy storm the pontoon was carried away and the wooden axle supporting the bridge was broken.

The wooden axle was replaced by an iron one 4 inches square, properly fitted into cast-iron boxes, and a platform of timber was built in the recess to support the pontoon and bridge at low water, the cost of these repairs amounting to \$186.60.

Spring tides rise 19 feet; neap tides 13 feet.

ST. MICHEL.

St. Michel is on the south shore of the St. Lawrence in the County of Bellechasse, 16 miles below Quebec.

The work performed at this place during the fiscal year 1891-92, consisted in tearing down and rebuilding 144 feet of the old wharf, shorewards from the end that was repaired last year. The average height of the new work is 7 feet with a width of 30 feet.

ST. ZOTIQUE.

This pier is situated on the north shore of Lake St. Francis, in the County of Soulanges, about $2\frac{1}{2}$ miles above Coteau Landing. It consists of a block or wharf proper 132 feet 4 inches in length, by 24 feet in width, and the approach which consists of 34 cribs vary from 8 to 12 feet in width placed at intervals of 20 feet. Its total length is 1,103 feet, and the approach 12 feet in width.

Some necessary repairs were made to the covering of the wharf, at a cost of

\$90.20.

TADOUSAC, OR ANSE À L'EAU.

Tadousac or Anse à l'Eau is at the mouth of the River Saguenay, on its southern bank.

The old wharf has been renewed over a breadth of 28 feet, and a depth of 31 feet, and the crib constructed the previous year has been extended to connect with the old wharf. Sheathing of red spruce, 6 inches in thickness, has been placed on a length of 60 feet of the wharf, and the old inclined landing has been completely renewed.

TROIS PISTOLES.

Trois Pistoles is in the County of Témiscouata, on the south shore of the St. Lawrence, 148 miles below Quebec.

Cribs have been sunk to close the two outer spans of the wharf in order to offer shelter to vessels, as the tide flowing through these open spaces made it difficult and dangerous.

PROVINCE OF ONTARIO.

AMHERSTBURG.

Amherstburg is a port of entry in the County of Essex, situated on the Detroit River, 5 miles above Lake Erie.

Dredging was done towards the end of the fiscal year by the Government dredge "Ontario," deepening the channel in front of the wharves, the quantity of material removed, consisting of clay and gravel, being 1,410 cubic yards.

BEAVERTON.

Beaverton is situated on the east shore of Lake Simcoe, in the electoral district of

the County of Ontario.

On the 10th May last, the sum of \$1,000 was authorized to be expended in placing brush and stone to protect the cribs from the scouring action of the water. Work was commenced at once, and the whole of the appropriation was expended by the 30th June, 1892.

A large quantity of stone and brush has been placed alongside each crib, and, in order to prevent as much as possible the current of the lake running to the south-west, from scouring around the cribs, a quantity of the stone and brush has been placed on the north side of the mouth of the river, forming a breakwater, over 200 cords of stone being used and the labour cost \$493.40.

BELLEVILLE.

Belleville, the chief town of the County of Hastings, is situated on the Bay of Quinté, and is by rail 57 miles west of Kingston.

The government dredge "Ontario" worked here about two weeks in September, 1891,

removing deposits of sand and clay from opposite the wharves.

The dredge "Queen" also commenced work here on 23rd May, removing decayed piers, and deepening the channel in front of the wharves, continuing the work till the end of fiscal year.

Quantity of clay, gravel and stones removed 7,676 cubic yards.

BURLINGTON CHANNEL.

Burlington Channel is a channel through Burlington Beach, connecting the water of Lake Ontario with Burlington Bay, which forms the harbour of Hamilton.

On the 26th June, 1891, orders were issued to obtain and place in position a "life line" along the front, or channel face, of the pier, and to provide two life buoys and place

same in position. This work was performed at a total cost of \$183.

Early in November last, the stage of the water was so low in the lake, that it was found impossible to float the scow, which is used as a ferry at this place. Temporary pontoons were constructed, at a cost of \$127, and served the purpose they were intended for until the water rose and the tops of some old piles being cut off, at the outer end of the "apron," allowed the scow to be used again.

CLAPPERTON CHANNEL.

Clapperton Channel is the main passage between Clapperton and Croker's Islands, Georgian Bay, through which vessels pass from ports on the Georgian Bay to Sault Ste. Marie and Lake Superior.

This channel is obstructed by dangerous points of rocks called "Robertson's Rocks" and in order to remove these and so give a safe, navigable channel, having a depth of 18 feet at low water, the department commenced the removal of these points of rock.

After the scows and plant had been repaired and put in order, work was commenced on the 1st June, and was still going on at the end of the fiscal year. The total expenditure up to the 30th June was \$2,370.95.

COBOURG.

Cobourg is a port of entry on Lake Ontario, and the chief town of the County of Northumberland. It is 69 miles by rail east of Toronto

The government dredge "Ontario" worked for a few days, on a bar, between the piers, removing 3,240 cubic yards of sand and clay.

COLLINGWOOD.

Collingwood is a town in Simcoe County, situated on the south shore of the Georgian Bay and distant by rail from Toronto 94 miles.

Shoals of considerable extent obstructed the channel, both inside and outside the harbour breakwater, to vessels drawing more than 10½ feet. Channels about 75 feet wide and 14 feet deep, were cut through these by the Government dredge "Challenge."

Quantity dredged, consisting of hard-pan, stones and clay, 5,970 cubic yards. This work was still in progress at the end of the fiscal year.

COLLINS' BAY.

Collins' Bay is a village in the County of Frontenac, situated on the Bay of Quinté. The dredge "Nipissing" worked 11 days, making a channel through a mud bar, removing 3,300 cubic yards.

FRENCHMAN'S BAY.

Frenchman's Bay, or Pickering Harbour, is on Lake Ontario, 21 miles west of Toronto.

On the 4th June the sum of \$1,200 was authorized to be expended upon dredging in the harbour. Active operations were commenced on the 11th instant, and the work was all completed by the 29th June instant, the dredge having worked 153 hours, during which time 12,425 cubic yards of material were removed.

GANANOQUE.

Gananoque is a port of entry on the north bank of the St. Lawrence River, in the County of Leeds, 18 miles east of Kingston.

The dredge "Nipissing" worked towards the close of navigation in 1891, removing some shoals from the front of the wharf.

Quantity of sand and boulders removed, 4,860 cubic yards.

Work was resumed in the spring on a bar at the entrance to the harbour, when 6,460 cubic yards of sand and sawdust were removed.

GODERICH.

Goderich is situated in the County of Huron, at the mouth of the Maitland River, about 68 miles north of Sarnia.

On the 9th October last, the sum of \$1,000 was authorized to be expended in repairs to the outer end of the northern pier; the work to be done by day's labour, which was at once commenced and the whole completed in March last, the appropriation being all expended.

An accumulation of sand and drift-wood at the entrance to the harbour, together with the low stage of water on the lakes, left Goderich Harbour with an available depth

at low water of only 8 feet.

Government elevator dredge No. 9 and plant was transferred from the ship channel between Montreal and Quebec to the Ontario dredging fleet, and arrived at Goderich 21st June, 1892. A commencement was made towards removing the shoal at the entrance to the harbour to a depth of 18 feet, and this work was in progress at the close of the fiscal year.

HAMILTON HARBOUR.

At last session of Parliament the sum of \$6,000 was voted for dredging in the harbour, in removing a shoal or bar at the western end of the same, in front of the wharves. In May last a contract was let to Mr. F. B. McNamee, of Montreal, to do

The contractor's dredge "Nish" commenced active operations on the 16th May, and up to the 30th June instant had removed 23,709 cubic yards of material, costing \$2,370.

KINCARDINE.

Kincardine is situated at the mouth of the Penetangore River, which empties into Lake Huron, 31 miles north of Goderich.

Owing to the extraordinary low stage of water in the lakes, this harbour has been almost useless during the greater part of last year. During the summer months vessels could not reach the usual landing, and had to unload at the outer end of the There being no mooring posts fit to make fast to on this structure at the western end, the town council requested the Government to provide some new ones, and on the 19th August last, orders were issued for three, which were placed in position and secured; the cost was \$21.62.

A dredge having been engaged by the department, it commenced work on the 24th May, and by the 30th June instant, has taken out two cuts, extending from the 14-foot line out in the lake through the channel, between the piers, into the inner harbour, across same to the salt works and lumber yards, thus giving the relief necessary.
[1892]

77

The dredge worked 328¼ hours, and removed 14,159 cubic yards (scow measurement) of material, the cost being \$2,626 for the dredging and \$96 for inspection. Total \$2,722.08.

KINGSTON.

Kingston is at the foot of Lake Ontario; 172 miles west of Montreal.

The work which has been going on at Point Frederick shoal, for several seasons, was continued during the past fiscal year.

In 1891, work was stopped for the season on the 7th November, and was resumed on the 28th May, 1892, the total number of yards of stone removed amounting to 2,751.

The plant received a thorough overhauling, the hoisting scow being redecked and otherwise strengthened.

The dredge "Nipissing" worked about three weeks deepening approaches to the wharves, removing 4,330 cubic yards of clay.

KINGSTON GRAVING DOCK.

During the fiscal year 1891-92 the dock, pumping plant, caisson, engine house, and chimney which were under contract were completed.

A travelling crane capable of lifting 3 tons was erected in the engine room. The department constructed and placed in position by day's labour 32 bilge blocks, with the necessary chains for hauling the same.

The first vessel which was placed in the dock was the steamer "St. Lawrence" of the Thousand Island Steamship Company. This vessel was docked on the 28th November, 1891, remaining in the dock until the 9th April, 1892.

From the opening of the dock, until the close of the fiscal year, 21 vessels of various descriptions were docked, the revenue derived therefrom amounting to \$2,105.70.

The dock is in thorough working order, the machinery and everything connected therewith being of the very best description.

KINGSVILLE.

Kingsville is in the electoral district of South Essex, on Lake Erie; it is also a station on the Detroit, Essex and Lake Erie Railway, and is distant about 25 miles from the nouth of the Detroit River.

At the last session of Parliament, the sum of \$1,500 was voted for repairs at this place, and on the 9th October last, authority was given to expend \$1,250 out of the sum voted for effecting most urgent repairs to the eastern pier. Work was at once commenced and the amount authorized, viz., \$1,250 was all expended for materials and labour by the end of December last. 35,727 feet board measure pine, 2,200 feet board measure oak, 320 feet board measure elm, and 11,188 lbs. iron being used in the work, and the labour cost \$445.12

LITTLE CURRENT.

Little Current is the passage between Cloche Island and Great Manitoulin Island, and is distant from Collingwood, by water, about 140 miles. This passage or channel is used by vessels which take the northern channel, bound for Sault Ste. Marie from Georgian Bay poats.

After the arrival of the plant from Parry Sound, work in the channel was resumed on the 19th October, and continued until the 7th of November, when the scows, &c.,

were hauled out and the plant placed in winter quarters.

The amount of rock removed between the above-named dates, was 440 cubic yards, at a cost of \$259.92.

In the spring the plant was thoroughly overhauled in readiness for the season's work.

MEAFORD.

Meaford is a town in the County of Grey, on the south shore of the Georgian Bay, · 115 miles north of Toronto.

The dredge "Challenge" worked here from the commencement of the fiscal year, until 21st August, making a channel 50 feet wide and 675 feet long, between the piers, to a depth of 15 feet.

Quantity dredged, consisting of hard-pan, gravel and clay, 12,750 cubic yards.

NATION RIVER.

Parliament voted at the session of 1891 the sum of \$4,000 for the purpose of aiding the united Counties of Stormont and Dundas in the large expenditure incurred by them in the drainage of the Nation River.

The work consisted in the removal of the Chesterville dam, and the deepening of the river at certain points, so that a channel of 50 feet in width, with an average depth of $2\frac{1}{2}$ feet, has been obtained, and valuable lands on both sides of the river will no longer be submerged during high water in the spring.

The work cost \$61,003.24, the Government of Ontario contributing \$7,000 and the Dominion Government \$12,500, including the \$4,000 voted at the session of

1891.

OAKVILLE.

Oakville is situated on Lake Ontario, in the County of Halton, 22 miles west of Toronto and 18 miles east of Hamilton.

A balance of \$546.99 being to the credit of Oakville, on the 17th May last instructions were issued to expend same upon dredging; this amount was increased to \$1,000, the difference between the amount being taken from the vote "Dredging, Ontario."

A dredge was engaged, and active operations were commenced on the 2nd June, and the appropriation had all been expended on the 17th. The contractor worked 120 hours, removing 5,190 cubic yards of material.

The municipal authorities paid for the inspection, and also kept the dredge at work

some days at their own expense.

Vessels can now call at this place.

OTTAWA RIVER.

During the fiscal year, Government dredge "Nipissing" worked making a channel 50 feet wide about 4,000 feet long and 10 feet deep at low water, through the shoal known as No. 5, about 9 miles below Ottawa.

Quantity removed, consisting of clay, sand and sawdust, 25,110 cubic yards.

Dredge "Queen" also worked several months on the same shoal, making one cut 25 feet wide about 5,000 feet long to a depth of 10 feet at low water.

Quantity removed, consisting of sand and sawdust, 23,402 cubic yards.

Dredge "St. Louis" also worked on shoal No. 5, for about two months, removing 6,150 cubic yards of sand.

OWEN SOUND.

Owen Sound, is a port of entry and is the chief town of the County of Grey. It is situated on a sheltered arm of the Georgian Bay, 122 miles distant from Toronto.

At the opening of navigation in 1892, owing to the very low stage of the water in the harbour to allow the large steamships to safely leave port, Messrs. Porter, Reid and Canan's largest dredge was engaged to remove four shoals and some obstructions near the wharf to a depth of $14\frac{1}{2}$ feet at low water.

Quantity of material removed from 23rd April to 31st May, consisting of soft clay, sand and gravel 18,422 cubic yards, at a cost of \$2,934.94 or 15.9 cents per yard.

PARRY SOUND NARROWS.

These narrows are situated respectively 7 and 2 miles south of Parry Sound, and form a portion of the channel called the North or Inner Channel of Georgian Bay, usually taken during rough weather and in the autumn by steam-boats plying between Midland, Penetanguishene and Parry Sound.

At low water both these channels are impracticable to boats drawing over 5 feet, and it often happens, when heavily laden, they are obliged to follow the outside channel are really as a few settler.

channel regardless of weather.

To obviate this necessity of taking the outside channel, the department during the fiscal year commenced the necessary work of improvement to give a depth of 8 feet at lowest stage of water in Lake Huron.

Work was commenced on the 1st June, 1891, and was in progress at the beginning

of the fiscal year.

The work at the Two Mile Narrows was extremely difficult. The shoal consisted of the hardest description of conglomerate granite, and owing to the fact that blasting had already been done here by the Ontario Government the surface or face of the rock was shattered and left in holes, and this made it very difficult to drill. After working for some time it was found that little progress could be made with hand drills, accordingly steam drills were procured, and put to work on 30th June, which greatly facilitated and pushed the work. The channel at this place is now 67 feet wide with an average depth of 8 feet.

On the 15th of August, the plant was removed to the Seven Mile Narrows. Operations commenced there and continued until the 13th of October, when the work

was completed.

The work at this place was similar to that of the Two Mile Narrows with a little more gravel, quicksand and hard-pan, and the bottom very irregular, and it was next to impossible to drill as the holes were constantly filling up with sand and gravel. The total quantity of rock removed from this place was 1,236 cubic yards. The channel now is 50 feet wide with an average depth of 7 feet 9 inches to 8 feet.

The total quantity of solid rock removed from both Narrows was 2,262 cubic yards, at a cost of \$3.25 per yard, and the total expenditure during the fiscal year was

\$5,748.59,

PICTON.

Picton is a port of entry and the chief town of Prince Edward County, situated on the Bay of Quinté.

Dredge "Nipissing" was at work at the close of the fiscal year dredging around the dock, having removed up to 30th June, 1,080 cubic yards of clay.

PORT CREDIT.

Port Credit is on the north-west shore of Lake Ontario, 14 miles west of Toronto, at the mouth of the Credit River, in the electoral district of Peel.

On the 8th June instant, the sum of \$1,500 was authorized for expenditure upon dredging in this harbour, and an agreement was made with Messrs. Manning & Macdonald, to do the necessary work.

Active operations were commenced on the 16th June, and up to the 30th instant, the contractors had worked 131 hours and removed 4,535 cubic yards of material.

The work was still in progress at the close of the year.

PORT ELGIN.

Port Elgin, in the electoral division of the southern portion of the County of Bruce, is on the eastern shore of Lake Huron, about 24 miles north of Kincardine.

At the last session of Parliament the sum of \$1,000 was voted for the purpose of completing the sheathing of the groin; and orders were issued on the 24th November last to do the work by day's labour.

The work was completed in March last and effectually prevents the silting in of the sand into the harbour, from the shore side. The whole of the appropriation, viz., \$1,000, was expended.

PORT HOPE.

Port Hope is a port of entry on Lake Ontario, in the County of Durham, 63 miles east of Toronto.

With the amount appropriated, general repairs were made to different portions of the superstructure of the harbour works.

The dredge "Ontario" worked here cleaning up some shoals in the harbour from 20th September to 30th November, 1891.

Quantity of sand, clay and gravel removed, 16,090 cubic yards.

PORT STANLEY.

Port Stanley is about 85 miles from the entrance to the Welland Canal, and 8 miles south of the city of St. Thomas. It is in the electoral district of Elgin, and the terminus of the Grand Trunk Railway from London.

At the last session of Parliament the sum of \$5,000 was voted for repairs to the piers or wharves at Port Stanley, and authority to expend the amount was issued on the 9th November last.

A careful examination was made in order to decide the best way of doing the work, and it was found that the sum voted being only sufficient to do the most urgent repairs, the work could not be specified or shown by a plan. Consequently, the only satisfactory way to do the repairs was by day's labour, and on the 11th November, orders were given to commence active operations at once.

Work was continued all winter and the appropriation expended by the 31st May last. Six hundred feet in length of the western pier at its northern end has been entirely rebuilt up from low water and replanked, giving every facility for vessels to load and unload at the warehouses. Eighty-four feet in length of the eastern pier at the shore end was also rebuilt from low water and replanked. The whole of the western and eastern piers were replanked, and new stringers placed in position where required, also guard timbers and walings.

RIVER KAMINISTIQUIA.

The River Kaministiquia empties into Thunder Bay, Lake Superior, to the west-ward of Port Arthur.

From this river, large quantities of wheat are shipped to the east, and to accommodate these a large amount of dredging has been done on the bar in the bay and in the river itself.

At the elevators, the river is narrow, and vessels could not turn without much difficulty, so to obviate this, a contract was entered into in April, 1892, for the formation of a turning basin at McKellar's Creek, and for dredging at other points where necessary, and at the close of the fiscal year the works were in progress.

RIVER THAMES.

This river empties into Lake St. Clair, and is navigable as far as the town of

Chatham, Kent County.

On the 21st April last, the sum of \$1,200 was authorized to be expended in dredging a channel through the bar, at the entrance of the river, into the lake, and an agreement was made with the Chatham Dredging Company to do the work for 18 cents per cubic yard, measured in the scow. Operations were commenced on the 14th May, and continued until the 18th June, when the contractors had removed 5,550 cubic yards for which they were paid \$999. The inspector's wages and expenses were \$132. Total expended, \$1,121.

Vessels can now run in and out of the river without any trouble.

Dredging at this place will be necessary, from time to time, until the shorter and more direct line into deep water, in the lake, is adopted and the channel protected.

RONDEAU.

Rondeau is situated on the north shore of Lake Erie, about 140 miles west of Port Colborne, the Lake Erie entrance to the Welland Canal; it is a harbour of refuge.

At the last session of Parliament the sum of \$3,500 was voted for repairs to the works, and on the 9th October last, authority was given to expend this sum in rebuilding the remaining portion of the old dilapidated superstructure of the eastern pier, over the outer 135 feet of the end, and also in effecting such slight repairs to the western pier as might be required.

Work was commenced as soon as possible, and good progress made until January, when the weather became too severe for work. In March, work was again commenced and completed, \$3,404.21 being expended by the 30th June, 1892.

Rondeau Harbour is at present useless for vessels of large size, either trading, or running in for shelter, as the mouth is blocked with a bar and the basin inside the harbour is very shallow, and small. The structures at this harbour are now in perfect repair.

SOUTHAMPTON.

Southampton is in the electoral district of North Bruce, and is situated at the mouth of the Saugeen River, which empties into Lake Huron, 143 miles above Sarnia. It is the terminus of the Wellington, Grey and Bruce division of the Grand Trunk Railway.

The harbour is formed by a breakwater, extending from the mainland out towards Chantry Island, a distance of some 2,000 feet, and a landing pier, some 600 feet to the southward of this breakwater, extending 960 feet out into the roadstead. The roadstead is formed by a breakwater extending from Chantry Island, towards the mainland. On the south side of these breakwaters, a refuge for shipping is formed.

At the last session of Parliament the sum of \$5,000 was voted to complete the extension of the Landing pier, 200 feet in length, commenced by Messrs. Nicholson & Bates in 1889, and taken from them in April, 1891. A contract was let to Mr. George E. Smith, of Southampton, on the 9th April last, to complete this work, and this he did by the 21st of June, 1892. The contract was let for \$5,700, Mr. Smith taking over the materials delivered by the late contractors and paid for by this department.

THORNBURY.

Thornbury is situated on the west side of the Georgian Bay, at the mouth of the Beaver River, in the County of Grey, 13 miles west of Collingwood. It is a station on the northern division of the Grand Trunk Railway.

On the 26th October last, an order was issued to expend the sum of \$600 out of the general vote—" Harbours and Rivers, Ontario"—to repair the approach to the landing pier, the work to be done by day's labour.

The work consisted in removing the wreck of 100 feet of old-pile protection-work, on the inside of the approach to the pier, and rebuilding same with new material and making up the embankment with gravel.

The work was completed in May last, and the sum of \$599.99 was expended.

A channel was made by the dredge "Challenge" through a bar of hard-pan and stones, at the entrance to the harbour, to a depth of 13 feet, the quantity removed being 9,840 cubic yards.

TORONTO.

The harbour of Toronto is formed by the Island and has its principal entrance at present from the westward. For purposes of navigation, dredging was continued during the year, to keep the eastern channel opened to a depth of 12 feet, 125,984 cubic yards of sand having been removed during the year.

For the protection of this channel, two rows of cribwork are being constructed, one on each side of the channel, and during the past fiscal year 26 cribs were sunk in place, namely: 9 on the east side and 17 others connecting the east pier with Fisherman's Island, making to the present time, 33 cribs sunk, besides which, there are 8 other cribs in different stages of construction. 1,900 lineal feet of superstructure was constructed and filled with stone.

A further quantity of heavy stone talus was placed in front of the island breakwater, making a total of 5,900 feet in length thus protected. 2,000 lineal feet of talus was also placed on the bay side of the breast-work, and a crib was sunk at its west end to form the commencement of a groyne to protect the shore as this point from erosion.

TRENTON.

Trenton is a port of entry on the Bay of Quinté, at the mouth of the River Trent,

101 miles by rail east of Toronto.

At the beginning of the fiscal year the dredge "Ontario" was at work dredging a channel between the town of Trenton and the Murray Canal. This channel was made 90 feet wide and 10 feet deep, and the dredging extended over a length of 1,350 feet, the quantity of clay, gravel, hard-pan and stones removed being 10,410 cubic yards.

The dredge "St. Louis" also worked here in conjunction with the "Ontario" and

removed 4,475 cubic yards of clay.

PROVINCE OF MANITOBA.

RED RIVER.

At a point 18 miles from Selkirk, the river is divided into three branches known as the east, centre and west. The west channel is the one adopted as the best in the interests of navigation, and it is at the mouth of this branch in Lake Winnipeg, that dredging operations have been going on during several seasons past.

The bar at the mouth of the west branch through which a channel has been dredged, is a little more than a mile in length. This year the work has been much delayed by the constant high water. The total number of cubic yards of material removed was

48,780.

WHITE MUD RIVER.

The mouth of the White Mud River is 9 miles west of Westbourne in the County of Marquette. Westbourne is on the Manitoba and North-western Railway and is the place of transhipment to and from Lake Winnipeg, and is 17 miles from the town of Portage la Prairie. During the past year the dredge "Priestman" continued the work of improving the channel, but owing to the machinery and the scows being much out of repairs, the quantity of work performed was not as large as it might otherwise have been, 40,973 cubic yards of material being removed.

This channel should be at least 100 feet wide throughout, with a depth of 6 feet at

low water.

NORTH-WEST TERRITORIES.

BATTLE RIVER BRIDGE.

This bridge which spans the Battle River at Battleford, was painted and repaired during the year at a cost of \$1,059.42.

BELLY RIVER BRIDGE, LETHBRIDGE.

Belly River bridge is situated in the north-west quarter of Section 1, Township 9, Range 22, west of the Fourth Principal Meridian, and about 2 miles from the town of Lethbridge.

The construction of the east and west approaches to the bridge, has been completed during the year ended 30th June, 1892, and communication established between the two

sides of the river.

BOW RIVER BRIDGE.

Slight repairs were made to the roadway of this bridge, which crosses the Bow River, at the town of Calgary.

OLD MAN'S RIVER BRIDGE.

This structure crosses the Old Man's River about $1\frac{3}{4}$ miles west of the town of Macleod, in the centre of the west half of Section 10, Township 9, Range 26, west of the 4th Initial Meridian.

In April, 1891, a contract was entered into for the construction of a bridge across the river, to consist of two spans of 150 feet each, one pier, two abutments and excavations and trestle work approach on the north side, and an embankment on the south side. The whole being completed by 31st December, 1891. Wind braces were also put in, the work being done under the direct charge of an officer of this department.

PROVINCE OF BRITISH COLUMBIA.

COLUMBIA RIVER ABOVE GOLDEN.

In consequence of the lateness of the season when authority was received to commence operations above Golden, but little beyond strengthening and repairing some of the dams, was done last fall.

Early this spring before the ice began to move in the river, men were employed getting out brush and stones, preparatory to building the proposed dams at Red Rock. However, as the ice moved, several of the existing dams below Red Rock showed signs of weakness, and demanded repair and in part rebuilding. This was done, as it would have been useless to improve the river at Red Rock if it was impossible to reach that point, owing to bars forming lower down, which would have happened, if the dams mentioned above, had not been attended to. In consequence of this, and a rapidly rising river, only about 1,200 feet of dams were built at Red Rock.

The general result of the work has been satisfactory; the steamer has been enabled thereby to run later in the fall and resume running in the spring at lower stages of the water than usual.

COLUMBIA RIVER BELOW KOOTENAY.

Between January and April last, work was carried on over that portion of the Columbia River lying between the head of the Kootenay Rapids and the International boundary line, a distance of about 30 miles. The winter time is the most favourable for carrying on river work, because, notwithstanding the low temperature and the depth of the snow, the river itself never freezes up, and consequently as the water falls sunken rocks are exposed and easily removed.

It being impossible to obtain labour in this locality in the winter, it was arranged that the men who had been employed on the upper portion of the river should immediately upon the first signs of the river closing there, which it does every winter, proceed by steamer "Dispatch" to Robson, and there await a favourable stage of water to commence work.

The works executed embraced: (1) the strengthening and repairing of the wing dams in the Kootenay Rapids; (2) the blasting and removal of 5 large rocks and the middle ground in the Tin Cup Rapids, $2\frac{1}{2}$ miles below the Kootenay Rapids; (3) the building of a wing dam at these latter rapids 145 feet long to increase the depth over the bars (4) the blasting and removal of 14 rocks, large and small, between the Tin Cup Rapids and Rock Island, the latter 7 miles above the boundary; (5) the removal of a point of rock on the left hand side, $50 \times 25 \times 6$, just above Rock Island, to relieve the high water flow and building a wing dam out from the same point with the excavated material to divert the low water flow into one channel, and (6) the removal of 7 sunken rocks just below Rock Island.

The expenditure amounted to \$6,522.67.

COLUMBIA RIVER BELOW REVELSTOKE.

Work was resumed between Revelstoke and the Arrow Lakes last October and continued until the cold weather set in. In the spring it was again proceeded with until the appropriation was exhausted.

During both periods operations embraced: (1) renewing the wing dam, and removing boulders by blasting, from the channel of the river at Six Mile Bar, below Revelstoke, and blowing up an old dam at the head of the bar; (2) removing, with 84

dynamite, snags from the channel and cutting overhanging trees between Revelstoke and the lakes; (3) erecting pile beacons of three piles each to mark the channel between the two lakes, and (4) removing boulders from the bed of the river abreast of the landing at Robson.

The expenditure amounted to \$5,995.51.

COURTNEY RIVER.

The Courtney River flows into Baynes Sound, on the east coast of Vancouver Island.

The construction of protection works on this river at its junction with the Trent (Isolume) was commenced in March last, and continued until the appropriation was exhausted.

The site of the work is at a point where the Trent River, a mountain stream, meets the Courtney almost at right angles, with the result that the current impinges

strongly against the bank of the latter, washing it away.

The method adopted to arrest the destructive action of the current may be briefly described as follows: a row of piles at about 8 feet centres was driven in the stream at a varying distance from the bank, but conforming generally to the bend of the river. Each pile was then firmly secured to the bank by a tie-piece bolted to the top of the pile, and to an anchor pile sunk in the ground, a secure distance back from the edge of the bank. To the inside of the piles were bolted, top and bottom, waling pieces 8 inches by 10 inches, and to the outside, 2 inch plank was spiked so that a smooth surface would be presented to the current, thus avoiding the stoppage of floating timber. The space between the piles and the bank was closely packed with brush and stone. In all about 276 lineal feet of this protection was built.

COWICHAN RIVER.

The Cowichan River empties into Cowichan Bay, which is situated on the east coast of Vancouver Island.

During the past year the sum of \$1,310.67 was expended in removing buried logs and roots and drift-timber from the channel of the river.

ESQUIMALT GRAVING DOCK.

In accordance with authority received, various pressing repairs were effected to the pump-wells and foundations of the large pump engines as follows: (1) the brickwork for about 18 inches in depth above the iron rims, to which are attached the barrels of the two large pumps, was cut out, having shown signs of weakness, and repaired with cut sandstone laid in Portland cement, mortar or compo; (2) the brick lining of the pump wells on which a part of the iron engine bed or frame rested was badly cracked and shaky, and was cut out down to the bottom of the holding-down bolts, a depth of 10 feet, and replaced with solid sandstone masonry, the bottom and top stones in both pump-wells being 10 feet long by 3 feet wide by 18 inches deep; (3) a large portion of the floor of the engine-house, which was badly cracked by settlement, was broken up and relaid with Portland cement concrete, and (4) about half of the wall of the engine-house facing the dock was pulled down and rebuilt on a solid foundation.

Upon completion of these repairs the engine bed frame was levelled and the engines lined up. It is now probable that no more settlement of foundation will occur. The

expenditure amounted to \$2,410.49.

In addition to these extraordinary repairs, many minor repairs have been from time to time effected, such as painting generally, rebedding and lining large centrifugal pump and engine, and boring out 16-inch steam cylinder and turning up engine shaft.

During the year, 18 vessels in all occupied the dock for various periods, the revenue

derived therefrom amounting to \$18,416.23.

FRASER RIVER.

During the past year, the sum of \$13,413.88 has been expended in continuing the work of improving the channel through the sand banks at the mouth of this river. The

[1892]

remaining portion of the appropriation of \$20,000, was devoted to protection works above Miller's Landing, 60 miles from the mouth.

The 40 mattresses sunk were 80 feet long each. Of these 10 were sunk on the north side extending the north jetty 800 feet, and 30 were sunk on the south side, extending the south jetty, 2,400 feet.

It is proposed this season to extend the jetties seawards simultaneously in parallel

straight lines, keeping the general direction of the south jetty.

MILLER'S LANDING.

In accordance with instruction, work was commenced last February upon the construction of a wing dam, on the south bank of the Fraser River, about 1½ miles above Miller's Landing, for the purpose of protecting the bank of the river, between the site of the works and Mr. Miller's house, which has been rapidly washing away for many years, resulting in the loss of many acres of valuable land.

The cost of this work, was to be defrayed out of \$5,000 deducted from the appro-

priation for the improvement of the channel at the mouth of the river.

As the work progressed it was apparent that unless the dam was at least 500 feet out from the bank to deep water, its stability was questionable, and that more harm than good would be accomplished. For these reasons, it was decided to build the dam that length before stopping work.

NICOL ROCK, NANAIMO HARBOUR.

The city of Nanaimo is situated on the coast of Vancouver Island, about 72 miles north of Victoria. It is the port from which the whole of the coal produced at present in the province is shipped, consequently a great number of ships of large tonnage visit the harbour.

On the 23rd June last, after continuous work extending over a period of 4½ years, Nicol Rock (Sandstone) lying dangerously close to the wharves of the New Vancouver Coal Company, was successfully removed to a depth of 16 feet at low water spring tides.

During the period of operations above mentioned, 6,101 lineal feet of holes were drilled, and then exploded with 7,160 pounds of highest grade giant powder. The amount of rock afterwards removed by dredging amounted to, calculated by average areas from cross sections, 3,014 cubic yards or 6,507 tons, allowing, by experiment, 2·16 tons to the cubic yard. During the progress of the work an account was kept by the foreman of the number of scows loaded, and the draft of each loaded and unloaded; from this the number of tons of rock dredged was calculated by the displacement of the scow, and was found to amount to 6,597 tons, only 90 tons in excess of the quantity calculated by cross sections. This points in a satisfactory manner to the care and attention displayed by the foreman in charge.

NICOMECKLE RIVER.

The Nicomeckle River is situated in the southern part of the district of New Westminster, and empties into Boundary Bay.

The sum of \$483.76 has been expended in clearing the channel of the river above the Clover Valley Road bridge, of snags, brush and overhanging trees.

SKEENA RIVER.

The Skeena River is situated in the northern part of British Columbia.

The sum of \$2,000 appropriated for the improvement of the navigation of this river, has been expended in removing various rocks which obstructed navigation in the Gitchilache Canon of this river.

SOMAS RIVER.

The Somas River empties into the Alberni Canal, which forms the upper portion of Barclay Sound on the west coast of Vancouver Island.

The amount available was expended during the past year, in removing snags from the navigable channel between the mouth and the Post Office at Saywards.

[1892]

86

VICTORIA HARBOUR.

Work was resumed in October last, in connection with the improvement of the Inner Harbour, Victoria, and consisted in lowering to a depth of 14 feet mean low water springs, two rocks known as Pinnacle and Beaver Rocks, at an expenditure of \$5,998.09.

During the season 839 lineal feet of holes were drilled, and exploded with 1,126 pounds of No. 1 giant powder, with the result, that, 229 cubic yards or 504 tons, allowing 2.2 tons to the cubic yard, were dredged and removed. Of this quantity 282 tons were disposed of to several persons at the rate of 50 cents per ton, and the proceeds amounting to \$141.00 were deposited to the credit of the Receiver-General of Canada at the Bank of British Columbia.

In accordance with instructions received, the offer of R. P. Rithet & Co. (Limited) to dredge with their dipper dredge "Mud Lark," the Outer Harbour abreast of the wharves of that Company, to a depth of 30 feet mean low water springs, at the rate of 20 cents per cubic yard of dredged material, was accepted. On the 7th March last operations were commenced, but after working for a little more than a month the Company found that the price they were getting was not sufficient to pay running expenses. They therefore concluded to cease work.

The amount expended was only \$1,152.53, which includes the wages of the

inspector.

SURVEYS AND EXAMINATIONS.

During the year surveys and examinations were made at the undermentioned localities: and with some exceptions, plans, reports and estimates have been submitted:—

iocantiles, and with s	onie exceptions,	Piarre, i	opor os ana estimates	nave occir saimir	ood
Bay View,	Queen's Co.	P.E.I.	Hiltz Narrows,	Lunenburg,	N.S.
Campbell's Cove,	King's,	do	Iona,	Victoria,	do
Higgin's Pier,	Prince.	do	La Have Islands,	Lunenburg,	do
Hurd's Point,	do	do	Little Harbour	do	do
	King's,	do	Mackay's Point,	Victoria,	do
McGie's Shore,	Prince,	do	Maitland,	Hants,	do
Newport, North Cardigar	King's,	do	Malignant Cove,	Antigonish,	do
Souris,	do	do	Meagher's Beach,	Halifax,	do
Souris east	\mathbf{do}	do	Merigomish,	Pictou,	do
South Rustico,	Queen's,	do	Mill Cove,	Lunenburg,	do
Stephen's Pier,	Montague, King's,	do	Morden,	King's,	do
Sturgeon,	King's,	do	New Haven,	Victoria,	do
Victoria, (Crapaud),	Queen's,	do	Parrsboro, Partridge Is	•	
West Cape,	Prince,	do	land River,	Cumberland,	do
Advocate Harbour,	Cumberland,	N.S.	Petite Rivière,	Lunenburg,	do
Apple River,	do	do	Pickett's Pier,	King's,	do
Aspy Bay,	Victoria,	do	Salmon River,	Digby,	do
Boularderie Island	do	do	Saw Pit Wharf,	Lunenburg,	do
Baddeck	do	do	Scotch Cove,	Victoria,	do
Bayfield,	Antigonish,	do	Soldier's Cove,	Richmond,	do
Bear River,	Digby,	do	Spencer's Island,	Cumberland,	do
Bear Trap,	Lunenburg,	do	Summerville,	Queen's,	do
Big Tracadie,	Antigonish,	do	Volger's Cove,	Lunenburg,	do
Blue Rock	ďo	do	West Arichat,	Richmond,	do
Canada Creek,	King's,	do	Western Head		do
Cape John,	Pictou,	do	Brown's Wharf,	Richibucto,	N.B.
Caribou Island	do	do	Buctouche,	Kent,	do
Chipman's Brook,	King's,	do	Campbellton,	Restigouche,	do
Digby,	Digby,	do	Cape Tormentine,	Westmoreland,	do
Dunn's Lake,		do	Clifton,	Gloucester,	do
False Bay Beach,	Cape Breton,	do	Emerson's Creek,	St. John,	do
Five Islands.	Colchester,	do	For Dufferin	do	do
Fox Island,	Halifax,	do	Grande Anse,	Westmoreland,	do
Georgeville,	Antigonish,	do	Grassy Island, St. John	n	
Halifax Quarantine Stn,	Halifax,	do	River,		do
Hall's Harbour,	King's,	do	Lower Caraquet,	Gloucester,	do
Herring Cove,	Halifax,	do	Mispec,	St. John,	do
5 /	•	[18	392]		87
		f -,	~~ ~ j		٦.

			a. <i>a.</i>		7.0
Partridge Island, St.	Ot T.I.	NT D	St. Zotique,	Soulanges,	. P.Q.
John Harbour,	St. John,	N.B.	Burlington Channel,	Wentworth,	Ont.
Pointe du Chene,	Westmoreland,	do	Colpoy's,	Bruce,	do
Rampasture Neck,	do	do	Dyer's Bay,	T do	do
Richibucto,	Kent,	do	Goderich,	Huron,	do
Tracadie,	Gloucester,	do	Hamilton, •	Wentworth,	do
Baie des Bacons,	Saguenay,	P.Q.	Lakeport	_	
Bic,	Rimouski,	do	L'Original,	Prescott,	· do
Cedars Rapids, Rive	r	_	Madawaska River		do
St. Lawrence		do	Maria Street Bridge,		
Côte Ste. Catherine		do	Ottawa		do
Father Point,	Rimouski,	do	Otonabee River		do
Grande Rivière,	Gaspé,	do	Ottawa River Narrow	8	
Grandes Bergeronnes,	Saguenay,	do	above Pembroke		do
Lacolle,	• • •	do	Owen Sound,	Grey,	do
Longueuil,	Chambly,	do	Port Albert,	Huron,	do
Quebec Customs Hous			do Arthur,	Algoma,	đo
Wharf,	Quebec,	do	do Rowan,	Norfolk,	do
River L'Assomption,	L'Assomption,	do	do Stanley	,	do
do Noire,	Charlevoix.	do	Portage du Fort Bridge	е	do
do Ouelle,	Kamouraska,	do		Glengarry.	do
do St. Lawrence,	,	do	River Sydenham		do
do St. Louis,	Beauharnois,	do	Southampton		do
Sandy Bay,	Rimouski,	do	Thessalon,	Algoma,	do
Ste. Anne de la Perade		do	Vermillion River		do
do des Monts,		do	Gimli,	Lake Winnipeg	Man.
St. Denis	ouguonay,	ao	Icelandic River	Lake Willimpeg	do
St. Felicien, River			Bow River Bridge		N.W.T.
Ashuapmouchonan,	Saguenay	do	Wascana Dam		do
St. Francis d'Orleans,	Montmorency,	do	Esquimalt Dock		B.C.
St. Jean des Chaillons,		uo	James Creek,		do
Riv. St. Lawrence,	1	do			do
St. Simeon,	Charlevoix,	do	Okanagan River Skeena River		do
St. Valentin	•	ao	skeena niver		ao
ot. Valentin	`				

DREDGING.

"THE ST. LAWRENCE."

At the close of the last fiscal year, this dredge was at Richibucto, a harbour in Kent County, New Brunswick, on the south-west shore of the Gulf of St. Lawrence north from Shediac Harbour, the eastern terminus of the Intercolonial Railway. The entrance of the Richibucto is nearly 350 fathoms wide, between two sand bars, several miles in length, called the north and south beaches, on which are high sand hills; vessels that can go over the bar can be taken 12 or 13 miles up the river, and smaller vessels go up nearly 20 miles. Ordinary spring tides rise 4 feet; neaps $2\frac{1}{2}$ feet.

The improvement of the Albion or middle channel, through this shifting bar, to permit vessels of a deeper draft over it, is the work of the "St. Lawrence" at Richi-

bucto.

The dredge remained working there when tides and weather permitted until 28th

October last, when orders were received for her removal to Halifax, N.S.

The dimensions of the work performed on the middle channel are as follows: whole length of cutting 145 fathoms; width of cutting, first length of 75 fathoms, 125 feet at entrance to 90 feet; width of second cut length of 70 fathoms 90 feet, decreasing to 65 feet; depth of first length 15 feet, second length 11 to 13 feet, bringing the work in to 9 feet at low tide.

The total quantity of material removed during the season at Richibucto was 20,388

cubic yards of fine sand.

On 30th October, the dredge sailed for Halifax, N.S., where she was placed on the marine slip and had her bottom scraped and painted. Leaving Halifax on 19th November, she arrived at St. John, N.B., on the 22nd, and was placed in winter quarters at York Point slip, and preparations made for the removal of the old boiler and placing of the new one, then building under contract by Mr. James Fleming, of the Phœnix works, St. John, and for other repairs necessary.

Owing to a flaw in the lower tumbler of the bucket-ladder, a new one was con-

structed and two spare flanges fitted ready for use.

The engines, condenser pumps and deck winches were taken down, repaired and placed in working order, and work on the new boiler was prosecuted by the contractor to completion. A new Stratton steam separator and tap was put in. On the 9th day of June last, a trial trip of the dredge was made, when everything was found to work to satisfaction, especially the new boiler and separator. The engineer of the dredge reports that on the trial, the boiler steamed easily and the engines made ten revolutions per minute more than with the old boiler.

On the 11th June, this dredge was ordered to Sherrows' Channel, Barrington, Shelburne County, N.S., to prepare further accommodation for vessels arriving and lying at the new pier. On the 12th it left St. John, N.B., arriving on the 14th at its destination. A tug was required and authorized to assist the dredge at this work owing

to the narrowness of the channel and shoalness of the place to be dredged.

The dimensions of the excavation made are: width of cutting, first length outside 65 feet, second, or middle length 62 feet, and third or inside length 50 feet, are to the depth of 14 feet. The length of cut made is 175 feet and the material removed was 4,375 cubic yards of mud. Work was completed 27th June and according to orders the dredge left for St. Peter's Canal, Richmond County, N.S.

The total quantity removed by this dredge during the year was 24,763 cubic yards of sand and mud, at an average cost of 55 cents per cubic yard including expenditure

for repairs, &c.

There was received from the steamer "Weymouth" and R. P. McGivern for coal at Weymouth the sum of \$98.57, which was placed to the credit of the Honourable the Receiver-General.

"CANADA."

The above dredge was on 1st July, 1891, operating at the entrance to Mabou Harbour, Inverness County, N. S. It continued work to the 2nd of August, when a further quantity of 8,100 cubic yards of gravel stone and sand was removed, extending the cut in the channel 600 feet by 85 feet, over which 4 feet were taken off. A cut at the Mabou Gypsum Co.'s new wharf, 100 feet by 60 feet was made over which 3 feet were taken off. Springs rise 4 feet and neaps 2 feet, and at low water the tide runs over 4 knots. Leaving Mabou, the dredge arrived at Cheticamp 3rd August, and commenced work in the channel at that place; 800 feet in length by 100 feet wide was dredged, from 1 to 6 feet being taken off by 24th September, and with the running in of slopes the quantity removed was 10,260 cubic yards of gravel, sand and boulders. Spring tides rise $3\frac{1}{2}$ feet and neaps 2 feet.

The dredge left for and arrived at Port Hood 24th September, where work was taken up at the public wharf, and a cut made 185 feet in length by 60 feet wide in front of the same, over which 3½ feet were taken off leaving, a depth of twelve feet at low

water, 1,553 cubic yards of sand having been removed.

The dredge left for Mabou 11th October, resuming work there until the 29th of the same month, making a cut in front of the breakwater 360 feet long by 100 feet wide, from which 1 to 6 feet were taken off, removing 1,980 cubic yards of gravel, stone and old timber. The dredge left Mabou at the above date, and arrived at Cheticamp the 1st of November, where it operated until the 7th of that month, making a cut 80 feet long by 65 feet wide, over which 5 feet were taken off, 720 cubic yards of sand and

gravel being removed.

Owing to stormy weather the dredge was detained at Cheticamp, and it only arrived at Pictou, N.S., on the 11th November, where, previously to going on the marine slip for the winter, work was resumed at the Pictou Market Wharf, and a cut 280 feet long by 60 feet wide was made, over which from 3 to 6 feet were taken off and 1,530 cubic yards of mud removed, the work closing on the 25th November, when the dredge was placed on the marine slip. The necessary repairs to dredge and machinery were made and completed by the 27th April; orders were received and the dredge worked for the Acadia Coal Company at their wharves near Pictou Landing, N.S., removing 1,260 cubic yards of mud and clay, giving an increased depth of water at the wharves.

West side of West Wharf, 100 feet long by 40 feet wide; east side of West Wharf, 250 feet long by 40 feet wide; west side of East Wharf, 100 feet long by 40 feet wide; east side of East Wharf, 50 feet long by 40 feet wide. For this work the sum of \$275 was received and placed to the credit of the Honourable the Receiver-General.

Orders having been received for this dredge to resume work at Mabou, it left Pictou 5th May, for that place, and arrived on the 7th, after a stormy passage. Work was under way by the 10th May, and consisted in the removal of shoals in the channel. The material excavated was gravel and sand amounting to 5,940 cubic yards, and on the 2nd June, work was closed and the dredge removed to Cheticamp, Inverness County, N.S.

On the 4th June, work was commenced at Cheticamp, N.S., continuing until 29th June, completing the channel to 14 feet depth, removing the further quantity of 7,110

cubic yards of sand and gravel.

The total quantity excavated by this dredge during the year was 38,453 cubic

yards at an average cost of 25.97 cents per yard.

At the close of the fiscal year this dredge was under orders for Bathurst but detained by unfavourable weather.

" NEW DOMINION."

On the first day of July, this dredge had finished work at Perry's Point, Kennebecasis River, King's Co., N.B., and was awaiting the arrival of a steamer to remove it to the Oromocto shoals, between Oromocto and Thatch Islands, Sunbury County, N.B., where it commenced work on the 6th July, from which time to the 11th August it worked on the lower end of the channel on the eastern side of the shoal, making a cut 850 feet in length 45 feet wide to the depth of 14 feet, 6 feet having been taken off.

It then commenced in the channel, at the lower end of Thatch Island on the 12th August, and made a cut towards the Oromocto channel 1,530 feet in length and 45

feet wide, 14 feet deep, taking 7 feet off.

The number of yards excavated up to the 5th day of November was 36,785 of sand and mud, when operations were suspended for the season and the dredge was towed to St. John for winter quarters and usual repairs. Orders were received for this dredge to proceed as early as navigation permitted to operate at Hampton, Kennebecasis River, N.B. On 12th May, it was towed there and resumed the work of deepening and improving the channel at the public wharf.

By the 30th June, 17,850 cubic yards of sand and mud were removed. The dimensions of the work done were one cut 800 feet in length, through a long flat in the channel, 45 feet wide, taking off 7 feet and leaving 10 feet at summer level. One cut 110 feet in length, 40 feet wide, to 10 feet low water, on which 7 feet were taken off,

was also made in front of the public wharf:

The quantity removed by this dredge during the year was 54,635 cubic yards, principally sand and mud, at an average cost of 16.99 cents per yard, wintering and repairs included.

"PRINCE EDWARD."

At the beginning of the fiscal year, the dredge "Prince Edward" was at Alberton, Prince Edward Island. The contract for the new crane being completed, the dredge left Alberton on the 10th of July and arrived at Summerside, Prince County, P.E.I., the following day. There was considerable delay before and after the work was commenced at the eastern side of the railway wharf, on account of unfavourable weather, also through the mail steamer "Northumberland" occupying the berth being dredged, from her arrival each day at 4 p.m., until 9 a.m., the following morning.

At the railway wharf a cut was dredged 310 feet in length, 150 feet wide and 15

feet deep at low water springs, 7,316 cubic yards of mud and sand being removed.

Off the north side of the middle ground in the channel between the railway wharf and Beacon light, a strip 1,340 feet in length, 65 feet wide, was removed to a depth of 15 feet, low water spring tides, 6,225 cubic yards of sand and mud being removed. Spring tides rise 7 feet and neaps 5 feet. The work was closed on 16th October and the dredge ordered to Montague.

The dredge left Summerside 28th October, having been detained by unfavourable weather and arrived at Charlottetown the same evening. On the 31st, owing to orders which were received, and in accordance therewith, the dredge was towed to Pownal Wharf and commenced work deepening around the wharf, widening the basin and making the entrance from the harbour easier of access for steamers. This work was completed by the 16th November, 3,243 cubic yards of sand and mud being removed.

On the 21st November, the dredge and plant were removed to Georgetown, King's County, P.E.I., and worked there from the 2nd to the 7th December, in front of the Prince Edward Island Railway wharf. The cut dredged was 254 feet in length, 67 feet wide, 16 feet at the inner end and 19½ feet deep at the outer end, at low water springs,

and the material removed was 1,002 cubic yards of sand.

At the last mentioned date, the dredge and plant were placed in winter quarters at this place. Necessary repairs were made to dredge, machinery and scows, and on the 9th of May, the dredge and plant were taken to Sturgeon Bay, King's County, P.E.I., about 6 miles south of Georgetown, where it operated until the end of the fiscal year, at which time a quantity of 13,596 cubic yards of mud, clay, stone and sand was excavated, the dimensions of the work being a cut from channel to wharf 720 feet in length, 103 feet wide; width of basin at end of wharf 169 feet; a berth at west side of wharf 100 feet in length, 55 feet wide, to 11 feet low water spring tides.

The total quantity removed by this dredge during the year was 31,382 cubic yards

of sand, mud and clay at an average cost of 40.75 cents per yard.

For 3 condemned anchor posts sold to the Prince Edward Island Railway the sum of \$20 was received, and placed to the credit of the Honourable the Receiver-General.

"GEORGE M'KENZIE."

On the 1st of July, the above-named dredge was engaged at Cheticamp, Inverness County, N.S., where it remained until the 28th July, when a further quantity of 6,970 cubic yards of sand, gravel, kelp, &c., were removed.

The channel had previously been dredged to a width of 60 feet and a depth of 12

feet, but it had filled up in places, leaving the depth but 7 feet.

The cut now made is 1,200 feet in length, widening the channel 40 feet and leaving

14 feet depth at low water springs.

From Cheticamp the "George McKenzie" went to St. Peter's, Richmond County, N.S., where it arrived the 5th August, to prepare a foundation for a new pier. The dimensions of the excavation were 200 feet long by 30 feet wide, depth 18 feet 6 inches at low water springs, and the material excavated of clay and stone 3,825 cubic

vards.

The work having been completed by the 28th August, the dredge was removed to D'Escousse, Richmond County, N.S., to operate on obstructive points in the channel opposite L'evisconte's Wharf. Dimensions of this work, 200 feet by 140 feet, leaving 12 feet at low water. On the Gland Shoal a cut was made 125 feet in length by 40 feet wide, leaving from 9 to 12 feet depth. The material removed at D'Escousse was 8,550 cubic yards of sand and mud up to the 11th October, when the weather became unfavourable and the dredge left for Pictou, arriving there on the 19th October, having been detained by bad weather. At East River, in the County of Pictou, N.S., work was commenced on the 23rd October and closed the 21st November, a cut having been made up the channel 1,150 feet in length by 50 feet wide to the depth of 9 feet at low water springs, over which from 2 to 5 feet were taken off, the quantity removed being 5,555 cubic yards of mud and shells.

At the last mentioned date, the weather proving unfit for further operations, work was closed and the dredge placed on the marine slip at Pictou, N.S., and the necessary

repairs were made during the winter and early spring.

This dredge resumed work at the New Glasgow Wharf on East River, Pictou, the 2nd day of May, and was prosecuting the work at the close of the fiscal year, at which date the following work had been done, viz.:—

A cut in front of public wharf 170 feet in length by 20 feet wide to 9 feet at low water; previous depth, dry at side of wharf at low water sloping off to 9 feet. A cut

92

across toward the old loading ground wharf 926 feet in length, with a width of about 50 feet to a depth of 9 feet at low water, and from the end of the public wharf, a dis-

tance of 800 feet by 50 feet, 9 feet deep down the channel.

The depth in the channel before being dredged ranged from 4 to 6 feet at low water. The quantity removed was 14,265 cubic yards of gravel, clay, sand, mud and old trees. This work is more than ordinarily expensive, owing to the great distance the material has to be removed for deposit, some 12 to 15 miles, and two tugs are required for the purpose, eight dump scows or lighters being used.

The total quantity of material removed by this dredge during the year was 39,165

cubic yards, scow measurement, at a cost of 38 cents per cubic yard.

For the work performed at St. Peter's Canal, Cape Breton, the sum of \$1,755 was received from the Department of Railways and Canals and placed to the credit of the Honourable the Receiver-General.

"CHALLENGE."

On the 2nd July, the dredge "Challenge" and plant resumed work at Meaford, Ont., deepening the channel between piers and in the basin, continuing work there up to 21st August, making two cuts 675 feet long to a depth of 15 feet, the average width being 50 feet, the materials removed consisting of 12,750 cubic yards of hard pan, clay and gravel.

On the 22nd August, the plant was towed to Thornbury, Ont., arriving there the same day, commencing work on 23rd and continuing up to 14th November, making a channel through a bar of hard-pan and stones at the entrance to the harbour, also to the proposed turning basin Three cuts 500 feet long, 75 feet wide and to a depth of 13 feet were made,

removing 9,840 cubic yards of hard pan gravel, clay and stone and sand.

On the 14th of November, the plant was towed to Collingwood, and the dredge was placed in dry-dock to receive such repairs and over-hauling as was necessary to enable it to resume work again in the spring, and on the 14th May, 1892, the dredge started to work at Collingwood on bars both inside and outside of the breakwater, and continued to do so up to the end of the fiscal year, leaving a depth of 14 feet of water, removing 5,970 cubic yards of hard pan and clay.

"NIPISSING."

On the 1st July, 1891, the dredge "Nipissing" was working on a clay and sand shoal below Jones Island, Lake of Two Mountains, continuing to work there until 30th July, making a cut 500 feet long, 40 feet wide, and to an average depth of 10 feet at low water, removing 8,340 cubic yards of clay and ordinary sand.

On the 1st August, 1891, the plant was taken to Como and was engaged in clearing away a portion of the wreck of steamer "Dagmar," at Como Wharf, which work was ended on the 3rd August, after which the dredge and plant was taken to the Ottawa River, on shoal No. 5, to work on a sand bar 9 miles below Ottawa, commencing on 8th August, remaining there up to the 30th October, making two cuts of about 4,000 feet long, 50 feet wide and 10 feet deep, at low water.

The materials removed consisted of 25,110 cubic yards of sand and clay.

On the 1st November, 1891, the plant was taken to Gananoque, arriving there on the 8th, commencing work in the harbour on the 9th, and continuing till the close of navigation, dredging in front of wharves, removing 4,860 cubic yards of sand and boulders. I

Much difficulty was experienced here on account of sunken and decayed timber necessitating delay in order to allow of the mechanical appliances being cleaned and The plant was laid up at Gananoque for the winter on the 2nd December.

After getting a thorough overhaul and outfit in the spring, the dredge resumed work at Gananoque on 22nd April, 1892, continuing up to the 16th May, on a bar at entrance to harbour, composed of sand and sawdust, removing 6,460 cubic yards.

On the 17th May, the plant was taken to Kingston, arriving there same day, starting to work in the harbour on the 18th, opposite the wharves, deepening the approaches thereto, and continued to work up to 11th June, removing 4,530 cubic yards of mud. [1892]

On the 12th June, the dredge was taken to Collins Bay, arriving on the 13th, commencing work same day, until the 25th on a mud bar, removing 3,300 cubic yards of mud.

The plant was then taken to Picton, Ont., leaving Collins' Bay on 27th and arriving at Picton on 28th, commencing work around the docks on same day, continuing up to end of fiscal year, removing 1,080 cubic yards of mud.

"ONTARIO."

At the beginning of the fiscal year, 1st July, 1891, the dredge "Ontario" was working at Trenton, Ont., on a shoal between the town of Trenton and the Murray Canal, continuing to work there up to the 5th September, 1891, making three cuts of 1,350 feet long and 90 feet wide, to a depth of 10 feet, removing 10,410 cubic yards of mud, boulders, hard pan and gravel.

On the 6th September, the plant was taken to Belleville, and continued to work there up to the 18th September, working opposite wharves cleaning out deposits,

removing 1,800 cubic yards of mud and sand.

On the 19th September, the plant was taken to Port Hope, Ont., arriving there same day, and started to work on 20th cleaning out the harbour, working up to the 30th

November, removing 16,090 cubic yards of sand, mud and gravel.

On the 2nd December, the plant was laid up for the winter at Port Hope. After receiving the usual spring overhaul and repairs, it resumed work at Port Hope commencing on the 28th of April and continuing up to the 30th May, 1892, deepening the entrance at old harbour to a depth of 10 feet, removing 9,840 cubic yards of mud and sand.

On the 31st May, the plant was taken to Cobourg, Ont., and started to work there same day, until the 8th June, working on a bar between the piers, removing 3,240 cubic yards of mud and sand.

On the 9th June, the plant was towed to Amherstburg, Ont., arriving there on 18th, beginning work on 22nd, and continuing up to the end of fiscal year, deepening the channel in front of wharves, removing 1,410 cubic yards of gravel and clay.

"OUEEN."

On the 1st July, the dredge "Queen" resumed work in the Yamaska River, Que., above the lock, continuing to work there until the 12th, making one cut 625 feet long 20 feet wide, to a depth of 7 feet at low water, removing 3,181 cubic yards of clay and sand.

On the 13th July, the plant was taken to the Ottawa River, 9 miles below Ottawa, and started to work on a shoal called No. 5, consisting of sand and sawdust, continuing to work up to close of navigation 12th November, 1892, making a cut 5,000 feet long, 25 feet wide to a depth of 10 feet at low water.

The material removed consisting of 23,402 cubic yards of sand and sawdust.

The plant was then laid up for the winter at Ottawa, on 14th November.

On the 15th of May, the dredge and plant was taken to Belleville, arriving there on the 22nd, commencing work on the 23rd, and continuing up to the end of the fiscal year, working opposite the wharves in the harbour removing decayed piers, &c., and deepening channel in front of same, the materials removed consisted of 7,676 cubic yards of clay and stone, clay, gravel and boulders.

"ST. LOUIS."

On the 1st July, 1891, the dredge "St. Louis" was working at Trenton, Ont., in conjunction with the dredge "Ontario" and plant, on a shoal between the town of Trenton and the Murray Canal, making a channel through a bar, continuing to work up to the 22nd August, removing 4,475 cubic yards of mud.

On the 22nd August, the plant was taken to the Ottawa River, arriving there on 31st, commenced to dig on the 8th September on a shoal called No. 5, some 9 miles below the city of Ottawa, and continued work there until the 2nd November, 1891, removing 6,150 cubic yards of sand.

On the 2nd November, the dredge was taken to Baie la Vallier and proceeded to dredge a channel between the Yamaska River and Pot a Barre River until the 20th November, the material removed consisted of 1,755 cubic yards of clay.

The plant was taken to Sorel on the 21st November to winter.

In the spring of 1892, after receiving the usual overhaul and outfit, the dredge left Sorel for Quebec, arriving there on the 8th May, 1892, started to work in the Queen's Wharf Basin, continuing up to the 27th, removing 890 cubic yards of clay, hard-pan and gravel.

On the 27th of May, the dredge and plant left Quebec for Baie la Valliéré, arriving there on 29th, working up to the 26th June, making a channel through a marsh, one cut 300 feet long, 20 feet wide to a depth of 6 feet, throwing over the material dredged.

On the 26th of June, the plant was taken to Longueuil, arriving there on the 27th, beginning work on a shoal of hard-pan in front of the Government Pier on 29th, and continued to do so until close of fiscal year, removing 45 cubic yards of hard-pan.

"THE WINNIPEG."

During the past fiscal year this dredge operated in the west channel at the mouth of the Red River in Lake Winnipeg, and the work was very satisfactory throughout the first part of the fiscal year, but owing to constant high wind, the dredging of the channel out to the lake was much delayed, and the out-put in consequence, was not as large as could be desired.

A considerable expenditure was made necessary by the purchase of extra anchor timber, also repairs to dipper, and the purchase of a new dipper was found necessary in order that the work might not be delayed and the plant is now in a good state of repair. The total amount of material removed by this dredge was 48,780 cubic yards, and the cost to remove the same was 28 cents per cubic yard.

"PRIESTMAN."

During the past fiscal year, this dredge continued work in the channel of the White Mud River, but being much out of repairs and leaking badly it required a thorough overhauling, which was not completed until 12th August, 1891.

These repairs consisted in recaulking the bottom and some of the side seams of the dredge, putting on new deck, and placing hog bars in the dredge, which has strengthened it very much. The tug and scows were also repaired, but the scows attached to this dredge will have to be almost entirely rebuilt to make them available for another season's work, and the machinery of the dredge is also in a very bad state of repairs, the amount of work that could be accomplished even under the more favourable circumstances being most unsatisfactory. The quantity of material removed during the year, was 4,973 cubic yards, at a cost of 95 cents per cubic yard.

DREDGE "PACIFIC."

The dredge "Pacific" and plant have been employed since the 1st of October last in dredging the southern portion of the Inner Harbour Victoria, adjacent to James Bay. The object in view is to increase as much as possible the capacity of the Inner Harbour, by dredging close up to low water mark, as indicated by zero on the tide gauge, to obtain a depth of 17 feet at mean low water springs, thereby obviating the necessity of building wharves far out into the water, which, if permitted, would very much curtail the harbour room.

Up to the 30th June last, 33,390 cubic yards of mud and stiff clay, with boulders intermixed, had been dredged at a total cost of, inclusive of repairs, \$11,642.50, the cost per cubic yard is therefore 34 cents, this may be considered a very fair seasons work.

The repairs embraced, renewal of straps, links, buckets, and new tumbler and grate bars, repairs to the various running parts of the plant and vessels, painting throughout, caulking, renewing ropes and chains, and making generally minor repairs when necessity arcse.

All the vessels are at present in an efficient condition.

SNAG-BOAT "SAMSON."

When not employed with works connected with the improvement of the Fraser River, the snag-boat "Samson" was employed in removing snags from the channel of the river and in attending to the buoys marking the channel at its mouth for the Department of Marine.

In all 203 large snags were lifted, cut up, and placed where they would no further

endanger the safety of steam-boats.

The expenditure, exclusive of the share borne by the Department of Marine, but

inclusive of repairs, amounts to \$5,963.87.

The repairs effected, include painting throughout, various renewals to engine and wheel, extensive repairs to boiler, repairs to anchor and many other minor but necessary repairs to the boat generally. In addition new rope, &c., was supplied.

DREDGING PLANT.

The dredging plant belonging to the Department, is as follows:—

In the Maritime Provinces.

The steam hopper dredge "St. Lawrence."

do "Canada."

The dipper dredge "New Dominion," and 8 scows.

"Prince Edward," 5 scows and 1 water scow. do

"Geo. McKenzie," and 5 scows.

One stone scow, boiler, engine and grips.

In Quebec and Ontario.

The dipper dredge "Queen," 2 scows and tug "Ottawa."

"Nipissing" 2 scows and tug "St. Paul."

"St. Louis" 2 scows living scow and tug "Sensation." do

The sand dredge "Octopus."

Stone lifters, Nos. 1 and 2.

The elevator dredge No. 9, 3 scows and tug "Delisle."

The dipper dredge "Challenge," 2 scows and tug "Trudeau."
do "Ontario" 2 scows and tug "Sir John."

In Manitoba.

Dredge "Winnipeg," tug "Sir Hector," and 2 scows and 1 coal barge.

Dredge "Priestman," tug "Victoria," and 2 scows.

In British Columbia.

The elevator dredge "Pacific," scows and tug "Princess." The snag-boat "Samson."

Ship Channel, River St. Lawrence.

Four elevator dredges, tugs "John Pratt," "St. James," "St. Francis," "C. J. Brydges," "Minnie Parsons," 3 stone lifters, 2 coal barges, 1 store ship, 12 dump scows of 80 yards capacity, 2 scows of 150 yards capacity, 1 sounding scow and 2 flat scows.

CLASSIFICATION of Disbursements of the Dredge "St. Lawrence," during the Year ending 30th June, 1892.

Grand Total.	s cts.					367 50 246 00 112 31	12,792 65	8,810 44 46 07	3,936 14	12,792 65
June.	es cts.					8 8 8 8 8 8 8 8	3,411 30	1,920 05 Nil	1,491 25	3,411 30
.VsM	s cts.	439 22	168 99	40 00	191 90	10 20	850 31	1 64 Nil	848 67	850 31
JingA	es cts.	408 33	105 99		46 46	98	626 14	579 68 Nil	46 46	626 14
Матећ.	cts.	408 33	97 42		173 68	7 05	87 989	i N i N	686 48	686 48
February.	ets.	431 34	93 73	: :			525 07	525 07 Nil	Nii	525 07
January.	cts.	408 33		13 65	1 35		603 54	602 19	Nii	603 54
December.	es cts.		322				618 18	618 18 Nil	Nil	618 18
Хочетрег.	ets.	506 78	4 69	3 15	878 33 118 30	69 2	1,518 77	640 44 15 05	863 28	1,518 77
Осторет.	ets.	, 508 33 966 97		34.50		45 00	1,218 14	1,218 14 Nil	Nil	1,218 14
September.	ots.	506 01	177 71	02 6		4 72	762 94	762 94 Nil	Nil	762 94
August.	e cts.	-	130 66		65 00	37 44	1,210 35	1,210 35 Nil	Nil	1,210 35
July.	e cts.	508 33 18 50	888	23 70	29 67	388	761 43	781 76 29 67	Nil	761 43
Items.		Wages	Provisions Stores	Equipment.	Repairs. Pilotage.	Wharfage.	Totals	Working expenses Repairs, ordinary	wintering	Totals

CLASSIFICATION of Disbursements of the Dredge "Canada," during the Year ending 30th June, 1892.

Grand Total.	** cts.	4,369 41 783 35 951 77	744	1,411 10 410 00	429 28 57 93	9,304 74	7 113 08 31 09	2,160 57	9,304 74
June.	ee cts	415 33 198 50 101 81	21 00	105 52 57 50	7 65	907 31	801 79 5 38	100 14	907 31
.veM	e cts.	415 33 176 52 173 59		946 68		1,764 62	817 94 Nil	946 68	1,764 62
.lingA	s cts.	404 27 60 61 15		21 40	409 28 15 31	1,698 63	1,267 95 Nil	430 68	1,698 63
March.	e cts.	290 33		178 79		550 07	ZZ	220 02	550 07
February.	♣ cts.	250 33				325 18	325 18 Nil	. N	325 18
.Vannary.	se cts.	221 66				332 90	332 90 Nil	Nii	332 90
Decemper .	ets.	315 26 72 00				387.26	387 26 Nil	EZ.	387 26
Лочетрег.	sto sta	415 33 41 40 99 15		133 00 40 00	15 06	772 64	639 64 Nil	133 00	772 64
October.	es cts.	415 33		00 09		605 42	605 42 Nil	Nii	605 42
September.	ets.	363 22		25 00		425 32	425 32 Nil	Nii	425 32
August.	ets.	409 36 267 33 60 51		00 09	20 00 9 70	826 90	826 90 Nil	Z.	826 90
July.	♣ cts.	113 01	77 15	25 71 67 50	10 21	708 49	682 78 25 71	N:i	708 49
Items		Wages Coal Provisions	Stores Equipment	Water Repairs. Pilotage	Wharfage Contingencies.	[186]	Working expense Repairs, ordinary	vintering	Totals

2,294 75 50 00 13 40 4,403 24 365 41 466 24 88 87 1,805 59 8,647 87 1,036 8,647 6,731 1101,018 50 Nil 88 397 14 1,415 64 cts883 1,415 64 22 50 c CLASSIFICATION of Disbursements of the Dredge "New Dominion," during the Year ending 30th June, 1892. .ount. 86 : 33 B 33 15 :8 æ 668 <u>3</u> 2 1,7571,757 May. 63 74 8 € 306 JirqA. 691 818 8 991 . 98 202 202 March. cts **%** 8 178 158 150 Z 178 178 February. 155 00 cts 24 3 65 179 (Nil Z 179 179 January. ಜ 3 164 Nil 86 8 Ē 22 164 December. 3 316 69 364 69 Nil :8 8 6969 364 November. 83 8 35 28 668 8 90 October. 82 នន :ജ 8 588 13 Z £ 7 890 September. 668 347 51 cts :8 2 25 18 23 28 Ē August. ₹8 895 871 24 895 962 52 27 22 989 74 83 74 :8 ւչնու Repairs, ordinary ...
D. V. repairs and wintering Repairs..... Contingencies. . . . Equipment.... Provisions . . . Stores Items. Pilotage [1892]

88 11,911 19 cts. 449 :884488 11,911 19 88 Grand Total. 4,349 373 853 107 676 368 17 302 909 21 21 5,525 66 ,280 56 Nil 91 :8 1,345 16 cts 88 88 3 1,345 8 86.98 36.98 3 % 64 ·aun (88 3 8888 4 7 8 5 1,371 . Nil 248 1,620 1,620May. 121 **多数品**證 8 8 cts 8 [55 N:1 Ë 55 32 55 .lrrqA cts. ಜ ಜ 32 8 ZZ 157 157 157 157 March. 40 8 8 20 28 2 cts Ξ . 6 152 58 158 February. 62 88 88 3 cts 8 2 Ë 52 64 2 83 200 8 January. 2,030 00 2,375 66 Nil cts. 8 8 8 99 Z 2,375 2,375 33 8 December. cts. 윉 :88 8 8 553 Nil Ē 7.3 553 553 November. 191 **6€** 45 :84 94 cts 5 87 3 Z 197 83 11 34 651 October. 669 35 :8 48 3 1,192 90 Nil 2542 cts 3 . 03 134 **&** ₹ 1,327 1,327 Septembre. 1,348 58 Nil 343 80 23 :83 88 :8 8 æ cts 1,692 :33 1,692 \$\$ **4 £** .tangu A cts. æ æ 74 2828 8 88 \bar{z} 1,612 1,587 25 1,612 88 848 × July. Working expenses... Repairs, ordinary.... D. V. repairs and Wharfage Stores Equipment..... Repairs..... wintering ... Items. Pilotage.... Totals. Totals rovisions [1892]

99

CLASSIFICATION of Disbursements of the Dredge "Prince Edward," during the Year ending 30th June, 1892.

CLASSIFICATION of Disbursements of the Dredge "Geo. McKenzie," during the Year ending 30th June, 1892.

Grand Total.	♣ cts.	5,253 42 236 28	6 15 80 45	278 73 1,337 81	6,514 90 255 72		10,360 43	11,534 84 15 85	2,382 80	13,933 49
June.	♣ cts.	609 90 46 94 40		12 32 357 34	1,300 00	02 006 0	2,506; 02	2,012 18 Nil	354 34	2,369 52
May.	♣ cts.	593 13		206 12	1,175 00		1,37 ± 20	1,768 13 Nil	206 12	1,974 25
.lirqA	ects.	268 21		133 02	255 72	0 020	000	214 21 Nil	442 74	656 95
March.	es cts.	210 25		13 69			# 	ZZ	223 94	223 94
February.	s cts.	152 50					00 201	152 50 Nil	Nil	152 50
January.	ee cts.	157 63	× × × × × × × × × × × × × × × × × × ×				1 8	196 11 Nil	Nil	196 11
Бесетрет.	ects.	181 97		15 00	1,154 25	• !	1,301 22	1,351 22 Nil	Nil	1,351 22
Иочетрет.	s cts.	1,079 97 12 90		28.8 25.2 25.2	703 65	: 9	2,266 31	1,291 40 Nil	974 91	2,266 31
Осторет.	e cts.	513 55 26 18		11 50			23 100	551 23 Nil	Nil	551 23
September.	e cts.	494 50 72 60	1 39	86 90 177 75	650 00		1,483 10	1,305 35 Nil	177 75	1,483 10
Augua	ee cts.	494 50 34 20	: :	71 76 15 85	830 00		1,446 31	1,430 46 15 85	Nii	1,446 31
July.	e cts.	497_75	4 80	57 50	702 00		1,262 05	1,262 05 Nil	Nil	1,262 05
Items.		Wages	Provisions	Water Repairs	Filotage Towage Wharfage.	Contingencies	92]	Working expenses Repairs, ordinary	U. V. repairs and wintering	Totals.

100

cts. :8 53 487 3 88884838 Grand Total. 3,480 2,001 112 816 100 138 1,386 219 8,276 8,276 120 6,890 338 1,047 **G** 5 88888 5 · \$25 38 cts :8 oun c 88180 771 771 ន្តន្ត Œ CLASSIFICATION of Disbursements of the Dredge "Nipissing," during the Year ended 30th June, 1892. cts ន : 83 53 283 **£**3 82 :29 May. 922 ₹°°8 34 **H 8888888888888** 2 33 2 828 #38 c 4 2 8 E 749 April. 749 5258 cts 164 11 .38 17 क्ष : 38 17 .83 93 13 March. 271 27.1 177 cts 17 :5: 8 8 :5 February. 202 **8** 8 8 262 cts. :38 9 8 9 22 :38 27 193 January. Ê 284 6 S 88 cts ₽. æ : 33 \tilde{x} 248 87 998 £ Десептрет. 362 828 362 cts. :83 :#£ S 32 32 35.53 8 52 1,105 £ 88 100 213 1,105 1,004 6,88 **Мочетрег.** 8 cts. 88 :8: क्ष 33: 33 854 33 5. 1,015 1,015 88 :≊-**₹88** October. 67 **9**€ .3 8 888 :38 **\$** 1223 3 됐 48 83 ₹ \$ gebtemper. 83 œ cts. 28888 :83 74 3 . 4 74 £2.48r Jangust. 222 548 8 577 cts. 222223 5 384 22 3: 888888 1,436 20 29 1,5361,536July. . ස Working expenses ... s, ordinary extraordinary Contingencies. Provisions Items. Totals... Repairs. ... Equipment.

CLASSIFICATION of Disbursements of the Dredge "St. Louis," during the Year ended 30th June, 1892.

Grand Total.	cts. Se cts.	61 2,650 61 33 471 96	23 623	20 44	00 75 25 158	42 5,393 36	42 4,037 43 81 67 1,274 26	42 5,393 36
1 nme	96		88	::	75	258	258	5 558
May.	e cts	253 94	20 00	11 44 25	9.72	326 35	345 10 11 25	356 35
April.	e cts.	49 83	12 00			61 83	61 83	61 83
Матећ.	s cts.	59 27		212 38		271 65	59 27	271 65
February.	e cts.	59 26		212 38		271 64	59 26	271 64
January.	s cts.	59.27		212 38		271 65	59 27	271 65
Бесешрег.	s cts.	59 26		212 38		271 64	59 26 212 38	271 64
November,	s cts.	360 67 168 15		9 00 216 27	4 65	851 15	634 88 3 90 212 37	851 15
October,	S cts.	567 00	92 75	212 37	2 25	874 37	662 00	874 37
September.	e cts.	303 50	93.85	19 88	1 90	419 13	399 25	419 13
August.	e cts.	283 50 128 23	96 02			536 04	520 94 15 10	536 04
July.	S cts.	283 50 122 25	91.35	ੇ ਜ਼	102 25	649 49	617 95 31 54	649 49
Items.		Wages	Wood. Provisions	Equipment Repairs.	Filotage	Totals	Working expenses Repairs, ordinary do extraordinary	Totals

£22

8

.99 48

Grand Total. . මී සි පු ණී ප 5,985 5,985 5,000 423 561 æ :8488 78 43 8% 122 43 8~24 82.53 ցառ բ 920 32433 ଛ CLASSIFICATION of Disbursoments of the Dredge "Queen," during the Year ended 30th June, 1892. 83 \$:33 5 6 344 6 93 May. 75 547 117 28 :5.8 594 594 6 : 🅰 8 Ξ 22 22 22 = 159 April. 12 88.8g : œ 23 4 7. 8 . 49 53 .23 136 :3 **13**6 March. Z 66 Ġ. 8 3 35 888 83 :8 February. 50 155 2823 55 cts. 64 38 ့်ဆ္တ 3 8 2 8 33 3 63 33 63 January. ċ. . 88 :8 3 888 3 8 6 က 5 ° 3 Decemper. 23 132 132 8 . જ્ર \$:86 cts ಜ 33 \$ 33 3 389 324 :3 November, cts. 88 33 5148 8 8 :8 .8 59 £∾ :99 8 ₹23 8 October. cts 316 06 888 \$:13 51 181 51 4 S :6 · 6 September. ន្តន្តន្ត 487 <u>8</u>2 95 33: # \$ Ľ 882 cts 22 8 298 rısın&n y 8 888 53 នន 48 8ಜ 60cts ·**3** 882 55 1,272 1,272 **35** 25 1,217 25 29 38.28 はい July 21 88 68 126 Working expenses.... Ao extraordinar Repairs.....Pilotage..... Contingencies. Equipment Items. Provisions ... Stores

88888888

103

	Grand Total.	s cts.		696 78 105 95 139 16		107 63	8,091 13	6,268 33 584 03 1,238 77	8,091 13
	June.	s cts.	358 50 309 95 275		133 94	33 26	938 40	804 46 104 80 29 14	938 40
une, 189	May.	s cts.	411 00 223 00	102 75 6 41	244 02	17 27	1,004 45	760 43 66 70 177 32	1,004 45
ed 30th J	April.	ets.	379 34 100 75	51 54 139 16			883 84	670 79 183 91 29 14	883 24
Zear ende	March.	e cts.	89 27		177 33		996	89 27	266 60
ing the 1	February.	e cts.	89 26		177 32	14 55	281 13	103 81	281 13
rion of Disbursements of the Dredge "Ontario," during the Year ended 30th June, 1892.	.Vanuary.	ets.	89 27		177 32		266 59	89 27	266 59
ge "Onta	Беселирет.	& cts.	98 :		177 32		266 58	89 26	266 58
the Dred	Zovember.	♣ cts	400 03 160 51	106 45 2 88	191 62	2 91	864 40	672 78 14 30 177 32	864 40
ments of	October.	s cts.	620 00 227 36	100 000	48 24	7 26	1,012 76	964 52 19 10 29 14	1,012 76
Disburse	September.	e cts.	338 00 147 07	100 00	163 77	7 93	756 77	593 00 134 63 29 14	756 77
	August.	e cts.	311 52 321 95	138.5 138.5 188.5	45 84	5 65	22 96 2	750 92 16 70 29 14	92 962
CLASSIFICAT	July.	e cts.	301 00 247 52	92 58 19 92	73 03	98.	752 85	679 82 43 89 29 14	752 85
104	Items.		Wages Coal	Provisions Stores	Repairs.	Towage.	Lotals 392]	Working expenses Repairs, ordinary do extraordinary	Totals
* 0 T						Lic	[ئەدەر		

,945 02 59 cts. 623 6. 88888 7,318 79 Grand Total. 5,373 612 1,332 7,318 7 3,289 928 153 678 163 . 2 ₩ :88 cts. 88 : \$: 83 7 485 4 32,53 .88 'aun p **90** CLASSIFICATION of Disbursements of the Dredge "Challenge," during the Year ended 30th June, 1892. 57 : 7 88 . 27 \$ 282 \$ <u>5</u>81 May. 22 22 22 23 834 52823 **₹** 66 84 8 :6 : 150 8 223 æ 222 April. :63 8 33 3 8 cts 2 38 :33 261 :2 295 <u>2</u> March. : 33 262 8 16 9 cts 8 56: 8: February. 192 282 . 25 192 91 cts 8 8 17 : 55 January. 9 **9**. 8 57 26 33 384 8 232 32 gg 83 **€** December. 321 321 :29 49 56 56 10 288 2 cts 262 86 Zovember. :22 28 530 8 88888 :6 828 0 6 1,153 滋豆없듯 October. **e**⊊ 283 22222 cts :8: 99 884 3 332 318 100 100 9 September. Ξ 9121823 **3**₽ :8 :83 8 Ξ. 38 83 8 8 August. 65 13 480 . & 8 12 cts. :10 8 :88 2 **#** # # # 3 88 8 **₹** = ₹ 99 July Working expenses ... Repairs..... Provisions Stores Contingencies. Items. Equipment Totals. Pilotage Towage Coal...

PUBLIC WORKS

STATEMENT showing Classification of Cost of Dredging on Ship Channel

Vessel.	Fuel.	Wages.	Board.	Stores and Materials.	General Repairs.	General Expenses.	Salaries and office Expenses.
	\$ ets.	\$ cts.	\$ ets.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Dredge No. 11	2,111 97	2,825 38	1,122 24	862 84	436 60	4, 996 95	1,457 08
do No. 13	2,288 92	2,459 90	983 69		898 13		
Stone lifter No. 1	53 27	340 64	70 00		456 66		
Tug "John Pratt"	580 93	1,350 90	495 82	317 47	256 39	2,331 75	680 02
do "St. Francis"	1,224 55	1,315 23	489 80	193 54	68 26	1,951 35	569 00
do "M. F. Parsons"	411 65	441 26	136 33	105 40	99 98		222 05
do "C. J. Brydges"	86 93				342 77	332 77	97 15
do "St. James"	630 81	1,031 35	439 43	117 96	271 37	1,760 84	513 50
Totals	7,389 03	9,764 66	3,737 31	2,321 36	2,830 16	17,798 09	5,190 19

OF CANADA.

between Montreal and Quebec, for Fiscal Year ended 30th, June 1892.

Total Cost.	Stone Lifter No. 1 Service.	Proportion of Tug Service.	Total Cost of Dredge and Plant.	Number of Working Days.	Cost per Day.	Number of Cubic Yards dredged.	Cost per Cubic Yard.
\$ cts.	\$ cts.	\$ cts.	\$ cts.		\$ cts.		
13,813 06 13,442 42 2,147 39 6,013 28 5,811 73 2,178 04 859 62 4,765 26	1,132 13 1,015 26			155 139	163 18 170 77		29.4 cents. 40.6 cents.
49,030 80	2,147 39	19,627 93	49,030 80			144,195	34 0 cents.

CLASSIFICATION of Disbursements of the Dredge "Pacific," during the Year ended 30th June, 1892.

Items.	.Yuly.	Jeugu A	September.	October.	November.	December.	January.	February.	March.	.lirqA	.Y.B.M.	June.	Grand Total.
	es cts.	s cts.	es cts.	- se cts.	e cts.	es cts.	e cts.	es cts.	s cts.	& cts.	* cts.	S cts.	s cts.
				24 00	193 19 384 50	1,220 00	625 00 321 75	615 00 89 37	599 50 186 50	630 48 87 50	550 48	565 00 375 00	5,022 65 1,444 62
Wood					4 17 158 42 34 80	4 98 139 96 38 16		136 29	139 00	139 46 48 95	137 31		14 45 1,290 68 303 38
Equipment Repairs.		· · · · · · · · · · · · · · · · · · ·		406 75			72 80 171 90					44 21 1,360 88	
Towage Wharfage.					14 00						2 20		19 50
Totals				430 75	1,462 56	1,763 85	1,348 83	924 44	1,175 71	1,085 (3	735 63	2,715 10	11,642 50
Working expenses Repairs, ordinary do extraordinary	: : :			24 00 23 75 383 00	796 03 150 90 515 63	1,417 43 70 43 275 99	1,176 93 34 48 137 42	891 19	940 75 28 13 206 83	915 19 25 00 145 44	725 63 10 00	1,354 22 350 88 1,610 00	8,241 37 726 82 2,674 31
Totals				430 75	1.462 56	1.763.85	1.348.83	924 44	1.175 71	1.085 63	735 63	2.715 10	11,642 50

108

458

\$

33

11,617'94 Grand Total. 11,617 *6,484 1,373 331 41 £88 **9**9 8 282 :83 22 3 **& 7** 1,876 1,876 300 oun e 8248 327 :8 8 CLASSIFICATION of Disbursements of Snag Boat "Samson," during the Year ended 30th June, 1892. cts. 65: 02 : 28 S 33 63 200 : 83 67 6.2 1,432 1,308 . 15 124 1,432 May. 22 ₩ cts. 283 :2 : 8: 8: æ \$ X **9** :62 April. **382** 941 623 ¥ cts. 888 :38 28 28 28 22,23 8 8 2822 385 388 875 10 855 March. cts. 282828 8 35 3 818 818 818 February. 35200 60 :5 23 488 57 $\tilde{2}$ 5 328 758 32 758 .Vaeuna 6 cts. 28 **88 482** :88 91 6 385 <u>8</u>2 <u>6</u> ∞ December. 827 827 cts. 23883 æ 2883 :8 g \$ 12 35 FE 85 48 85 2,023623 November, 60 cts\$ 16 4 9 1 11 October. 17 **9**9 cts 888 :2 6 £ 52 පිස්සු 25288 : 4 × 8 September. 1,221 40 22 cts 8 :8 22 15 12 ន្ទន 778 2 111 August. 67 781 781 ŝ R 83 क्ष 83 83 æ æ æ .vint. 99 Working expenses.... Repairs, ordinary do extraordinary Provisions Totals Repairs Contingencies. Totals Items. Stores quipment. Water Wood Pilotage ..

cts.

82382388

* \$598.84 of this amount was paid by the Marine Department.

CLASSIFICATION and Quantities of Material removed by the following Dredges during the year ending 30th June, 1892.

Grand Total.	c. yds.	20,388 4,375	24,763		1,440 17,100 90	16,403 720 2,700	38,453		46,020 7,315 1,300	54,635
June	c. yds.	4,375	4,375		630	7,020	7,650		12,215	12,215
May.	c. yds.	::			5,400	180	5,676		5,635	5,635
.lirqA	c. yds.				: :	066	066			
Матећ.	c. yds.				::			-		
February.	c. yds.									
·January.	c. yds.	: :		*				INION."		
December.	c. yds.	: :		"CANADA."				"NEW DOMINION."		
ХочешЪет.	c. yds.	: :		"		720 1,530	2,250	N ;;	1,155	1,155
Осторет.	c. yds.	1,838	1,838	-	1,080	896	2,948	•	8,570	9,870
September.	c. yds.	4,725	4,725		00,2	4,115	4,815		10,150	10,150
, deuguA	c. yds.	5,950	5,950		2,900	2,950	6,030		8,295 420	8,715
July.	c. yds.	7,875	7,875		180 6,570	1,350	8,100		6,895	6,895
Description of Material dredged.		Sand—very fine	Totals		Hard-pan. Gravel	Sand—ordinary Sand—very fine Mud	Totals		Sand—ordinary Sand and saw-dust Mud.	Totals

525 . 270 4,896 140 6,785 4,475 52,690 2,674 1,841 7,547 3,141 16,179 16,045 8,860 1,800 9,840 32,140 8,910 17,091 9,760 4,500 3,564 8,079 4,865 8,865 7,050 7,050 4,000 3,611 2,674 $2,360 \\ 675$ 5,517 5,517 5,400 8225 150 140 1,100 2,365 3,520 1,8605,380 2,940 2,940 "GEO. McKENZIE. "NIPISSING." SIL TOUIS. 1,002 3,243 4,240 4,240 1,800 4,860 1,905 2,016 2,016 $\frac{1,200}{1,465}$ 2,665 3,510 8,580 3,675 3,675 2,694 1,125 3,819 4,000 3,155 7,155 9,090 9,090 2,325 2,3253,825 3,000 3,8706,450 6,4501,525 3,051 6,051 1,5251,655 3,400 6,9706,330 2,010 8,340 855 3,570 2,950 2,950Clay and stone Sand—ordinary Mud Clay and stone Sand—ordinary. Sand and shells. Mud. Clay and stone. Sand—ordinary Clay. Sand—ordinary. Mud...... kelp . Mud and shells. Gravel..... Boulders.... Totals... Gravel.... Totals. Totals. Totals.

[1892]

111

"PRINCE EDWARD."

Crassification and Quantities of Material removed by the following Dredges during the year ending 30th June 1892.

					3	"QUEEN."				•			
Description of Material dredged.	July.	August.	September.	October.	Lovember.	December.	January.	February.	Матећ.	.lirqA	May.	June.	Grand Total.
	c. yds.	c. yds.	c. yds.	c. yds.	c. yds.	c. yds.	c. yds.	c. yds.	c. yds.	c. yds.	c. yds.	c. yds.	c. yds.
Hard-pan BouldersGravel											90 : :	1,978	1,978 1,978 1,976
Clay	1,638	6,426	6,688	6,880	2,288						1,434	2,408	2,018 3,842 24,945
Totals	4,301	6,426	6,688	6,880	2,288		:	:			1,914	6,362	34,859
) w	"ONTARIO."							
Hard-pan Boulders Gravel.	780 1,620 2,100	2,430 690	450 450		780								1,500 4,500 895
Clay and stone Sand—ordinary Mud		069	2,760	10,690	2,235 1,005					510	7,715	2,430	26,340 5,020
Totals	4,980	4,530	4,080	10,690	5,010					510	9,330	4,650	43,780
					IO,	"CHALLENGE.	"."						
Hard-pan. Gravel. Clav.	4,380	1,830 6,720 2,160	2,100	1,560	1,120						2,000	960	12,830 8,340 5.170
Clay and stone Sand—ordinary			240	280	1,400								240 1,980
Totals.	4,380	10,710	2,340	2,640	2,520						3.570	2.400	28,560

ABSTRACT of Work done in deeponing the Ship Channel in the River St. Lywrence between Montreal and Quebec, for the Fiscal Year ended 30th June, 1892.

	T	Time of Service.	No worki 12 ho d	Nominal working time 12 hours per day.	Dredging machinery in motion.		Quantity dredged in cubic yards, scow measurement.	antity cubic asurem	yards, ent.		Quantity in cubic	Quantity dredged in cubic yards.
Vessel.	Locaticy o o Dredging.	Days.	Hours.	.srnod latoT	Hours,	rotal hours.	Earth.	Rock.	Total.	Soil.	Cap k la Roche.	St. Joseph de Lévis.
Dredge No. 11 Cap à la Roche.	Cap à la Roche. Lévis	140 15	1,680	: :	1,3214		330	82,515		Hard shale rock Hard-pan, sand and stones	82,515	3,330
		155	100	1,860		1,417	:	:	85,845			
Dredge No. 13 Cap à la Roche.	Cap à la Roche	139	1,668	:	1,197		± 5	58,350			58,350	:
12]		139	6	1,668		,197	:		58,350			
	,					8	3,330 14	140,865	144,195		140,865	8,330

DETAILS of Dredging in the Maritime Provinces

					NEW BR	UNSV	VICK.	
Dredge.	Locality.	Cour	nty.	Quanti	Cost ty. eac Wo	·h	Total C	lost.
				C. yd	s. \$	cts.	\$	cts.
"New Dominion"	Oromocto			36,7 17,8	85 6,25 3,03	1 27 3 44	9,284	71
"Canada"	Mabou Cheticamp Port Hood East River. Acadia Coal Co. Wharf.	do do Pictou						
"Prince Edward"	Summerside Pownal Wharf Georgetown Sturgeon	Queen's.				 		
"St. Lawrence"	RichibuctoBarrington	Kent Shelburn		20,3			11,308	3 14
"Geo. McKenzie"	Cheticamp St. Peter's Canal D'Ecousse East River	Cape Bro	eton d					
	,			75,0)23		20,592	2 85
		New B	RUNSWIC	rk.	No	VA S	Всотіа.	•
	Dredge.	Quantity.	Со	st.	Quantity	y.	Cost.	
		C. yds.		\$ cts.	C. yds.		*	cts
"Canada"		54,635	9,	284 71	38,4	53	9,989	 9 95
		20,388		308 14	4,3 39,1		2,426 14,959	
	1	75,023	20,	592 85	81,9	93	27,37	6 08

for the Year ending 30th June, 1892.

	Nova Scor	rta.	Princ	E EDWARD I	SLAND.	Quantity	
Quantity.	Cost of each Work.	Total Cost.	Quantity.	Cost of each Work.	Total Cost.	by each Dredge.	Total Expenditure.
C. yds.	\$ ets	. \$ cts	C. yds.	\$ cts.	.\$ cts.	C. yds.	\$ ets.
						54,635	9,284 71
16,020 18,090	4,161 86 4,699 77			: 			
1,553	403 48 397 49						
$1,530 \\ 1,260$	327 35	9,989 95				38,453	9,989 95
			. 13,541	5,518 03			
			3,243 1,002	1,321 54 408 32	1		
.,			1	5,540 45	12,788 34	31,382	12,788 34
4,375	2,426 57	2,426 57				24,763	13,734 71
6,970	2,662 31						
3,825 8,550	1,460 99 3,265 81						
19,820	7,570 45	14,959 56				39,165	14,959 56
81,993		. 27,376 08	31,382		12,788 34	188,398	60,757 27
PRINCE E	dward Isl.	AND. Total Q		xpenditure	Superinten-	Total	Cost per
Quantity.	Cost	1		Oredging.	dence.	Expenditure.	Cubic Yard
C. yds.		cts. C.	yds.	\$ cts.	8 cts.	\$ cts.	
· · · · · · · · ·			54,635	8,647 87	636 84	9,284 71	0 16.9
31,38	12,78	38 34	38,453 31,382	9,304 74 11,911 19	685 21 877 15	9,989 95 12,788 34	0 25 9
			24,763 39,165	12,792 65 13,933 49	942 06 1,026 07	13,734 71 14,959 56	0 55 40 0 38 1
31,38	_	88 34	188,398	56,589 94	4,167 33	60,757 27	0 32 2

116

DREDGE STATEMENT showing Material removed at different localities, Total Annual Expenditure on each Dredge and Average Cost per cubic yard.

DREDGE "CHALLENGE"

÷			REDGE						
Location.	Hard- Pan.	Boulders.	Gravel.	Clay.	Clay and Stone.	Sand, Ordinary.	Sand, Fine.	Mud.	Totals.
	<u> </u>	<u> </u>	<u> </u>		<u> </u>		<u> </u>		
Meaford Phornbury Collingwood	6,210 3,660 2,960		4,380 3,960	2,160 3,010	240	1,980			12,75 9,84 5,97
	12,830		8,340	5,170	240	1,980			28,56
		Total annu	al expend	iture, \$7	318.79.	Cost per	cubic y	ard, 25% c	ents.
	<u> </u>		REDGE	"NIPI	SSING	."		-	-
Jones' Island Ottawa River		1,800		6,330 3,510		2,010 20,610 9,520		4 590	8,34 24,12 11,32
Kingston Collins' Bay Picton								4,530 3,300 1,080	4,530 3,300 1,080
		1,800		9,840		32,140		8,910	52,690
Belleville Port Hope Cobourg. Frenton Amherstburg.		4,500	780 3,240 585	825	990	1,380 22,530 2,430		420 2,620 810 1,170	1,800 26,920 3,240 10,410 1,410
Amnerstourg	1,500	4,500	4,605	825	990	26,340		5,020	52,690
		Total annua	al expend	iture, \$ 8	,091.13.	Cost per	cubic y	ard, 187 c	ents.
	<u>'</u>		DREDG	E " QU	EEN."				
Variable				1,638		1,543 23,402			3,184 23,40
Yamaska Ottawa River Hog's Back	100			! · · · · <u>· · · ·</u>	500				600
Ottawa River		1,978	1,976	2,018	3,842	24,945			7,670
Ottawa River	100	1,978	1,976	2,018	3,842	24,945			34,85
Ottawa River. Hog's Back	100	1,978 Total annua	1,976	2,018 iture, \$5	3,842 3,842 985.78.	Cost per	cubic y	ard, 17% o	34,85
Ottawa River	100	1,978 Total annua	1,976	2,018 iture, \$5	3,842 3,842 985.78.	Cost per	cubie y	rard, 17% o	34,85
Ottawa River. Hog's Back. Belleville Frenton Ottawa River. Baie la Vallier.	100	1,978 Total annua	1,976 al expend REDGE	2,018 iture, \$5, "ST. I	3,842 3,842 985.78. OUIS.	Cost per	cubic y	4,475	7,670 34,859 ents. 4,477 6,155 5,533
Ottawa River. Hog's Back Belleville Frenton Ottawa River	100	1,978 Total annua	1,976	2,018 iture, \$5, "ST. I	3,842 3,842 985.78.	Cost per	cubic y		7,670 34,850 ents. 4,477 6,15

,	;	Total for the Nineteen Years ended 30th June, 1891.	Nineteen Y	ears ended 1.	For	For the Year 1891-92.	-92.	Total	Total	Cost for
County.	I.cality.	Quantity.	Cost.	Cost for County.	Quantity.	Cost.	Cost for County.	Quantities.		each County.
		c. yds.	→ CEN	sto **	c. yds.	s cts.	e cts.	c. yds.	es cts.	es cts.
Antigonish	Antigonish Harbour au Bouche	22,025 10,568 19,245	3,649 15 2,498 48 5,530 99					22,025 10,568 12,245	2,498 2,498 530 84 89 89 89	
•	McNair's Cove Bayfield Arissig	1,725 1,710 3,540	4,443 82 4,406 19 3,853 30	24,380 23				1,725 1,710 3,540	4,443 82 4,405 19 3,853 30	24,380 23
Annapolis	Annapolis	2,825	1,685 68	1,635 68	:			2,825	1,635 68	1,635 68
Toolar and the state of the sta	Lingaa Sydney Little Glace Bay Port Caledonia. Port Caledonia. Obseración France Island	22,267 54,600 46,450 17,840 20,860	9,275 56 17,781 54 16,986 02 8,242 21 5,993 90					22,287 54,600 46,450 17,413 20,860	9,275 56 17,781 54 16,986 02 8,242 21 5,993 90 3,364 98	
	Cow Bay.	3,256 4,680	1,892 32 2,720 76	66,207 29				3,255		66,207 29
Colchester	Tatamagouche	65,480	20,373 07	20,373 07	:	:	:	65,480	20,373 07	20,373 07
Cumberland	Parrsboro'	42,596 60,835	12,804 68 14,573 49	27,378 17				42,595	12,804 68 14,573 49	27,378 17
Digby	Digby	12,585	5, 95 6 29 28 62	5,084 91				12,585	5,0 5 6 29 28 62	5,084 91
Guyeboro'	Guysboro' Larry's River Port Mulgrave Sherbrooke	26,230 3,532 1,260	1,413 53 6,546 70 1,749 78 496 49	10,206 50				25,400 3,532 1,360 1,860	1,413 53 6,546 70 1,749 78 496 49	10,206 50
Halifax	Chezzetosok Halifax Ferry Herring Cove Ketch Harbour Richmond Wharf,	3,920 6,177 12,111 2,989 792	2,593 71 2,063 38 8,015 05 985 59 182 53					3,920 6,177 12,111 2,989	2,593 71 2,063 38 8,015 05 985 59 182 53	

EXPRINDITURE for Dredging in Nova Scotia, for the Twenty Years ended 30th June, 1892.

EXPENDITURE for Dredging in Nova Scotia, for the Twenty Years ended 30th June, 1892.

	: •	Total for th	Total for the Nineteen Years ended 30th June, 1891.	ears ended	For	For the Year 1891.	91.	Total	Total	Cost for
County.	Locality.	Quantity.	Cost.	Cost for County.	Quantity.	Cost.	Cost for County.	Quantities.	Cost.	each County
	Roche's Wharf. Halifax railway terminus. Jeddore North-west. Arm. Cumard's Wharf.	c. yds. 1,750 19,290 21,515 7,350 1,400	\$ cts. 6,187 38 4,958 56 2,970 39 530 04	\$ cts.	c. yds.	e C C C C C C C C C C C C C C C C C C C	₩	c. yds. 1,750 19,290 21,515 7,350 1,400	\$ cts. 620 28 6,187 38 4,958 56 2,970 39 530 94	\$ cts.
Inverness	Whyocomagh Campbell's Fond Port Hastings. Otheticamp Mabou Port Hood.	19,760 4,940 270 122,100 100,587 2,800	3,491 31 872 83 190 37 38,350 65 41,978 86	85,739 46	25,060 16,020 1,553	84 807 4,161 86 16,181 86	11,927 42	19,760 4,940 270 147,160 116,617 4,353	3,491 31 872 83 872 83 190 37 45,712 73 46,140 72 1,258 92	97,666 88
Lunenburg:	Lunenburg. Mahone Bay Vogler's Cove	70,510 21,844 11,610	22,194 57 5,958 65 5,075 53	33,228 75				70,510 21,844 11,610	22,194 57 5,958 65 5,075 53	33,228 75
Pictou	Acadia Coal Co.'s Wharf. Albion Mines East River Hailax Coal Co.'s Wharf. Pictou Public Wharf do Market Wharf do Landing. Vale Colliery Wharf River John Granton Granton Hayer's Wharf River John Hayer's Wharf	10,240 10,475 10,475 11,656 13,938 13,164 11,335 11	25,256 25,2181 25,267 26,527 26,527 27,527 2	107,930 98	21,350	7,967 94	8,205 29	11,500 126,145 126,145 1,650 1,050 1,395 1	3,887 61 2,181 25 3,3036 16 20,527 55 2,950 34 2,950 34 2,22,242 98 10,707 55 2,138 60 2,138 60	116,226 27
Queen's	Liverpool D'Escousse St. Peter's Canal. St. Peter's	12,940 11,860 79,161 7,150	4,762 38 5,962 13 24,434 52 2,407 41	4,762 38	8,550	3,265 81		12,940 20,410 82,986 7,150	4,762 38 9,227 94 25,895 51 2,407 41	4,762 38

118

	-							1	
547,472 06	547,472 06	1,690,240	27,376 08	27,376 08	81,993	520,095 98	520,095 98	1,608,247	Totals
762 98	86 292				:	762 98	762 98		Dredge "C. B" losses
1,569 95	1,569 95	3,820	:			1,569 95	1,569 95	3,820	Victoria Aspey Bay
1,627 63	1,627 60	5,450				1,627 60	1,627 60	5,450	Hants Windsor
38,951 26	38,951 26	105,524	:	:		38,951 26	38,951 26	105,524	Yarmouth Yarmouth
20,676 48	10,591 41 10,085 07	34,048	2,426 57	2,426 57	4,375	18,249 91	10,591 41 7,656 50	34,048	Shelburne Lockeport
47,626 75	5,570 49 4,468 87 56 53	23,584 18,920 320	4,726 80		<u>δ</u>	. 😛	4,468 87 42,899	23,584 18,920 320	Grand Goulet River Bourgeois Marine Slip.

EXPENDITURE for Dredging in New Brunswick for the Twenty Years ended 30th June, 1892.

County	Loselitu	For the N	For the Nineteen Years ended 30th June, 1891.	urs ended 1.	For	For the Year 1891-92.	92.	Total	Total	Cost for
		Quantity.	Cost.	Cost for County.	Quantity.	Cost.	Cost for County.	Quantity.	Coet.	each County.
Gloucester Bathurst		c. yds. 72,607	\$ cts. 20,629 52	\$ cts.	c. yds.	e cts.	cts.	c. yds. 72,607	\$ cts. 20,629 52	\$ cts. 20,629 52
KentRichibucto Cocagne Buctouche do Pried do Chaj	Richibucto Cocagne Buctouche do Priest's Point do Chapel Point do Robertson's Wharf	67,185 27,180 13,005 3,510 4,140 4,5	20,985 64 9,601 45 4,934 24 1,110 70 1,310 07	37,956 33	20,388	11,308 14	11,308 14	87,573 27,180 13,005 3,510 4,140	32,293 78 9,601 45 4,934 24 1,110 70 1,310 07 14 23	49,264 47
NorthumberlandHorse Shoe, Miramichi.	e, Miramichi	160,417 13,125 37,975	44,594 13 4,032 67 10,121 67	58,748 47				160,417 13,125 37,975	44,595 13 4,032 67 10,121 67	58,748 47
Queen'sGrand Lake Jemseg Washademoak	Grand Lake do McMann's Cove Jemseg Washademoak.	98,555 20,440 61,305 48,975	16,372 96 4,522 82 12,117 74 6,340 83	39,354 35				93,555 20,440 61,305 48,975	16,372 96 4,522 82 12,117 74 6,340 83	39,354 35
Restigouche Dalhousie Traverse		22,301 29,400	6,543 08 9,008 64	15,561 72			: :	22,301 29,400	6,543 08 9,008 64	15,551 72
I. C. Ry. terminus, Navy Island Marble Cove Murray's Mills. Indiantown Wharf Long Wharf Adams Wharf Miller & Woodman's Ilayford & Steteon's International Wharf Anchor Line Wharf	I. C. Ry. terminus, Navy Island Marble Cove. Murray's Mills. Indiantown Wharf Long Wharf Adams Wharf Adams Woodman's Ilsyford & Stetson's International Wharf Anchor Line Wharf	139, 25, 294, 29, 29, 29, 29, 29, 29, 29, 29, 29, 29	37,130 01 9,296 79 4,574 40 3,441 65 192 88 2,680 28 1,090 42 942 29 52 96 52 96 631	83,445				139,810 25,324 25,324 25,324 27,131 27,513 8,9,275 8,9,275 8,9,275 8,9,275 8,9,275 8,9,275	37,130 9,236 79 3,421 65 1,421 65 1,030 1,	63,445 63
Sunbury Oromocto		188,678	36,311 11	36,311 11	36,785	6,251 27	6,251 27	225, 463	42,562 38	- 42,562 38
Westmoreland . Point du Chêne	Chêne	69,700	21,125 92	21,125 92	:	:		69,700	21,125 92	21,125 92

39,395 7,699 15 15,570 6,827 36 30,395 4,379 52
60,170 8,156 76 14,130 2,505 33 38,020 5,685 81 22,925 3,189 65
1,411,757 331,566 63

EXPENDITURE for Dredging in Princo Edward Island for the Twenty Years ended 30th June, 1892.

	######################################	Total for th	Total for the Nineteen Years ended	ears ended 0.	For (For the Year 1891-92.	1-92.	Total	Total	Cost for
· Councy	Locality	Quantity.	Cost.	Cost for County.	Quantity.	Cost.	Cost for County.	Quantity.	Cost.	each County.
King's	Grand River Montague River Montay Harbour	c. yds. 46,110 106,140 44,430	\$ cts. 8,963 97 17,119 43	& cts.	c. yds.	es cts.	er.	c. yds. 46,110 196,140 44,430	\$ cts. 8,963.97 17,119.43	₩ •••
	Sturgeon		:	33,461 73	13,595	5,540 45	5,540 45	13,596		39,002 18
Queen's	Charlottetown Wharf	41,303 4,045 89,782	10,264 56 670 61 27,493 03					41,303 4,045 89,782		
	Pownal Rocky Point	91,440	9,604 55 14,661 16		3,243	1,321 54		47,643 91,440	10,926 09 14,661 16	
	Wood Islands	17,860	6,326 72 548 00					17,860 12,780 1,780		
	Nine Mile Creek. Hickey Wharf.	31,050 750	6,286 150 150 150 150 150 150					750	0,200 ±0 150 51 0 441 98	
	Pinette.	3,825	756 24							
	South Port Ferry	33,015	5,528 75					33,015		
	E E	7,668	4,904 15					7,668		
-	Peake Bro	. 170, 4	3,424 85					, v. 4	3,424 85	
	rth Rustico.	13,536	4,775 38					13,536		
<u> </u>	_a 3	17,847	8,305 50	120,257 89	1,002	408 32	1,729 86	17,847	8,305 50 408 32	121,987 25
Prince	Summerside.	15,855	2,495 34		13,541	5,518 03		29,396	8,013 37	:
<u> </u>	Tignish.	11,387	13,005 45 538 42	23,329 16			5,518 03	11,387	13,005 45 538 42	28,847 19
		715,868	177,048 28	177,048 28	31,382	12,788 34	12,788 34	747,250	189,836 62	189,836 62

122

EXPENDITURE for Dredging in Quebec for the Twenty Years ended 30th June, 1892, from Appropriations-Maritime Provinces.

Magdalen Islands, Co. Gaspe. House Harbour. Témiscouata. River du Loup.	6,800 2,587 8,123	2,392 92 242 05 825 47 3,997 59	2,634 97 825 47 3,997 59		92 2,634,97 17 825,47 99 3,997,59	•	2,392 92 242 05 825 47 3,997 59	2,634 97 825 47 3,997 59
	18,005	7,458 03	7,458 03			18,005	7,458 03	7,458 03

*From amount voted Quebec dredging.

[1892] 123-

STATEMENT of Dredging showing Quantities removed in each Province, and cost of each work for the Twenty years ended 30th June, 1892.

					, , , , , , , , , , , , , , , , , , , ,						
, i	NEW B	BRUNSWICK.	Nova	Nova Scotta.	රු	QUEBEC.	PRINCE EDV	PRINCE EDWARD ISLAND.	Total	Total	Cost
Fiscal Year.	Quantity.	Cost.	Quantity.	Cost.	Quantity.	Cost.	Quantity.	Cost.	Quantity.	ture.	yard.
	c. yds.	s cts.	c. yds.	es cts.	c. yds.	& Cts	c. yds.	es cts.	c. yda.	es cts.	ee cts.
1872-73			23,260		9	60 606 6	:		61,320		
1874.75	13,23	17,325 05	24,416	13,238		76 700 67	:		121,294	40,456 77	0 33 354
1875–70			127,785				74,460		299,935		
1877–78			106,857		:		82,860 46,490		270,787		
1879-80			127,584		765	374 08	36,390		228,379	_	
1888-81 81881-89			87,118		2,317		46,335		180,085 216,531		
28-78812 192			143,616				68,535		260,716	_	
1882-84 1884-85			76,164		8,123	3,997 59	55,075		268,359	-	
1885-86			56,790				17,137	10,349 66	142,432		
1787–88 1787–88			84,175		•		3,775		138,102	_	
1888-89			56,910				24,240		146,783	_	
1889-90.			59,73				19,004		177.290		
1891–92.			81,993				31,382		188,398		
Totals	1,486,782	352,159 56	1,645,656	535,536 78	18,006	7,458 03	747,255	189,836 62	3,899,698	1,084,990 94	0 27 82
	-										

STATEMENT of Dredging showing Quantities removed by hand in each Province, and cost of each Dredging for the Twenty years ended 30th June, 1892.

Wienes Voces	Ngw Br	Brunswick.	Nova	Nova Scotia.	iao	Quebrc.	Princk Isi	PRINCE EDWARD ISLAND.	Total	Total	Cost
L'IOCAN L'OOL.	Quantity.	Cost.	Quantity.	Cost.	Quantity.	Cost.	Quantity.	Cost.	Quantity.		yard.
	c. yds.	cts.	c. yds.	ee cts.	c. yds.	es ofts.	cts. c. yds.	ee ots.	c. yds.	es cts.	e cts.
1878-79 1879-80			245	3.666 90					245	555 13 3.666 90	
1880-81	: :		11,140						11,140	2,560	883
1882-83			8,130						8,190	2,52 500 500 800 800 800 800 800 800 800 800	
1883-84 1884-88			5,460	2,500 00			:	:	5,460	2,500 00	
1888-89 1480-40											
Ø1890-91		: :									
51891-92											
Totals			48,045	14,432 28							

STATEMENT of Dredging in the Maritime Provinces, showing Quantities removed by and Expenditure of each Dredge for Twenty

4	Total Quantities and Cost for Nineteen Years ended 30th June, 1891.	l Quantities and Cost for Nin Years ended 30th June, 1891.	Nineteen 891.		1891-92.	. 2		Total for I	Total for Twenty Years ended 30th June, 1892.	ended 30th
Dredge.	Total Quantity.	Cost.	Per Cubic yd.	Quantity.		Cost.	Per Cubic yd.	Total Quantity.	Total cost.	Cubic yd.
	Yds.	es cts.	Ċţ;	Yds.		& cts.	Cts.	Yds.	9 5	cts. Cts.
"New Doninion". "Canada".		150,910 46 186,553 71	18.70 35.09	<i>1</i> ç&	54,635 38,453	9,284 71 9,989 95	16 · 99 25 · 97	861,468 569,999	160,195 196,543	
Cape Breton "Prince Edward" "St. Lawrence" "Geo. McKenzie"	726,703 726,703 725,081 372,616	139,074 33 178,799 21 226,432 31 135,966 08	8428 8628 8628		31,382 12 24,763 13 39,165 14	12,788 34 13,734 71 14,959 56	40.75 55.46 38.19	254, 358 758, 085 749, 844 411, 781	. 191,587 240,167 150,925	55 52 52 53 54 36 55 57 36 56 57
Totals	3,697,717	1,017,736 10	27 . 52	188	86,398	60,757 27	32.24	3,886,115	1,078,493 37	7 27.62
STATEMENT of Dredging performed	med by hand in Locality,	in the Muity, for Two	ritime Penty Yea	rovince rs ended	the Maritime Provinces, showing Quantities removed for Twenty Years ended 30th June, 1892.	g Quant 16, 1892.	ities rei	moved and	Expenditu	Expenditure at each
			1872-73 to 1890-91.	1890-91.					1890-91.	
Locality.		Total Quantity.	Total cost.	1 1	Per cubic yard	1891-92.		Total Quantity.	Total cost. F	Per cubic yard
		Yds.	66	cts.	Cts.			Yds.	e cts.	s cts.
Parrsboro', N. S. Windsor, N. S.		12,595	5 12,804 0 1,627	04 68 27 60	98.68 08			42,595 5,450	12,804 68 1,627 60	30.06 39.86
Totals		48,045		14, 432 28	30.03		 	48,045	14,432 28	30.03
		_	-	-			-		-	

APPENDIX No. 4.

REPORT

ON THE

OTTAWA DISTRICT SLIDES AND BOOMS

FOR THE

FISCAL YEAR ENDED 30TH JUNE, 1892.

APPENDIX No. 4.

OTTAWA RIVER WORKS.

No. 41053.

DEPARTMENT OF PUBLIC WORKS OF CANADA,

CHIEF ENGINEER'S OFFICE,

OTTAWA, 31st October, 1892.

Sin,—I transmit herewith the report by Mr. G. P. Brophy, Superintending Engineer of the Ottawa River District Works, on the works under his charge for the fiscal year ended 30th June, 1892.

I have the honour to be, sir, Your obedient servant,

> LOUIS COSTE, Chief Engineer.

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

> OTTAWA RIVER WORKS OFFICE, OTTAWA, 3rd August, 1892.

Sir,—I have the honour to submit the following report on the works under my charge, on the Ottawa River and its tributaries, for the fiscal year ended 30th June last.

In the late summer and autumn months of 1891, before the close of navigation, the waters of the various streams in the Ottawa valley were at a comparatively fair pitch for driving logs, and most of the timber, whether in the shape of square or sided stuff or cut for saw-logs, reached its destination at a somewhat later date than usual.

The foundations of the slides, dams and piers were examined. After the running season, and in the autumn months, a commencement was made to carry out the necessary work of repairs and reconstruction, which may be described as follows:—

REPAIRS AT STATIONS ON THE MAIN STREAM OR OTTAWA RIVER.

At Carillon Station.—A portion of the stiff guide boom above the head of the slide, where there is a strong cross current, had become sagged and out of line, it became necessary therefore to straighten and strengthen the same by planting on side timbers bolted to the original sticks. This boom section was also replanked and new spindles provided where required

At the Ottawa or South Chaudière Station.—The support piers at both sides of the second bulk-head, where the timbers had become decayed, were reconstructed by placing new timbers and refilling the stone; the bulk-head foundation timbers renewed; the side pier of slide replanked, to form a platform for storage and working purpose; the cribwork and sheeting of the slide repaired, and the general store-house, sheds and fences painted or whitewashed, and certain repairs executed at and near the official residence of the slidemaster.

Hull or North Chaudière Station.—At this place some of the bulk-head equip-

ment was repaired and the slide planking patched.

Bridge Approaches and Roadway between the Cities of Ottawa and Hull.—The mud from this busy avenue was cleaned off from time to time and road metal spread where required. As mentioned in former reports it is very desirable that some [1892]

8--9

durable system of paving should be adopted for this piece of road which has to accommodate a constant stream of heavy traffic.

BRIDGES AT OTTAWA AND HULL.

Union Bridge.—The roadway planking was renewed throughout—the middle being of elm and the sides of red pine. The iron work was overhauled as follows: the nuts on floor beam stirrups and pin connection nuts (bottom and top) tightened; counter rods (bottom and top), lateral and transverse rods adjusted; broken cast iron washers removed and replaced by wrought iron washers; portal stay rods repaired; changes made at intersections of top laterals to prevent rattling; bolts tightened and nuts checked on rods, pins, floor beam stirrups, &c., and the railing where loose was braced and strengthened.

Bridge across Slide and Hydraulic Channels at Chaudière.—The through trusses (north and south) had their counter rods slackened in order to adjust the tension; the floor beams and top struts plumbed; the rust scraped of the bottom chord bars, post feet and stirrups, and off the floor beams, about three feet on each side of the chords where the water and dust had lodged and the parts scraped covered with a coat of paint. On the other spans of this bridge the lateral and transverse rods were adjusted and bolts put in the loose struts; additional braces put in position to strengthen the iron railing, and the roadway planking partially renewed where it had worn thin. The side-walk approach at the south-easterly end of this bridge was renewed for a distance of about twenty-five feet.

Hull Bridge, over the slide channel, had a new covering of red pine planking placed on the road-way, and its hand-rail strengthened and partially renewed. The sidewalk approach to this bridge near the pond was thoroughly repaired; decayed foundation timbers having been replaced by sound ones, and the railing strengthened and braced.

Sappers' Bridge over the Rideau Canal.—The roadway plank was patched in places and the side-walk on the northerly side completely renewed.

Dufferin Bridge, over the same waterway, had its side-walk at the south-easterly

end, near its junction with the approach to Sappers' Bridge, renewned.

Maria Street Bridge, which spans the canal immediately south of the basin, should be replaced by a more substantial structure than the one which has been in use there for the past twenty years. It is understood that your department has plans for a new bridge at that place—the piers to be of stone and the superstructure of iron or steel. I would recommend that the new bridge be constructed as soon as possible, as notwithstanding the repairs that were carried out there last year by the insertion of support timbers and braces, the whole structure is unsightly and cannot much longer, with safety, accommodate the traffic over it. Repairs to the planking, &c., have been done as required, but very little more can be done in that way with useful effect.

Chats Station.—At this place the side-pier timbers of the slide where decayed and worn out were renewed and refilled with stone; new planking laid in the bottom of the slide where required and the governing bulk-head repaired.

Chenaux Station.—The booms here were strengthened by the insertion of heavy timbers skein-chains clevises and rings, and the capstan and float were repaired.

Portage du Fort Station.—Certain portions of the guide-booms having decayed, new timbers were spliced in white pine plank covering spiked on, and an elm picket provided for pier at slide.

Mountain Station.—The outside pier of slide adjacent to the rapids was, for the most part, reconstructed, and hardwood plank placed on side; stone filling removed and replaced; new bulk-head substituted for old structure; new cross sills furnished for supporting the slide where necessary, and hardwood posts placed in the works.

Calumet Station.—A new set of stop-logs was procured for one of the bulk-heads

here, and timber laid up for repairs at the basin.

Rocher Capitaine Station.—The side pier timbers of the slide where rotten and worn out, were removed and replaced by sound material, and the bottom planking repaired.

REPAIRS ON TRIBUTARIES OF THE OTTAWA.

Gatineau River.—The workmen's camp house in connection with the boom was repaired; sand and miscellaneous deposits excavated from the upper canal; mill rubbish, bark and other debris removed from the outlet creek near the lower sorting-gaps, and a wing boom placed to catch timber of small dimensions that might escape in the swift current under the main boom.

Madawaska River.—The principal repairs executed on this stream were at McFadden's Shoal dam and the flat and pier dam at the foot of Long Rapids, which had been damaged by fire. The boom and piers at Little Rapids were also repaired

as well as the dams and piers at Barrett's Chute and Chain Rapids.

A break having taken place in the planking of the High Falls slide, the damage was made good and certain minor repairs were executed at the lower stations on this stream, where the action of the spring freshets and jamming of timber and logs had strained the booms and stripped off some of the dam and slide planking.

Coulonge River.—Foot planking was laid along the High Falls slide for its whole length and certain necessary repairs done to the bottom planking stringers,

sills and posts of the slide.

The river at this place—about four miles from its mouth—flows through a rocky gorge forming a cleft in a spur of the Laurentian Mountain range; and on its left bank the single stick slide (about 3,000 ft. in length) is built. A rock slide from the almost perpendicular cliffs took place and carried away portions of the timber slide which had to be rebuilt; and as there were large pieces of detached rock and boulders influenced by climatic changes and threatening a descent at any time precautions were taken to fasten some of them in their places and to remove

others through the agency of dynamite.

Black River.—The foundation timbers of a portion of the slide at High Falls on this stream having originally been laid on a slab-pile resting on a rocky shelf slanting downwards towards the rapids and falls and without provisions being made to hold the same in place a lateral movement of about 120 feet in length of the slide in the direction of the chute was the result, with a sag in the superstructure corresponding to the depression of the rock. This had to be remedied by removing the old work with a view of securing reliable foundations and renewing the bents, stringers, posts and planking required to fill the gap. The pier timbers and planking of other portions of the works were also repaired at this station.

Petewawa River.—At the 1st and 3rd chutes on this stream the foundations and superstructures of the slides were repaired; as also the foundation timbers and sheeting of the dam at the head of the 2nd chute slide. At Crooked Chute station the dams and side piers had new timbers and planking substituted for a like class of

materials worn out and decayed.

WORK OF RECONSTRUCTION.

At the Bois-dur Station on the Petewawa River the dams and booms were to a considerable extent renewed; and also portions of the main retaining dam at Cedar Lake and the bulk-head and entrance works of the slide at McDonell's Chute, at Crook Chute on the same stream, a portion of the regulating dam was rebuilt and

made serviceable for the supplying of water to the slide.

The spring of 1892 opened favourable for a successful "drive" on the tributary streams; but colder weather having set in within a few days after operations had fairly commenced a sudden check was given to the passage of timber and logs on the small upper creeks, and the waters passed to the lower reaches of the rivers gradually without having the desired effect of floating all the material to the larger streams where it would be better under control. Heavy rains prevailed later in the season in some of the lumber districts and these with the water let off from the reservoirs or retaining dams, maintained a comparatively favourable pitch for the business of the river drivers and raftsmen. On other streams, however, very low water was experienced and the improvements for facilitating the descent of timber were subjected to greater tear and wear than usual.

It is hoped that the great bulk of the timber will have reached its destination before the end of the present season of navigation and that the late drives and sweeps will be so far advanced as to insure the early use of the timber and logs

for next spring's business.

The formation of bars (composed principally of sand and other deposits) in the Gatineau River in proximity to the main boom has had the effect of changing the direction of the currents, undermining the left bank of the river for a considerable distance and proving detrimental to the successful navigation of this stream by steam-boats, and their tows; to say nothing of the extra cost involved in the booming out of logs, etc. Dredging will have to be resorted to as a means of relief and an early commencement of this work would be very desirable.

The following statement 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 amount of revenue accrued as tolls for the

fiscal year covered by this report:—

STATEMENT of the number of pieces of timber, saw-logs, etc., that passed through the Government slides and works on the river Ottawa and its tributaries during the fiscal year ending 30th June, 1892.

	Pieces.
White Pine Timber	14,961
Red do	2,947
Flat, boom and dimension timber	
Round spruce	2,619
Dimension timber	47,473
Cedars	6,458
Railroad ties	107,122
Saw logs	2,123,226
Sided timber mixed	3,640
	2,318,899

and 3,778 cords pulpwood and 9 cribs traverses.

The revenue accrued on the above was \$44,260.42.

In respectfully submitting the above

I have the honour to be, sir,

Your obedient servant,

GEO. P. BROPHY.

Superintending Engineer Ottawa River Works.

Louis Coste, Esq., Chief Engineer, Department of Public Works, Ottawa.

APPENDIX No. 4.—Statement of Expenditure, of Reconstructure and Repairs on the Ottawa River and Tributaries, for the year ended 30th June, 1892.

- AP		Letter of	Letter of Authority.	Expenditure	Expenditure or Liabilities	Romonka
Name of Work.	District.	No.	Date.	authorized.	1st July, 1891, to 30th June, 1892.	
				s cts.	& cts.	
houses, Ont	City of Ottawa. do do do City and County of Ottawa	36613	26th Oct	4,000 00	53 30 391 46 147 31 879 42 945 96	Repairs. do do do do
	do do do do do do do do Prescott City of Ottawa City of Ottawa City of Ottawa Languer A Biding of Tangula				1,429 06 147 06 379 99 713 22 713 22 596 63	දිදිදිදි
	North do Renfrew North do Renfrew County of Pontiac. do do do do do Ottawa	36614	26th Oct	16,000 00		3 2 2 2 2 3 3
	South Riding of Renfrew County of Pontiae. do do North Riding of Renfrew. do	36611	26th Oct	3,000 00	4,905 07 1,341 76 889 93 1,625 61 2,722 87	do do do do Reconstruction.
Total		:	:		22,835 52	

APPENDIX No. 5.

REPORT

ON THE

NEWCASTLE DISTRICT SLIDES AND BOOMS

FOR THE

Fiscal Year ended 30th June, 1892.

APPENDIX No. 5.

REPORT ON THE NEWCASTLE DISTRICT SLIDES AND BOOMS.

Ref. No. 136802.

DEPARTMENT OF PUBLIC WORKS, CHIEF ENGINEER'S OFFICE, OTTAWA, 21st December, 1892.

SIR,—I transmit herewith a report by Mr. R. B. Rogers, Superintending Engineer of the Trent and Newcastle District works, on the works under his charge for the fiscal year ended 30th June, 1892.

I have the honour to be, sir,

Your obedient servant,

LOUIS COSTE, Chief Engineer.

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

> RIVER TRENT AND NEWCASTLE DISTRICT WORKS, SUPERINTENDING ENGINEER'S OFFICE, PETERBOROUGH, 19th Dec., 1892.

SIR,—I have the honour to submit the annual report on the works under my

charge, for the fiscal year ending 30th June, 1892.

The works in this district are constructed for two purposes, namely: Those constructed to benefit navigation, and those constructed to facilitate the descent of timber. The former are under the control of the Department of Railways and Canals, the latter are under the control of the Department of Public Works.

The works are situated along the River Trent, between the Bay of Quinté and

Balsam Lake—a distance of about 170 miles.

There is a very large water shed, and as the country becomes cleared the storage of the water in the reservoirs above, is every year becoming a more important question to the various interests depending upon the supply of water.

The water last spring only reached an ordinary spring level.

The water in the fall of 1891 was very low, lower than it has been for many years, owing partly to its not being properly stored in the reservoirs above, during the spring, and partly to the very dry season.

There was a greater number of logs than usual brought down this route last

Vear

Some regulations regarding the sizes of the bags or booms of logs which are moved down should be passed. At present the logs come down in booms ranging from fifteen to sixty thousand logs. When they come to a contracted part of the channel, the right of way for navigation, as well as for other lumbermen is blocked sometimes for days at a time, by large booms. One of the largest firms brought their logs this year down in small booms with the aid of steam tugs, and they assured me that it was a much cheaper and quicker way than by the old method of large booms. This firm's logs did not stop navigation one hour during their whole descent. Some stringent regulations should also be passed in order to stop the constant removal of the buoys placed along the route to mark the navigation channel.

[1892] 137

The following repairs were executed at the different stations:-

FENELON FALLS.

The south side of the slide, on which rests the end of the Smith estate saw-mill, and the up stream portion forms the mill pond, for the mill, became very much decayed and was falling in at several places. Rather than go to the expense of rebuilding the cribwork in its former condition I reduced the width of the slide seven feet, and rock-bolted a line of bents from the lower side of the slide pier, and the inside of the bents I planked with 6-inch plank, which formed the new side for the slide. Two piers were also rebuilt at the lower end of the slide. The floor of the slide was also repaired. This slide is now in first class condition.

BUCKHORN.

The glance booms were repaired, and 1,000 feet of single stick boom procured.

PETERBOROUGH.

The floor of the slide which was taken out by the Dickson Company's logs was replaced.

LAKEFIELD.

Two snubbing-piers were built above the "Narrows" at Lakefield in order to prevent the large booms of logs blocking the navigation channel.

TRENT RIVER.

Part of the shoal below the village of Hastings was removed, but the high water prevented the work being completed.

I inclose a table showing the number of pieces of timber which passed through

the slides during the past year.

I have the honour to be, sir,

Your obedient servant,

RICHARD B. ROGERS,

Superintending Engineer.

Louis Coste, Esq., Chief Engineer, Department of Public Works.

STATEMENT showing the number of pieces of Timber, &c., which passed over the different slides on the River Trent and Newcastle District Works, during the Fiscal Year ended 30th June, 1892.

Station.	Saw-logs.	Cedar, 8 feet.	Cedar, 16 feet.	Boom Timber.	Railroad Ties.	Bolts.	Square Timber.
TO 1 TO 11	100.000						
Fenelon Falls		8,880		30			
Bobcaygeon	115,000	8,880					
Buckhorn.		8,880		216			
Lovesick	224,000	8,880					
Burleigh	224,000	8,880		216	1		l
Young's Point	160,500	27,500	i	1,430			
Lakefield	110,000	27,500		2,096	1		1
Peterboro'	110,000	27,500		2,096	1		
Hastings		2,,000		1,496	1		
Heeley's Falls				1,496	1		
Chisholm's Rapids	107,344	86,808	57,256	1,619	6,781	4,588	63

APPENDIX No. 6.

REPORT

ON THE

ST. MAURICE DISTRICT SLIDES AND BOOMS

FOR THE FISCAL YEAR ENDED 30TH JUNE, 1892.

APPENDIX No. 6.

SLIDES AND BOOMS, ST. MAURICE DISTRICT.

Ref. No. 44422.

DEPARTMENT OF PUBLIC WORKS OF CANADA, CHIEF ENGINEER'S OFFICE, OTTAWA, 1st December, 1892.

SIR,—I transmit herewith a report by Mr. Thos. Berlinguet, Superintending Engineer of the Slides and Booms on the St. Maurice District, on the works under his charge during the fiscal year ended 30th June, 1892.

I am, sir, your obedient servant,

LOUIS COSTE, Chief Engineer.

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

Ref. No. 39425.

THREE RIVERS, 16th November, 1892.

SIR,—As requested in your letter No. 39425, I have the honour to submit the following report on the St. Maurice works, for the fiscal year 1891-92 ended 30th June last.

The St. Maurice is one of the chief tributaries of the St. Lawrence, not only on account of its length but also on account of the volume of its waters. The three branches which form its outlet unite about a mile above the St. Lawrence, and from thence the river has an average width of a quarter of a mile, as far as Weymontachingue, that is to say, for more than 300 miles above its mouth.

The course of the St. Maurice is impeded by a great number of rapids and

falls, nevertheless there are considerable stretches which are navigable.

The history of the commencement of the timber trade on the St. Maurice is somewhat interesting.

It was only in 1825 that the Government took measures for the dividing into

regular sections of the vast territory of the St. Maurice.

In 1852 the timber limits were erected definitely and systematically. The following year great improvements were made in the river to facilitate the descent of the wood.

These improvements were afterwards continued each year, and thus the vast

territory of the St. Maurice timber limits grew to their present importance.

The first saw-mill of any importance erected on the St. Maurice was at Les Grès, about sixteen miles above Three Rivers,—it was built in 1846; the second was built at La Pointe des Américains in 1853.

In 1867 a third saw-mill was built on Ile Bellerive, at the mouth of the St.

Maurice, now known as Baptist's Island.

To-day there are four large saw-mills on the St. Maurice, three at Three Rivers and one at Grandes Piles, each able to saw 2,000 logs per day of 24 hours.

Besides these saw-mills there is at Grand Mère, on the River St. Maurice, a large pulp factory which consumes from 150,000 to 200,000 logs per annum.

During the summer of 1891, 276,236 saw-logs were passed down through the St. Maurice works. This wood was chiefly pine and spruce.

[1892] 141

A small proportion of this timber was cut on the St. Maurice. It came chiefly from timber limits along the Mackinac, Rat River, the Grande Bostonnais above La Tuque. The timber cut last season at the head of the Vermilion, also a tributary of the St. Maurice, could not reach the St. Maurice on account of the lowness of the water on the Vermilion.

The freshets in 1891 were comparatively small in comparison with those of previous years. The water in the St. Maurice commenced to rise on the 12th of April, and reached its maximum height on the 24th of the same month, corresponding to seventeen feet above the lowest water level, and then gradually fell to its normal stage, and on the 11th of June the water level was two feet lower than the lowest we ever had for the last five years at the same period.

At the end of August, 1891, the water rose about five feet, which gave a good

pitch for the floating of timber.

The booms at the different stations were stretched in April and May, 1891, and

were put in winter quarters in October of the same year.

The following repairs were executed during the winter, under the supervision of the boommasters at the respective stations:—

Grand' Mère.

The building of two anchor piers 30 feet square on the bottom and 18 feet square on the top, with an elevation of 10 feet.

Shawinigan.

The work done at that station consists of the rebuilding pier No. 10 in the Bay of Shawinigan. This pier was built in 1854, and has been repaired several times since. The dimensions of the section of the pier rebuilt are 32 feet by 19 at the low water level, and 15 feet by 11 on the top, with an elevation of 30 feet above low water.

Cap aux Corneilles.

The work done consists of the building of a pier for the distribution of logs at the head of Cap aux Corneilles booms, at a distance of about 800 feet below the Canadian Pacific Railway bridge. The pier measures 29 by 17 feet at low water level. Three other piers were also repaired.

Entrance of the St. Maurice.

The planking of three piers was renewed and some repairs done to a shed. A new scow was also built.

Amount of expenditure for staff maintenance and repairs for fiscal year ended 30th June, 1892:—

Staff and 1	maintenance expenses	\$13,374	22
Repairs at	Grand Mère	743	12
do	Shawinigan	1,209	07
do	Cap aux Corneilles	1,521	75
do	Entrance of the St. Maurice		72
	Total expenditure for 1891-92	\$17,355	88

The expenses for maintenance this year are \$3,344.31 less than those for 1890-91.

I have the honour to be, sir,

Your obedient servant,

F. X. THOS. BERLINGUET, Acting Superintending Engineer.

Louis Coste, Esq., Chief Engineer, Department of Public Works, Ottawa.

APPENDIX No. 7.

REPORT

ON THE

SAGUENAY SLIDE

FOR THE FISCAL YEAR ENDED 30TH JUNE, 1892.

APPENDIX No. 7.

SAGUENAY SLIDE.

DEPARTMENT OF PUBLIC WORKS OF CANADA, CHIEF ENGINEER'S OFFICE.

OTTAWA, 31st October, 1892.

Sir,—I transmit herewith a report by Mr. Joseph Rosa, Assistant Engineer on the Saguenay Slide for the fiscal year ended the 30th June, 1892.

> I have the honour to be, sir. Your obedient servant,

> > LOUIS COSTE. Chief Engineer.

E. F. E. Roy, Esq.,

Secretary, Department of Public Works.

QUEBEC, 15th August, 1892.

SIR.—I have the honour to report as follows with regard to works executed and the operations of the Saguenay Slide, during the fiscal year ended 30th June, 1892. Repairs of an ordinary character were made to the slide, booms and dams, and

timber, for the reconstruction of about 150 feet of the slide, was procured.

A channel was made on the east side of dam No. 6, to carry off the surplus water not required for the passing of timber and which flooded lands above the

A pier, 22 feet by 35 feet, was completed at Mistook, on the Grand Décharge, and 900 feet of booms placed in position. Three small piers respectively, 6, 8 and 12 feet square, were built for the purpose of fastening the booms, and 420 feet of new booms prepared.

The number of logs of various dimensions that passed through the slide during

the year was 24,814, composed as follows:-

23,909 spruce logs 12 to 14 feet. do 12 to 14 feet. 550 pine 126 spruce do 14 to 25 feet. 25 to 35 feet. do

> I have the honour to be, sir, Your obedient servant, JOSEPH ROSA. Superintendent.

Louis Coste, Esq., Chief Engineer

Dept. of Public Works, Ottawa.

[1892]

APPENDIX No. 8.

REPORT

OF THE

COLLECTOR OF SLIDE AND BOOM DUES

FOR THE FISCAL YEAR ENDED 30TH JUNE, 1892.

APPENDIX No. 8.

DEPARTMENT OF PUBLIC WORKS OF CANADA, CHIEF ENGINEER'S OFFICE, OTTAWA, 14th November, 1892.

No. 41218.

Sir,-I transmit herewith a report by Mr. E. T. Smith, Collector of Slide and Boom Dues, on the work of his office for the fiscal year ended 30th June, 1892.

I have the honour to be, sir,

Your obedient servant, LOUIS COSTE, Chief Engineer.

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

> DEPARTMENT OF PUBLIC WORKS, Collector's Office, OTTAWA, 11th November, 1892.

SIR,—I have the honour of submitting my report on that branch of the service committed to my charge, namely, the collection of slide and boom dues, during the fiscal year ending 30th June last.

OTTAWA DISTRICT.

Again this year the revenue accrued, as well as the collections compare un-

favourably with those of the preceding corresponding period.

The deficiency is largely attributable to the very small quantity of square timber taken to market as compared with the preceding year; the quantity taken to Quebec in 1890-91 being 121,704 pieces, and during the year ending 30th June last, there were only 17,908 pieces which passed through the works. number of saw-logs on which dues were chargeable was smaller by 777,064 pieces than in 1890-91, which shortage is accounted for partly by the withdrawal from the sawed lumber business of two large firms, and the saw-mill of another firm having been burned, caused the latter to reduce very considerably their output of logs.

Of the dues outstanding uncollected on the 1st July, 1889, there was recovered

during the past year \$2,035.96.

Of the dues accrued during the year ended 30th June, 1890, nothing remains

unpaid but the charges for Chaudière boomage, which are disputed.

On the 30th June, 1891, there remained unpaid of the dues of 1890-91, \$3,808.51, all of which has been collected but \$425.92, which is composed of \$397.50 secured on a raft of timber still unsold in Quebec and an account for \$28.42, which is in the hands of the Government solicitors for collection.

Of the dues of last year, there was outstanding unpaid only \$613.10, of which \$590.70 has been paid and the balance, an overcharge of \$22.40, written off since 30th

June last.

The total revenue for the year ending 30th June, 1892, from the Ottawa District, including interest was, \$44,380 80 Of which there was collected...... \$43,767 70 Leaving outstanding, 30th June, 1892.....

44,380 80

The collections were Of dues accrued do do	as follows:— during the fiscal year 189 do do 189 prior to 1st July, 1889	0-91	3,382	5 9
	·		\$ 49,186	25
Of dues accrued prior to th department Accrued during 1890 Accrued during 1891 Accrued during	nding unpaid on 30th June during year ending 30th de collection being transfer year ending 30th June, year ending 30th June, year ending 30th June,	June, 1889, red to this		•
Total out	standing	• • • • • • • • • • • • • • • • • • • •	.\$ 6 4 ,015	07

The amount outstanding at Quebec, on 1st July, 1889, viz., \$1,151.75, remains unchanged. Statement No. 5 herewith fully explains this matter.

Herewith inclosed are five statements relating to the Ottawa District, viz.:—

No. 1.—Statement of dues accrued on each of the slides and works on the Ottawa River during the year ending 30th June, 1892.

No. 2.—Statement of the number of pieces of timber, &c., which passed through the works during the same period.

No. 3.—Statement of slide and boom dues accrued from Ottawa River Works since 1st July, 1889, uncollected 30th June, 1892.

No. 4.—Statement of slide and boom dues outstanding on 30th June, 1889,

uncollected 30th June, 1892.

No. 5.—Statement of slide dues outstanding at Quebec, 30th June, 1889, uncollected 30th June, 1892.

ST. MAURICE DISTRICT.

The revenue accrued from this district during the past fiscal year was \$4,596.39.

The collections for the same period amounted to \$7,759.84.

The amount outstanding unpaid on 30th June last, was \$16,612.94, full details of which will be found in Statement No. 6 herewith.

Of the latter amount two accounts were transferred to the Department of Justice

for collection, viz.:—

Ross & Co., \$627.68, which was paid on the 5th inst., and Hall, Neilson & Co., \$1,440.90, regarding which I am not aware of the action taken, if any.

SAGUENAY DISTRICT.

On the 30th June last, the amount outstanding was \$8,900.03, Messrs. Price Bros. & Co. having paid on that date \$8,847.55, retaining the above balance on account of an alleged claim against the Fisheries Department. Payment of this balance has been demanded, and the firm has promised early attention to the matter.

NEWCASTLE DISTRICT.

During the past fiscal year no dues were collected from this district, the amount outstanding increasing to the sum of \$6,490.77 on the 30th June last. See Statement No. 8 for details.

Since the 1st July last, \$753.72 has been collected, and \$8.60 written off, besides the further sum of \$2,245.81 paid into the Exchequer Court by Messrs. M. Boyd & 150

Co., who are centesting the legality of the charge and the action taken to enforce payment of the same. Pending the decision in this case, it was deemed better not

to press for settlement of other accounts.

In conclusion I beg leave to say, that there is every indication that the revenue from the Ottawa and St. Maurice Districts will be largely increased in the near future, as a number of new and wealthy firms have begun, or will shortly commence operations on an extensive scale, and the loss caused by the withdrawals of other firms, as mentioned in the early part of this report, will be to a great extent compensated for by the revenue to be derived from the timber and saw-logs to be manufactured by the new firms.

At this writing, I may say that present indications point to a decreased output of square timber as compared with last winter, but on the other hand the quantity of saw-logs from which the bulk of our revenue comes will be largely increased.

I have the honour to be, sir, Your very obedient servant,

> EDWARD. T. SMITH, Collector of Slide and Boom Dues.

Louis Coste, Esq., Chief Engineer, Department of Public Works, Ottawa.

No. 1.—Statement showing the Dues accrued on each of the undermentioned Government Slides and Works on the River Ottawa, and its tributaries, during the fiscal year ending 30th June, 1892.

Name of River.	Name of Slide or other Improvement.	Accrued. to each slide.	Accrued to each river.
Ottawa	Rocher Capitaine slide Des Joachim do Calumet do Portage du Fort do Chats do Chaudière do Chaudière do Cheanus boom	\$ cts. 98 00 91 00 332 51 107 13 492 00 4,560 85 5,063 69	\$ cts.
Petawawa	Cedar Lake to Meno Rapids. New slide near Lake Traverse Lake Traverse, Front Lake Crooked Chute. Bois Dur to River Ottawa.	991 78 2,317 71 1,624 11 1,540 49 4,298 35	10,745 18
Madawaska	Ragged Chute and High Falls slide and improvements. Improvements below High Falls to Arnprior	8,084 00 2,338 71 941 87 1,163 03	,
Dumoine	High Falls slide		12,527 61
Black Řiver	Coulonge slide Black Riverslide Gatineau Boom		207 44 3,712 34 6,295 83
	Total		44,260 8

No. 2.—Statement of the number of pieces of Saw-logs, &c., that passed through the Government Slides and Works on the River Ottawa, and its tributaries, during the fiscal year ending 30th June, 1892.

White pine timber	14,961	pieces
sed do	2.947	do
flat, boom and dimension timber	10,453	do
Cound spruce	2.619	do
Dimension timber Jedars	47,473	do
Jedars	6,458	do
Callway ties	107.122	do
aw-logs	2.123,226	do
Sided timber, mixed	3,640	do
	l	
Total	2.318.899	do

also 3,778 cords pulpwood and 9 cribs traverses.

The revenue accrued on the above was \$44,260.82.

EDWD. T. SMITH, Collector of Slide and Boom Dues.

OTTAWA, 30th June, 1892.

No. 3.—Statement of Slide and Boom Dues accrued from the Ottawa River Works, since 1st July, 1889, outstanding on 30th June, 1892.

Remarks.	Chaudière boomage reported to Council and referred to the Treasury Board. Should be written off.
Total outstanding.	\$ Cfs. 1,203.25 1,203.25 1,203.25 1,203.25 1,57.25 2,23 2,24 2,24 2,24 2,24 2,24 2,24 2,24
Ordinary Dues.	\$ cts. 590 70 22 40 28 42 28 42 1,039 02
Chaudière Boomage in Suspense.	\$ cts. 2,561 69 2,056 96 1,203 26 1167 66 913 48
Year to C which Dues belong.	1889 90 1889 90 1889 90 1889 90 1880 91 1890 91 1890 91
NAME.	J. R. Booth The Bronsons & Weston Lumber Co. Perley & Pattee Wm. Mason & Sons Pierce & Co. Wm. Mason & Sons W. C. Edwards & Co. Theobert Groman Galler. Fraser, acct. of Thos. Stephens.

EDWD. T. SMITH, Collector of Slide and Boom Dues.

OTTAWA, 30th June, 1892.

6	Victoria.	Sessional Pa
54	, Remarks,	Insolvent. Overclaarge. Insolvent. do do do do do do do do do do do do do d
The rest of the latest and the lates	Year to which Dues belong.	1873 1876 1872 and 1873 1873 and 1874 1873 and 1874 1873 and 1874 1874 and 1875
	Total Dues Out- standing 30th June, 1892.	\$ cts. 53 14 53 14 53 14 51 30 148 10 261 42 600 90 528 80
	Other Slide and Boom Due dis- puted,	<i>i</i>
	Chaudière Boomage in Suspense,	ee ee
	Bad and Doubtful Debts.	\$ cts. 53 14 53 14 53 14 51 30 51 30 51 30 52 51 52 50 52 51 52 52 53 50 53 52 54 52 55 52 56 50 57 54 57 54 57 54
	By Whom Due.	John & Wm. McLean James Yull John Rowan Lemieux & Charrette Taillon & Lapierre Mosgrove & McHarry W. C. Wells Walton Smith.

	Insolvent.	Overcharge.	. Insolvent.	do	do	do	do	do	do	do	фo			do	els.	do do	do	Q	do	qo	\$398.88 counter claim damage by breaking of Coulonge Boom,	\$119.10 do do do do			Chaudiere Boomage—These parties claims that they have main	tained these works wholly at their own expense since 1881					rge.	do reported in return S. 38 for March 1886.	Overcharge.	
	Insc	:	:		1874	1874	1874	1875	1 1875	874	33, 1864,	1875 to		875 to 1877	:		1881	:		-				:	:	:	882	888		883	:	:	Ove	
	1873	Ξ.	_	1873	1873 and 1874	_	1873 and 1874	1874 and 1875	1874 and 1875	1871 to 1874	1861, 1863	1869,	1878.	1875 to]	1878	1877	1879 to 1881	1886	1882	1888.	1881 to 1888	1880 to 1888		1881 to 1885	1888	_	-		1884	=	=-	_	1881	
s cts.	53 14		342 50	22	148 10	261 42	96 909	528 80	171 46	3,507 92	9,807 65				546 39	11 25	1,558 50	73 50	30 G2	428 34	10,270 81	9,308 95	1 1 1	8,180 79	462 18		1,461 20	413 85	106	258 88	76 84		101	
es cts.	:	:						:	:		:				:	:			:	:	398 88	419 10			:			:		:	:	:		
& cts.	- :	:					:	:												:	9,871 93	8,889 85	1	8,180 79	462 18	1,060 59	1,461 20	413 85	77 90	258 88	:	:	- ::::::::::::::::::::::::::::::::::::	
et.	53 14	₹3 G	342 50	.13	148 10	261 42	06 009	528 80	171 46	3,507 92	9.807 65			70			1.558 50		39 OG	428 34				: : : : : : : : : : : : : : : : : : : :	:			:	:::::::::::::::::::::::::::::::::::::::		16 84	95 42	101 00	
	John & Wm. McLean	James Yuill	John Rowan	Lemienx & Charrette	Taillon & Lavierre	Mosorove & McHarry	W & Wells	Dufresne & McGarity	1 Walton Smith	89 H. Baldwin	7 Hon James Skead]		Batson & Currier	A. F. A. Knight	James Walker	R Campbell & Son	James (†. Bryson	Costello Bros.	N. F. Cormier.	John R. Booth	Perlev & Pattee	The Bronsons & Weston Lumber	Co	Pierce & Co	G. A. Grier & Co	Estate late L. Young	Wm. Mason	Gilmour & Co	John Rochester	J. & B. Grier	R. & W. Conroy	A. & P. White	

252 20 2885	56,073 00	
06 .	70 18	-1
₩ :	1,07	
252 20	31,005 54 1,070 18	
£ 33	23,997 28 31,005 54 1,070 18 56,073 00	
G. Bryson Idwell & Son. 4 33		

EDWARD T. SMITH, Collector of Slide and Boom Dues.

)rrawa, 30 thJune, 1882.

No. 5.—Statement of outstanding Slide Dues, Ottawa District, bonds for which were sent to Quebec for collection, remaining unpaid 30th June, 1892.

Name.	From 1860.	From 1861.	Total.
Hon, James Skead James Mair	\$ cts. 245 00 	\$ cts. 210 00 696 75 906 75	\$ cts. 455 00 696 75 1,151 75

These amounts were uncollected as the parties claimed damages for loss caused by the Madawaska Boom breaking away in 1860.

A decision on their claim was not arrived at until 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 their 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 included to the collector of slide dues, consequently their accounts remained in abeyance. insolvent at the time of their death.

EDWARD T. SMITH,

Collector of Slide and Boom Dues.

OTTAWA, 30th June, 1892.

No. 6.—Statement of Slide and Boom Dues from the St. Maurice Slides and Works, outstanding on 30th June, 1892.

Name.	Year to which Dues belong.	Amount.	Total.	Remarks.
		\$ ets.	\$ cts.	
George Baptist, Son & Co do do do Ross, Ritchie & Co do do do Alexander Baptist Hall, Neilson & Co. acc't,	1879 1880 1881 1882 1884 1888 1878 1883 1884 1886 1887	469 95 2,110 62 1,696 18 293 69 165 80 118 50 4 28 3,072 84 2,173 68 21 96 1 62 4 38	4,859 02 5,281 47 2,116 96	Have counter claims for damages to logs caused by the booms not being stretched early enough in the spring of 1878 to prevent the logs going over the chutes. These claims were submitted to special commissioner Mr. McDougall, afterwards judge, who after hearing the evidence on both sides recommended that the claims of the parties should be allowed.
Hall Brosdo do Ross & Codo	1886 1887 1888	750 46 690 44 624 60 3 08		Collector holds a bond from the Banque du Peuple for the amount.
William Ritchie & Codo do do	1889 1886	779 24 332 11 413 43 634 71	1,111 35	Refuse to pay—give no reason that I am aware of. Of this amount, \$754.20 is claimed to be an overcharge. This amount is composed of overcharges in 1886 and 1887 of \$842.76 and over payment in 1884.
J. A. Gagnon	. 1890		34 22 49 34 42 83 92	of \$205.38. I know of no reason why these amounts have not been paid.
Total	.		16,612 84	

To make this balance agree with the Public Accounts there should be deducted \$7.93 overcredited to Alexander Baptist, and \$217.17 added thereto being \$190.40 paid 23rd July, 1884, and \$26.77 overcharged in error to Wm. Little not in any of collectors returns—which will give balance due 30th June, 1892, of \$16,822.08.

OTTAWA, 30th June, 1892.

EDWARD T. SMITH.
Collector of Slide and Boom Dues.

No. 7.—SAGUENAY DISTRICT—Statement of Slide Dues accrued at the Saguenay, outstanding on 30th June, 1892.

Name.	Year to which Dues belong.	Amount.
Messrs. Price Bros. & Co	1877 to 1891.	\$ 8,900 03

OTTAWA, 30th June, 1892.

EDWARD T. SMITH, Collector of Slide and Boom Dues.

NEWCASTLE DISTRICT.

No. 8.—Statement of Slide and Boom Dues accrued on the Fenelon River Works, outstanding on 30th June, 1892.

Name.	Year to which Dues belong.	Amount.
J. M. Irwin D. Ullyott George Hilliard Greene & Ellis	1882 to 1884, 1886 to 1892 1881, 1882, 1883, 1885 to 1888 1881 to 1887 1887 to 1883, 1886 1880 to 1883, 1886 1880 to 1883, 1886, 1888 and 1889 1884, 1885, 1888, 1890 and 1891 1883 1882 1888 1889 1889 and 1892 1889 and 1892	\$ cts. 2,245 81 885 25 698 45 547 65 354 90 314 02 59 75 65 92 137 65 12 50 40 80 38 37 45 45
Sadler & Dundas The Rathbun Company McDougall & Ludgate Bigelow & Traunoe	1888, 1890 and 1891	7 20 81 17 376 32 65 07 216 21 215 08
		6,490 77

^{*} Insolvent.

OTTAWA, 30th June, 1892.

EDWARD T. SMITH, Collector of Slide and Boom Dues.

APPENDIX No. 9.

STATEMENT

SHOWING THE

NAMES OF THE OFFICIALS EMPLOYED

ON THE

SLIDES AND BOOMS OF CANADA

ON THE 30TH JUNE, 1893.

WITH

DATES OF APPOINTMENT, SALARIES, ETC.

APPENDIX No. 9.

howing Names, I	bates of Appointm	nent, Salaries, &c. 30th Jun	, of persons e, 1892.	employed on th	Statement showing Names, Dates of Appointment, Salaries, &c., of persons employed on the different Slides and Booms, on 30th June, 1892.	V ICTOL
Date of Birtl	n. Position.	Where Employed.	Date of Appointment.	Salary.	<u> </u>	ICU.
				s cts.		1003
v. 26, 18	Nov. 26, 1846 Collector	Ottawa	July 1, 1889	1,500 00 per annum.	1, 1889 1,500 00 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, 1500	
ril 30, 18	April 30, 1847 Assistant collector	op	Nov. 14, 1889 1,000 00	1,000 00 do	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, 5th January,	apers (1
ne 17, 18	June 17, 1830 Boatman	ор 	July 12, 1889	60 00 per month.	Employed during the season of navigation, for 8 months, each year. Date of first appointment, 26th May, 1861. Timber counter, Ottawa, for Dept. of Inland Revenue,	10. 0.
August 2, 1833	93 do	op	do 12, 1889	90 00 go	7th Jan., 1884, to 30th June, 1889. Employed during the season of navigation, for 8 months each year. Date of first appointment, 1st May, 1872. Assistant timber counter, Ottawa, for Dept. of Inland Reverence of the season of t	
Feb. 4, 18;	4, 1829 Collector	Three Rivers	do 12, 1889	200 00 per annum.	nue, i'th Jan., 1884, to John June, 1883. Date of first appointment to Dept. of Inland Revenue, 3rd May, 1886.	
t. 11, 185	Sept. 11, 1854 Superintendent.	Saguenay May do Oct.	May 19, 1881 Oct. 1, 1889	475 00 do 30 00 per month.	Suguency Works.—In addition to the Super- intendent, there are employed on the Sague- nay works, 4 flagmen, at 70c per day each during the passing of the logs through the, slides, which lasts one or two months.	A. 1033

Dor	AND VALUE OF THE	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	~~	
	00 per annum. 0 do do above officers, &c., there are employed above officers, &c., there are employed during the running season, one foreman of fig. and one assistant foreman at \$1.50 per day, also 25 to 30 labourers at from \$1 to \$21.40 per working day. 25 per day Actively employed about 7 months. 26 per day Actively employed about 7 months. Oper annum. Actively employed about 7 months.	8 88	55	tion. The first of the first o
50 00 per month. 47 09 do do 25 00 do do 25 00 do do 25 00 do do 3 00 per day 3 00 per day 30 00 do do 62 00 do do 35 00 do do 35 00 do do	100 00 per annum. 2,500 00 do 1,500 00 do 2,500 00 do 2,75 do 1,25 per day 1,200 00 per annum. 500 00 per annum.	2 00 per day 1 25 do 1 480 00 per annum. 2 50 per day 300 00 per annum. 1 300 00 do	456 25 do 480 00 do 180 00 do 1 25 do 40 00 do 1 00 per day 300 00 per annum. H	480 00 do 2 50 do 1 25 per day
1, 1886 55, 1881 1, 1886 1, 1879 1, 1872 1, 1872 1, 1872 8, 1892 8, 1892 8, 1892 8, 1892	Jan. 1, 1882 July 6, 1873 Oct. 1, 1884 Aug. 1, 1886 Jan. 1, 1888 May 1, 1888 April 1, 1891 March 21, 1891	1858 1877 1860 1882 1888 1888	1881 1880 1887 1879 1865 1889 1889	1874 1865 1872
F 8 17	. * .:. * . * .:.	March 1, do 27, July 12, May 15, March 10,	i. c. r., r., r., r., r., r., r., r., r., r.	, , ,
Aug. Dec. Dec. The April Dec. April Jan. Salaga Marcl Salaga	Jan. July Oct. April Aug. Jan. May April	March do July May March	Sept. Oct. 1 March 1 Oct. 1 Aug. Aug. July April 2 April 2 April 2	May
Three Rivers	Belreil Station Ottawa do do do Ottawa. de Carillon Gatineau	Chaudière. Hull. Chats. Arnprior. Springtown.	Portage du Fort. Black River Lower Petewawa. Moutain. Calumet Coulonge. Des Joachims	Rocher Capitaine Cheneaux
Paymaster	rict. Feb. 24, 1846 Superintendent. Ot do 15, 1880 Accountant. Tan. 72, 1865 Measurer. Tan. 28, 1864 Clerk. April 22, 1860 Measenger. April 22, 1860 Measenger. April 28, 1844 Deputy side master. Calluly 8, 1834 Deputy side master. Callune 17, 1847 Boommaster.	1829 Deputy slide master. Chaudière. 1818 do Chats. 1836 do Arnprior. 1859 Boom master. Springtown 1858 Slide master. High Falls.	1860 Deputy slide master Portage du Fort 1857 do	ი ი ი
7. 1833 7. 1845 89, 1831 — 1840 3, 1827	1846 1865 1864 1864 1846 1834 1834	1829 1818 1836 1831 1859 1859		
8 7 7 7 1 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1	b. 24 b. 24 15 17 28 17 28 88 88 88 88 89	2, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	4 5 5 6 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	es. 28,
July July Sept.	Fed GC App.	Nov. do Feb. May Mar. do	Jan. Aug. Aug. May. Sept. July May. Jan.	Aug. Nov.
St. Maurice District. Nap. Dagmeau. Cyriac Lymburner Jos. Page Jos. Boulard Louis Hamel Art. Rousseau Chas. Langlois Arth. Pellerin Jos. Desaulniers. Thos. LaRue Allex Taupin Jos. Brousseau. Richelieu District.	Azaire Bienvenue. Ottawa District. G. P. Brophy D. Scott. J. G. Scott. J. Kent. J. Kent. J. Kent. J. Mul. Cain 100. 101. 102. 103. 103. 104. 105. 105. 105. 105. 105. 105. 105. 105	J. Soulière J. McDonell D. McFarlane John Harvey Joseph McCrea Patrick Barry.	Duncan McLaren J. G. Poupore James Steen Rowan Wm. Thomson D. Carmichael A. Proudfoot H. R. Downey Jos Dufault Hugh Grant	A. McEwenA. H. Johnson

56	v ictoria.	Sessional	Papers (No.
MENT showing Names, &c., of persons employed on the different Slides and Booms-Concluded.	Remarks.	\$ cts. 1, 1884 800 00 per annum. Receives \$900 per annum from Department of Railways and Canals. 1, 1889 300 00 do	
on the different	Salary.	\$ cts. 800 00 per annum. 300 00 do 100 00 do 100 00 do 100 00 do	400 00 do 30 00 per month. 1 25 per day 1 25 do
s employed	Date of Appointment.		April 12, 1887 do 1, 1890 Sept. 1, 1885 do 1, 1885
mes, &c., of person	Where Employed. Appointment.	- 2	Burlingtondo
KENT showing Na	Position.	7 Superintendent Clerk, supt.'s office Slide master do do do	22 Ferryman. Burlington Asst. ferryman. do Lock keeper Yamaska
10.—State	Date of Birth.	Jan. 17, 185	April 1, 1832
APPENDIX No. 10.—STATE	Name.	R. B. Rogers Jan. 17, 1857 Superintendent. Peterboro'. G. H. Giroux Jan. 17, 1857 Superintendent. Peterboro'. Glenek, supt.'s office. do Chisholm Rapin. Vin. McArthur. do Buckhorn. F. Peake. do Heeley's Falls. Burlington Channel. do Heeley's Falls.	Thos. Campbell April 1, 1832 Ferryman. Burlington. April 12, 1887 S. Yamaska District. A Labbé. O. Mineau. Lock keeper A do 1, 1885 O. Mineau. Sept. 1, 1885
162	}		[1892]

R. STECKEL.

APPENDIX No. 10.

REPORT

ON

GOVERNMENT TELEGRAPH LINES

FOR THE FISCAL YEAR ENDED 30th JUNE, 1892.

APPENDIX No. 10.

GOVERNMENT TELEGRAPH LINES.

TELEGRAPH SERVICE OFFICE,

DEPARTMENT OF PUBLIC WORKS,

OTTAWA, 20th October, 1892.

Sin,—I beg'leave to submit the following report upon the Telegraph Service for the twelve months ended 30th June, 1892. The accompanying tabular statements of lines, operating staff, &c., established in the several districts, are the same as those appended to former reports, but contain amendments covering changes made in the course of the year.

I have the honour to be, sir, Your obedient servant,

D. H. KEELEY,

Acting Supt.

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

TELEGRAPH SERVICE-1891-92.

NEWFOUNDLAND.

The line from Port au Basque to Cape Ray has been operated, as heretofore, in conjunction with the Anglo-American Telegraph Company's system.

MARITIME PROVINCES.

The Meat Cove line (North Sydney to Meat Cove), the Magdalen Islands cable and land lines, and the cable to St. Paul's Island have been in good working order during the year. A section of the line from near Ingonish up to Meat Cove, a distance of about 50 miles, was repoled in November, 1891, by day's labour, under the supervision of Mr. D. Dunlop, the telegraph agent at Baddeck. The poles for this work were distributed along the line in June, as stated in last year's report. The construction of a loop line to White Point, contemplated last year, was post-poned, and it will be built in the course of the present season.

The Cheticamp line (Mabou to Cheticamp) and the Cape Sable line (Barrington to Cape Sable) have continued in satisfactory operation, and nothing beyond ordi-

nary repairs has been called for.

The Bay of Fundy system (Eastport to Campobello, Grand Manan and Whitehead Islands) was maintained continuously in good order as far as the land lines were concerned; but the cable connecting Grand Manan and Campobello which gave out on the 9th May, 1891, as mentioned in the last annual report, remained interrupted until repaired by means of the ss. "Newfield" on the 7th October. It has from that date continued in satisfactory operation.

[1892] 16**5**

RIVER AND GULF ST. LAWRENCE.

The Anticosti Island line was maintained in very efficient operation throughout the year. The cable from Long Point of Mingan to Mechastic Bay, in which an interruption had been located, as stated in last year's report, was repaired by means of the ss. "Newfield," on the 17th September, since when it has been doing good service. The cable from Gaspé to South-west Point has continued in good order. It had been slightly damaged by ice early in the spring and was repaired and more securely placed at the South-west Point landing when the "Newfield" was in the neighbourhood for the repair of the Long Point section.

The Escuminac line (Chatham to Point Escuminac) fell into disrepair and is being overhauled this season. With the exception of a few temporary interruptions

it has been in satisfactory operation.

The Grosse Isle quarantine line (Quebec to Grosse Isle) continued in satisfactory operation until the cable between Isle Reaux and Grosse Isle became interrupted on the 12th March by a movement of the ice formed during the winter. The damage was repaired on the 3rd May, since when there has been no trouble on this circuit.

The North Shore lines (Chicoutimi to Point Esquimaux) were in satisfactory operation throughout the year. The work of providing improved facilities for repairs along the line rorth-east of Manicouagan, where no roadway except the clearance made for the telegraph exists, has been carried a little further in the way mentioned in the last annual report, and after a few more river crossings are arranged for it will be practicable to effect repairs with promptness. As it is, the operation of this line has been maintained in a fairly reliable manner, and the establishment of an alternative route via Long Point and Gaspé affords an outlet for traffic when the westward line to Quebec happens to be interrupted.

ONTARIO.

The Bath-Amherst Island line, and the Wolfe and Howe Island lines continue in

the hands of the lessee, the North American Telegraph Company.

The Pelee Island line (Leamington to Pelee Island) which was interrupted on the 2nd June last year, as mentioned in the last annual report, was found on examination to need a complete overhauling of the circuit and telephonic apparatus. The cable was repaired by means of a tug-boat on the 26th August. The line was subsequently put in proper order, and arrangements made for an improved service which has since then been found to give better satisfaction.

NORTH-WEST TERRITORY.

The lines from Qu'Appelle to Edmonton, and from Moose Jaw to Wood Mountain have been maintained and operated satisfactorily.

The line from Dunmore to Fort Macleod has continued in the hands of the

lessee, the North-west Coal and Navigation Company.

There was no construction work done in this district during the past year. The proposed line to Cannington, for which a sum was voted, will probably be dealt with in the course of the present season.

BRITISH COLUMBIA.

The Cape Beale line (Victoria to Cape Beale) proved unsatisfactory with its telephonic equipment, and an arrangement was made whereby telegraphic apparatus was substituted therefor, and the line has been operated since the 1st October last in conjunction with the telegraph system of the Canadian Pacific Railway, in the same way as the Barkerville line (Ashcroft to Barkerville) has been operated for some years past. Under this arrangement the department reimburses the company for the expense, in excess of revenue, that is incurred for maintenance and operation of these two lines.

The Comox line (Nanaimo or Wellington to Comox) for which provision was made in the estimates for the past year, is now in course of construction under a contract entered into with Mr. D. J. McLachlin, of New Westminster.

166 [1892]

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:—

	Revenue.	Expenditure.	Remarks
Lower St. Lawrence and Maritime Provinces:	\$ cts.	\$ cts.	
Anticosti Island lines	597 27	3,434 21	
Bay of Fundy do	567 87	2,662 66	
Cape Ray do	Nil	250 00	
Cape Sable do	52 40	422 95	
Cheticamp do	$296\ 55$	1,098 86	
Escuminac do	169 87	613 61	
Low Point do	Nil	50 00	
Magdalen Islands do	507 27	3,113 27	
Meat Cove do	1,393 70	1,930 27	
North Shore of St. Lawrence (E.B.) line	1,108 47	6,370 58	
do (W.B.) do	2,566 60	4,260 47	
Quarantine line Subsidies, stationery, line and office material, cable repairs and contingencies chargeable to the appro-	561 10	605 26	
priation for Gulf lines		3,395 88	
	7,821 10	28,208 02	
Ontario: Pelee Island line	182 56	705 09	
	8,003 66	28,913 11	
Forth-west telegraph lines	2,211 75	19,959 61	
Total.	10,215 41	48,872 72	

D. H. KEELEY,
Acting Supt. Government Telegraph Service.

OTTAWA, 20th October, 1892.

GOVERNMENT TELEGRAPH SERVICE.

NEWFOUNDLAND TELEGRAPH SYSTEM.

.oN	Stations	Intermediate Distances.	Operators.	Salaries per Annum.	Date of Appointment.	Мемо.
		Miles.		◆ cts.		
1 P	Port au Basque	0		50 00 or com'n		N.B.—The commission is 25 per cent upon all busi-
7 7	2 Cape Ray Lighthouse	71		50 00 do		ness to and from the office; said commission guaranteed not to be less than at the rate of \$50 per annum.
	Totals	14		100 00	,	Totals

168

ANTICOSTI TELEGRAPH SYSTEM, ANTICOSTI ISLAND SERVICE.

Мемо.	\$ cts. 50 00 or com'n Nov. 1, 1888. N.B.—The commission is 25 per cent on all business to and from the office; and commission guaranteed not to be less than at the rate of \$50	26, 1881. 1, 1888. 7, 1881. 1, 1891. General repairer. Plus \$1 per day when absent on	 18, 1880. Chief operatar since 1st Angust, 1882. 1, 1882. District superintendent. Plus \$1 per day when absent on duty. 	1, 1886. 1, 1881. Norr—A special allowance for maintenance of office 350 per annum, has been added to the commission for offices marked* since Sentember. 1875.			N.B.—A special allowance for the cable terminus. A testing station only.	
Date of Appointment.	Nov. 1, 1888.	July 29, 1881. Oct. 1, 1888. July 7, 1881. do 1, 1891.	Oct. 18, 1880 Aug. 1, 1882.	Oct. 1, 1886. Aug. 1, 1881. July 1, 1882.			Oct. 16, 1881.	•
Salaries per Annum.	\$ cts. 50 00 or com'n	22	- op op op		1,160 00	GASPÉ SECTION.	17 00 do	200 00
Operators.	J. Stubbert.	T. Gagne. A. Nadeau B. Bradley J. Carbray	Miss (f. Pope E. Pope	M. Duguay A. Malouin F. Cabot	· Talenton	GA	N. Bernier	
Intermediate Distances.	Miles.	<u> </u>	15	17. 22. 22. 10. 14. 3	214		88	88
Stations.	1 *Fox Bay	Heath Point lighthouse South Point Lighthouse. *Shallop Greek.	6 South-west Point lighthouse	9 Other River 9 *Beescie River 10 Cape Eagle (Ellis Bay) 11 West Point lighthouse. 12 *English Bay	Totals		1 L'Anse à Fougère	
.oV	-	64 to 4 to	[1892]] -∞⊕8 <u>∓8</u>			- 2	

GOVERNMENT TELEGRAPH SERVICE—Continued.

MAGDALEN ISLANDS TELEGRAPH SYSTEM.

MAGDALEN ISLANDS SECTION.

Мвмо.		50 00 or com'n. Oct. 1, 1882. N.B.—The commission is 25 per cent on all business to and from the office; said commission garannteed not to be less than at the rate of \$50	June 11, 1881. Dec. 1, 1881. Plus \$20 per annum for rent. General line repairer. Sept. 1, 1891. 2-wire loop.	Plus \$1 per day when absent on duty.		
Date of Appointment.		Oct. 1, 1882.	June 11, 1881. Dec. 1, 1881. Sept. 1, 1891.	Aug. 9, 1889. do 17, 1880. June 1, 1888.	June 1, 1888. Feb. 18, 1882.	`
Salaries per Annum.	s cts.	50 00 orcom'n.	50 00 do 50	9	200 00 50 00	1,400 00
Operators.		Miss J. Shea	Wu. Cormier P. Pelletier N. Arsonault	W. Lesure. A. LeBourdais, D. Supt. P. L. Joncas	N. Clark Mrs. F. Aikins	
Intermediate Distances.	Miles.	0	e E	x 2	1112	833
STATIONS.		Amherst	2 Amherst lighthouse.		Grand Entry	Totals
.oV		-		ອ ຜ 89 2]	- 20 G	

MAGDALEN ISLANDS TELEGRAPH SYSTEM. CAPE BRETON SECTION.

	n all business to sion guaranteed Ko per annum. Pated and main. graph Company, f.
Мвио.	7, 1880 N.B.—The commission is 25 p. c. upon all business to and from the office; said commission guaranteed it 1882 not to be less than at the rate of \$50 per annum. 1, 1887 Nore.—This line is at present operated and maintained by the Western Union Telegraph Company, 1, 1889 1, 1889 1, 1884 1, 1885 1, 1885 1, 1885 1, 1885
of ment.	7, 1880 1, 1887 1, 1887 1, 1889 1, 1889 1, 1889 1, 1885 1, 1885 1, 1885 1, 1885 1, 1885 1, 1885
Date of Appointment.	
Salaries per Annum.	# cts. 120 00 Nov. 50 00 or comin Aug. 50 00 do April 50 00 do April 50 00 do Jan. 50 00 do Jan. 50 00 do Jan. 50 00 do Jan.
Operators.	A. B. McDonald R. G. Zwicker M. McLecd J. M. Brewer F. G. Brewer John McDonald Miss C. Morrison Miss Bundop Miss Binghan Miss Binghan Miss F. Livingston
Intermediate Distances.	Miles. 0 104 154 194 195 195 196 197 198 188 188
Stations.	1 Meat Cove (Cable Station). 2 Aspy Bay. 3 Neil's Harbour (A-way house.) 4 Ingonish, North Bay. 5 South Ingonish. 6 French River. 7 St. Ann's, South Bay. 8 Baddeck, (Loop Line). 9 Englishtown. 9 Englishtown. 10 Kelly's Cove, (N. Campbelton). 11 Big Bras Cove. 12 North Sydney. 13 Totals.
.oV	1 8 8 769686212 [1892]

GOVERNMENT TELEGRAPH SERVICE—Continued.

NOVA SCOTIA TELEGRAPH SYSTEM.

CAPE SABLE SECTION.

. Мемо.		W. U. Tel. Co.'s Agent 50 00 or com'n. Dec. 18, 1883 N.B.—The commission is 25 per cent upon all business	or and troff the offices ; san commission guaranteed to be not less than at the rate of \$50 per annum.	1883		
Date of Appointment.		Dec. 18,	do April 1, 1889	do Dec. 18, 1883		SECTION
Salaries per Annum.	* cts.	50 00 or com'n	50 00 do	50 00 do	150 00	TOW POINT CAPE BRETON SECTION
Operators,		W. U. Tel. Co.'s Agent	Miss E. A. Smith	63 I. K. Doane		TVIOW POINT
Inter- mediate Distances.	Miles.	0	11		<u>*</u> 21	
Stations,		Barrington	2 Newellton (including 13 miles cable)	3 Cable Sable Island lightheuse (including 4 mile cable)	Totals	
No.		-	20	ຫ [18:	92]	

-	Lingan	c		50 00'or com'n	n'n	:	N. B.	N.B.—The commission is 25 per cent upon all business
23	2 Low Point lighthouse	τĊ	S. Peters	. 50 00 d	do Aug. 1, 1881	1	1881	anteed not to be less than at the rate of \$50 per annum.
}	Totals	5		100 00				

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.

line tariff receipts, and is guaranted to amount to not less than \$50 per annum. This amount is paid for supervision of the line and office accommodation at Chatham. The commission is 25 per cent of the Government line tariff receipts, and is guaranteed to amount to not less than \$50 per annum. 50 00 or com'n. April 1, 1887 N. B.—The commission is 25 p. c. of the Government MEMO. TELEGRAPH SYSTEM MABOU-CHETICAMP, C.B., TELEGRAPH SYSTEM. March 1, 1892 April 1, 1887 1, 1889 1, 1885 March 1, 1885 1, 1891 1, 1885 Appointment. : Date of Jan. April Sept. .. Aug. Feb. 50 00 or com'n. Salarics per Annum. œ. ခု ટ ę ခု ခုခု ခုခ္ cts. CHATHAM-ESCUMINAC, N. 50 00 00 50 50 00 20 00 02 8 8 8 . 281 8 135 Great North-western Telegraph Co. Mrs. Annie McLellan.. Mrs. M. A. McLellan.. Miss B. M. Ross...... Mrs. M. Fiset... Miss M. Williston 11. W. Philips, jun V.rs. A. Lewis..... Mrs. M. McDonald Mrs. M. Brimner. Operators. Inter-mediate Distances. 5 뜑 0 18 16 0 := 2 Miles. 8 15 3 Cheticamp..... Loop Line wire. Point Escuminac lighthouse... Baie du Vin Lower Hardwicke Totals Escuminac..... STATIONS. Broad Cove..... Mabou Totals. Black Brook. ·oN 9

[1892]

GOVERNMENT TELEGRAPH SERVICE—Continued.

BAY OF FUNDY, N.B., TELEGRAPH SYSTEM.

GRAND MANAN SECTION.

Мвио.	Nov 18, 1880 N.B.—The commission is 25 p.c. upon all business to and from the office; said commission guaranteed do 1, 1889 not to be less than at the rate of \$50 per annum. April 1, 1885 and the said office closed 30th November, 1889. May 1, 1891 Southern Head office closed 30th November, 1889. C. Feb. 1, 1891
Date of Appointment.	do 1, 1889 April 1, 1885 April 1, 1887 May 1, 1891 May 1, 1891 Abc. 1, 1891
Salaries per annum.	or com'n per annum do do do or com'n
Operators.	Mrs. C.C. Seely (D. Supt.) 420 00 Miss J. S. Daggett 50 00 E. Cameron. 50 00 P. Russell 50 00 D. McKay, repairer. 60 00 W. Cheney. 60 00 E. Carroll. 60 00 Solve the control of the
Inter- mediate Distance,	Miles.
Stations.	Long Eddly Cable Hut, to 1 Flagg's Cove. 2 Woodward's Cove. 3 Grand Harbour. 5 Southern Head lighthouse. 6 Grand Harbour. 6 Cheney's Island (3 mile cable). 7 Whitehead Island (3 do). Totals.
.oV	H 0840 0F

CAMPOBELLO SECTION.

•	831	
	ay 1, 18 3c. 26, 18	
	100 00 or com'n May 1, 1890 100 00 Dec. 26, 1881	200 00
	M. A. BatsonJ. Cushing	
	-to-to	œ
Liberty Cove Cable Hut, to	2 Eastport, Maine, U.S.A.	Totals

GOVERNMENT TELEGRAPH SERVICE—Continued.

GROSSE ISLE QUARANTINE TELEGRAPH SYSTEM.

MRMO. This amount is paid for supervision of the line, and covers rent of pole line from Quebec to L'Ange (fardien, for which \$35 per annum is charged.	This commiss line tarif	200 milio - 1534
Date of Appointment.	Mar. 1, 1885	Oct. 1, 1887 Sept. 15, 1888 July 1, 1888 Mar. 1, 1885 Sept. 1, 1885
Salaries per Annum. \$ cts.	50 00 or con'n Mar. 1, 1885 This commission is 25 per cent of the Government line tariff, and is guaranteed to amount to not less than £50 rer annum.	25 00 00 00 00 00 00 00 00 00 00 00 00 00
Operators. Great North-western Telegraph Co.	C. Turcott	Mrs. Blais M. Gobeil P. Pouliot M. Emond M. Langlois (Telephone)
Inter- mediate Distances. Miles.	13	44. 20. 41. 14. 19. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10
Stations.	L'Ange Gardien. 2 St. Pierre (‡ mile cable)	3 Ste. Petronille 4 St. Laurent 5 St. Jean 6 St. François (including 4 miles 7 Grosse Isle quarantine office 8 do hospital Total.

[1892]

175

GOVERNMENT TELEGRAPH SERVICE—Continued.

CHICOUTIMI AND NORTH SHORE OF ST. LAWRENCE TELEGRAPH SYSTEM.

CHICOUTIMI SECTION.

Мемо.	Previous to The commission upon business is 25 per cent of the April 1, 1885 Government tolls of the line; the amount guardo anteed to be not less than \$50 per annum. May 15, 1887 Jan. 1, 1889 April 28, 1886		1, 1885 1, 1888 1, 1889 1, 1889 1, 1880 1, 1880 1, 1880 1, 1890 1, 1890 1, 1890 1, 1890 1, 1890 1, 1892 1, 1888 1, 1892 1, 1889 1, 1885 1, 188
Date of Appointment.	* (Previous to (April 1, 1885) do May 15, 1887 1, 1889 April 1886 do 28, 1886	N.	66 d 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
Salaries Per Annum.	\$ cts. 50 00 or com'n* (Pre- 50 00 or do 50 00 do 50 00 or com'n Jan. 50 00 do 50 00 do 720 00	NORTH SHORE SECTION.	50 00 or com'n* { April 50 00 do June 50 00 do June 50 00 do June 50 00 do June 100 00 do June 100 00 or com'n Nov. 50 00 do Nov. 50 00 do April 50 00 or com'n April 50 00 do April 50 00 do April 50 00 do April 50 00 do April 50 00 do April 50 00 do
Operators.	F. Boivin. A. Boivin. A. Gauthier (repairer). O. Pelletier. A. Simard. D. Boily.	NORTE	Mrs. F. Vincent N. Duchesne A. Brassard D. Gaudin G. Savard G. Bouillenne J. R. Caron M. Savard J. R. Caron M. Savard J. H. Curon J. H. Curon J. A. Puise J. A. Puise
Inter- mediate Distances.	Miles. 0 9 37 31 111 92		0 427.48 7 858888 2
Stations.	1 Bay St. Paul. 2 St. Urbain 3 La Cruche 4 St. Alexis 5 St. Alphones de Bagotville 6 Chicoutini Total		Murray Bay Cap à L'Aigle. Ste. Fidele. Port an Persil. St. Simeon. Baie des Rochers. Riv. aux Canards J. Loop Line. St. Ktienne. Tadousac (14 mile cable). Bergeronnes. Escoursains. Baie des Bacons. Mille Vaches.
No.	[1892]		1 2 8 4 7 5 5 6 5 1 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1

	entrum of Commission.
1, 1889 1, 1, 1887 1, 1, 1887 1, 1, 1, 1883 1, 1, 1, 1888 1, 1, 1, 1889 1, 1, 1, 1889 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	
. . =	
com in somina annum annum com in co	
#20 00 or com n. July 420 00 or com n*. Dec. 50 00 or com n*. Dec. 50 00 or com n. Dec. 50 00	
Accept 128 aires 129 50 60 60 60 60 60 60 60 60 60 60 60 60 60	
Bouchard 50 00 Courbron (repairer) + 29 00 Forrest 50 00 Forrest 50 00 Coullet 500 00 Coullet 50 00 Faffard 50 00 Faffard 50 00 Faffard 50 00 Formeau Accommodition 50 00 Forright 180 00 Forright	
E. Gouchard F. Courbron (rep. J. Forrest F. C. Ouillet F. C. Ouillet F. C. Ouillet F. C. Ouillet F. Paffard F. Poulin F. Faffard F. Poulin F. Furnault F. Wignault F. Wignault D. Porlier F. Vignault D. Porlier F. Vignault D. Porlier F. Wignault F. S. Wignault F. S. Wignault F. S. Wignault F. S. Wignault F. S. Wignault F. S. Wignault F. S. Wignault F. S. Wignault F. S. Wignault F. S. Wignault F. S. Wignault F. S. Wignault F. S. Wignault F. S. Wignault F. S. Wignault F. S. Wignault W. J. Maloney	A department of
PZHECHEHARIHENIN H H	- i
* - * * * * * * * * * * * * * * * * * *	496
15 Portneuf light 16 Sault au Cochon 17 Betsiamits 18 Poince aux Outardes (cables) 19 Poince Paradis, Manicouagan 20 River Godbout (cable) 21 Pointe des Monts 22 Trinity Bay West 23 Trinity Bay West 24 Caribon Islands 25 Fentecost River 26 Ste. Marguerite 27 Seven Islands. 28 River Moisie 29 Sheldrake 30 Thunder River 31 Magpie 32 Subdont River 33 Long Point 34 Mingan	Total
and the second second and a second se	F100

Norm. In the estimates the maintenance of the Chicoutimi and North Shore lines is provided for under head of North Shore Line. They are operated conjointly.

[1892]

GOVERNMENT TELEGRAPH SERVICE—Continued.

SYSTEM.
TELEGRAPH !
PELEE ISLAND
ONTÀRIO: PEI

Мемо.	\$50 Nov. 1, 1888 Accountant and general agent. Gomen. 25 p. c April 1, 1889 The conmission is upon the receipts for the Governdo Nov. 1, 1888 Ment line. Governdo Nov. 1, 1888 Gove
Date of Appointment	Nov. 1, 18884 April 1, 18891 Dec. 1, 1890 Nov. 1, 1888 do 1, 1888 do 1, 1888
Salaries per Annum.	\$50 Comsn. 25 p. c do do do
Agents.	J. McR. Selkirk
Intermediate Distances.	25 11 12 32 32 32 32
Stations.	Leamington 2 Club House 3 Point House Cable to Island 4 North Point Lighthouse (½ mile loop). 5 North dock 6 West dock 7 South dock 7 Total
.oV	19k 4 79b

This line is operated with telephones.

LINES IN THE NORTH-WEST TERRITORY. QU'APPELLE-EDMONTON SECTION.

Мемо.	The office at Edmonton has been operated jointly with the C.P. R. Tel. Co. since 1st January, 1892. Before that date the salary charge was \$720 per annum. * The St. Albert branch line is operated with telephones.
Date of Appointment.	Jan. — 1883. Mar. 1, 1885. Nov. 1, 1883. Jan. 1, 1884. Jan. 1, 1886. Oct. 1, 1886. Augr. 1, 1891. July 1, 1891. July 1, 1891. July 1, 1891. Pec. to 1887. Pec. to 1887. May 1, 1886. May 1, 1886.
Salaries per Annum.	* cts. 729 00 600 00 600 00 600 00 600 00 729 00 729 00 729 00 729 00 729 00 729 00 729 00 729 00 729 00 729 00
Operators.	E. W. Warner. Miss E. Johnston. A. Guimon. C.P. R. Tel. Co's J. Harrington, repairer W. Salsbury, repairer W. Salsbury, repairer H. Sikes, repairer J. F. Lake, repairer L. Proard, repairer L. Proard, repairer L. Proard, repairer L. Proard, repairer M. G. Gillis, repairer W. G. Gillis, repairer W. G. Gillis, repairer W. G. Gyllis, repairer W. G. Ross, agent M. McKay, repairer
Intermediate Distances.	Miles. 17.0 17.0 18.5 19.0 19.0 19.0 19.0 19.0 19.0 19.0 19.0
STATIONS.	1 Qu'Appelle 2 Fort Qu'Appelle 3 Touchwood 4 Humbolt 5 Saskatoon (14 miles loop). 6 Henrietta do 7 Battleford 19 Moose 10 Saskatohe Lake 11 Victoria 12 Fort Saskatchewan 13 Edmonton 14 St. Albert 15 Fortal 16 Fortal 17 Fotal 18 Fortal 19 Fortal 19 Fortal
No.	[1892]
Q191	- - .

179

GOVERNMENT TELEGRAPH SERVICE—Continued.

NORTII-WEST TELEGRAPH LINES.—WOOD MOUNTAIN AND FORT MACLEOD SECTIONS.	Мемо.	The Fort Macleod line has been leased to the Northwest Coal and Navigation Co.	240 00 June 1, 1885 The Wood Mountain line has been operated by telephone do 1, 1890 since May, 1899.	
VIN AND	Date of Appointment.		June 1, 1885 do 1, 1890	
OD MOUNTA	Salaries per Annum.	◆ cbs.	240 00 180 00	-
APH LINES.—WC	Operators.		J. M. Rutherford	
l Telegr	Intermediate Distances.	Miles. 107 284 284	0 0 90 ⁵	2264
NORTH-WEST	STATIONS.	Fort Macleod Line—Galt Junction. Calt Junction. Leth pringe. Macleod Fort Macleod	Wood Mountain Line— Moose Jaw Wood Mountain	Total
	N.	-2004	≈ [189	2]

GOVERNMENT TELEGRAPH SERVICE IN BRITISH COLUMBIA.

ASHCROFT—BARKERVILLE.

Мвио.	This line is now operated by the Canadian Pacific Railway Co. for the Government. The arrangement being terminable at any time.	This line was leased for 99 years to Mesers. J. A. Laidlaw and J. Wilson, on the 30th October, 1387.	ALE. Nov. 1, 1891 This line is operated by the Canadian Pacific 60 do Railway Co, for the Government. The 60 do arrangement being terminable at any time. 60 do 6
Date of Appointment.	Feb. 16, 1885. do 1883. May 1, 1889. June 1, 1866. April 28, 1882. Feb. 17, 1873.		Nov. 1, 1891 do do do do do do do do do do do do do
Salaries per Month.	\$ cts. 60 00 Feb. 50 00 May 60 00 June 47 00 April 83 33 Feb.		APE BEALF 20 00 60 00 55 00 60 00 45 00 45 00 15 00
Positions.	aph. Operator and repairer do do do do do do do do do do do do do d		Operator and repairer 55 00 00 00 do do do do Bepairer, West 55 00 00 00 do do Bepairer, West 55 00 do do Best 55 00 do do do Best 55 00 do do do do do do do do do do do do do
Names.	C. P. Ry. Telegraph. H. L. Good J. A. Le Bourdais. W. Walker H. Yeates Miss I. Barlow Jas. Stone		V. P. Ry. Telegraph. Operator. Bd. Gordon
Inter- mediate Distances.	Miles. 0 26 78 78 54 54 13	2764	0.8008 42 88 1811
OPPICE.	Ashcroft Station Cache Creek Clinton Bridge Creek Soda Creek Quesnelle Stanley Barkerville	Branch. Zoley Westminster. Ladner's Landing (4 mile cable). Total	Victoria Ottean River Jordan River Port San Juan Carmanah lighthouse Cape Beale

APPENDIX No. 11.

NATIONAL ART GALLERY

CURATOR'S REPORT

FOR THE FISCAL YEAR ENDED 30th JUNE, 1892.

APPENDIX No. 11.

NATIONAL ART GALLERY.

CHIEF ARCHITECT'S OFFICE,
OTTAWA, 5th December, 1892.

National Art Gallery.

Sir,-I have the honour to report the following additions received during the fiscal year ended 30th June, 1892:—

Oil painting "Twilight," by Miss M. A. Bell. Oil painting "Marine," by Franklin Brownell.

The above pictures were purchased by the Government.

Life-size bust of L. R. O'Brien, R.C.A., by Hamilton McCarthy, R.C.A.

This bust was handed over to the Gallery by the Royal Canadian Academy, in compliance with Act of Incorporation of that Society, which requires each newly elected Academician to deposit his diploma work in the National Gallery.

20,026 visitors have registered their names during the fiscal year.

I have the honour to be, sir, Your obedient servant,

JOHN W. H. WATTS.

E. F. E. Roy, Esq.,

Secretary, Department of Public Works.

APPENDIX No. 12.

NAMES OF THE CHIEF OFFICERS

OF THE

DEPARTMENT OF PUBLIC WORKS

WITH DATE OF APPOINTMENT, &c.

FROM

1841 to 1893.

APPENDIX No. 12.

The names with the date of appointment, &c., of the principal Officials of the Department of Public Works, from 1841 to 1893.

Names.	Capacity or Office.	Da	te of Ap Ser	pointm ved.	ient.
A dilico.	Capacity of Office.	Fr	om.	7	Го
Under Statute 4-5 Vic., Cap. 38.		· 			
Corporation Board of Works.					
Killaly, Hon. H. H	Chairman		00.1041	0.1	0.4044
Davidson, J., Eso	Memoers	Dec.	29, 1841	Oct.	3, 1844
Keefer, Samuel.	Secretary	Aug. do	17, 1841 17, 1841		
New Board of Works.	Architect and Assistant Chief Engineer	Dec.	15, 1841		
Killaly, Hon. H. H	Chairman				
Daly, Hon. D. Draper, Hon. W. H. Morris, Hon. W. Papineau, Hon. D. B.	Members	Oct.	5, 1844	June	8, 1846
Under Statute 9th Vic., Cap. 37, &c.					
Robinson, Hon. W. B. Taché, Hon. E. P. Chabot, Hon. J.	do	March Dec.	11, 1848 15, 1849	Nov. March	10, 1848 26, 1849 31, 1850
Merritt, Hon. W. H. Bourret, Hon. J. Young, Hon. John	dο	April Feb. Oct.	20, 1850 15, 1851 28, 1851	Oct.	11, 1851 27, 1851 22, 1852
Chabot, Hon. J. Lemieux, Hon. F. Alleyn, Hon. C	do	Jan.	23, 1852 27, 1855	Nov.	26, 1855 25, 1857
Sicutte Hon T. V	do	Aug.	28, 1857 2, 1858 6, 1858	do	1, 1858 6, 1858 10, 1859
Cauchon Hon Jon	Commissioner	Jan. June	15, 1859 15, 1861	May	12, 1861 23, 1862
Tessier, Hon. U. J. Drummond, Hon. L. T. Laframboise, Hon. M.	dodo do	do	24, 1863 28, 1863 23, 1863	July	27, 1863 23, 1863 129, 1864
Casorain Hon Chan Fine	do	March	30, 1864	June	30, 1867
Wetenhall, John Bournet Hon Jon	do	Feb.	11, 1848 2, 1850 20, 1850	4	
Reefen C	Deputy Commissioner	Feb. May	15, 1851 6, 1859		
Begly, Thomas A	Secretary do	Sept.	15, 1864 25, 1847 13, 1859	1	
Braun, Frederick Page, John	_د ا	1 3 / 1		il .	2, 189

APPENDIX No. 12.—The names with the date of appointment, &c., of the principal Officials of the Department of Public Works, from 1841 to 1893—Concluded.

Names.	Capacity or Office.	Date of Appointment Served.					
- Traines.	Capacity of olice.	F	rom.		То,		
Under Statute 31 Vic., Cap. 12.							
McDougall, Hon. Wm	Minister	July	1, 1867	Oct.	, 1869		
Langevin, C. B., Hon, Hector L	do		8, 1869	Nov.	5, 1873		
McKenzie, Hon. Alexander	do	Nov.	7, 1873	Oct.	16, 1878		
Tupper, C.B., K.C.M.G., Sir Charles	do	Oct.	17, 1878	May	20, 1879		
Langevin, C.B., K.C.M.G. Sir Hector L	do	May	20, 1879		8, 1891		
Smith, Hon. Frank		Aug.	14, 1891		11, 1892		
Ouimet, Hon. Joseph Aldric	Minister	Jan.	11, 1892		,		
Trudeau Toussaint	Deputy Minister	July	1, 1868				
Baillairgé, G. F	do	Oct.	4, 1879	Dec.	18, 1891		
Gobeil, A	do	Dec.	18, 1891				
Chapleau, S	Secretary	Oct.	4, 1879				
Ennis, F. H	do	Nov.	4, 1880				
Gobeil, A	do	Jan.	23, 1885	Dec.	18, 1891		
Rov. E. F. E	do	Dec.	18, 1891		,		
Roy, E. F. E	Assistant Secretary	do	18, 1891				
Perley, H. F	Chief Engineer	Nov.	25, 1880		21, 189		
Baillairgé, G. F	Assistant Chief Engineer	July	5, 1871		4, 1879		
Coste, Louis	Chief Engineer	do	26, 1892		-, 10.		
Scott, Thos. S	Chief Architect	Feb.	7, 1872				
Fuller, Thomas		Oct.	31, 1881				

APPENDIX No. 13.

LIST

oF

ENGINEERS, ENGINEMEN, FIREMEN AND CARETAKERS

EMPLOYED IN THE

PUBLIC BUILDINGS THROUGHOUT THE DOMINION ON THE 30TH JUNE, 1892

GIVING

Date of Appointment, Salary Paid, &c.

822 823 823 823 823 824 835 847 847

Nov.

Martin Lambert...... James Brazil.

J. A. Melançon ... R. B. Adams

Post office.... Public building.... Dominion building.

Bathurst.

Chatham.....Carleton, St. John.

Oalhousie....

Moneton... Fredericton Newcastle

Montague. Summerside....

ಕಿಕಿಕಿಕಿಕಿಕಿ

as. R. Reid Jas. Perkins Wm.

March

Zo. APPENDIX

Fotal Salary cts. STATEMENT showing the Engineers, Enginemen, Firemen, Caretakers, Hoist Attendants and Watchmen employed at the Dominion 8888888888888888888888888 per Annum. : : per Annum employed Time per Month. Salary 262662222222222222222222222222 4888888888888822830°8888 99 Appointment. 1887 1886 1871 1871 Date of 1834 Frieman
1822 Caretaker
1822 Caretaker
1834 Watchman
1838 Caretaker
1839 do
1845 do
1845 do
1845 do
1845 do
1845 do
1845 do
1845 do
1845 do
1845 do
1848 do
1848 do
1848 do
1848 do
1848 do
1848 do
1848 do
1848 do
1848 do
1848 do
1848 do
1848 do
1848 do
1848 do
1848 do
1848 do
1848 do
1848 do
1848 do
1848 do Engineer 1826 Messenger. Position. 1868 Fireman 1824 Caretaker 1820 do Caretaker Public Buildings on 30th June, 1892. ಕಿಕಿಕಿಕಿ 14, 1868 28, 1826 18, 1873 Date of Birth Sept. 15, 1 June 9, 1 డ్ల ^{ప్ల} బ్లోట్లో టెట్ట్ల March Nov. Aug. June Dec June June Geo. Robson.
N. H. McNeil.
Hugh McCulloch.
Aug. H. Parsons.
Robert. Speers.
D. McLeod. John McAskill
John McKay
Alex S. McDonald
John Powell Angus McDonald.... Richard Power.
M. Sullivan.
W. H. Gray. Daniel McDonald. Angus McEachren J. S. McLeod.... Geo. Walker C. J. Mitchell.... D. F. Macdonald... Walker Public building

Building on P. O. site J. Post office and C. house. J. Public building

Dominion building Examining warehouse... Post office and C. house. Public building Public building Post office. Building. Justom-house ost office Charlottetown. P.E.I Sydney, South. ... inno ouni New Glasgow...... Picton.... North Sydney.... Antigonish . Place. Windsor Annapolis.... yogqqeck op Halifax [1892]

8388888888	:222222	888888888888888888888888888888888888888	388
24 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		25	
	:		
######################################	:	232525252525252525252525252525252525252	
222922222222 2229222222222222222222222	7222222 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8888,888888888888888888888888888888888	
%%2524%2%%% %%2624%2%%%	:8855258 :8859999	\$\$\$\$\$\$\frac{2}{2}\frac{2}\frac{2}{2}\frac{2}\frac{2}{2}\frac{2}{2}\frac{2}{2}\frac{2}{2}	
\$5.50 \$5.50	1885 1882 1882 1882 1876 1885	1885 1888 1888 1888 1888 1888 1888 1888	25 25 25 25 25 25 26 25 25 26 25 25 26 25 25 26 25 25 26 25 25 26 25 25 26 25 25 26 25 25 26 25 25 26 26 25 26 2
β. 6. 6. 6. 4. 6. 6. 4. α. β. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	TT & 4 + 5 +	- - - - - - - - - - - - - - - - - - -	క్క చ్య
May Oct. Nov. Go Oct. Feb. June	Oct. Marcl do do Oct. do	Aug. Jan. Doc. July Dec. July Dec. July May May May May May May May May May Ma	Jan. Oct. Kept.
	eer-		
ndan	engir light		``. g
do hoer. nan. taker taker taker do	to to to to men meer tric	miner incer	do de inem
do do Engineel Fireman Caretake Engineel Hoist aft Caretake do	Fore Act Act Act Act Act Act Act Act Act Act	Moseonger. 1837 Engineer 1837 Freeman 1848 Caretaker 1838 General joh 1848 Acting free 1848 Ac	Eng
1830 1856 1855 1844 1849 1849 1817 1817 1839	1888 1888 1888 1888 1888 1888 1888 188	1837 1837 1838 1838 1838 1838 1838 1838	28 18 18 18 18 18 18 18 18 18 18 18 18 18
2,81,4,0% -1,6%,6%,14,0,51,4 1,6%,6%,14,6%,14,0,51,4,0,51,4,0,51,4,0,51,4,0,51,4,0,5,1,4,0,1,4,1,4,1,4,1,4,1,4,1,4,1,4,1,4,1	<u> </u>	-4.210 -4.22 0 $-$	
April Feb. June Nov. May Go May Marc Nov.	Sept. Nov. June Feb. Oct. Feb.	Oct. Sept. Sept. Feb. June Nov. May June do do April Dec. April March April March April March April March April March April March April March April March April March April March April March April March April March April March April March April March	May May
i i ge		nd hd	ell .
oppir sbill shill ness ar Wishul we y y y y y y help needs dwin dwin dwin dwin shill	ilbau Kober an	iistra- kee kee Dona Dona Jong Hews Hews Houm Wasul For Trigner Trig	Brid smpt
nel T Joseph Cophe Cami Ker Ker Wo	Gurd By Oyer.	d Fill Wals Wals Wals Mol O'N O'N O'N O'N O'N O'N O'N O'N O'N O'N	y Du
Sanuel Toppin G. H. Jones G. H. Jones Christopher Wl. Jas. A. Paul Henry Howe. Ed. Haney. Geo. Campbell. Wm. Kennedy. J. R. Wondel. J. R. Wondel.	Chas. Guilbau Medard Rober Thos. Ryan. M. Boyer. D. St. George John Watson. L. D. Thibaul	Affred Filiatraul F. Greene W. Wallace W. Wallace C. Daudelin Wm. McDonald Jas. Mathews Theo. McLaugh John O'Neil John R. Mounta Z. Boucher Thos. Rawson Z. Boucher Thos. Rawson Z. Boucher Thos. Rawson E. St. Michel Widow J. Forra Wm. Comper Wm. Comper Jos. Carbonneau Geo. McLavel Jos. Carbonneau Geo. McLavel John Squures John Squures John Squures Fred. Edwards J. P. Reeves	Jame Gilbe Henr
	· · · · · · · · · · · · · · · · · · ·		
	ings.	ings.	
ding	&c	ise	
n-houddo do do ffice. ffice.	ffice, do do do inion lining	I reverse the property of the	
do do Custon Post o do Penite Post o do	Post o Domir Exami Post c	Custon Custon	- 5 5
	******	***************************************	3 3 3
# : : : : : : : : : : : : : : : : : : :			
teph x x ohn set set set set sec	l ette hine do do do do do do do do do do	do do do do do do do do do do do do do d	Brampton Clifton
St. Stephen St. John do do do do do do do do Av Mwodstock Craticook	Hull Joliette Lachine Montreal. do do do Ao Montreal.	do do do do do do do do do do do do do d	
	enten H	[1892]	193

Total Salary per Annum.	e cts.	400 00					8 8 8 8 8 8 8 8 8 8 8 8																
Time To employed per Annum.		onths	: : : :	: : දි දි	do :	op Op	: : දිදි	: မှ	: : 3-8	ر ان ان	: : 8-8	: မှ	: 8-6	: :	: 84	: 3-2	ф :	ું. ભુ	: 8- 2	: : 9	: op,	: 8-8	
	_ 			22			0 0 0 0 0																
Salary per Month.	e cts	28 28 28 28	3 4 8	33	88	8	2 2 2 2 8	84	8	38 2	38	88	3 8	33	3 5	3 22	8	8	8 8	83	88	8 2	
Date of Appointment.		7, 1885	,,,,,	2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2		,,,,	96. 25. 86. 25.	9,5	12	20	19°	4,1	ō,č	Ę	∞ <u>`</u>	12	æ	rg i	-5	j	2		
Dat Appoi		Jan.	Sept.	April Sept.	. t }	July	Note of	March	Mey	ن د د	March	Jan.	June	Sept.	op j	Nov		С	Feb.	Sept.	Oct.	Aug	
u					:					:	: :	:	:		:	:		:	:	: : : :	:	gnneer.	
Position	ł	Caretaker.	: : ခုခု	: : දි-දි	ે - સ્ટ	: : 8-8	op men	rineer	Engineer .	Fireman	engmeman Caretaker.	Engineer.	etsker. do	: :	: op	g. £	. : 음	: မှာ.	nneer	qo qo	: op	eman en	
	<u> </u>	1848 Car	2	\$ \$	834		1829 do 1848 Fireman	857 Eng	842 Eng	838 Fin	1839 Caretake	836 Eng	851 858	8	200	000	3	875	247 Eng	832	940	845 Fireman	
Date of Birth		8	î :	بر بر	S &	∮ ∞	4 4	14,8	32	Ų.	4, 21	တ်	48	8	<u>,</u>	y, F.	14,	တ်	4 ب	5,	2		
Dat		May	3 :	Jan. March	Ma	April	No.	Dec	200	Dec	25 20 20 30 30 30 30 30 30 30 30 30 30 30 30 30	မှ	M N	M	용, ·		Jun	Apr	MB		Ma	Aug	
ë.		hell			am.	nardson.		lson	neon				Asnn	: :	:	ong.	ilton	erson			nston .		
Name.		V. Mitche	Gibson	. Payne. Kilgonr.	Robert High	Lewis Elliot	Wm. Hornby	Nicholsc	william John	. Maddon	M. Mulkern Wm. Greer	ohn Price.	Villiam McM John Hearn	John Wilkins		Reynolds	Samuel Hamil	Rufus Hende	. H. Koberts	Russell	Wm. J. Johns	J. A. Wills	
		> ₹ 	G. P.	HX W	26 26 26	Lewi	W.m.	Thos	Willia	Z:	WE	John	. Willia	John	John	T w IB.	Semi	Rufu	H A	T Ball	Wm	۲. کا کا	
ઝે		:		:			ling	: :					. house	: : : •	:	:		C. house	:			lings.	
Building.	-	jœ.	: :	:		320	om búild	6-8-8-	all. 7 college	oį	i-house. fice		Post office and C. hou	<u>9</u>	:	:	anibling	ice and		: 3 &	building	on paile	
		Ont. Post off	2 - 2	용은	g-6-	8.8	Domini		Militar Relitar	op	Custom Post of	ခု	Post off	Post off	ප	9-6	Public 1	Post office and	ə f	3.5		Domini	
		Ont.	: :	: :	: :		::	: :	: :	3 :	: :	: :	::	: :	:	: :	:	:	: : :	:	:	::	:
Place.		:		:															:	:		:	
Pg		8m	/a.ii	Cobourg		Gananoque	ton	. :	do Kinoston		: :: .	:	· · ·	eville.	Peterborough	Port Colborne.	rort nope . Penibroke	Prescott	Stratford	tuarine	Strathroy	to	
	1	Chatham	Cornwall.	Copor	Guelph	Ganan	Hamilton	등. 92]	do Kinostz	စု	London	8 -8	Lindsay	Orangeville.	Petert	Fort	rort nope Pembroke	Presco	Strate	SÉ St	Strath	Toron	

00 009 009	_	_	_	_	_	_	_	-		-												
	- :	-:	-:	-:	-:	-:	:	:	:	-:	-:	:		-:	:	-:	- :	-:	-:	-;	:	-
පිපි	ခု	ဝှ	ခု	ဝှ	မှ	ą	ç	qo	ဗ	ခု	ဝှ	ခု	ဝှ	ခု	မှ	ခု	မှ	ခု	q	ဝှ	ф	
12	13	12	9	9	9	12	12	13	12	12	12	9	12	12	15	12	15	13	12	12	12	-
85 80 80 80																		_	_	_	_	
1887	, ,,	_	_	-	,	_	_		,									•	•		•	
-	.4												2								ì - î	i
Dec.	Mar	Sept	May	Nov	Dec	Aug) St.	Nov	July	Aug	Jun	Jan	Mar	Jun	q	Jan	Jun	č	Z	Jan	Oct	_
Hoist	do do	Matchman.	H Engineer	9 Fireman	do 5	4 Caretaker	3 Engineman.	H Caretaker	55 do	7. do	2 Engineman.	9 Fireman	3 Hoist attendant	Watchman	56 Caretaker	- G	و	9 Engineer	A Asst. engineer	Caretaker	do	
27, 1863															2	2	2	2	2≅	1		
do 2																						
Alex. Dey				: : :													200	3	:	:		
 op	•	•	:	Top office and a second	9	Public building	Post office		Public building	do de la companya de	Post office	Omce	9		200	Count house	do			B C Doet office	do	
" op	,,	,	3	,,	,, on	Tranton "	Windson	,	Wellcorton	Mon	Winning	" Sadimin M	,	,	,	Mossonia N W T	Deing Albort	Design	Ivegina		New Westminster	

R. STECKE

[1892] •

APPENDIX No. 14.

STATEMENT

SHOWING

NAMES, DATES OF APPOINTMENTS, SALARIES, &C.,

of

PERSONS EMPLOYED

ON THE DIFFERENT

GRAVING DOCKS, 30th JUNE, 1892.

APPENDIX No. 14.

STATEMENT showing Names, Dates of Appointments, Salaries, &c., of persons employed on the different Graving Docks, 30th June, 1892.

Remarks.	,	April 13, 1891 \$1,800.00 per annum. Annual allowance of \$200 for house rent. do 9, 1891 \$3.33 per month June 1, 1888 \$75.00 do do 1, 1888 \$2.00 do April 9, 1891 \$2.00 do	\$45 per month, 1st April to 1st Dec.; \$1.25 per day, 1st Dec. to 1st April.
Salary.	\$166.66 per month 100.00 do 175.00 do 180.00 d	81,800.00 per annum. 83.33 per month 75.00 do 82.00 do 82.00 do	45.00 do
Date of Appointment.	Sept. 17, 1887. April 1, 1887. Jan. 11, 1892. Dec. 1, 1887.	April 13, 1891 do 9, 1891 June 1, 1888 do 1, 1888 do 1, 1888 do 1, 1881 April 9, 1891	do 9, 1891
Where Employed.	Esquimalt Sept. do April do Jan. do Dec. do do	évis do do do do do	ор
Position.	Dockmaster. Engineer. Asst. engineer. Carpenter Stoker do Watchman	ar i	watchman
Date of Birth.		88 : : : : :	
Name.	Esquimalt Graving Dock, British Columbia. John Devereux A. C. Muir. J. W. Muir. A. D. Greeves F. M. Jones D. Magell D. Magell Levis (traving Dock.	Ulric Valiquette 30th June, 1856. Dockmaster Honore Lamontagne Dock foreman. Wm. Macdougall Mech Tengine Machaelin Asst. mech Tengine Napoleon Lemelin Efreman Jos. Morin. do	Theodore Chabot

R. STECKEL.

APPENDIX No. 15.

STATEMENTS.

- 1st.—STATEMENT OF CONTRACTS LET BY THE DEPARTMENT OF PUBLIC WORKS OF CANADA, FROM THE 30th JUNE, 1891, TO THE 30th JUNE, 1892.
- 2nd.--STATEMENT OF PROPERTY PURCHASED OR SOLD BY THE DEPARTMENT OF PUBLIC WORKS DURING THE FISCAL YEAR ENDED 30th JUNE, 1892.
- 3rd.—STATEMENT OF PROPERTY LEASED TO AND BY THE DEPARTMENT OF PUBLIC WORKS DURING THE FISCAL YEAR ENDED 30th JUNE, 1892.

APPENDIX No. 15.

No. 1.—Contracts let by the Department of Public Works of Canada, from the 30th June, 1891, to the 30th June, 1892.

Works.	Names of Contractors.	Date of Contract.	Amount.
			\$ ets.
Public Buildings.		1	
Fovernment House, and Parliament and Depart Buildings	rental		
Parliament and Departmental buildings cle	G. E. Pouliot	Sept. 11, 18	81 56
Parliament and Departmental buildings—remo	val of W. Moore	Nov. 30, 189	91 450 00
Parliament and Departmental buildings-ice	D. N. Charlebois		92 051
do do do coal. Rideau Hall—removal of snowdo ice		Nov. 28, 18	91 450 00
Nova Scotia,	,		
Amherst post office building—supply of coal	Cumberland Railway Coal Co	& Sept. 16, 18	91 243 75
Arichat do do do Baddeck do do do	James Kenna Gardner Coal Co. A. G. McDonald.	do 1, 18 do 2, 18 do 2, 18	91 112 50 91 78 75 91 105 00
Halifax public buildings—supply of coal New Glasgow post office building—supply of coal of the supply	oal do Gardner Coal Co	do 27, 18	91 132 18 91 151 25
Pictou custom-house building do Sydney post office building do	Acadia do Gardner do	Sept. 22, 18 Aug. 29, 18	
Truro do do do	Acadia do	do 27, 18	91 140 00
Windsor do do do	F.W. Dimock	Sept. 10, 18	104 04
Prince Edward Island.			
Charlottetown Dominion building—supply of co Montague post office do do	al Gardner Coal Co	Aug. 29, 18	
Montague post office do do Summerside do do do	Jos. Read & Co.	do 29, 18 Sept. 5, 18	
New Brunswick.			
Bathurst port office building-supply of coal	Ed. Johnson	. Sept. 10, 18	
Carleton do do .	Morrison & Lawlor Gillespie & Sadler	. Aug. 29, 18	
Dalhousie do do	do	do 10. 18	91 215 00
Fredericton do do Moncton do do do	E. N. Allen Cumberland Railway	. Aug. 31,.18	91 262 00
	Coal Co	. Sept. 21, 18	
Newcastle do do Portland do do do	Gillespie & Sadler R. P. & W. F. Starr	. do 10, 18	
St. John public buildings do .	R. P. & W. F. Starr Morrison & Lawlor	do 29, 18	91 2,652 75
Stephen post office building do	C. D. Hill & Co R. P. & W. F. Starr	. Sept. 3, 18	
	W. F. Dibblee & Son	Sept. 1, 18	
	[1892]		20.

No. 1.—Contracts let by the Department of Public Works, &c.—Continued.

1121			. were				
Works.			Names of Contractors.	Date of Contract.		Amount.	
1	Ривые Ви	ildings—	Continued.				\$ ets.
		Quebec.				:	
A		·	anula of stall	C.C. Part & Co	A	04 1001	144 99
	do	- qo mam8.—si	do	C. C. Ray & Co B. J. Smith	Sept.	24, 1891 12, 1891	184 50
do	do	do el		Coaticook Electric		90 1909	∫ 180 00
Hull	do	do si	apply of coal	McRae & Co	Sept.	10, 1891	t per annum 249 50
	do	do ir	iterior fittings	Jas. Fitzpatrick	Oct.	30, 1891	1,135 00
do	do		encing, gates, wood- shed	do	May	19, 1892	655 00
	do	do ei	rection	O. Lefebvre	Dec.	11, 1891	9,375 00
do	do do	ings—sup	do	P. McCrory Evans Bros	ept.	17, 1891 11, 1891	1,249 96 1,180 77
do	do		do	F. Robertson	do	14, 1891	1,296 52
do cu	stom-hous	e—reconst	truction of skylight	L. Cousineau	Feb.	23, 1892 10, 1891	6,146 46 3,080 80
			qtrs.)—supply of coal		do	10, 1891	130 00
do old	Parliamer	nt buildi	ng-removal of snow	Fugàna Tendal	Dec	4 1901	175.00
do imn	oin ground igration	buil ling o	n Princess Louise em	Eugène Trudel	Dec.	4, 1891	175 00
ba	nkment—a	alteration	to verandah	F. Poitras			171 00
St. John's Sherbrooke		building do	—supply of coal	Bissett & Donaghy Luckie & Mitchell	Sept.	1, 1891 7, 1891	152 00 266 40
Sorel	do	do	d o	F. O. Lamarche	do	8, 1891	235 80
Three River		uildings	do	F. O. Lamarche	Aug.	31, 1891 19, 1891	548 49 173 00
do	do do			Valleyfield Electric		10, 1001	50 00
		Ontario.		Light Co	do	24, 1891) per annum
Almonto no	et office l	building	cumply of and	T. R. White	Sept.	7, 1891	218 75
Amherstbu	rg do	do do	do	J. G. Mullen	do	16, 1891	125 00
Barrie	ďo	do	do	Johnston & Sergeant	do	2, 1891	
do	do	do	supply of water	The Barrie Water Wks.	Oct.	22, 1891	f 50 00 per annum
Belleville	do			The Rathbun Co	Aug.	29, 1891	276 00
Berlin Brompton	do	do building	do	R. Blain.	Sept.	14, 1891 19, 1891	174 20 143 75
Brantford	do	do	do	T. Elliott.	Aug.	31, 1891	
Brockville	do	do	do	Geo. E. Shields	_do	25, 1891	275 00
Carleton Pi	ace do do	do do	fittings.	N. Landry R. Cameron	Dec.	7, 1891 15, 1892	994 50 1,375 00
Cayuga	do	do	supply of coal	T. Martindale	Sept.	2, 1891	172 50
Chatham do	do do	do do	do	P. T. Barry	do	5, 1891	231 82
uo.	110	uo	11.0	Co	June	10, 1892	
Clifton do	do do	do do	supply of coal	Histrop & Thomas	Sept.	3, 1891	178 80
do	do	ao	electric light (in- cluding installation	1			325 00
			and renewals	Niagara Falls Electric		17 1000	per annum
Cobourg	do	dο	supply of coal	Light and Power Co. Rooney & Co	Nov.	17, 1892 13, 1891	for 3 years. 258-75
Cornwall	do	do	do	Flack Bros	Sept.	1, 1891	240 00
Galt Gananoque	do public b	do uildinga	do do	Perry & Co		2, 1891 3, 1891	171 00 173 84
Goderich p				Wm. Lee.		1, 1891	
Guelph	do	do	do	Frank Frank		10, 1891	
Hamilton	ф	do	do .:{	Æ. D. Mackays Sons. Thos. Myles & Sons	do	2, 1891 2, 1891	
. d o	do	do	alterations, addi-		1	12, 1892	1
do	dο	do	painting.	. J. Clayton	do	12, 1892	650 00
			pply of coal	W. B. & S. Anglin	Aug.	26, 1891	312 00
Lindsay por London	stomce o do	do do	do	. The Rathbun Co Hunt Bros	do Sept.	29, 1891 12, 1891	
London cu			z— do	. D. Daly & Son	do	22 , 1891	
204			[18	92]			

No. 1.—Contracts let by the Department of Public Works, &c.—Continued.

Works.	Names of Contractors.	Date of Contract.	Amount.	
Public Buildings—Continued.			\$ cts.	
Ontario—Continued.	,			
London stabling and latrines at infantry barracks	Tambling & Jones	Feb. 17, 1892	2,286 00	
Napanee post office building—supply of coal Orangeville do do do Orillia public building—erection	The Rathbun Co	Aug. 29, 1891	166 25	
Orangeville do do do Orillia public building—erection	James Morrison	Sept. 2, 1891 April 5, 1892	133 00 10,216 00	
Ottawa experimental farm—supply of coal	McRae & Co	Sept. 10, 1891	427 00	
do printing bureau—slab fire wood	John Heney	Oct. 14, 1891	∫ 1.75	
do supreme court building—plumbing and gas fitting in new wing	Ormond Higman	do 28, 1891	1,075 00	
do supreme court building—alterations and	l[· · · · ·	
do Langevin block, post office, geological and	Wm. Stuart	Nov. 16, 1891	1,991 91	
fisheries, museums, Cartier square				
removal of snow			450 00 100 90	
do do bracket clock (includ			100 30	
ing covering, &c	E. Chanteloup.	April 28, 1892	1,540 00	
Peterborough do supply of coal do public library—vaults	The Rathbun Co J. E. Askwith	Aug. 29, 1891 Jan. 28, 1892	138 90 1,550 00	
do custom-house—heating apparatus	McGuire & Bird	June 28, 1892	719 00	
Petrolia post office building—erection	J. Garrett	Jan. 29, 1892	16,000 00	
	The Weston Coal Co .	Sept. 24, 1891	35 00	
Port Arthur post office building—erection	Tobin & O'Keefe	Jan. 8, 1892	17,900 00	
Port Hope do do supply of coal Prescott public buildings do	Jas Buckly	Aug. 31, 1891 Sept. 1, 1891	443 00 98 00	
St. Catharines post office buildings—supply of coal.	. D. Dittrick	do 18, 1891	246 58	
	Ellison & Lewis		388 50	
Stratford do do do . Strathrov do do do .	. A. C. Mowat	do 2, 1891 do 22, 1891	350 35 133 53	
Toronto public buildings—supply of coal	P. Burns & Co	Aug. 25, 1891	1,739 24	
do drill hall—erection	J. Stewart	Nov. 10, 1891 Jan. 22, 1892	240,000 00 3,177 00	
do post office building—repairs to deck roofs	Douglas Bros	April 25, 1892	313 16	
Trenton do supply of coal	. C. Crowe	Aug. 31, 1891	145 50	
	Traill Bros J. C. Oppenheiser		191 38 878 00	
do do heating apparatus	. McGuire & Bird	do 22, 1891	1,320 00	
	. W. M. Shannon		236 00	
do do supply of water	Corporation of Walker-	do 16, 1892	25 00	
With the same land of the	0 11 1 7 11		per annum.	
Windsor do supply of coal	Scully & Bridges	Sept. 1, 1891	360 15	
${\it Manitoba}.$				
Winnipeg-Fort Osborne-hospital for North-wes	t			
Mounted Police	. Brydon & Matheson	July 14, 1891	2,993 97	
Winnipegimmigation building-supply of coal				
do post office building-supply of coal (Gal	Co	do 13, 1891	125 00 per annum.	
coal)	. Alberta Railway and	l į	per amium	
do other public buildings—supply of coal	Coal Co Dominion Coal, Coke	Sept. 2, 1891	2,472 77	
do other public bundings supply of coar	& Transportation Co	do 21, 1891	1,869 95	
Tr. d	•		1,000	
North-west Territories.				
Calgary—addition to guard-room	E. Watson	June 2, 1892	1,547 00	
Prince Albert—immigration building	. T. E. Baker	April 7, 1892	1,000 00	
negina—court-house, post office and registry office	æ	,	14,343 00	
buildings—supply of coal	. The Smith & Ferguson	n .		
Regina-Government offices-heating apparatus	Co	do 3, 1891 Dec. 10, 1891		
[18	392]	. 1200. 10, 1001	205	
r.	ه. د		_,00	

No. 1.—Contracts let by the Department of Public Works, &c.—Continued.

Works.	Names of Contractors.	Date of Contract.		Amount.	
Public BuildingsContinued. British Columbia.		,		\$	cts.
Agassiz—barn for experimental farm *Vancouver—public buildings—erection	Wm. Rockett Thos. Tompkins . Maurice Humber	Oct.	20, 1891 19, 1891 23, 1892	9,000 59,339 33,916	00
HARBOURS, RIVERS AND BRIDGES.					
Nova Scotia.		•			
Devil's Island—breakwater Estonville—extension of breakwater L'Ardoise—breakwater. Louis Head do Round Hill—shear dam West Chezzetcook—breakwater on the eastern side of the entrance to harbour	W. J. Loughren	April June Dec. Nov. Dec.	19, 1892 9, 1892 18, 1891 9, 1891 30, 1891 20, 1892	1,600 2,700 16,775 4,072 4,750 8,940	00 00 00 00 00
Prince Edward Island.					
St. Peter's Bay—reconstruction of breakwater protection	D. J. McDonald	May	23, 1892	862	2 00
New Brunswick.					
Campbellton—extension of ballast wharfLower Neguac—wharf	G. & J. Robertson B. Flood	June April	22, 1892 14, 1892	3,975 7, 2 00	
Ontario.					
Kaministiquia River—dredging at McKellar's Creek	T. Marks & N. McDon-	l,	20 1000	102	
Kingston dry dock—engine-house and chimney do travelling crane for engine-house	P. Navin. The Can. Locomotive	July	16, 1891	10,610	00
Hamilton Harbour—dredging for removal of shoal Southampton—additional length to landing pier	and Engine Co F. B. McNamee G. E. Smith	Mav	4, 1891 3, 1892 9, 1892	10c. p. c	
British Columbia.					
Fraser River—brush mattresses at mouth of do piles for improvements at mouth of	D. A. McDonald D. McLennan	Dec. Jan.	19, 1891 2, 1892	Sched. r	ates
DREDGING, DREDGE VESSELS AND PLANT.					
St. Lawrence Ship Channel—coal for dredges do do do Dredge "St. Lawrence"—boiler for Steam elevator dredge—hull for	Coal and Ry. Co General Mining Assn.	Oct.	-, 1891 -, 1891 26, 1891 20, 1892	2,870 8,290	6 15 0 00
TRLEGRAPH LINES SERVICE.					
Decked boat—for service in Gulf St. Lawrence Wellington to Comox, vid Courtney and Union Mines B.C.—construction of line	L	1		i	0 0 0

^{*}This contract takes the place of A. E. Carter's contract mentioned in last year's report, but since cancelled by Order in Council (No. 120742).

F. X. R. SAUCIER.

DEPARTMENT OF PUBLIC WORKS, OTTAWA, 15th October, 1892.

^{· *} For 65 miles, and \$90 per mile for the remaining distance.

F. X. R. SAUCIER.

cts. 3.8 8.8 52 88 88 88 98 160 00 410 00 4,500 00 Transfer. Price. About 36,900 sup. : . 6,080 square ft. : 1, acres.... do registry office. . . | 132 x 125 ft. Site for public building ... 75 x 105 ft. St. Maurice River works .. 3 acres.... ... 78 x 59 ft.. Area. Rice of land in Oneida Township Approach to Grand River bridge Site for drill shed Water supply for post office building..... : :: Site for court-house Site for public building For what Purpose. Lots 21, 22, 23, 24, 25 and 26, Block 94, Moosel being part of Government Reserve, Northerly 75 feet of lot No. 6 on Peter St., Orillia, Jaw, Assa.
Portion of lot No. 78.
Use of piece of land and right of way River lot No. 80, block XXV., Prince Albert, Saskatchewan
Parts of lots 8 and 9, block A, Pointe à la Mag-Piece of land, south-west side of Water St., Darlmouth, N.S. Description of Property. Saskatchewan Jaw, A88a. မှ 22, '91 The Corp'n of Orillia..... Her Majesty Her Majesty.... : Her Majesty Federal Govt... Purchasers. ę ခ့ ခု '91 do Laprairie... '91 J. Stalker. '92 Hall & Price. '91 The Dartmouth Ferry Com-25, 32 (Certificate of ownership)... mission.... British Columbia. '91 do do '91 W. S. Smith.... Vendors Conveyance. ដូនុង £,--Ŕ ಜ್ರೆಸ್ಟ್ Date 994 Feb. [1892] Aug. Sept. Oct. July Oct. do

No. 2.—Statement of Proporty purchased or sold by the Department of Public Works during the Fiscal Year ended 30th June, 1892.

DEPARTMENT OF PUBLIC WORKS, OTTAWA, 15th October, 1892.

s cts. 3 12 00 888 888 155 25 SNo. 3.—Statement of Property leased, to and by the Department of Public Works during the Fiscal Year ended 30th June, 1892. Rent Payable. Railway purposes... 21 years City post office rooms. 3 months and 12 days. During good pleasure. . During good pleasure. During good pleasure. Duration of Lease. 21 years ... Private enterprise... For what Purpose. 999 ခ Water lots A, C, E, F and A, B, C, D, Nanaimo Harbour, B.C.

Foreshore rights in front of lots 1, 2, 3, 4, 5 and 6, block
M, Portage Inlet, Victoria Harbour, B.C. .. Piece of land south-west of south-west half of lot No. 4, S. Williams. Waterfrontage on lot 7, block M, Victoria Harbour, B.C. E. G. Laverdure S. E. 4 lot No. 8, Sussex St., Ottawa. Portion of custom-house lot at New Westminster, B.C. Office in "Central Chambers," Ottawa ... Property leased. Victoria Island The Can. Pacific D. W. Gordon July 15, '91 Her Majesty Colin Dewar James Porter May 18, '92 Seybold & Gibson. Her Majesty Lessee. Lessor. ခ့ ಕಿಕಿಕಿ do 14, '91 Dec. 18, '91 April 14, '92 27, '91 7, 31 Date of Lease. Sept. Aug.

F. X. R. SAUCIER.

DEPARTMENT OF PUBLIC WORKS,

OTTAWA, 15th October, 1892.

[1892]

APPENDIX No. 16

OFFICIAL CORRESPONDENCE

DEPARTMENT OF PUBLIC WORKS

FROM 1st JULY, 1867, TO 30th JUNE, 1892.

APPENDIX No. 16.

OFFICIAL CORRESPONDENCE.

LETTERS Received and Sent from 1st July, 1867, to 30th June, 1892.

	Years.				Received.	Sent.

1867	From	1st July to 31st	Decemb	er	2,075	1,511
1868	do	1st January to	31st Dece	ember	3,498	2,317
1869	do	do	do		3,448	2,171
1870	ďο	do	do		4,961	3,185
1871	do	do	do		6,268	3,983
1872	do	do	$\mathbf{d}\alpha$		8,333	4,428
1873	do	do	do		10,072	5,707
1874	do	do	dο		9,800	5,048
1875	do	do	ďο		9,006	5,000
1876	do	do	do		7,971	4,773
1877	do	do	do		7,517	4,425
1878	do	do	do		6,886	4,021
1879	do		6th Octo	ber	7,186	4,547
1879	do	7th October to			2,033	810
1880	do	1st January	do		8,451	4,410
1881	do	do	do		9,599	5,529
1882	do	do	do		10,505	5,69
1883	do	do	do		11.633	6.227
1884	do	do	go		13,114	6,903
1885	do	do	do		8,977	5,321
1886	do	do	do		9,644	5,359
1887	do		30th Ju	ne	4,866	2.73
1887	do	1st July	do	1888	10,493	6.34
1888	do	do	do	1889.	10,522	7,042
1889	do	do	do	1890	10,098	7,448
1890	do	do	do	1891	10,576	7,28
1891	do	do	do	1892	11.637	6,700

Number of Cheques sent by Accountant's to Secretary's Branch and Mailed, from 1882 to 1892.

Year.					No.
82	do do do do do do do do do	22nd Septemb 1st July do do do do do do do do	do do do do	1883. 1884. 1885. 1886. 1887. 1888. 1889. 1890. 1890.	1,5 3,3 3,2 3,4 4,1 4,6 4,6 4,8 5,3 5,4

CHEQUES issued by Finance Department and Mailed from Secretary's Branch.

Year.	. <u> </u>		•		No.
885	From	1st April	to 30th June,	1885	24
385	do	1st July	do	1886	95
86		do	do	1887	1,15
387		do	do	1888.	91
88		do	dо	1889	88
89	do	do	do	1890	90
90	do	do	do	1891	79
91		do	do	1892	82

LETTERS Received and Sent, Chief Architect's Office, from 1st January, 1880, to 30th June, 1892.

		Years. Received.	Sent.		
				me	1,27
1880		1st July	do	1881	2,9
1881	do	do	do	1882	2,83
1882	do	do	do	1883 3,538	4,60
1883	do	do	do	1884	6,00
1884	do	do	do	1885	6,71
1885	do	do	ďo	1886 6.075	6,4
1886	do	do	do	1887 6,816	6,38
1887	do	do	do	1888 6,947	6,87
1888	do	do	do	1889 6.484	7,66
1889	do	do	do	1890 7,448	6,57
1890	do	do	do	1891	7,78
1891	do	do '	do	18926,113	4.26

^{*}The exact number of letters received cannot be accurately given, but would bear about the same proportion to letters sent as last year.

LETTERS Sent from Chief Engineer's Office from January, 1880, to 30th June, 1892.

Year.				No.
000 V	10th Tanasan			
880 Fron 880 do	1st July	y w aoun a u do	ne 1881	4
81 do	do	do	1882	1,7
82 do	do	do	1883	2,3
83 do	do	do		2,6
84 do	do	do	1884	3,6
85 do	do	do	1886	3,1
36 do	ďο	do	1887	2,8
37 do	do	do	1838	3,2
88 do	do	do		3,5
39 do	do	do	1000	4,2
0 do	do	do		3,3
91 do	do	do	1891 1892	3,9 4,0

Note.—The letters, including returns, received in the Chief Engineer's Office may be estimated at the rate of two received to one sent.

[1892]

APPENDIX No. 17

TABULAR STATEMENT

SHOWING THE DATES OF THE

CLOSING AND OPENING OF NAVIGATION

AT THE

PRINCIPAL PORTS OF CANADA,

ON THE SEABOARD, THE RIVER AND GULF OF ST. LAWRENCE, AND ON THE GREAT LAKES.

APPENDIX No. 17.

Ports.	Provinces.	Location.	Date of Closing, 1891-92.	Date of Opening, 1892.	Remarks.
Arichat, C. B	Nova Scotia	Entrance, Gulf of St. Lawrence.			Navigation did not close at this port this season, in consequence of the unusually mild weather.
BathurstBellevilleCampbelltonCharlottetown	New Brunswick. Ontario New Brunswick. P. E. Island	Baie des Chaleurs. Lake Ontario Baie des Chaleurs Gulf of St. Lawrence.	Dec. 18 Jan 98 8 do 88 8	April 22 do 13 do 27 Mar. 20	18. April 22. 28. do 13. 25. Mar. 20. 30. April 20.
St. Collingwood	Ontario	Gulf of St. Lawrence	Jan. 20. Feb. 11	May 5	May 5. Navigation closed unusually late at this port owing to the mildness of the season. 11. Mar. 27. The ferry stanner fan this season until February 8th, on the 11th the harbour was frozen over, and on the 13th was again clear of ice, on the 20th sea ice blocked the entrance to the harbour but moved off
Goderich Ontario Halifax Nova Scotia Kinoardine Ontario.	Ontario Nova Scotia Ontario.	Lake Huron Atlantic Ocean Lake Huron	Dec. 5. Nov. 15.	5. April 4. 15. April 5.	Dec. 5. April 4. Always open and clear of ice. Nov. 15. April 5.
Kingston Louisburg, C. B	do Nova Scotia	Lake Ontario Entrance, Gulf of	Jan. 16.	do 6	6 No ice formed on this harbour last winter, sailing vessels were arriving and leaving this port every month.
Montreal	Quebec P. E. Island	River St. Lawrence.	Nov. 30. Dec. 31	Nov. 30 April 13 Dec. 31 do 15	Kesk
North Sydney, C. B. Nova Scotia Owen Sound Pictru Nova Scotia		Entrance, Gulf of St. Lawrence Georgian Bay. Gulf of St. Lawrence	Nov. 30 May Jan. 21 April		There was no ice formed on this harbour this year. There was no ice formed on this harbour this year. During the winter of 1891-92, had much less ice than usual. The ferry boat ran on Pictou harbour and steamships "Northumberland" and "Stanley" plied between Prince Edward Island and Pictou till January 21st.
Port Arthur do Port Dover Port Hope do Port Rolpe do Port Stanley do do Port Stanley do do		Lake Superior Lake Erie Lake Untario Lake Erie	<mark>Б</mark> ес. 8	28. May 1 20. April 4 15. do 8 14. Feb. 26	

		Dopare	mon or
do 29. April II. do 5. do 9. do 9. Always open and clear of ice. Jan. 23. April 1. Canal closed for two months. No ice formed on St. Peter's Bay to prevent boats from running all winter.	Dec. 3 do 5 do 4 do 18 Ice did not form between the Sault, Ontario, and the Sault, Michigan, do 15 do 7 Nov. 30. do 14 Feb. 4 do 6. Part of the harbour was open all winter.	River St. Lawrence. Dec. 2. Mar. 25. do do Nov. 26. April 20. The bay was not closed by ice until January 5th. Lake Ontario. Dec. 28. April 13. Although navigation closed on December 28th, there was no ice formed until about the 20th January. Dec. 28. April 13. Although navigation closed on December 28th, there was no ice formed until about the 20th January. Detroit River. Detroit River.	Nov. 15 April 20 do 14 May 24. The river was fast on the date given, but had been full of ice for three weeks previous; on the coast the ice is still to be seen, July 6th, 1892.
9.	면정 <u>1~</u> 41.6	ងនិត្ត	1 20. 24.
Apr do do Apri	දිදි දිදිදි	Mar. Apri Apri	Apri May
9.5	4 35	84 to 86	5. 14.
යි දිර කී.	Seb.	Yov.	do do
Gulf of St. Lawrence. River St. Lawrence. River Richelieu. Bay of Fundy. Atlantic Ocean.	Lake Huron Lake Superior Gulf of St. Lawrence River Richelieu Entrance, Gulf of St. Lawrence.	Tadousac. Quebec. River St. Lawrence. In Three Rivers of the do the do the St. Control of the Contario of Georgian Bay. In Windsor. do Detroit River.	Red River N Hudson's Bay
	Ontario. do New Brunswick. Puebec. Nova Scotia.	Quebecdo do Ontario do do	Manitoba N. W. Territory.
Percé. (Quebec. Quebec. do St. John's do St. John. New Brunswick. St. Peter's, C. B. Nova Scotia.	Sarnia. Ontario. Sault Ste. Marie do Shediac. New Brunswick Sorel Nova Sootia.	Tadousac	Winnipeg Manitoba York Factory N. W. Territory

[1892]

215

APPENDIX No. 18.

LIST

OF SOME OF THE

ACTS OF PARLIAMENT PASSED AT THE SESSION OF 1892

AND HAVING REFERENCE TO THE

DEPARTMENT OF PUBLIC WORKS,

OR WORKS UNDER ITS CHARGE.

APPENDIX No. 18.

List of some of the Acts passed at the Second Session of the Seventh Parliament of Canada, prorogued on the 9th day of July, 1892, and having reference to the Department of Public Works, or works under its charge (55-56 Victoria,

Subject.	Full Title of the Statute.	Chapter.	Sections.	Page in Stat- ute Book.
Sums granted to Her Majesty for the financial year ended 30th June, 1892, and the purposes for which they are granted.		1		. 3
do ending 30th June, 1893.	An Act for granting to Her Majesty certain sums of money required for defraying certain expenses of the public service, for the financial year ending the 30th June, 1893, and for other purposes relating to the public service.	2	:	11
	An Act respecting the Harbour Commissioners of Three Rivers	10	, 5	60
Persons who may be appointed to positions in the public service without examination.	An Act to amend the Acts respecting the Civil Service	14	All.	73
Regarding offences affecting the administration of law and justice as regards public works, &c., &c.		29	117, 118 and Title III	137

F. X. R. SAUCIER.

DEPARTMENT OF PUBLIC WORKS, OTTAWA, 18th October, 1892.

APPENDIX No. 19.

STATEMENT

SHOWING THE DIMENSIONS OF THE

GRAVING DOCKS

IN

CANADA, 1892

APPENDIX No. 19.

GRAVING DOCKS.

STATEMENT showing dimensions, &c., of the graving docks in Canada on the 30th day of June, 1892.

;	Names of Docks.		Length,	Width at Coping Level.	Width at Entrance.	Width at bottom.	Water on Sills at Ordin- ary Spring Tides.	Spring Tides rise.	Neap Tides rise.
			Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.
Esquimalt gr	aving do	ek	430	90	65	41	$26\frac{1}{2}$	7 to 10	5 to 8
Halifax	do		585	102	894	72	30	6	3
Kingston	do	•••••	280	79	55	47	151/2	*	
Lévis	do		495	100	62	73	$25\frac{1}{2}$	18	13

^{*}Height of water varies 31 feet.

APPENDIX No. 20.

STATEMENT

SHOWING

PUBLIC PROPERTY IN NEW WESTMINSTER, B.C.,

AND THE VALUE THEREOF.

ON THE 6TH DAY OF MAY, 1892,

BY

F. C. GAMBLE, Resident Engineer.

APPENDIX No. 20.

STATEMENT OF PUBLIC PROPERTY.

House of Commons,

OTTAWA, 5th April, 1892.

DEAR SIR,—I would be much obliged, if you would instruct your engineer in British Columbia (Mr. Gamble) to make a report on the following:-

1. What public buildings are there, belonging to the Dominion Government now occupied in the city of New Westminster?

2. The character, value and size of said buildings?

3. By whom occupied?

4. The number of lots owned by the Dominion Government in the city of New Westminster?

5. The value of each lot?

Yours truly, GORDON E. CORBOULD.

The Hon. J. A. OUIMET, Minister of Public Works, Ottawa.

DEPARTMENT OF PUBLIC WORKS, CANADA, RESIDENT ENGINEER'S OFFICE. VICTORIA, B.C., 6th May, 1892.

· Dominion Public Buildings, New Westminster, B.C.

SIR.—Referring to your memos, of the 21st and 23rd instant, I herewith submit the required information regarding the several properties of the Dominion Government situated in the city of New Westminster, with the exception of that known as the Penitentiary Reserve.

The values of the properties given below were taken from the last assessment roll of the city. By some people these values are held to be much in excess of the selling prices at present obtainable, while on the other hand others contend that if

placed on the market larger prices would be obtained.

1. Custom-house lot, situated below, or rather outside of low water mark on the south-east side of Columbia street. A portion of this lot is occupied by a wharf built for the use of the Government snag boat "Sampson;" the remainder, by a recent Order in Council, has been granted to the Canadian Pacific Railway. Size of lot, 100 feet deep by 260 feet frontage. Value, \$22,000.

2. Lots 1 and 3, block 13—Lot 1 is situated on the north-west side of Columbia

street, at the corner of that street and Begbie street. Lot 3 is in the rear of lot 1,

forming an L with it and extending from Begbie to Lorne street,

On these two lots are the old Custom-house and outhouses belonging thereto, now unoccupied. These buildings are in a dilapidated condition and should be pulled down, and the material taken away. No value can be placed upon the , 227 $\lceil 1892 \rceil$

material. Thirty-three feet of lot 3 was recently granted to the city council for the purpose of extending Clarkson street through to Begbie street. The council subsequently asked for 10 feet more. I do not think this should be granted, as there does not appear to be any real necessity for such additional grant. If it were granted it would be detrimental to the sale of the remaining part of the lot.

Lot 1 is 66 feet on Columbia street by 132 feet on Begbie street; value, \$19,000. The remaining portion of lot 3 is 33 feet by 132 feet; value, \$5,000. It might be divided into two small lots 33 feet by 66 feet each, and sold to better advantage.

3. Lot 10, block 13—This lot is situated at the corner of Carnarvon and Mackenzie streets. On it is the drill shed 40 feet by 66 feet, still used by the militia. The building is in a most dilapidated and rotten condition. It should undoubtedly be pulled down. The material may be considered worthless. Size of the lot is 66 feet square; value of lot, \$9,000.

4. Lots 1 and 2, block 14—These lots are situated on the north-west corner of Columbia and Sixth streets (the latter street was originally called Mary street). At the rear is Clarkson street. The present Post Office building (brick) is on lot 1. The old Post Office building (frame) is on lot 2, while in the rear occupying portions of lots 1 and 2, is an old dilapidated rotten frame building occupied by Mr. A. Peele, who is, I believe, an officer of the Meteorological Service. He has, I hear, paid no rent for years. Both of these frame buildings should be pulled down and the material removed. With the exception of the bricks in the chimneys, the materials of which these buildings are composed are altogether worthless. Some one might be found to pull down the buildings and remove them for the material, but I doubt it. Value of lots 1 and 2, block 14, is \$50,000.

Tracings showing the lots above described, with the buildings thereon, are here-

with inclosed.

Yours obediently,

F. C. GAMBLE,

Resident Engineer.

THOS. FULLER, Esq.,
Chief Architect, Department of Public Works,
Ottawa.

[1892]

228

APPENDIX No. 21.

DETAILED STATEMENT OF EXPENDITURE

ON ACCOUNT OF

REPAIRS, ETC.

TY

PUBLIC BUILDINGS, CANADA

For the Fiscal Year ended 30th June, 1892

ВУ

O. DIONNE, Esq., ACCOUNTANT

APPENDIX No. 21.

2224 1387161 .oN DETAILED STATEMENT Of Expenditure on account of "Public Buildings, Repairs," &c., for Fiscal Year ended 30th June, 1892. 86.28 Grand total. **418484888888** 88888 25 28258 28258 83: 8 mgs, ac. 8 Maintenance of build-90 :8 :88 8 20 :8 cts. Furniture, carpets, &c. cts, Rent. cts. Мадев. 23888 42884 .a644E **5848** 22823 raisqer rot latoT 853 58888 :ଛ :88 Sundries :8 3 7296 pairs, &c. Extraordinary re-**6** REPAIRS. :88 8 Painting, glazing, 8 work, plastering, 96 Brick and stone-Lumber, &c. 46 and chimney tops, Repairing roofs 88258 :8 8 Hardware, metal-work, plumbing, প্ল ဥ္ကဏ္ဏ ဝန္တ 137 Charlottetown Dom. building.. Montague post office....... Summerside do post office Chatham post office...... Annapolis do Antigonish do Baddeck Halifax examining warehouse Prince Edward Island. NAME OF BUILDING. New Brunswick. Nova Scotia. New Glasgow North Sydney Truro Windsor Yarmouth Dalhousie Fredericton ON

[1892]

16 00 396 80	130 90	1 50 1 50 47 90 47 90 6 50 8 41 83 9						35 59	28 29 1,106 17	6 00 6 00 10 00 48 75	25 11 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	93.0		a ton a final ton a	8 8 8	
380 80	280 00 13	47 90 72 40				299 42			3,720 88				4 .08		2 00	174 88 162 95
	d280 00	47 90 90 15		_		e250 00 49 42			<i>f</i> 3,720 88 481 09		58 11		£			20 13
237 50		4 00		3 00							10 186 16	00 00 00	173 00		20.00	
258 50		59 25	5 50	2 30					52 85	38 75		12 00 54 50 19		o de comité de c		154 75 51 88
			27 St. Martin's do	29 Sussex do 30 Woodstock do	Quebec.	31 Aylmer post office32 Chicoutimi marine hospital	33 Costicook post office	36 Montrealcustom-house.		40 do clerk of works omce	43 do old parliament grounds 44 do post office	46 Sorel do	48 St. John's do	Ontario.	51 Almonte post office	53 Barrie do 54 Belleville do

d Repairing buildings and fence, as per agreement. e Construction of a pathway. f Amount paid for special repairs.

a Taxes included, \$217.50. b Commission paid to architects on expenditure for repairs. c Digging artesian well.

APPENDIX No. 21.-Expenditure on account "Public Buildings, Repairs," &c.-Concluded.

	or ia.				,	·F	-		`	- '	••	Ī	~,										1)	••	•	OJ
	·oN		:	_	• 67	თ -	4 n	၁ ဖ	۰.	· ∞	6	2:	12	13	14	9;	21	32	9 =	36	3 5	48	4 8	3 2	33	81
	Grand total.	& cts.	13,284 44																							463 11
olind	Maintenance of lings, &c.	& cts.	441 42 1,637 15	31,78		:		25			:	:	: 0				47 05				3 6		:	:		14 50
co.	Furniture, carpets,	♣ cts.	441 42			192 50	:	:			4 20		3 *11	40 00	:	:	:	:	:	:	:			9 0		104 73
-	Rent.	s cts.	869 00 1,678 64			:	:	:			90 00:	:	:			:	:	:	:		:	:		900 00	:	
	Wages.	& cts.	00 698					:	:		:	:			:		:	:	:	:	5	3	:		478 00	
	eriader refairs.	ee cts.	8,658 23		17 14							20 5 20 5		6 52												343 88
	Sundries.	s cts.	1,182 79		3 7		-					88	:		:	: ;	33		3	02 20	60 70	0 0	35	9 20	22 77	131 39
	Fxtraordinary re- paire.	cts.	4,977 15 1,182 79		: :							00 001			:		1010 St					:	:	08 668	200	
REPAIRS.	Painting, glazing, &c.	es cts.	96 062		:8		- : :	06 9			:	:	:	6 52	704 20	:	:		9 F							12 00
æ	Brick and stone work, plastering, &c.	& cts.	255 00	-				22.29	:		:	:			:	:			:			:				
	Lamber, &c.	e cts.	88 10				:	:				:	: : <u>:</u>			:	:	:	:	:			25.50			
	Repairing roots, and chimney tops, 5.25	s cts.	162 15				31 00	: -	:	: :		:	:			:	:	:	:		•		3	:		118 53
	Hardware, metal- work, plumbing, &c.	e cts.	1,202 08			1 87		21 12	ਨੇ - - -			17 57			-	::	72 67	_		75	10 21	:		3 S	3	81.96
	NAME OF BUILDING.		Brought forward	a-	2 Brampton post office.	op	op		000		op	op	Ligananoque custom-nouse	do do	ф	5 Kingston civil service ex. office	custom-house	post omce	do	la London custom-nouse	do post omce	21 Napanee do	uls post omce	do do	toffice	26 do printing bureau
	NAME		Brou Ontari		Berlin post Kramnton	Brantford	Brockville	5 Cayuga	Chatham	8 Cornwall	9 Dundas	lo Galt	1 Gananoque custom-	3 Guelph	4 Hamilton	Kingston c	op.		SLindsay	London cur	op t	Napanee	Nagara ra	Orangeville Ottows geo	do pos	do prii
	No.	ļ , 			18	392	₹]	200	9 6	- 80	6	9;	19	13.	7	Ç.	9;		20,5	6	3	2	7 8	3 2	1 %	8

882826528888888888888888888888888888888	26 46 45 46 46 46 46 46 46 46 46 46 46 46 46 46	888 89 888 81 8888 82 888 82 888 83 888 84 84 848 84
28 28 11 28 22 11 20 22 22 24 24 24 24 24 24 24 24 24 24 24	1,232 23 E 9 9 113 E 111	81 8 22 9 51 0 522 4 6 0 108 0 2 2 2 2
2,868 30 2,868 31 3,755 37 3,755 37 1,750 37 1,7	107 75 8 90 5 10 3 00	22 98 51 00 102 42 6 00 2 90 2 90 5,196 13
31 50		8,729 50
122 60		4,331.24
6,722 35	1,125 00	420 00
28 28 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	14 66 14 83 10 83 11 72 71 17	81 33
860 84 80 80 80 80 80 80 80 80 80 80 80 80 80	2 50	81 33
		7,709 90
8 11 15 8	12 16	9,659 43
8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		1,784 78
61 68 4	11:	5,719 34
		2 2,834 25
	4 32 10 83 60 75	m m 11,28672
28 Peterborough post office. 29 Port Colborne do 30 Port Hope do 31 Prescut 28 Rideau Hall 28 Stratford post office. 34 Stratford post office. 35 Str. Thomas do 36 St. Thomas do 36 St. Thomas do 37 Toronto civil service ex. office do eustom-house. 39 do eustom-house. 30 do inland revenue office. 41 do post office. 42 Trenton do 43 Walkerton do	Manitoba. 45 Winnipeg clerk of works office 46 do custom-house 47 do dom. lands office 48 do examining warehouse 49 do Indian office 50 do post office	North-west Territories. 11 Fort McLeod custom-house. 12 Moosomin court-house. 13 Prince Albert do 14 Regina clerk of works office. 15 do jail and lunatic asylum 16 do post office. 11,
28) Feterborough 1 29) Fort Colborne 31 Frescott 28 Rideau Hall 28 Stratford poet 34 Stratfory of 35 St. Catharines 36 Catharines 37 Toronto civil se 38 do examine 39 do examine 39 do examine 30 do examine 30 do examine 31 Toronto civil se 32 Toronto civil se 33 Toronto civil se 34 Toronto civil se 35 All 41 Windsor do 44 Windsor do	Winnipe do do do do do do	Nort Fort Mc Mossom SPrince A Regina c do c do j do j
8—16 8—2 <u>4 </u>	មុខមុខ ្លួន [1892]	<i>ជិ</i> និ និ និ ន ន

g Repairing damages by fire.

h Balance of granolithic pavement and commission on repairs, January, 1888, to March, 1891.

j Granolithic pavement.

k Reconstruction of tower clock

APPENDIX No. 21.—Expenditure on account "Public Buildings, Repairs, &c."—Concluded.

	No		<u>:</u>		-	69	
	Grand total.	cts.	150,016 93		39 66	37 13	150,684 72
blint	Maintenance of F ings, &c.	cts.	50 5,196 13		99 98	:	5,226 79
.ozo	Furniture, carpets,	· ••				:	24 8,729 50
	Rent.	es cts.	4,331 24			:	4,331
	Wages.	e cts.	88,907 77 4,331 24 8,729		:		88,907 77
	.erisqer rol fator	& cts.	42,852 29	•		37 13	42,889 42
	səinband.	& cts.	3,857 87		:	37 13	3,895 00
	Extraordinary re-	ets.	06 602,2				7,709 90 3,895
REPAIRS.	Painting, glazing, &c.	es cts.	9,659 43			:	9,659 43
RE	Brick and stone work, plastering, &cc.	cts.	5,719 34,1,784 78 9,659 43				1,784 78 9,659
	Lumber, &c.	e cts.	5,719 34				28672 2,834 25 5,719 34
	Repairing roofs, and chimney tops, &c.	cts.	28672 2,834 25				2,834 25
	Hardware, metal- work, plumbing, &c.	cts.	11,28672		: :	:	11,28672
	NAME OF BUILDING.		Brought forward	England.	London High Commissioner's	Generally. 2 Public buildings generally	Totals.
	No.	!		[18	39 2]	ବୀ	

Public Works Drpartaent, Contains Ottawa, 26th December, 1892.

DOMINION OF CANADA

ANNUAL REPORT

OF THE

DEPARTMENT OF RAILWAYS AND CANALS

FOR THE PAST

FISCAL YEAR FROM 1st JULY, 1891, TO 30th JUNE, 1892

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

1893

[No. 9—1893.] Price 20 cents.

To His Excellency the Lord Stanley of Preston, P.C., G.C.B., &c., &c., Governor-General of Canada, &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, 1891, to the 30th of June, 1892.

All of which is respectfully submitted,

JOHN HAGGART,
Minister of Railways and Canals.

OTTAWA, February, 1893.

CONTENTS OF REPORT.

RAILWAYS.

GENERAL	STATEMENT.	PAGE.
	Summary of general railway statistics	18 18 18
CANAD	IAN PACIFIC RAILWAY:	
	Distance—Trunk line. Interest guarantee agreement. Agreement re cancellation of North Shore Bonds. Arbitration re Government work in B.C.	19 19 20 21
GOVERNM	ENT RAILWAYS:	
	Length of lines General financial position.	22 23
Interc	COLONIAL:	
	Table of distances Connections with other roads Expenditure on Capital Account do Revenue Account. Gross earnings and working expenses of the year. Comparative traffic statistics. General items. Windsor Branch Annapolis and Digby. Carleton Branch.	23 24 25 25 26 27 28 29 29
Princi	E EDWARD ISLAND RAILWAY:	
	Distances on line and extensions	29 29 30
GOVERNM	ENT ACTION AS TO SUBSIDIZED LINES:	
Albert Albert Baie d Beauh Brand	al statement showing aggregate of payments since 1883 Southern Railway Company Es and Athabasca Railway Company les Chaleurs Railway Company arnois Junction Railway Company on and South-Western Railway Company ford, Waterloo and Lake Erie Railway Company ix	31 32 58 32 34 58 35

Department of Railways and Canals.

GOVERNMENT ACTION AS TO SUBSIDIZED LINES—Continued.

	PAGE.
Brockville, Westport and Sault Ste. Marie Railway Company	34
Buctouche and Moncton Railway Company	35
Calgary and Edmonton Railway Company	59
Canadian Pacific Railway Company	6Q
Central Railway Company of New Brunswick	. 35
Chignecto Marine Transport Company	36
Columbia and Kootenay Railway and Navigation Company	37
Cornwallis Valley Railway Company	37
Cumberland Railway and Coal Company	38
Drummond County Railway Company	38
Great Eastern Railway Company	38
Great Northern Railway Company	39
Great North-west Central Railway Company	61
Hereford Railway Company	40
Irondale, Bancroft and Ottawa Railway Company	40
Joggins Railway Company	41
Lac Seul Railway Company	62
Lake Temiscamingue Colonization Railway Company	41
Manitoba and North-western Railway Company	62
Manitoba and South-eastern Railway Company	62
Manitoba South-western Colonization Railway Company	63
Montreal and Champlain Junction Railway Company	42
Montreal and Sorel Railway Company	42
Montreal and Western Railway Company	43
Montreal and Ottawa Railway Company	43
Medicine Hat Railway and Coal Company	63
Napanee, Tamworth and Quebec Railway Company	43
New Glasgow Iron, Coal and Railway Company	44
North-western Railway Company of Canada	64
North-western Coal and Navigation Company	63
Nova Scotia Central Railway Company	45
Ontario and Pacific Railway Company	45
Ontario and Quebec Railway Company	45
Orford Mountain Railway Company	45
Oshawa Railway and Navigation Company	47
Ottawa, Arnprior and Parry Sound Railway Company	46
Ottawa and Gatineau Valley Railway Company	46
Parry Sound Colonization Railway Company	47
Pontiae Pacific Junction Railway Company	48
Port Arthur, Duluth and Western Railway Company	47
Quebec Central Railway Company	49
Quebec and Lake St. John Railway Company	49
Quebec, Montmorency and Charlevoix Railway Company	51
Red Deer Valley Railway and Coal Company	65
Shuswap and Okanagan Railway Company	51
St. Catharines and Niagara Central Railway Company	52
St. Clair Frontier Tunnel Company	52
Stewiacke Valley and Lansdowne Railway Company	53
St. John Valley and Rivière du Loup Railway Company	53
St. Lawrence and Adirondack Railway Company	54
St. Lawrence, Lower Laurentian and Saguenay Railway Company	54
Temiscouata Railway Company	55
Tobique Valley Railway Company	55
Thousand Islands Railway Company	56
Vaudreuil and Prescott Railway Company	56
Waterloo Junction Railway Company	56
Western Counties Railway Company	57
West Ontario Pacific Railway Company	
Winnipeg and Hudson's Bay Railway and Steamship Company	

Description.....

Extent of navigable and unnavigable reaches.....

91

91

94

94

Department of Railways and Canals.

MAPS.

(BETWEEN REPORT AND APPENDICES.)

- 1. General map of the Dominion.
- 2. Nova Scotia, Cape Breton, Prince Edward Island and part of New Brunsw
- 3. New Brunswick and parts of Maine and Quebec.
 - do do taking in Montrea.
- 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.

DIAGRAM.

River St. Lawrence Canals.

APPENDICES.

		PAGE.
	O. 1.—STATEMENT of Expenditure during fiscal year.	1
do	2.—Total Expenditure, Construction and Enlargement of each Canal	2
	Recapitulation	13
	Railways	14 19
do	3.—Payment to Railways on Subsidy account.	20
do	4.—Report on Railway construction, &c., by Collingwood Schreiber, Chief Engineer—	20
	Canadian Pacific Railway	24
	Train Ferry across Strait of Canso.	25
	Oxford and New Glasgow Railway, section of Intercolonial Railway	26
	Cape Breton Railway	26
	Digby and Annapolis Railway	26
	Railways subsidized in Cash, Rails and Land	27
	do by fixed sums for a series of years	30
	Cost of Railways built by Dominion Government, transferred to Cana-	
	dian Pacific Railway	3 0 ·
	Cost of Dominion Government Railways	30
	Subsidies granted by transfer of old rails	31
	do by Land grants	31
4a—General	Report on Government Railways in operation, by Collingwood Schreiber, Chief	
	Engineer and General Manager of Government Railways—	
	Intercolonial Railway	32
	Windsor Branch Railway	32
	Prince Edward Island Railway	33
REPORTS	OF SUPERINTENDENTS, &c. :— GOVERNMENT RAILWAYS.	
Intercolo	onial Railway—	
	ort by D. Pottinger, Chief Superintendent	43
do		48
de		57
do		65
· do	J. Sutton, Accountant	67
Ret	urn of Accidents and Casualties	72
	Extension Railway—	
	ort by D. Pottinger, Chief Superintendent	74
ď		$7\hat{4}$
Windson	r Branch Railway—	
	ort by D. Pottinger, Superintendent	78
do		80
de		82
	Edward Island Railway	~-
	ort by J. Unsworth, Superintendent and Mechanical Superintendent	83
de		87
de		93
	urn of Accidents and Casualties.	100
2000	xiii	100
Δ.		

Department of Railways and Canals.

CANALS.

	Report of C. Schreiber, Chief Engineer of Canals	101
	MONTREAL DIVISION.	
	E. H. PARENT, Superintending Engineer.	
APPENDIX No	O. 5.—Report on Lachine Canal Beauharnois do Chambly do St. Ours Lock do Survey Richelieu River—Lake St. Louis Channel, Lake St. Louis Statement of depth of river water on sills at the entrance of the Lachine, Beauharnois and Chambly Canals and St. Ours Lock Statement of fines, damages, &c., collected on above Canals	101 103 104 108 109
	St. Lawrence Districts.	
•	T. S. RUBIDGE, Superintending Engineer.	
APPENDIX No	o. 6.—CORNWALL CANAL—Maintenance. do Enlargement—Construction. WILLIAMSBURG CANAL—Maintenance. do do Enlargement—Construction. do Farran's Point do Rapide Plat. do Galops. MURRAY CANAL—Maintenance. do Construction. SURVEY—St. Lawrence Canals STATEMENT of Highest and Lowest Water Levels.	115 116 118 119 119 121 123 124 124 126
	OTTAWA RIVER CANALS.	
	ERNEST MARCEAU, Assistant Superintending Engineer.	
Appendix No	o. 7.—Ste. Anne's Lock Carillon Canal do Dam Grenville Canal Culbute Canal	127 127 127 128 128
1	Appendix No. 8.—Soulanges Canal.	
	Thomas Monro, M. I. C. E.	
	WELLAND CANAL.	131
Appendix No	W. G. THOMPSON, M. Inst. C. E. o. 9.—Welland	134 134 137
do	11.—Trent Valley Canal.	140
do	R. B. ROGERS, Superintending Engineer. 12.—SAULT STE. MARIE CANAL	142
do	13.—St. Peters Canal. W. McCarthy, Resident Engineer.	147
do	14.—St. Lawrence Navigation—Table of distances	148
do do	15.—Table of distances of stations between Ottawa and Kingston 16.—Table showing date of the closing of the Canals in 1891 and of their opening in 1892	149
do	17.—STATEMENT OF CONTRACTS entered into between 1st July, 1891, and 30th June, 1892	150 151

Sessional Papers (No. 9.)

56 Victoria.

A. 1893

Appendix	k No. 18—General Statement, showing:	
	1st. Water power and other public property leased on Canals and Railways	
	during the fiscal year ended 30th June, 1892	154
	2nd. Property purchased and property sold by the Department during the fiscal	
	year ended 30th June, 1892	156
	3rd. List of agreements respecting subsidies	163
do	19.—Alphabetical List of Railways for which Subsidies have been voted by Par-	
	liament	164
do	20.—List of Railways subsidized by acts passed in each year	175
	CANALS REVENUE AND STATISTICS.	
TABLE of	contents	iv
GENERAL	REPORT on Canals Revenue by C. Schreiber, C.E., Chief Engineer of Canals	1
T.,,,,,,,	Garal Barrage and Statistics (Post 9)	101

REPORT.

1891-92.

To HIS EXCELLENCY

THE LORD STANLEY OF PRESTON,
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 30th June, 1892.

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 Nos. 1, 2 and 3) 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.*

There is prepared by this department, and laid before Parliament annually, a special statistical report, embodying returns 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 this compilation, being returns made for the fiscal year ended on the 30th of June, 1891, the last issued, will be of interest.

The number of railways, including the Government roads, in actual operation (embracing under one head all amalgamated lines), was 76. The number of miles

^{*}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 the 30th of September, 1892, and the General Report contains information on points of interest relating to subsidized lines of railway up to the end of December, 1892.

of railway completed was 14,633 (besides 1,665 miles of sidings), of which 13,869 were laid with steel rails. There were 14,009 miles of railway in actual operation The paid up capital amounted to \$816,622,758. The gross earnings of all these railways amounted to \$48,192,099, and their working expenses to \$34,960,449, leaving the amount of the net earnings \$13,231,649. The number of passengers carried was 13,222,568, and 21,753,290 tons of freight were conveyed over these roads. total number of miles run by trains was 43,399,178.

The following list shows the total amount, charged to Capital Account, expended by the Government for construction of Railway Works, embracing the period prior to Confederation and extending down to the 30th of June, 1892:

Intercolonia! Railway	\$ 47,156,132	6 3
(a) Eastern Extension Railway	1,324,042	81
(a) Oxford and New Glasgow Railway	1,825,192	14
(a) Montreal and European Short Line Railway	333,924	
(a) Cape Breton Railway	3,641,131	19
(b) Carleton Branch Railway	88,410	4 8
Prince Edward Island Railway	3,750,565	38
Canadian Pacific Railway-Works built by the		
Government and transferred to the Canadian		
Pacific Railway Company	30,404,577	65
Canadian Pacific Railway - Other expenditure on		
surveys, explorations, telegraph lines, Dawson		
Route, Fort Frances Lock, &c	6,639,581	43
Annapolis and Digby Railway	614,789	27
	\$95,778,347	71
SUBSIDIES TO RAILWAYS.		
Canadian Pacific Railway	\$25,000,000	00
(c) Canadian Pacific Railway Extension to Quebec		
(d) Canada Central Railway	1,525,250	00
(e) Other Railways		
:	\$133.498.705	98

This amount does not include the annual subsidy of \$186,600 payable for 20 years to the Atlantic and North-west Railway Company; nor the annual payment of \$119,700 to the Provincial Government of Quebec, being 5 per cent on the sum of \$2,394,000 granted by 47 Vic., ch. 8 (1884), for the line between Ottawa and Quebec. Both these items are dealt with by the Finance Department.

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):-

⁽a) Now included in the Intercolonial Railway system.
(b) To be transferred to the Corporation of St. John, N.B.
(c) 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.
(d) Including \$85,250 refunded to the Town of Pembroke.
(e) Including value of old rails transferred, \$152,305.20

Intercolonial Railway Route—	3613	
By Intercolonial Railway to Point LévisGrand Trunk Railway to Montreal	173	0.40
(Or by ferry across the St. Lawrence to Quebec, thence by North Shore Railway, C.P.R., also 173 miles).		848
Canadian Pacific Railway Route—		
By Intercolonial Railway to St. John, N.B New Brunswick Railway and Maine Central Rail-	Miles. 275	
way to Mattawamkeag	146	
Canadian Pacific Railway to Montreal	334	
		755
Grand Trunk Railway Route-		•
·	Miles.	
By Intercolonial Railway to St. John, N.B	275	
New Brunswick Railway	90	
Maine Central Railway	224	
Matal un to Danville Tunation	<u> </u>	
Total up to Danville Junction	589	
By Grand Trunk Railway to Montreal	270	859
Témiscouata Railway Route-		000
	Miles.	
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 this company will be found in the Annual Report of this department for the year 1887.

Trunk Line. Miles. Quebec to St. Martin's Junction (13 miles north of Montreal) 159 Montreal (at the head of Atlantic Ocean navigation) to St. Martin's Junction..... 13 St. Martin's Junction to Callander..... 331 Callander to Port Arthur..... 649 Port Arthur to Red River (opposite Winnipeg)... 428 Red River to Savona's Ferry..... 1,257 Savona's Ferry to the waters of the Pacific Ocean at Port Moody..... 2,547 Port Moody to Vancouver on Burrard Inlet..... 15 Total, Montreal to Vancouver, Burrard Inlet.....

This railway was opened for through traffic on the 28th of June, 1886.

By the Act 51 Vic., c. 32, approval and ratification were 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 By this agreement, the Government undertook to south-west, were removed. guarantee the payment of interest at 31/2 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 fifteen 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., ch. 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 sections, 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 three hundred thousand dollars, 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 itself to carry out the improvements called for by the Act, expending the moneys 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, A.D. 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.

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 beween 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 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 January, 1888. The arbitrators made their award, 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 having been \$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 so awarded was to be expended under the supervision of an officer of the Government, for the improvement of the railway in certain specified directions.

There remain still to be dealt with by the arbitrators two unimportant claims in respect of steel rails.

^{*} The date of the company's contract.

The award included the sum of \$202,675.20 for works executed during the progress of the arbitration, leaving the balance, \$376,580, to cover work remaining to be done.

The total value of the work so executed up to the 31st of August last, as returned by the Government officer in charge, is \$319,757.74, leaving the sum of \$259,497.46 still to be expended.

The company, in addition to the above, are making heavy permanent improvements throughout in the substitution of solid embankments and steel structures for wooden trestle bridges, the construction of retaining walls, the reduction of grades and the laying of heavier steel rails.

It should be noted that for the year ended on the 30th of June, 1892, the company had under traffic 5,767 miles of railway, and that its gross receipts were \$21,032,120.13 as against \$18,672,174 the previous year. The total for working expenses was \$12,654,498.42, making the net earnings \$8,377,621.71.

GOVERNMENT RAILWAYS IN OPERATION.

During the fiscal year 1891 certain new railway works built by the Government were first operated for traffic, and by a special Act, 54-55 Vic., ch. 50, were, together with the "Eastern Extension" section, embodied in the Intercolonial system. These additions were as follows:—

Oxford Junction to Brown's Point Junction and Pugwash, 72½ miles, opened on the 15th of July, 1890; (constructed as a part of the Intercolonial Railway under the Act 50-51 Vic., ch. 27), and the Cape Breton Railway, of which the portion from Point Tupper to Grand Narrows, 46 miles, was put under traffic on the 1st of January, 1891, and the portion from Grand Narrows to Sydney and North Sydney, and a connection with the International Coal Company's Railway at Sydney, 52½ miles, was opened on the 24th of November, 1890.

The several lines maintained by the Government during the past fiscal year, ended the 30th June, 1892, were:—

The Intercolor	nial 1,142	Miles.
do	wharf branches 12½	
		1,1541
Windsor Bran	ch (maintained only)	32
Prince Edwar	d Island Railway	211
	-	
Total	mileage length	1,3971

The through ocean mail line from Point Lévis, opposite Quebec, to Halifax, is 675 miles in length.

Details respecting these railways and their operations will be found in Appendices Nos. 4 and 4a, containing reports from the Chief Engineer and General Manager, and from the Chief Superintendents and other officials of these roads:—

The general revenue accounts for 1891-92 show the following as the financial position of these roads for the past fiscal year and the average mileage:—

	Average mileage of the year.	Workin expense		Earnings.		Profit.		Profit.		Loss.	
		\$	cts.	8	cts.	\$	cts.	\$	cts.		
Intercolonial, including the Eastern Extension the Oxford and New Glasgow and the Cape Breton Railways Windsor Branch (earn- ings, one-third of en- tire receipts; expend-	1,142	3,439,37	7 00	2,945,44	1 97			493,935	03		
iture on maintenance.) Prince Edward Island		19,51 289,70				13,994		132,263	69		
						13,994	48	626,198 13,994			
Total average mileage	1,375	/ • • • · • • • • • • • • • • • • • • •	•••••	Net	loss		••••	612,204	24		

INTERCOLONIAL RAILWAY.

The Intercolonial Railway touches six Atlantic Ocean ports, namely, Pointe du Chêne, Pictou, Halifax, St. John, Sydney and North Sydney. The following list shows its through lines and branches, in sequence—commencing from the west. 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 (including wharf and freight branches) is 1,1542 miles.

•	Miles.
Chaudière Junction to Lévis	8
Lévis to St. Charles Junction	14
Chaudière Junction to St. Charles Junction	17
St. Charles Junction to Dalhousie Junction	299
Dalhousie Junction to Dalhousie (Dalhousie Branch)	7
Dalhousie Junction to Derby Junction	101
Derby Junction to Indiantown (Indiantown Branch)	14
Derby Junction to Moncton	75
Moneton to ST. JOHN	89
Moneton to Painsec Junction	7
Painsec Junction to Pointe du Chêne (Shediac Branch)	11
Painsee Junction to Oxford Junction	71
Oxford Junction to Pugwash Junction)	15
Pugwash Junction to Pugwash Pugwash Junction to Brown's Point. Brown's Point to Pictou	5 52 2

- · · · · · · · · · · · · · · · · · · ·	
Oxford Junction to Truro	46
Truro to Richmond	61
Richmond to Dartmouth (Dartmouth Branch)	5
Richmond to HALIFAX	1
Truro to Stellarton Junction	41
Stellarton Junction to Brown's Point	12
Stellarton to New Glasgow	2
New Glasgow to Pictou Landing	8
New Glasgow to Port Mulgrave	80
Ferry to Point Tupper,	1
Point Tupper to North Sydney Junction	7 9
North Sydney Junction to { NORTH SYDNEY	5
North Sydney Judeton to SYDNEY	13
Wharf and Freight Branches.	
	Miles.
Rimouski to wharf	2
Newcastle, N.B., to deep water wharf	2
Dorchester to shipping wharf	1
Sackville to shipping wharf	0.5
Stewiacke to wharf	1
Rivière du Loup town to wharf	4
Courtney Bay to wharf	1
Branch to Halifax cotton factory	1
·	10 5
	$12 \cdot 5$
The following are the through distances:—	
	Miles.
Lévis (opposite Quebec) vià St. Joseph & St. Charles Junction (14	a==
miles) to Halifax	675
Lévis (opposite Quebec) viâ St. Joseph & St. Charles Junction (14	
miles) to St. John	578
Lévis (opposite Quebec) $vi\hat{a}$ Truro $\left\{ egin{array}{ll} ext{to Sydney} \\ ext{to North Sydney} \end{array} ight.$	827 820
Note.—At Levis, passengers make connection with the Canadian I	acific 1
way and with the Grand Trunk Railway. Freight is carried direct ale	

Railway and 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.

Traffic connection is made with other railways, as follows:-

At.	Lévis	with the	Canadian Pacific Rv.
	Lévis	do	Grand Trunk Ry.
	Lévis	do	Quebec Central Ry.
	Chaudière Junction	do	Grand Trunk Ry.
	St. Henri	do	Quebec Central Ry.
	Rivière du Loup	do	Temiscouata Ry.
	Metapediac	do	Baie des Chaleurs Ry.
	Gloucester Junction	do	Caraquet Ry.
	Indiantown	do	Canada Eastern Ry.
	Chatham Junction	do	Canada Eastern Ry.
	Kent Junction	do	Kent Northern Ry.
		3	xiv

		•	
Salisbury	with the	Salisbury and Harvey Ry.	
Petticodiac	do	Elgin, Havelock Ry.	
Norton	do	Central Ry. of New Brunswick.	
Hampton	do	Central Ry. of New Brunswick.	
St. John	do	Canadian Pacific Ry.	
Buctouche Junction	do	Buctouche and Moncton Ry.	
Sackville	do	New Brunswick and Prince Edward Ry	
Maccan	· do	Joggins Ry.	
Spring Hill Junction	do	Cumberland Coal and Ry. Co.	
Salt Springs Junction	do	Spring Hill and Oxford Ry.	
Windsor Junction	do	Windsor and Annapolis Ry.	
Ferona Junction	do	New Glasgow Iron, Coal and Ry. Co.	
Sydney do International Coal Company's Ry.			
	Capital	Account.	
The total cost of the w under the Act 54-5; the 30th June, 189 The additions during the June, 1892, details will be found in Superintendent(Ap	Vic., ch 1, was he fiscal and expl the rep ppendix 4	1. 50 (1891), up to	
Making the total expend tal" up to the 30th			

The additions of the year included \$10,297.65 for the train ferry between the mainland and Cape Breton; \$48,745.23 expended on construction account of the Oxford and New Glasgow Railway; \$89,639.31 similarly expended on the Cape Breton line; \$79,960.42 in the acquisition of property at St. John for increased accommodation; \$45,171.27 for the settlement of land claims on the St. Charles Branch, and \$22,026.25 in fitting the automatic air brake to freight cars and locomotives and in supplying steam heating apparatus to rolling stock.

Revenue Account.

The gross expenditure for the year was The earnings were		3,439,377 2,945,441	
Excess of expenditure over earnings.	8	493,935	03
Compared with the previous year, 1890-91, the earning	8 V	vere as foll	ows:-
Passenger traffic, 1890-91	\$	962,316	88
do 1891-92		961,427	94
Decrease	8	888	94
Freight traffic, 1890-91	\$	1,854,629	88
do 1891-92	1	1,803,529	03
Decrease	g	51 100	85

Mails and sundries, 1891-92do 1890-91	\$	180,485 160,448	
Increase	\$		38
Decrease			 .
The number of passengers carried compares with the pr	ev:	ious year	as follows:-
1890-91 1891-92			
Decrease			572
The quantity of freight carried compares with the previous	iou	s year as	follows :—
1890-91 1891-93			534
Decrease			959

The value of stores, including fuel and steel rails, on hand at the end of the fiscal year 1891-92, was \$723,864.62. Of this amount, old material to the value of \$131,-482.03 was for sale.

In the subjoined reports of the Chief Engineer and General Manager of Government Railways, the Chief Superintendent of the Intercolonial Railway, the Accountant of the railway and the head officers of the several departments which compose it, will be found statistical and other detailed information.

The following will show certain of the more important features of operation compared with the previous year:—

			1890-91.	1891-92.
The average	number of n	niles in operation		
was			1,094	1,142
The number	of miles run	by engines	6,080,791	5,641,888
do	do	trains	5,027,791	4,703,151
do	do	cars	56,492,801	51,940,141
		:		

The percentages earned by the several classes of traffic were as follows, compared with the previous year:—

Passenger traffic percentage Freight do do	$1890-91.$ $32 \cdot 32$ $62 \cdot 29$ $5 \cdot 39$	1891-92. 32·64 61·23 6·13
	100	100

•	1890-91.	1891-92.	
The expenses as per mile run by engines amounted to	60·23 cts.	60.96 cts.	
The expenses as per mile run by trains amounted to	72·84 cts.	73·13 ets.	
The expenses as per mile of railway amounted to	\$3,347 66	\$3,011 71	

GENERAL OBSERVATIONS.

Compared with the traffic of the previous year, the following are the results in specific features: The number of passengers carried was 1,297,732, a decrease of 572. Of barrels of flour there were carried 904,015, a decrease of 59,114; of grain, 3,776,677 bushels, an increase of 885,756. Of this quantity 1,265,497 bushels were carried to Halifax for shipment, an increase of 1,047,160 bushels; of lumber, 175,474,340 feet, a decrease of 8,713,984; of live stock, 87,889 head, a decrease of 7,640; of coal from the Nova Scotia collieries the total quantity carried was 433,806 tons, a decrease of 64,232 tons. Of this, 392,441 tons were carried to local stations, the balance, 41,365 tons, going west; of sugar, raw, 21,637 tons, an increase of 3,664 tons; refined, 32,721 tons, an increase of 16,127 tons; of fresh fish, 3,660 tons, a decrease of 3,005 tons; salt fish, 4,763 tons, a decrease of 2,343 tons.

The grain traffic showed a great increase during the past year, but the rate charged, $\frac{19}{100}$ of a cent per ton per mile, does not pay the cost of transportation, especially in the winter season. The increase was in the items, oats, barley, and peas for shipment at Halifax. The present facilities for storage are inadequate to meet the requirements of the rapidly growing trade.

The application of the system of steam heating for passenger trains, direct from the locomotive, has been further extended, as also the application to freight trains of the Westinghouse automatic air brake.

The substitution of 67 lb. steel rails for the lighter rail has been carried out during the year over 43 miles of this railway.

A severe storm carried away about 1,000 feet of the trestle bridge which crosses the "Narrows," at Halifax harbour, stopping railway communication with Dartmouth. The work has been rebuilt at a cost of \$32,000. The trestle work on the deep water wharf, at Halifax, was also destroyed by the same storm.

In consequence of the mildness of the winter, the cost of snow clearing was considerably less than usual, and the traffic was seldom delayed.

The road and its equipment have been maintained in an efficient manner.

By a thorough revision of the operations of the railway and its staff, it has been found practicable to make a considerable reduction in its expenditure without detriment to its effective working. The measures adopted in this view have been satisfactory, and the loss on the year's operations, instead of being greater than last year, is less by \$155,170.93, notwithstanding the reduction in the earnings of the road.

Details and statements relating to maintenance, operation and traffic will be found in the appendices, which contain the reports of the chief engineer, the chief xxvii

superintendent and other officers. (See Appendix No. 4a, p. 32, and following pages.)

WINDSOR BRANCH.

This road is 32 miles in length. It extends from Windsor Junction, on the Intercolonial Railway, to Windsor.

The Windsor and Annapolis Railway Company operate this line. The company pay all charges in connection with the working of the traffic, two-thirds of the gross earnings being allowed them for such purpose; the Government taking the remaining one-third, and assuming all costs of maintenance of the road and works.

The agreement, dated the 21st of September, 1871, as to traffic arrangements and running powers over the trunk line between Windsor Junction and Halifax, and the use of the Windsor Branch, contained the following provisions as to time of enjoyment, and renewal of same:

"21. This agreement shall take effect on the first day of January, 1872, and continue for 21 years, and be then renewed on the same conditions, or such other conditions as may be mutually agreed to."

Under date the 19th of November, 1892, an Order in Council was passed authorizing, for a further term of 21 years, arrangements with the company which are practically the same as those now existing, and the agreement has been signed accordingly, under date the 13th of December, 1892.

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 earnings and expenditure for the year ended the 30th June, 1892, were as follows:—

Proportion of one-third gross earnings credited to the		
branch	\$ 33,508	85
Expenditure for maintenance of way and works	19,514	37
Government profit	\$ 13,994	48
· Government earnings, in comparison with those of the pre	vious yes	ar :
1891–92	\$ 33,508	85
1890-91	30,235	13
Increase	\$ 3,273	72
Expenditure in comparison with that of the previous year	:	
1890–91	.\$ 28.931	71
1891–92		
Decrease	.\$ 9,417	34

This road has been maintained in good order. Details will be found in the appendices. (See Appendix 4a.)

CARLETON BRANCH RAILWAY.

The road extends from Fairville, where it joins the line of the New Brunswick Railway Company, to Carleton, on the south side of the harbour of St. John, N.B., a distance of $3\frac{68}{1000}$ miles.

By the Act 54-55 Vic., chap. 15, authority was given for the sale of this railway to the corporation of the city of St. John for the sum of \$40,000, under date the 20th of May, 1891, an Order in Council was passed authorizing the completion of the arrangements for the transfer. The road will be leased to the Canadian Pacific Railway for a term of 999 years. The deed of transfer has not yet been executed.

DIGBY AND ANNAPOLIS RAILWAY.

This link of the Western Counties Railway, forming part of that line, was completed by the Government and handed over to the company for operation on the 27th of July, 1891. By means of it, and of an arrangement made with the Windsor and Annapolis Railway Company, through communication can now be had between Yarmouth and Halifax without change of cars. The final statement of the cost of the work has not yet been issued, but the expenditure up to the 31st of August, 1892, was \$614,789.27.

The construction of this section by the Government has been carried on under the authority of the special Act 52 Vic., chap. 8 (1889), an appropriation of \$500,000 contingently granted by the Act 50-51 Vic., chap. 25, as a subsidy, having by such special Act been made available, and funds for further payments having been provided by special votes. The cost over and above the \$500,000 granted is a liability of the company towards the Government.

Further information on this matter will be found in the statements in this report respecting subsidized railways under the head of "Western Counties Railway Company."

PRINCE EDWARD ISLAND RAILWAY.

DENGIA OF LINE.		
Souris to Tignish	Miles.	
Mount Stewart to Georgetown		
Charlottetown to Royalty Junction		
Emerald Junction to Cape Traverse	13	
Alberton to Cascumpec Wharf	1	
		211
This railway was first opened for traffic on the 12th of Ma	y, 1875.	
Capital Account.		
The total cost of the road and equipment charge- able to capital account at the close of the fiscal		
	3,741,780	89
Expenditure during the fiscal year 1891-92	8,300	49
Total	3.750.081	38

Revenue Account.

10000,40 21000 476.		
The working expenses and receipts for the year ended	30th of	Jun
re:		
Gross expenditure	289,706	3 8
Gross earnings	157,442	69
	<u>-</u>	
Excess of expenditure over earnings	132,263	69
The gross earnings, compared with those of the previous y	-	
1890–91		05
1891–92	157,442	69
T	10015	•>/
Decrease \$	16,815	30
The gross expenditure, compared with that of the previous	WASP WE	· · · · · · · · · · · · · · · · · · ·
- · · · · · · · · · · · · · · · · · · ·	-	
1891–92		
1890–91	257,990	80
Increase	31.716	30
		
The engine mileage was :		
4000.04	Miles.	
1890–91	•	
1891–92	307,	421
Decrease	:. 27.	781
	===	==
The train mileage was:—		
1890-91	272,	475
1891-92	•	
1001 02		
Decrease	27,	373
The any mileage was t		
The car mileage was :—	1 400	400
1890–91		
1891–92	1,304,	659
D	115	=00

The value of the stores on hand on the 30th June, 1892, including general stores, fuel, rails and old material, was \$98,358.49.

115,766

The number of passengers carried was 139,389, a decrease, compared with the previous year, of 6,119; and 51,065 tons of freight were carried, being a decrease of 8,446 tons.

The expenditure on capital account was incurred in connection with the removal of Summerside station and freight shed to another site, and the extension of the railway track to the Steam Navigation Co.'s wharf, at Charlottetown.

The falling off in the receipts is, in part, due to a reduced demand for farm produce, and to competition by steamers.

The increase of expenditure for the year is in part due to the fact that a cargo of steel rails which should have been laid in 1890-91 was lost by wreck, and consequently, the rails provided for that year were not laid until the year 1891-92, which, therefore, is charged with the new rail account of both years amounting to \$36,175.19.

Details of operations will be found in Appendix 4a.

Communication between the Prince Edward Island Railway and the Intercolonial is afforded in summer by steamer between Summerside and Pointe 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 ice-boats 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, if necessary, special trains.

GOVERNMENT ACTION AS TO SUBSIDIZED LINES.

NOTE.—The numbers within brackets after the title of the company refer to the list of railways subsidized by Parliament. Appendix 20, p. 178.

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 31st of December, 1892.

Since the system of subsidy of railway enterprise was commenced, the following are the sums paid over, namely:—

For the fiscal	year 1883-84,	ended	on June	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
фo	1890-91		do		1891		1,079,105	87
do	1891-92		do		1892	_	1,061,615	93

\$9,695,108 27

Total payments to the 31st December, 1892......\$9,957,669 34

The Canadian Pacific Railway is not included in the above, nor is the payment to the Canada Central, nor that to the Quebec Government for the line from Ottawa to Quebec, nor advances made on mortgage to the St. John Bridge Company, to the Albert Railway Company, and to the Fredericton and St. Mary's Bridge Company, nor the annual subsidy to the Atlantic and North-west Railway Company payable for 20 years. These matters are dealt with by the Finance Department.

The total number of companies to whom payments have been made on subsidy account up to the 31st December, 1892 (with the above exceptions), is 65.

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 earned and paid prior to the 1st of July, 1891.

A tabulated statement of payments will be found in Appendix 3, page 20.

Albert Southern Railway Company.

(See Nos. 36 and 157.)

By the Act 47 Vic., chap. 8 (1884), a subsidy not exceeding \$51,200 was authorized towards the construction of a line from Hopewell (now called Albert) to Alma, N.B.

Under the authority of an Order in Council of the 8th of May, 1885, a contract for this work, namely, from Albert to the mouth of Salmon River, in the parish of Alma, was made with the Albert Southern Railway Company on the 23rd of that month, the line to be completed by the 1st of July, 1887. By an Order in Council of the 4th of April, 1887, the company were permitted to change their location, a route viâ Derry's Corner being adopted.

The balance of the subsidy, \$31,771.43, unpaid in 1889, lapsed, but was revived by the Act 52 Vic., ch. 3.

During the fiscal year 1891-92 the sum of \$18,960 was paid, making the total payments to the end of the fiscal year \$50,460, covering the whole distance from the junction with the Harvey Branch to the public wharf at Alma, $16\frac{23}{100}$ miles.

Baie des Chaleurs Railway Company.

(See Nos. 6, 42 and 158.)

This company was incorporated by the Provincial Act 45 Vic., ch. 53.

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 work 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.

xxxii

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 8th 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 their agreement.

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 the 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 the 100th mile without subsidy, and have deposited bonds to the value of £83,000 stg. as security to that effect.

For subsidy purposes the time for completion was extended by an Order in Council of the 14th of June, 1888, to the 1st of January, 1890.

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 of September, 1893, and up to Gaspé Basin to the 30th of September, 1895.

Under date the 20th of November, 1892, the company have given notification that the portion of the railway between the 60th and 80th miles, is ready for inspection

No further payments have been made up to the 31st of December, 1892.

· Beauharnois Junction Railway Company.

(See No. 102.)

By the Railway Subsidy Act, 50-51 Vic., ch. 25, 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 of 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 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_{100}^{69} miles. Up to the close of the fiscal year 1889-90 the total payments amounted to \$58,900. No further payment has been made up to the 31st of December, 1892.

Brockville, Westport and Sault Ste. Marie Railway Company.

(See Nos. 48, 181, 193, 240 and 267.)

By the Act 48-49 Vic., chap. 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 the 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., chap. 5 (1892), the unpaid balances granted by 52 Vic. and 53 Vic., were revoted.

During the past fiscal year payment has been made to the extent of \$12,800 on the 4-mile section between Newboro' and Westport, making the total up to the 31st of December, 1892, \$105,200.

Brantford, Waterloo and Lake Erie Railway Company.

(See No. 104.)

By the Act 50-51 Vic., ch. 24, 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 Brantfort to Waterford. An Order of the same date approved of the location, the actual distance being 163 miles. During the fiscal year 1890-91 the sum of \$16,100 was paid, making the total payments up to the 31st December, 1892, \$52,810, the amount of subsidy applicable being \$53,600. This company has now become amalgamated with the Toronto, Hamilton and Buffalo Railway Company.

Buctouche and Moncton Railway Company.

(See Nos. 65, 101 and 248.)

By the Act 49 Vic., ch. 10 (1886), assistance was authorized for the construction of a railway about 30 miles long, to connect Buctouche, N. B., with the Intercolonial Railway at or near Moncton, the subsidy not to exceed \$96,000.

By the Act 50-51 Vic., chap. 24, an additional subsidy of \$6,400 was granted for 2 miles additional, the distance between the points named being actually 32 miles, making the total subsidy \$102,400.

Under an Order in Council of the 10th September, 1886, an agreement, dated the 14th of that month, was entered into with the Buctouche and Moncton Railway Company for the execution of this work. During the fiscal year 1890-91, there was paid the sum of \$1,600.43, making the total payments \$67,020. No further payments have been made up to the 31st of December, 1892.

By the Subsidy Act of 1892, the unpaid balance of the foregoing subsidies were revoted.

Central Railway Company of New Brunswick.

(See Nos. 40, 143, 156 and 205.)

By the Act of 1884, 47 Vic., chap. 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 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, the 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). In November, 1889, the company applied for inspection of the road as a completed work, but no portion of the subsidy was paid.

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. During the fiscal year 1890-91 there was paid the sum of \$75,639, no further payments on this account have been made up to the 31st of December, 1892.

By the Act 51 Vic., ch. 3, a grant as a subsidy to this company was authorized of certain 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 old rails to the company.

Chignecto Marine Transport Company.

(See No. 5.)

On the 3rd of February, 1882, this company (which received incorporation the same year, by Act 45 Vic., chap. 76) made a proposal to the Government for the construction of a line of railway for the transport of ships overland across the Isthmus of Chignecto from Tidnish, on Baie Verte, in the Gulf of St. Lawrence, to a point at or near the mouth of the River La Planche, in the Bay of Fundy, and by the Act 45 Vic., ch. 55, authority was given for the grant of a subsidy of \$150,000 a year, for 25 years, in aid of the work.

No definite action was, however, taken until the 6th of October, 1885, when an Order in Council was passed authorizing entry into agreement with the company, subject to the approval of Parliament; and such agreement was executed on the 4th of March, 1886. Under its terms, the subsidy payable is to be \$170,602 a year for 20 years, or such portion thereof as may be required to bring the net earnings to 7 per cent per annum on the authorized share and bond capital of the company, \$5,500,000, and to be granted only during the satisfactory performance of the services contemplated, such services comprising the raising, transport and lowering of vessels of 1,000 tons burden, registered, with full cargo. Should the earnings exceed 7 per per cent per annum, one-half of such surplus is to be paid to the Government until repayment of the whole amount received by said company under their subsidy.

By a special Act, 49 Vic., ch. 18 (1886), this agreement was confirmed and ratified.

By a further special Act, 51 Vic., ch. 4 (1888), the time for the completion of the work, for subsidy purposes, was extended to the 1st of July, 1890, with, if required, a further extension for 24 months, but under penalty.

The company duly submitted plans, and these have been approved by Order in Council. Good progress was, for a time, made, and it was expected that the works would have been completed early in 1892. They have been, however, suspended, owing, it is understood, to financial causes.

xxxvi

By the Act 54-55 Vic., ch. 12 (1891), the date for completion for subsidy purposes has been extended to 1st of July, 1893, the penal cause in this regard contained in the Act 51 Vic., ch. 4, being repealed.

By the Act 55-56 Vic., ch. 37 (1892), authority was given to the company to issue new mortgage bonds to the value of £350,000 sterling, and by an Order in Council passed on the 9th of July, 1892, a recommendation to Parliament to extend the time, further, to the 6th of July, 1894, has been promised.

Columbia and Kootenay Railway and Navigation Company.

(Leased to the Canadian Pacific Railway Company.)

(See No. 222.)

This company was incorporated by an Act of the Province of British Columbia, but its proposed works were, by the Dominion Act 53 Vic., ch. 87 (1890), declared to be for the general advantage of Canada.

It has powers to construct a railway from the outlet of Kootenay Lake, B.C., through the Selkirk Range, to a point on the Columbia River near to the point of junction of the Rivers Kootenay and Columbia; also to operate a line of steamers in this connection. Power was also given for the leasing of the said works to the Canadian Pacific Railway Company, the lease to be first sanctioned by the Governor in Council.

By the Subsidy Act of 1890, 53 Vic., ch. 2, a subsidy, limited to \$112,000, was authorized for the 35 miles of railway above described, and under date the 8th of October, 1890, the company were admitted to contract for this work, the date for completion being fixed as the 1st of December, 1891.

By an Order in Council of the 20th of August, 1890, in pursuance of the Act 53 Vic., ch. 87, sanction has been given to the lease of this railway for a term of 999 years to the Canadian Pacific Railway Company, who thereby undertake the construction of the road.

During the fiscal year, the road being completed, there has been paid the sum of \$88,800, this being the total amount applicable. The actual distance is 27% miles.

Cornwallis Valley Railway Company.

(See Nos. 128 and 168.)

By the Act 50-51 Vic., ch. 24 (1887), the grant of a subsidy to this company to the extent of \$41,600 was authorized for 13 miles of their railway from Kentville to Kingsport.

Under an Order in Council of the 29th of March, 1888, they were admitted to contract on the 28th of May.

By the Act 52 Vic., ch. 3, an additional subsidy for one mile, \$3,200, was authorized, and a contract, under date the 30th of September, 1889, was entered into for the building of such extra mile to the harbour of Kingsport. The time for the completion of the whole work was extended to the 1st of October, 1890, by which date the road was ready for traffic.

During the past fiscal year the sum of \$2,130 was paid, making a total of \$44,800, the wholé amount of the subsidy.

Cumberland Railway and Coal Company.

(See No. 124.)

By the Act 50-51 Vic., ch. 24 (1887), the grant to this company of subsidy to the extent of \$44,800 was authorized for 14 miles of their railway, from a point on the Spring Hill and Parrsboro' Railway, near Spring Hill, to a point on the Oxford and New Glasgow Railway, near Oxford.

The company having applied, they were admitted to contract on the 12th of April, 1888, under an Order in Council of the 12th March, the work to be completed by the 1st August, 1891. During the fiscal year 1890-91, the sum of \$10,450 was paid to this company, making, with previous payments, \$39,850. No further payments have been made since, up to the 31st of December, 1892.

Drummond County Railway Company.

(See Nos. 99, 175 and 214.)

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, Que.

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 South-eastern Railway, at the village of Drummondville, to the southwest 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, 17½ miles, of the 30 miles subsidized.

By the Subsidy Act of 1889, 52 Vic., ch. 3, the company were further subsidized for 4½ 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 \$76,800, for 24 miles of the railway of the company from Drummondville to Ste. Rosalie. Under date 2nd of February, 1891, the company were admitted to contract for this work.

During the fiscal year there was paid to the company the sum of \$5,105, making the total payments up to the 31st of December, 1892, \$182,405.

Great Eastern Railway Company.

(See Nos. 88, 114, 174, 213 and 235.)

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 of 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. No contract has yet been signed for this work.

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 the past fiscal year there has been 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.

Great Northern Bailway Company.

(See Nos. 33, 37, 72, 79, 154, 215 and 231.)

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, 1885, payment was made therefor, namely, for 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 Vie., 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 for a line from Montcalm to the Canadian Pacific Railway between Joliette and St. Félix de Valois was authorized.

By the Act 54-55 Vic., ch. 8 (1891), the unpaid balance, \$28,100, of the subsidy granted in 1886 was revoted.

During the past fiscal year payments have been made to the company aggregating \$24,100. The total payments made for the section between New Glasgow and Montcalm amount to \$32,000, and for the section between St. Andrews and Lachute, \$21,600.

Hereford Railway Company (formerly Hereford Branch Railway Company.)

(See Nos. 73 and 179.)

By the Act 49 Vic., ch. 10 (1886), authority was given for the grant of a subsidy to the extent of \$108,800 for a railway from Hereford to the International Railway, in the Township of Eaton, an estimated distance of 34 miles.

The Hereford Branch Railway Company having applied, an Order in Council of the 30th December, 1887, authorized entry into contract with them for the work, and a contract was made accordingly, dated the 31st March, 1888.

By the subsidy Act of 1889, 52 Vic., ch. 3, a subsidy of \$48,000 was authorized for a line from Cookshire to Dudswell, on the Quebec Central Railway, 15 miles, and the company were admitted to contract on the 3rd of August, 1889. The whole of the road has been built, and up to the close of the fiscal year 1889-90 the company had been paid \$155,200 out of their total subsidies, \$156,800, the difference, \$1,600, representing some minor work remaining to be finished. No further payment has been made to the 31st of December, 1892.

On the 4th of October, 1890, the company were allowed, after inspection, to open their road for public traffic from Dudswell Junction to the International boundary, 48:43 miles.

By an Order in Council of the 12th of June, 1890, sanction was given to the purchase of the Dominion Lime Company's railway by this company, in conformity with the Act 51 Vic., ch. 81.

Irondale, Bancroft and Ottawa Railway Company.

(See Nos. 24 and 159.)

By the Act 47 Vic., ch. 8 (1884), 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 August, 1886.

Under the authority of an Order in Council of the 14th of February, 1887, \$15,000 has been paid. The unpaid balance of subsidy, \$145,000, which had lapsed, was revoted by the Act 52 Vic., ch. 3 (1889). No further payment of subsidy has been made up to the 31st of December, 1892. Under an Order in Council of the 3rd of August, 1891, the time for completion has been extended to the 1st of August, 1893.

Joggins Railway Company.

(See Nos. 76 and 100.)

By the Act 49 Vic., ch. 18 (1886), authority was given for the grant of aid to an extent not exceeding \$38,400, towards the construction of a railway, the estimated length of which is 12 miles, from a point at or near McCann station, on the Intercolonial Railway to the Joggins, on Cumberland Basin, N.S.

The Joggins Railway Company having applied for this subsidy, and the application being satisfactory, a contract was made with them on the 30th of November, 1886, under the authority of an Order in Council of the 5th of October, the line to be completed by the 1st of November, 1887.

A further subsidy to this company, not exceeding \$4,000, having been authorized by the Act 50-51 Vic., ch. 24 (1887), towards the construction of an extension of the line, 1\frac{1}{4} mile long, to the wharves on Cumberland Basin, a contract was made with them for the work on the 13th of October, 1887.

During the fiscal year 1890-91, the company were paid the sum of \$1,600, making the total payments up to the 31st of December, 1892, \$37,500.

Lake Temiscamingue Colonization Railway Company.

(See Nos. 55, 84, 119, 122, 169, 216, 278 and 282.)

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 wharves 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 a subsidy to the extent of \$33,600 was authorized for 10½ 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 River Ottawa, near Mattawa, not exceeding \$15,000 and not exceeding in all \$63,000.

During the fiscal year 1888-89 the sum of \$26,360 was paid, making a total of \$52,760 paid to this company. No further payment has been made up to the 31st of December, 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.

Montreal and Champiain Junction Railway Company.

(See Nos. 51, 125, 136 and 247.)

By the Act 48-49 Vic., ch. 59, a subsidy was authorized to be granted to this company for a line from Brosseau's to Dundee, not exceeding \$30,000. The work was completed and the subsidy was paid in the year 1885-86.

By the Act 50-51 Vic., ch. 24 (1887), a further subsidy, not exceeding \$64,000, was authorized to be granted to this company, and the contract was signed on the 25th of January, 1888, for a line from Fort Covington to Massena Springs.

By the Act 51 Vic., ch. 3 (1888), a further subsidy of \$9,600 was authorized for 3 miles additional, making a total of \$73,600.

By the Act 55-56 Vic., ch. 5 (1892), the balance of \$15,100, remaining unpaid of the subsidies voted in 1887 and 1888, was revoted.

Nothing has been paid to the company during the past fiscal year, and the total payments up to the 31st of December, 1892, amount to \$88,500.

Montreal and Sorel Railway Company.

(See Nos. 47 and 210.)

By the Act 48-49 Vic., ch. 59, a subsidy not exceeding \$72,000 was authorized to be granted to this company for a line from St. Lambert to Sorel. Under an Order in Council of the 2nd of October, 1885, a contract was made with the company on the 14th, and under the authority of Orders in Council, the last dated the 10th of November, 1886, payments have been made, amounting in all to \$69,922, the road, 41.67 miles long, having been completed, with the exception of a small quantity of work, to secure the finishing of which \$1,550 was retained. No further payment was made, and the said balance lapsed on the 1st of August, 1889.

By the Act 53 Vic., ch. 2 (1890), the sum of \$40,000 was granted for the repair of this road. The work was undertaken by the Great Eastern Railway Company, and is being carried out under requirements laid down by this department, and the inspection of its engineers. During the fiscal year 1890-91 there was paid from this subsidy the sum of \$17,116.07, making the total payments on that account \$23,835.57, and the total payments to the company \$93,757.57. No further payments have been made up to the 31st December, 1892.

Montreal and Western Railway Company.

(See Nos. 78 and 206.)

By the Subsidy Act of 1886, 49 Vic., ch. 10, authority was given for the grant of a subsidy in lieu of previous subsidies to the Montreal and Western Railway Company for 70 miles of their railway from St. Jérôme north-westerly towards Le Désert, Que., the amount being \$5,151 per mile, not exceeding in the whole \$361,270.

For this subsidy another for the same amount was substituted by the Act 53 Vic., ch. 2 (1890), special authority being given for payment in named sections less than 10 miles in length.

Under authorization of an Order in Council dated the 4th of June, 1888, a contract was made with the company for the work on the 6th. During the past fiscal year there was paid to the company the sum of \$32,253, and subsequently to that date the further sum of \$77,635, making the total payments up to the 31st of December, 1892, \$186,051. These payments apply to the distance between St. Jérôme and Ste. Agathe, 30½ miles, which is completed and open for traffic. On the 30th of December, the Chief Engineer reported the completion of a further section, to St. Faustin, a distance from St. Jérôme of 44½ miles.

Montreal and Ottawa Railway Company.

(Formerly the Vaudreuil and Prescott Railway Company.)

(Name changed by 53 Vic., ch. 58.)

(See Nos. 97, 186 and 237.)

By the Railway Subsidy Act of 1887, 50-51 Victoria, ch. 24, the grant of a subsidy to the above company was authorized for 30 miles of their railway from Vaudreuil 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 is fixed as the 1st of August, 1891.

The company, on the 4th of 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. A draft contract covering this subsidy was approved by an Order in Council on the 21st of September, 1891, but has not yet been signed.

By the Act 54-55 Vic., ch. 8 (1891), the unpaid balance, \$46,040, of the subsidy granted in 1887, was revoted. During the fiscal year 1890-91 there was paid the sum of \$49,960; nothing further has been paid up to the 31st of December, 1892.

In September, 1892, after inspection, permission was given to open for traffic the portion of the road between Vaudreuil and Pointe Fortune, 23½ miles.

Napanee, Tamworth and Quebec Railway Company.

(Name changed to the Kingston, Napance and Western Kailway 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 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 of the 25th 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. The road is to be completed by the 1st of August, 1890.

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, to be completed by the 1st of August, 1893, and, under date the 26th of December, for the distance of 6\frac{3}{4} miles, from a point near Yarker to or near Harrowsmith, to be completed by the 1st of August, 1891.

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.

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.

The total subsidies available under the contracts covering the distance between Tamworth and Tweed, Yarker, Harrowsmith and Sydenham, amount to \$114,800. Under date the 30th of November, 1889, the company were allowed to open for traffic between Tamworth and Tweed, and between Yarker and Harroswmith.

No payments were made to the company during the past fiscal year, but subsequently there has been paid the sum of \$1,856, making the total payments up to the 31st of December, 1892, \$194,800.

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 $12\frac{1}{2}$ 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 under subsidy, the date for completion being fixed as the 1st of December, 1894.

xliv

No portion of the subsidy has been paid during the past fiscal year, but subsequently the sum of \$32,945.84 was paid, up to the 31st of December, 1892.

Nova Scotia Central Bailway Company.

(See Nos. 129 and 135.)

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 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 a 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 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.

During the past fiscal year payments were made to the extent of \$8,300, bringing the total payments to this company up to the sum of \$230,700 at date, 31st December, 1892, covering the distance from Lunenburg to Middleton and the spur to Bridgewater, a total of 78½ miles.

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 82 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, viâ Newington, Chrysler, Manotic and Franktown, the road to be completed by the 1st July, 1888. This subsidy lapsed on the 1st July, 1888.

By the Act 50-51 Vic., chap. 24, a further subsidy of \$19,200 for a further distance of 6 miles was granted.

By the Act 52 Vic., chap. 3 (1889), a subsidy not exceeding \$172,400 was authorized to this company for a line from Cornwall to Ottawa, but no contract was entered into for the work.

By the Subsidy Act of 1892, 55-56 Vic., ch. 5, the subsidy granted in 1889 was revoted, the length being set down as $53\frac{87}{100}$ miles.

No portion of these subsidies has been paid up to the 31st of December, 1892.

Ontario and Quebec Railway Company.

(See West Ontario Pacific Railway Company.)

Orford Mountain Railway Company.

(See No. 228.)

By the Subsidy Act 53 Vic., ch. 2, the grant of a subsidy limited to \$99,200 was authorized in favour of the above company, for 31 miles of their railway between

Eastman and Kingsbury, Que., and on the 16th of December, 1891, the company were admitted to contract for the work for a distance of 10 miles, namely, from Eastman to Lawrenceville; the road for this distance to be completed by the 1st of December, 1893.

The work was completed, and during the past fiscal year there has been paid the sum of \$32,000.

By an Order in Council dated the 20th of June, 1892, authority was given for entry into contract with the company for the balance of the work, $16\frac{1}{2}$ miles, between Lawrenceville and Kingsbury, and such contract was signed on the 10th of September, 1892.

The second 10-mile section has been inspected, but no further payments have been made up to the 31st of December, 1892.

Ottawa, Amprior 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 Acts 51 Vic., ch. 65, and the Ottawa, Amprior and Rentrew 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 Amprior, 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 have been covered by a contract dated the 29th of September, 1892. The starting point on the Canadian Pacific Railway, named, 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, has been covered by a contract with the company dated the 8th of November, 1892. The date for completion is fixed as the 1st of November, 1894.

The location plans have been approved for the whole distance covered by the three subsidies.

No portion of the subsidies has been paid up to the 31st of December, 1892.

Ottawa and Gatineau Valley Railway Company.

(See Nos. 8, 26, 58 and 151.)

By the Act 48-49 Vic., chap. 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 xlvi

railway from Hull station towards the village of Le Désert, 62 miles, the amount being \$320,000. This subsidy having lapsed, it was revoted by the Act 52 Vic., chap. 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, the date for completion being fixed as the 1st of August, 1893.

The location plans of the first 50 miles have been approved.

During the past fiscal year, there has been paid to the company the sum of \$38,790, and subsequently the sum of \$49,820, making the total payments up to the 31st December, 1892, \$176,192. The opening of the first 20 miles for traffic was sanctioned in December, 1891, and the opening of a further section of 10 miles was similarly allowed in July, 1892.

Oshawa Railway and Navigation Company.

(Name changed to "The Oshawa Railway Company," by 54-55 Vic., ch. 91.)
(See Nos. 112 and 233.)

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 July, 1889. This subsidy was renewed by the Act 54-55 Vic., ch. 8. No portion has been paid up to the 31st of December, 1892.

By the special Act 54-55 Vic., ch. 91, the corporate powers of the company were revived, and its name] was changed as above.

Parry Sound Colonization Railway Company.

(See No. 153.)

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 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 was admitted to contract accordingly, the line to run from the village of Parry Sound through the townships of Foley, Christie, Monteith, McMurrick 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, 1893. The location of the first 30 miles has been approved by an Order in Council of the 11th of July, 1890.

The first two ten-mile sections have been inspected, and during the past fiscal year there has been paid the sum of \$30,400. No further payment has been made up to the 31st December, 1892.

Port Arthur, Duluth and Western Railway Company.

(Formerly the "Thunder Bay Colonization Railway Company.")

(See Nos. 139, 195 and 291.)

This company was originally incorporated as the "Thunder Bay Colonization Railway Company." It was declared to be a body corporate under its present name by the Dominion Act 51 Vic., ch. 84, which authorized it to receive all grants voted to the previous company.

By the Subsidy Act 51 Vic., ch. 3 (1888), the grant of a subsidy to the extent of \$271,200 was authorized in favour of the above company, for $84\frac{3}{4}$ miles of their railway from Port Arthur towards Gun Flint Lake, a point on the International boundary line; this being in place of subsidies previously granted for the construction of a railway from Murillo station to Crooked Lake.

A contract was entered into with the company on the 24th of December, 1889. The location of the entire line has been approved.

By the Act 53 Vic., ch. 2 (1890), a subsidy limited to \$16,000 was authorized for a branch, 5 miles long, to the Kakabeka Falls.

During the past fiscal year payment was made to the extent of \$70,075, making the total payments up to the 31st of December, 1892, \$157,075.

By the Subsidy Act 55-56 Vic., ch. 5 (1892), the unpaid balance, \$114,125 of the subsidy voted in 1888, was revoted.

In December, 1892, the company asked for an inspection of the balance of their road to the boundary line as completed.

Pontiac Pacific Junction Railway Company.

(See Nos. 25, 137 and 211.)

This line was subsidized by Parliament in 1884, 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, Que., to Pembroke, crossing the River Ottawa at a point "not east of Lapasse;" the first twenty-seven miles to be completed by the 1st September, 1885 (extended to 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 85 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 that the entire work subsidized on this railway be completed within four years from the 22nd of May, 1888. No contract has been entered into for the work contemplated by this Act.

By the 5th clause of the Act 52 Vic., ch. 3, it was specially provided that the several subsidies in aid of this railway should be extended to the 22nd of May, 1892.

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 o extend their line from the said bridge to the canal basin in the city of Ottawa.

xlviii

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.

The road is open from Ottawa to Fort Coulonge, 68 miles.

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. No further payments have been made up to the 31st of December, 1892.

Quebec Central Railway Company.

(See Nos. 22, 142 and 219.)

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 Northwest 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 draft contract was prepared, but has not yet been entered into, for this subsidy, and no further payments have been made up to the 31st of December, 1892.

By an Order in Council of the 18th July, 1892, the time for completion of the Tring and Megantic Branch has been extended to the 1st of July, 1894, the actual length being 58\frac{3}{4} miles, in place of the estimated length 90 miles.

Quebec and Lake St. John Railway Company.

(See Nos. 2, 14, 49, 82, 126, 140, 177, 220 and 232.)

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 xlix

Railway Company, engaged in the work of constructing this line, were 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 the 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 is \$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 are required, these subsidies being applicable to works embraced in the previous contracts.

The road is in operation up to Roberval, on Lake St. John, 190 miles from Quebec.

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 their main line; the work to be completed by the 1st of August, 1890. The location for these 30 miles has been approved by an Order in Council of the 17th of November, 1888.

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 October, 1892, a contract has been entered into 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.

1

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.

During the fiscal year there has been paid the sum of \$26,222.73, making the total payments up to the 30th of June, 1892, for both main line and branches, \$844,927.73. Since that date there has been paid the further sum of \$13,031.77, making the total payments to the company up to the 31st of December, 1892, \$857,959.50.

Quebec, Montmorency and Charlevoix Railway Company.

(See No. 164.)

By the Subsidy Act 52 Vic., ch. 3 (1889), the grant of a subsidy to the extent of \$96,000 to the above company was authorized for 30 miles of their railway from the east bank of the River St. Charles to or near to Cape Tormente, Que.

A contract was entered into with the company on the 14th of November, 1889, for this work, from Hedleyville to St. Joachim.

During the fiscal year 1889-90 the sum of \$65,600 was paid from this subsidy, the distance covered being 20½ miles, viz., from Quebec (the east side of the River St. Charles) to Ste. Anne. No further payments have been made up to the 31st of December, 1892.

In December, 1892, plans showing the location of the road for the balance of the 30 miles subsidized were submitted for approval.

Shuswap and Okanagon Railway Company.

(See No. 167.)

This company was incorporated by the Act 49 Vic., ch. 82 (1881), for the construction of a line of railway from a point on the Canadian Pacific Railway, at Sicamous Narrows, B.C., running up the left bank of the Shuswap River to a point near the north end of Lake Okanagon.

By 51 Vic., ch. 88 (1888), this Act was amended, and the company were allowed two years to commence and five to complete their main line.

By the Subsidy Act of 1889, a subsidy to the extent of \$163,200 was authorized for the said railway, the estimated distance being 51 miles.

The contract for this work was signed on the 11th of February, 1890, the date for completion being fixed as the 4th May, 1893. The road is completed, the actual distance being $50\frac{80}{100}$ miles.

The subsidy applicable for this distance was \$162,560. During the fiscal year the sum of \$162,260 has been paid to the company, leaving a balance of \$300 unpaid.

Permission to open the road for traffic was given on the 9th of June, 1892.

By the special Act 54-55 Vic., ch. 72 (1891), an agreement for the lease of the road to the Canadian Pacific Railway Company, when completed, for a term of 25 years, was approved and ratified, and powers were given to extend the line to a Point on the International boundary at or near Lake Osooyos.

St. Catharines and Niagara Central Railway Company.

(See Nos. 96, 176, 190 and 265.)

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 of 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 of 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 54-56 Vic., ch. 2 (1890), a subsidy limited to \$44,800 was authorized for a further distance of 14 miles.

By the Act 55-56 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.

During the fiscal year 1890-91, the sum of \$11,760 was paid to this company, covering the distance, 12 miles, between St. Catharines and Niagara River. No further payments have been made up to the 31st December, 1892.

The payments made to this company aggregate \$38,400.

St. Clair Frontier Tunnel Company.

(See No. 162.)

In the year 1884 a company, "The St. Clair Frontier Tunnel Company," was incorporated by the Dominion Act 47 Vic., ch. 82, for the purpose of building a tunnel for railway passage under the River St. Clair, from a point in or near the town of Sarnia, Ontario, to the city of Port Huron, Michigan, U.S., the Act providing that the plans of the tunnel and its works should be approved by the Governor in Council prior to commencement.

Plans of this work were submitted by the company and approved by an Order in Council dated the 24th of November, 1886, which also approved of the site. Certain changes were subsequently found necessary, and amended plans were approved by an Order in Council dated the 7th of October, 1889.

This work gives connection between the Grand Trunk Railway and the Chicago and Grand Trunk Railway.

By the Subsidy Act, 52 Vic., ch. 3 (1889), a subsidy to the extent of 15 per cent of the value of the work, but not exceeding \$375,000, was authorized.

Under authority of an Order in Council dated the 2nd of October, 1889, a contract was entered into with the company on the 30th of that month for the work in question, which was to be completed by the 1st of August, 1893.

The tunnel proper was formed throughout by the 30th of August, 1890, the shields from either end meeting on that day. On the 15th of October, 1891, the company notified the department that the work was completed, and ready for inspection and traffic.

During the past fiscal year the company were paid the sum of \$58,600, making a total of \$375,000 paid, this being the total amount of the subsidy granted.

In the annual report of last year a full description of the work, as completed, was given.

St. John Valley and Rivière du Loup Railway Company.

(See Nos. 90, 118, 225 and 274.)

By the Act 49 Vic., chap. 10 (1886), a subsidy of \$70,400 was authorized for 22 miles of railway, from Fredericton to Prince William, New Brunswick, and by the Act 50-51 Vic., chap. 24, a subsidy of \$70,400 was authorized, in favour of the St. John Valley and Rivière du Loup Railway Company, for 22 miles of railway from Prince William towards Woodstock.

The company having applied for both subsidies, they were admitted to contract on the 26th of June, 1888, under an Order in Council of the 21st of May, the time for completion being fixed as the 31st of July, 1890. This covers both subsidies, aggregating \$140,800. The location plans were approved by an Order in Council of the 23rd May, 1888, covering the distance, 44 miles, from Fredericton to Woodstock.

By the Act 53 Vic., chap. 2 (1890), both the above subsidies were, in effect, revoted.

By the Act 55-56 Vic., ch. 5, a subsidy limited to \$48,000 was authorized for 15 miles of railway extending from the north end of the line subsidized by 53 Vic., ch. 2.

Up to the 31st of December, 1892, no payments have been made.

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 is 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 New-

port station, on the Windsor Branch Railway; the line to be completed by the 1st 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 31st of December, 1892.

St. Lawrence and Adirondack Railway Company.

(See No. 218 and 293.)

By the Subsidy Act 53 Vic., ch. 2 (1890), a subsidy not exceeding \$57,600 was granted to the above company for 18 miles of their railway from Valleyfield to Huntingdon, on the Montreal and Champlain Junction Railway.

On the 29th of April, 1891, a contract was entered into with the company for this work, the time for completion being fixed as the 1st of July, 1893.

In December, 1891, the road was inspected and reported as complete—the actual distance being 12:58 miles. During the past fiscal year there has been paid to the company the sum of \$40,256, being the amount applicable to the actual distance of the road.

By the Subsidy Act 55-66 Vic., ch. 5, a subsidy not exceeding \$25,024 was granted to the company for $5\frac{4}{100}$ miles, from Huntingdon towards the International boundary, and for a further distance of $2\frac{40}{100}$ miles. Since the close of the fiscal year there has been paid to the company the sum of \$24,448, making the total payments up to the 31st of December, 1892, \$64,704.

This road connects the Canada Atlantic Railway at Valleyfield with the Montreal and Champlain Junction Railway at Huntingdon.

St. Lawrence, Lower Laurentian and Saguenay Railway Company.

(Name changed to "The Laurentian Railway Company" by Provincial Act 51-52 Vic., ch. 108.)

(See Nos. 38, 59, 117 and 234.)

By the Act 48-49 Vic., ch. 49 (1885), a bulk sum subsidy of \$217,600 was granted for a line of railway from the Grand Piles, on the River St. Maurice, Que., to a point of junction with the Lake St. John Railway (being in lieu of a subsidy of the previous year).

By the Act 50-51 Vic., chap. 24, this subsidy was repeated in favour of the company named below.

The St. Lawrence, Lower Laurentian and Saguenay Railway Company having applied for the subsidy, and being approved, a contract was entered into with them on the 20th of February, 1885, under authority of an Order in Council of the 6th of that month, which also approved of the location plans, the said location being subsequently amended under an Order in Council of the 25th of August, 1887.

By the Subsidy Act of 1891 54-55 Vic., ch. 8, the unpaid balance, \$92,784, of the company's subsidy was revoted.

During the past fiscal year there has been paid the sum of \$92,784, making the total payments up to the 31st December, 1892, \$217,600, this being the total amount of the company's subsidy.

The distance from Grand Piles to the Rivière à Pierre station of the Quebec and Lake St. John Railway is nearly 39 miles.

Témiscouata Railway Company-Rivière du Loup to Edmundston.

(See Nos. 3, 62, 127, 141, 226 and 279.)

Towards the construction of a line from Rivière du Loup or Rivière Ouelle, or from some point between them, to Edmundston, Parliament, in 1882, voted a subsidy of \$240,000, and by the Act 48-49 Vic., ch. 58, a further subsidy, not exceeding \$258,000, was voted for the same work, making a total subsidy of \$498,000.

Under express provisions of this Acta charter was granted by Orders in Council of the 3rd and 7th of October, 1885, to certain persons constituting "The Témiscouata Railway Company," their object being to build the said road; and such charter, being published in the Canada Gazette of the 10th of that month, has force and effect as if an Act of Parliament. This charter was subsequently confirmed and amended by the special Act 50-51 Vic., ch. 71 (1887). Under the said charter the company have power to construct a road from the Intercolonial Railway at Rivière du Loup to Edmundston. On the 21st June, 1886, a contract was duly entered into with the company for the work subsidized, the whole to be completed by the 1st of August, 1889. The location of the road, $80\frac{1}{2}$ miles via Lake Témiscouata and the River Madawaska, was approved of by an Order in Council of the 30th of September, 1886.

On the 22nd of November, 1888, the company were permitted to open the road for traffic.

By the Act 51 Vic., ch. 3 (1888), a subsidy of \$100,000 was granted to this company for 20 miles of their branch railway from Edmundston towards the River St. Francis, in lieu of a subsidy granted the previous year.

The company having applied to be admitted to contract, authority was given by an Order in Council passed on the 31st of December, 1888, which also approved of the location; and the contract was signed on the 22nd of January, 1889.

By the Act of 1890, 53 Vic., ch. 2, a subsidy to the limit of \$51,200 was authorized for a further distance of 16 miles. A contract under this subsidy was made with the company on the 20th of October, 1891, covering the distance, 12 miles, between Clair's siding and Connor's station. The branch up to this point, $31\frac{3}{4}$ miles, has been completed.

By the Act 55-56 Vic., ch. 5 (1892), an additional subsidy of \$1,800 a mile, limited to \$21,600, was granted for the first 12 miles of the section subsidized by the Act 53 Vic., ch. 2.

During the past fiscal year payments have been made to the extent of \$54,830, and subsequently the further sum of \$21,150, making the total payments up to the 31st of December, 1892, \$645,950.

Tobique Valley Railway Company,

(See Nos. 130, 227, 235 and 244.)

By the Act 50-51 Vic., ch. 24 (1887), authority was given for the grant of a subsidy of the extent of \$89,600 for 14 miles of the railway of the above company from Perth Centre station, on the New Brunswick Railway, towards Plaister Rock Island,

in lieu of a subsidy previously granted. A contract was made with the company for the work on the 4th of September, 1888. By the Act 54-55 Vic., ch. 8 (1891), this subsidy was, in effect, revoted, having lapsed.

By the Act 53 Vic., ch. 2 (1890), a subsidy limited to \$35,200 was authorized for a further distance of 11 miles.

By the Act 55-56 Vic., ch. 5 (1892), a subsidy limited to \$9,600 was granted for a further distance of 3 miles from the north end of the 11 miles subsidized in 1890.

Under date the 30th of November, 1892, a contract was entered into with the company for the work covered by these two subsidies. The date for completion was fixed as the 1st of December, 1893.

The first section of 14 miles was completed in December, 1891.

During the past fiscal year there was paid the sum of \$73,000, and subsequently the further sum of \$41,674.46, making the total payments to the company up to the 31st of December, 1892, \$114,674.46.

Thousand Islands Railway Company.

(See No. 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 thirteen 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, Newport and Sault Ste. Marie Railway, the Kingston, Napanee and Western Railway, the Kingston, Smith 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 has been made with the company for this work; the date for completion being fixed as the 1st of August, 1896.

No further payments have been made up to the 31st of December, 1892.

Vaudreuil and Prescott Railway Company.

(See Montreal and Ottawa Railway Company.)

Waterloo Junction Railway Company.

(See No. 187.)

By the Subsidy Act 53 Vic., ch. 2 (1890), a subsidy not exceeding \$35,200 was granted to this company for 11 miles of their railway from Waterloo to Elmira.

Under date the 17th of February, 1891, a contract was made with the company for the work in question; the date for completion being fixed as the 1st of November, 1891.

During the fiscal year, there was paid the sum of \$32,800, the road being completed. The actual distance is 10½ miles.

Western Counties Railway Company.

By the Act 50-51 Vic., ch. 25 (1887), assented to on the 23rd of June, 1887, confirmation was given to an agreement made by the Government with the Western Counties Railway Company on the 31st of January, 1887, contingent on such confirmation, the agreement itself being thereby, in some respects, modified, as expressed in a subsidiary agreement. Under the provisions of the said Act and agreements, covenants have been entered into which may be summarized as follows:—

The company agreed to withdraw a suit pending against the Crown in respect of the Windsor Branch Railway, releasing the Government from all claims, and also releasing to the Government all right and title to the branch. They also undertook to build and complete the railway between Annapolis and Digby, N.S., and to complete, equip and put in first class order the whole of the line from Yarmouth to Annapolis; also to settle all liens on their property, and their indebtedness. In order to the fulfilment of the above, they undertook to deposit with the Government the total proceeds of the sale of their debentures, &c., the issue of which was limited to \$4,200,000. The Government, on its side, in consideration of these premises. undertook to pay to the company the sum of \$500,000, this amount to be credited to the company and added to the proceeds of the sale of the debentures, which proceeds the Government agreed to hold for the purpose, the whole to be applied, under certificate of the Government Chief Engineer and Order in Council, to the payment of interest on the debentures, &c., to be issued, to the building and completion of the railway above mentioned, and to the satisfaction of the company's existing obligations; the balance, if any, to be paid to the company. .The dates to which the company were bound, as modified by terms of the Act, were as follows:-

Work to be commenced by the 13th of July, 1887, and the railway between Annapolis and Digby to be completed by the 12th of September, 1888, the company to complete to the satisfaction of the Government, by the 12th of September, 1887, all arrangements for the settlement of its indebtedness. Provision was made, also, for the completion of the line between Annapolis and Digby by the Government, at its option, from the funds in its hands, in the event of failure on the part of the company to make commencement of work, to progress with the same, or to satisfy the Government as to the arrangement of the settlement of its indebtedness by the dates so fixed.

The company did not make deposit of moneys; nor did they take any practical steps to carry out the work contemplated. Under these circumstances, and in view of representations urging that the Government should itself undertake the work, a survey was made of the country between Digby and Annapolis, under instructions given in October, 1888.

By the special Act 52 Vic., ch. 8 (1889), authority was given for the construction of this link of railway out of the appropriation of \$500,000 granted by the Act 50-51 Vic., ch. 25. The work was, accordingly, taken in hand by the department,

and was completed, and the company placed in possession for operating purposes on the 27th of July, 1891. The total Government expenditure up to the 30th of June, 1892, is \$614,789.27.

West Ontario Pacific Railway Company.

(Leased to the Ontario and Quebec Railway Company—C.P.R.)

(See Annual Report of 1891.)

Woodstock and Centreville Railway Company.

(See Nos. 131, 203, 266 and 281.)

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.

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.

Under an Order in Council of the 29th of August, 1892, a contract dated the 16th of September, 1892, has been made with the company, to construct the 26 miles so subsidized, the date for completion being fixed as the 1st of January, 1894.

No portion of the company's subsidy has been paid up to the 31st of December, 1892.

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, Appendices, p. 207.)

Alberta and Athabasca Railway Company.

(Name changed by 52 Vic., ch. 65, to the North-western Railway Company of Canada," which see.)

Alberta Railway and Coal Company.

(See Annual Report for 1890-91.)

Brandon and South-Western Railway Company.

(See No. 19.)

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 1, in either Range 23 or 24, west of the

lviii

1st Principal Meridian, to Deloraine, Manitoba, about 17 miles. This 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), and under 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.

Calgary and Edmonton Railway Company.

(Leased to the Canadian Pacific Railway Company.)

This company was incorporated by the Act 53 Vic., ch. 84 (1890), for the construction of a railway from the Canadian Pacific Railway at Calgary northward to Edmonton, and southward to the International boundary, also northerly to Peace River.

By the Act 53 Vic., ch. 5, authority was given for entry into a contract with this company for the conveyance of men, supplies, materials, and mails, for 20 years; a payment to be made annually of the sum of \$80,000 therefor, computation to be made from the date of the completion of the road between Calgary and a point on the North Saskatchewan River near Edmonton. The Act further gave power to the company to lease the said railway to the Canadian Pacific Railway Company.

On the 21st of June, 1890, a contract for transport service was made, accordingly, with the Government, this contract calling for completion of the first 100 miles by the 1st of November, 1891, and of the whole road by the 1st of November, 1893.

By the Land Subsidy Act of 1890, 53 Vic., ch. 4, a grant of land to the extent of 6,400 acres per mile was made for the line from Calgary north to Edmonton, about 190 miles, and also for a line south from Calgary to the International boundary, about 150 miles.

On the 26th of December, 1890, the company entered into a definite contract for the work of constructing, under this subsidy, both the northern line to Edmonton and the southern line to the boundary, the dates for completion being as follows:—

From Calgary northward, 100 miles, by the 1st of November, 1891; the balance to Edmonton within two years thereafter.

From Calgary southward, 50 miles, by the 1st of November, 1892, and to a point on the Old Man's River, by the 1st of November, 1893; the balance to the International boundary by a date to be fixed by the Governor in Council.

On the 6th July, 1891, permission was given to open the first 100 miles north from Calgary for traffic; and on the 10th of August, 1891, the whole road from Calgary to Edmonton, 192 miles, was officially reported as fit to be opened. The 25th of July, 1891, has been formally fixed as the date at which the whole road was completed.

On the 7th of December, 1891, the first 50 miles southward from Calgary was officially reported as fit to be opened for public traffic, and on the 3rd of November, 1892, the Government Chief Engineer reported that the section from Calgary southwards to the north bank of Old Man's River, $104\frac{10}{100}$ miles, was completed according to contract.

An agreement has been entered into for the lease of this railway to the Canadian Pacific Railway Company.

Canadian Pacific Railway Company.

(See Nos. 17, 18 and 29.)

By an Order in Council of the 18th of May, 1889, but subject to approval by Parliament, a grant of lands, to the extent of 6,400 acres per mile, in favour of the Canadian Pacific Railway Company, was authorized in aid of the construction of a branch from a point at or near Brandon, on their main line, south-westerly to or near Township 3, Range 27, west of the 1st Principal Meridian, and thence westerly, a total distance of 100 miles—this they term their "Souris Branch;" also, for a line, 25 miles, running from such point in Township 3, easterly to Deloraine, the western terminus of the existing line of the Manitoba South-western Colonization Railway, making in all 125 miles subsidized, and the total grant 800,000 acres. A further Order of the 18th of June, 1889, authorized the conveyance of the subsidy on completion of each 20-mile section.

By the Land Subsidy Act 53 Vic., ch. 4, this grant was confirmed.

By the Land Subsidy Act of 1891, 54-55 Vic., ch. 10, a subsidy of 6,400 acres per mile, for a further distance of about 60 miles, to La Roche Percée, was granted.

The company duly filed plans showing the location of this branch from Kemnay, a station on their main line, 8 miles west of Brandon, to Melita, in Township 3, Range 26, west; and from Melita east to Deloraine. On the 30th January, 1891, the portion between Kemnay and Airdrie was officially reported to be fit for traffic, and on the 26th of October, 1891, the company asked for inspection between Hartney and Melita.

On the 30th of August, 1892, the company asked for an inspection of the further portion between Melita and Estevan.

On the 7th of November, 1892, permission was given for the opening for public traffic of the section between Hartney and Melita, $26\frac{76}{100}$ miles.

On the 22nd of November, 1892, the practical completion of the section from Deloraine to Napinka, 18.01 miles, was officially reported. This forms part of the company's "Winnipeg, Gretna and Deloraine Branch;" the distance from Winnipeg to Napinka being 220 miles under traffic.

By an Order in Council of the 14th of June, 1889, but also subject to approval by Parliament, the grant of a subsidy to the Canadian Pacific Railway Company of land to the extent of 6,400 acres per mile was authorized for a branch starting from a point on the above mentioned south-westerly or "Souris" branch, and running to Glenboro', the length of railway so subsidized being stated to be about 60 miles, the subsidy to be conveyed on the completion of each 20-mile section.

By the Land Subsidy Act, 53 Vic., ch. 4, this grant was confirmed.

On the 26th of October, 1891, the company applied for inspection of the extension from Glenboro' to Nesbitt, this latter being 131 miles from Winnipeg. This railway from Winnipeg constitutes the company's "South-western Branch;" and at the close of the calendar year 1891, the whole distance from Nesbitt to Winnipeg was under traffic. It should be observed that the portion of their road between Winnipeg and

lx

Glenboro' was formerly the Manitoba and South-western Colonization Railway, of which the Canadian Pacific Company became lessees.

Great North-west Central Railway Company.

(See No. 7.)

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 their 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 an Order in Council of the 1st of July, 1889, the contract time for completion was extended as follows:—

By the	1st of	December,	1889,	50	miles
do	30th	do	1890,	100	do
do	do	do	1891,	150	do
\mathbf{do}	do	do	1892,	150	do
			•		

450 miles.

A further Order in Council of the 16th of November, 1889, extended to the 31st of May, 1890, the time for the completion of the first 50 miles; and on the 3rd of September, 1890, an Order in Council was passed accepting this section as completed.

By an Order in Council, dated the 7th of December, 1891, extension of time has been accorded—subject to the condition that the first 50 miles would 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.

Lac Seul Railway Company.

(See No. 20.)

Under date the 13th of November, 1889, there was granted to the above company by an Order in Council, subject to the approval of Parliament, a subsidy in land to the extent of 6,400 acres per mile, towards the construction of a railway from a point near Shelley station, on the Canadian Pacific Railway, to a point near Mud Lake, on the Winnipeg River, about 18 miles; the road to be completed by the 1st November, 1891.

This grant was confirmed by the Land Subsidy Act, 53 Vic., chap. 4 (1890.)

No further action appears to have been taken.

Manitoba and North-western Railway Company.

(See Nos. 4 and 6.)

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.

A 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 the 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 26 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, $11\frac{1}{2}$ miles long, is in operation.

By the Act 50 Vic., ch. 78 (1890), relative to this railway, the company were bound to complete 17 miles in the calendar year 1890, and 20 miles a year thereafter.

By the Act 55-56 Vic., ch. 45 (1892), disabilities arising under the foregoing act in consequence of non-completion of 20 miles during the then current year were removed.

The main line is in operation for traffic purposes from Portage la Prairie to Yorkton, 223 miles, permission to open the line from Saltcoats to Yorkton, 17½ miles, for traffic, having been given, after inspection, on the 18th December, 1891.

Manitoba and South-eastern Railway Company.

(See No. 24.)

This company was subsidized in lands by the Act 53 Vic., ch. 4 (1890), for a line from Winnipeg southerly or south-easterly to a point, on the west side of the Lake of the Woods, about 110 miles. A formal contract has been made with the company

under date the 3rd of June, 1892. Under this contract, the first 30 miles are to be completed by the 1st of September, 1892, 60 miles further by the 1st of September, 1893, and the whole road by the 1st of September, 1894. Plans of location of the first 30 miles starting from Winnipeg have been approved by an Order in Council passed on the 18th of March, 1892.

Manitoba South-western Colonization Railway Company.

(Leased to the Canadian Pacific Railway Company.)

(See annual report of 1891.)

Medicine Hat Railway and Coal Company.

(See No. 12.)

By the Act 50-51 Vic., chap. 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 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, 1889, 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.

North-western Coal and Navigation Company.

(Leased to the Alberta Railway & Coal Company.)

(See Nos. 2, 9 and 13.)

By 48-49 Vic., ch. 60 (1885), aid was granted to this company for a line from Medicine Hat to the coal banks on the Belly River, about 10 miles, 3,800 acres per mile. This was amended by 50-51 Vic., ch. 22—the extent of land being increased to 3,840 acres per mile.

By an Order in Council of the 16th of March, 1885, approval was given to the location of the company's line, and on inspection, in October, 1885, of the road from Dunmore station, on the Canadian Pacific Railway, to Lethbridge, 109 miles, an Order in Council of the 19th of October, 1885, accepted the road as completed.

It should be observed that by the Land Subsidy Act of 1889 a grant of 6,400 acres per mile for 50 miles, the distance between Lethbridge and the International boundary, was made under the name of this company. An Order in Council of the 14th of October, 1889, corrected the grant, as being intended for the "Alberta Railway and Coal Company," and the Act 53 Vic., ch. 3, made the necessary ratification.

By the Land Subsidy Act 53 Vic., ch. 4, (1890), a grant of 3,840 acres per mile for the distance between Lethbridge and the Crow's Nest Pass, about 100 miles, was

authorized in favour of the North-western Coal and Navigation Company, and an Order in Council of the 25th June, 1890, provided that on the completion of the first 50 miles from Lethbridge (by the 1st August, 1892) the lands applicable to this distance should be conveyed; conveyance to be made on the completion of each 10-mile section for the remainder of the distance (to be completed by the 1st of December, 1894.)

On the 25th June, 1890, a definite contract was made with this department by the company for the work between Lethbridge and Crow's Nest Pass, the dates for completion being those named above.

On the 15th of December, 1890, the road from Lethbridge to the International boundary, $64\frac{62}{100}$ miles was, after inspection, officially reported as completed and fit for traffic.

By the Act 53 Vic., ch. 85 (1890), powers were given for the lease of this railway to the Alberta Railway and Coal Company, and on the 1st of January, 1890, the railway property and assets were transferred, accordingly, by lease.

North-western Railway Company of Canada.

(Formerly the Alberta and Athabasca Railway Company.)

(See No. 15).

By an Order in Council dated the 21st of May, 1887, a grant of land was made, subject to the approval of Parliament to the Alberta and Athabasca Railway Company (the name of which was changed, as above, by the Act 52 Vic., ch. 65) from some point on the Bow River or Canadian Pacific Railway at or between Calgary and Crow Foot Creek, running northerly to a point on the River Athabasca, and crossing the North Saskatchewan at a point near the town plot of Edmonton, a distance of 300 miles, the subsidy being at the rate of 6,400 acres per mile. The first 50 miles, commencing at the southern terminus, were to be completed by the 20th of July, 1888, 100 miles in each of the two years following, and the whole road by the 20th of July, 1891.

By the Act 50-51 Vic., ch. 23, the above grant was confirmed.

By the Land Subsidy Act of 1889 (52 Vic., ch. 4), a subsidy was authorized in favour of the North-western Railway Company of Canada to the extent of 10,000 acres per mile, for a 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 210 miles; also to the extent of 10,000 acres per mile for a railway from Calgary southerly to Lethbridge, a distance of about 120 miles.

The Act 52 Vic., ch. 65 (1880), by which the change of name was authorized, gave power for further railway construction. This Act called for completion of 100 miles northwards from the Canadian Pacific Railway towards Edmonton by the 1st of December, 1890, and the remainder to Edmonton by the 1st December, 1891; also of the line south to Lethbridge or to a point on the International boundary by the 1st of December, 1892.

Nothing appears to have been done in connection with this railway.

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 Railway and Coal Company.

(See Nos. 14 and 26.)

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.

Winnipeg and Hudson's Bay Railway and Steamship Company.

(See No. 1, 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's 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 (59 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:—

The time for completion was fixed by this Order as 50 miles on division Λ 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 this 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.

Wood Mountain and Qu'Appelle Railway Company.

(See No. 8.)

By the Act 49 Vic., ch. 11, (1886), the grant of aid was authorized for a railway from a point in Township 4, Range 30, west of the 2nd Meridian, passing through Fort Qu'Appelle, to the Manitoba and North-western Railway, about 240 miles, 6,400 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 belayi

tween the Canadian Pacific Railway 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 were 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 and 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 Hudson Bay Railway Company.

RAILWAY LEGISLATION OF THE SESSION OF PARLIAMENT.

55-56 VICTORIA, (1892.)

CHAP.

- 5 An Act to authorize the granting of subsidies in aid of the construction of the lines of railway therein mentioned.
- 27 An Act further to amend the Railway Act.
- 30 An Act respecting the Alberta Railway and Coal Company.
- 31 An Act respecting the Belleville and Lake Nipissing Railway Company.
- 32 An Act to incorporate the Buckingham and Lièvre River Railway Company.
- 33 An Act respecting the Canada Atlantic Railway Company.
- 34 An Act respecting the Canada Southern Railway Company.
- 35 An Act respecting the Canadian Pacific Railway Company.
- 36 An Act to incorporate the Canso and Louisbourg Railway Company.
- 37 An Act respecting the Chignecto Marine Transport Railway Company, Limited.
- 38 An Act respecting the Cobourg, Northumberland and Pacific Railway Company.

lxvii

- 39 An Act respecting the Grand Trunk Railway Company of Canada.
- 40 An Act respecting the Great Northern Railway Company.
- 41 An Act respecting the Lake Manitoba Railway and Canal Company.
- 42 An Act to revive and amend the Act to incorporate the Lindsay, Bobcaygeon and Pontypool Railway Company.
- 43 An Act respecting the London and Port Stanley Railway Company.
- 44 An Act to amend an Act to incorporate the Manitoba and Assiniboia Grand Junction Railway Company.
- 45 An Act respecting the Manitoba and North-western Railway Company of Canada.
- 46 An Act respecting the Manitoba and South-eastern Railway Company.
- 47 An Act respecting the Midland Railway of Canada.
- 48 An Act respecting the Montreal and Lake Maskinongé Railway Company.
- 49 An Act respecting the Montreal and Western Railway Company.
- 50 An Act respecting the Nicola Valley Railway Company.
- 51 An Act respecting the Nipissing and James' Bay Railway Company.
- 52 An Act respecting the Ontario Pacific Railway Company.
- 53 An Act respecting the Ottawa City Passenger Railway Company.
- 54 An Act to incorporate the Ottawa Valley Railway Company.
- 55 An Act to revive and amend the Acts respecting the Ottawa, Waddington and New York Railway and Bridge Company.
- 56 An Act respecting the Pontiac Pacific Junction Railway Company.
- 57 An Act respecting the Qu'Appelle, Long Lake and Saskatchewan Railroad and Steamboat Company.
- 58 An Act respecting the St. Catharines and Niagara Central Railway Company.
- 59 An Act respecting the St. John and Maine Railway Company and the New Brunswick Railway Company.
- 60 An Act to confirm an agreement between the Tobique Valley Railway Company and the Canadian Pacific Railway Company.
- 61 An Act respecting certain railway works in the City of Toronto.
- 62 An Act to incorporate the Winnipeg and Atlantic Railway Company.
- 63 An Act respecting the Wood Mountain and Qu'Appelle Railway Company.
- 64 An Act to revive and amend the Act to incorporate the Brockville and New York Bridge Company.
- 65 An Act to incorporate the Burrard Inlet Tunnel and Bridge Company.

THE RAILWAY COMMITTEE OF THE PRIVY COUNCIL.

The Minister of Railways being Chairman of the Railway Committee of the Privy Council, on which certain extensive duties are imposed by the Railway Act, it seems proper that a brief record should here be made of the several cases heard before this committee during the year, and the decisions arrived at.

The following cases have been heard during the period from January to December, 1892:—

Changes in positions of tracks of the Canadian Pacific and Grand Trunk Railway. Companies at the eastern entrance of their railways into the city of Toronto—crossings of Mills, Parliament and Berkeley streets, and deviation of Berkeley street. Authorized.

Widening of the Queen street subway in the city of Toronto, the opening up of Dufferin street into the same, and the building of a subway under the Grand Trunk and Canadian Pacific Railways on the line of Dufferin street, and apportionment of the cost between the city and the railway companies. Decision—Committee has no jurisdiction under terms of application.

Application of the Ontario Express and Transportation Company for certain express facilities over the Grand Trunk Railway system. Not granted.

Apportionment between the city of Toronto and the county and township of York of the cost of certain protection ordered by the Committee at the crossings by the Canadian Pacific Railway of Dufferin and Bathurst streets in said city. Pending.

Change of angle, as authorized, of the crossing by the Port Arthur and Neebing Electric Street Railway of the Port Arthur, Duluth and Western Railway, in the town of Port Arthur. Change approved.

Interlocking switch at the crossing of the Buctouche & Moncton and Intercolonial Railways. Approved. Trains allowed to pass without stopping.

Reduction of number of tracks of the Canada Atlantic Railway Company crossing Elgin, Metcalfe and O'Connor streets, in the city of Ottawa, to one track. Adjourned to enable the city to submit an alternative scheme, and name the amount of compensation they are prepared to make to the company for the removal of their tracks.

Extension of Royce Avenue, in the city of Toronto, across the Grand Trunk (Northern) Railway. Authorized.

Culvert under Central Vermont Railway and ditch through lands of same.—As to whether the railway company or the municipality should pay cost of enlargement:—Question as to the culvert to be dealt with by the Department of Railways and Canals. As to the ditch, to await turther representations from the municipality.

Crossing by Ottawa Electric Street Railway of Canadian Pacific Railway near St. Patrick's Street Bridge, in the city of Ottawa, protection at. Attention of the companies ordered to be called to this matter.

Overhead crossing of the Grand Trunk Railway by Notre Dame Street at St. Henri, in the city of Montreal. For approval of the plan of a proposed new bridge. Not sanctioned.

Substitution of a double draw for a single draw on the Stanstead, Shefford and Chambly Railway Bridge crossing the Richelieu River. Approved.

Introduction of interlocking apparatus at the crossing by the Beauharnois Junction Railway of the Canada Atlantic Railway. Ordered that trains be allowed to Pass without stopping, on the usual conditions.

Introduction of interlocking apparatus at the crossing by the Toronto Belt Line Railway of the Canadian Pacific Railway at Lambton, near Toronto. Canadian Pacific trains, &c., authorized to pass without stopping, on the usual conditions.

Crossing at rail level by the Davenport Street Railway of the Grand Trunk Railway on the Davenport Road, in the township of York, and of the Grand Trunk and Canadian Pacific Railways on the St. Claire Avenue, in the town of Toronto Junction. Places of crossing, and mode of protection recommended by Government Chief Engineer approved.

lxix

Introduction of interlocking apparatus at the crossing by the Toronto Belt Line Railway of the Canadian Pacific Railway at Lambton, near Toronto. Engines and trains of the Toronto Belt Line Railway, coming from the south, authorized to pass without stopping, on the usual conditions.

Crossing at rail level by the Yarmouth Street Railway of the Western Counties Railway on Main street, in the town of Yarmouth, N. S. Place of crossing and a certain mode of protection approved.

Branch line of the Erie and Huron Railway to the Government Wharf at Rondeau Harbour. New plans approved, and new order authorizing construction of the branch issued, a previous order having been rescinded.

Overhead crossing by Queen Street and Street Railway of the Don River and the Canadian Pacific and Toronto Belt Line Railways in the city of Toronto—and apportionment of cost. Adjourned.

Protection at crossing at rail level by the Canadian Pacific Railway of Adelaide street, in the City of London. Pending.

Street crossings of the Canadian Pacific Railway, in the village of Mégantic. Pending.

Crossings at rail level by the Westminster and Vancouver Tramway Company's track of the Canadian Pacific Railway on Columbia street, in the city of New Westminster. Discharged.

Interlocking apparatus at crossing of the Canada Southern and London and Port Stanley Branch.—Apportionment of cost of. Previous order varied.

Protection at crossing of the Burlington Channel, near Hamilton, by the Grand Trunk Railway. Pending.

Wonham street crossing of the Grand Trunk Railway, in the town of Ingersoll. Level crossing ordered.

Crossing at rail level by the Grand Trunk Railway of the Canadian Pacific Railway, near Glencoe. Place of crossing and mode of protection approved:

Keele Street North Subway under the Grand Trunk and Canadian Pacific Railways—Application for extension of time for completion of. Pending.

Crossing at rail level by the Ottawa, Arnprior and Parry Sound Railway of the Canadian Pacific Railway on lot 15, in the 2nd Con., O. F., township of Nepean. An overhead crossing approved.

Branch line to connect the Atlantic and North-west Railway with the Stanstead, Shefford and Chambly Railway at Iberville, P. Q. Sanctioned.

Davenport Street Railway crossing of the Grand Trunk Railway on the Davenport Road, and of the Grand Trunk and Canadian Pacific Railways on St. Claire Avenue, near Toronto. Application from the Street Railway Company for an amendment of the order issued.

Protection at crossing by the Port Arthur and Neebing Electric Street Railway of the Port Arthur Duluth and Western Railway. Application for amendment of order that the street Railway should pay cost. Judgment reserved.

Running powers by the Fredericton and St. Mary's Railway Bridge Company over the track of the Canada Eastern Railway at Gibson, and junction of the former

company's road with the latter. Running powers granted, and place of junction and mode of protection approved.

Overhead crossing by the Ottawa, Arnprior and Parry Sound Railway of the Canadian Pacific Railway in the city of Ottawa. Approved.

Location of the Thousand Island Railway along certain streets in the town of Gananoque. Approved.

Thousand Islands Railway Bridge across the mouth of the Gananoque River—Application for approval of site and plan of—Approved.

Protection at crossings, at rail level, of certain divisions of the Grand Trunk Railway which intersect each other, where trains were reported to pass without stopping, no interlocking apparatus being provided. Company communicated with, and orders given that trains are to stop at these points, as required by the Statute.

Interlocking apparatus at crossing by the Canada Southern Railway of the Montrose Drawbridge over the Chippawa Creek, Welland Canal. Approved. Trains and engines allowed to pass without stopping.

Branch line of the Canadian Pacific Railway from Orangeville to the Nottawasaga Stone Quarries in the township of Mono, Ont. Sanctioned.

Diversions of highways by the Montreal and Western Railway Company in the parish of St. Faustin, county of Terrebonne, P.Q. Approved

Branch line of the Canadian Pacific (Ontario and Quebec) Railway from the Ayr Station to Goldie's Mills. Sanctioned.

Canada Southern Railway Company's application to be allowed to dispense with packing between wing rails and railway frogs during certain periods of the year. Pending.

Crossing at rail level by the Kingston, Napanee, and Western Railway of the Kingston and Pembroke Railway near Harrowsmith. Postponed at request.

CANALS.

The canal systems of the Dominion, under Government control, in connection with lakes and navigable rivers, are as follows:—

- 1. The River St. Lawrence and lakes.
- 2. The Richelieu navigation, from the St. Lawrence to Lake Champlain.
- 3. The River Ottawa.
- 4. The Rideau navigation, from Ottawa to Kingston.
- 5. The Trent navigation.
- 6. St. Peter's Canal, Bras d'Or Lake, Nova Scotia.

The following list shows the total amount charged to capital account, expended by the Government for construction and enlargement of each of the canals of the Dominion; embracing the period prior to Confederation and extending down to the 30th June, 1892:—

Lachine Canal	\$ 9,240,701	3 0
Beauharnois Canal	1,611,690	26
Soulanges Canal (under construction)	54,235	7 6
Williamsburg Canals (being enlarged)	2,568,357	84
Cornwall Canal (being enlarged)	4,297,038	22
St. Lawrence River and Canals, surveys, &c	89 0,534	97
Murray Canal	1,216,631	47
Welland Canal	23,754,034	67
Sault Ste. Marie Canal (under construction)	885,543	20
Ste. Anne Canal	1,170,215	63
Carillon and Grenville Canals	4,025,346	00
Culbute Canal	379,494	4 6
Rideau Canal, (including the Perth branch)	4,560,285	60
Trent Canal	1,082,521	4 0
St. Ours Lock	121,537	65
Chambly Canal	637,206	76
St. Peter's Canal	645,183	35

In addition to the above there has been expended as follows, chargeable to Income:—

Renewals	1,740,012 29
Repairs	4,346,042 58
Staff and maintenance	5,317,072 55

Making the total expenditure...... \$68,548,685 96

Note.—Details as to the above will be found in Appendix No. 2, p. 2.

The collection of the revenue derivable from the canals of the Dominion, formerly in the hands of the Department of Inland Revenue, was assumed by this Department, under an Order in Council of the 4th of June, 1889, as authorized by the Act 52 Victoria, chapter 19. Details relating to the Canals Revenue will be found in the appendix. "Canals Revenue and Statistics."

TOTAL EXPENDITURE AND RECEIPTS FOR THE YEAR.

The total expenditure on the several canals for the fiscal year ended 30th June, 1892, was as follows:—

Construction	\$1,637,819	40
Repairs	239,800	68
Staff and maintenance		51

The total gross receipts for the year amounted to the sum of \$379,423.67, including tolls, \$326,469.83, of which there was refunded \$54,948.43, making the net revenue \$324,475.24. (See appendix 1, p. 1.)

In appendix 1, pages 2 to 13, will be found statements showing the yearly expenditures, and the total cost on each canal, since Confederation.

The following statement shows the amount collected on each canal for Canal Revenue proper, and hydraulic rents, &c., during the Fiscal Year ended 30th June, 1892.

Name of Canal.	Tolls	i .	Whar an Stora	d		Fine: and mag		Othe Receip		Hydra Rents,		Tota	1.
		cts.	8	ets.		8	cts.	\$	cts.	*	ets.	\$	cts.
Welland	193,808	45				594	70	177	69	7,165	2 40	201,743	24
st. Lawrence	65,604			3 33			10	14,644		23,837		108,891	
Chambly	19,249				1		00		30 300) 00 5 00	19,558 38,589	
OttawaRideau	38,546 $5,617$		13	1 18	١.		00		170) 45	6,832	
Trent Valley		84							òò		00		84
ot. Peters	2,317					. .		:	3 28			2,320	
Iurray	637	01					• • • •			†		637	01
Total	326,469	83	4,77	4 51		798	80	15,29	5 88	32,08	65	379,423	67
	LES	s-R	efunds	of toll	s						•	54,948	3 43
		_	et Reve	nne								324,475	94

It seems proper here to record, briefly, certain facts relative to the tolls charged for the passage of wheat and other food products through the Welland and the St. Lawrence Canals.

In the year 1882, tolls on the Erie Canal were abolished.

In the year 1884, on urgent representations from shippers and others interested in the grain trade, Orders in Council were passed with a view to meeting this abolition of Eric Canal tolls. They reduced for the then current season, by one half, the tolls for passage through the Welland and the St. Lawrence Canals on wheat and certain other food products shipped for Montreal or other Canadian ports east of Montreal.

In the following year, 1885, tolls were further reduced on such products to 2 cents a ton, and thenceforward, year by year, up to and including 1891, this concession has been made by special Orders in Council.

In the year 1892 the reduction was conditioned by the provision that it should be applicable only to products actually exported.

In August, 1892, the United States adopted a system of tolls on the Sault Ste. Marie Canal, levying 20 cents per ton on all freight carried "to any port in the Dominion of Canada." It may be noted that the Sault Ste. Marie Canal was transferred from the control of the State of Michigan to that of the Federal Government with the distinct proviso that it should be, forever, free from toll, and that such transfer took place subsequently to the Treaty of Washington and the undertaking of the State, conformably thereto, that British subjects should have the use of the Canal on terms of equality with the inhabitants of the United States.

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, affords 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 laxiii

statute miles. The distance to Duluth is 2,384 miles. (A table giving the intermediate distances will be found in Appendix 14, p. 148.)

The difference in level between the point on the St. Lawrence near to Three Rivers, where tidal influence ceases, and Lake Superior, is about 600 feet.

The Dominion canals, constructed between Montreal and Lake Erie, are the Lachine, Beauharnois, Cornwall, Farran's Point, Rapide Plat, Gallops and Welland. Their aggregate length is 70½ miles; total lockage (or height directly overcome by locks) is 5331 feet; number of locks, 53.

Communications between Lakes Huron and Superior is obtained by means of the Sault Ste. Marie Canal, situated on the United States side of the river.

This canal is a little over a mile in length, with a bottom width of 100 feet, and has one lock, the dimensions being:—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. By it there is afforded a 16 feet navigation between the two lakes.*

Steps have been taken by the Dominion Government for the construction of a lock and canal on the Canadian side, a general description of which will be found further on in the present report. (See appendix 12, p. 142).

* From the report of the Chief of Engineers, U. S. army, dated the 23rd of September, 1891, for the fiscal year ended the 30th June, 1891, the last available, it appears that the construction of the proposed new and larger lock is in progress, taking the site occupied by the two old locks built in 1855, the canal itself being deepened to correspond, so as to give a navigable depth of 20 feet. The dimensions of the new lock will be—length 800 feet between gates, width 100 feet throughout, with 21 feet of water on the sills, with a single lift, approximating 18 feet. The estimated cost of this new lock and work of canal deepening is set down at \$4,738,865. For this work an appropriation of \$250,000 was made by Congress in August, 1886. The total expenditure up to the 30th of June, 1891, was \$587,676.74. On the 1st of July, 1891, there was an unexpected balance of appropriations amounting to \$2,187,335,44. For the fiscal year ending on the 30th June, 1893, an additional sum of \$2,000,000 can, it is stated, be profitably expended, in view of the importance of completing the work at the earliest possible date, the enormous traffic being now dependent on a single lock.

importance of completing the work at the earliest possible date, the enormous traffic being now dependent on a single lock.

From the same report and its appendices it appears that during the fiscal year ended the 30th of June, 1891, the canal now in operation was closed on the 3rd December, 1890, and opened on the 27th April, 1891: being opened for 221 days; that 9,541 vessels, etc., passed through, carrying 8,338,981 tons of freight and 26,226 passengers, the number of lockages being 4,614. The cost of operation and care of the canal during the fiscal year 1890-91 was \$45,417.66, which includes in repairs \$13,046.29.

A special report deals with the operation of the canal during the season of navigation of the calendar year 1890. From this it appears that during the season the canal was opened for 228 days, that 10,557 vessels passed through in 4,970 lockages, carrying 9,041,213 tons of freight and 24,856 passengers, the total value of freight being \$102,214,948.70.

The total number of registered craft using the canal during the season was 598 of which 369 were steam.

The total number of registered craft using the canal during the season was 598, of which 369 were steam and 229 sailing vessels. The largest single cargo carried by a steamer was 2,946 tons, and the largest by any vessel was 3,021 tons, carried by a barge. There were 90 steamers carrying 2,000 tons and upwards, and

any vessel was 3,021 tons, carried by a barge. There were 30 steamers carrying 2,000 tons and upwards. 21 sail vessels carrying 2,000 tons and upwards.

The total amount of freight paid was 89,472,214.90; the total mile-tons (the number of miles run multiplied by the freight tonnage) was 7,207,299,415; the cost per mile per ton was 1.3 mills. The average distance freight was carried was 797.2 miles. The principal items of freight were as follows:—Wheat, 16,217,370 bushels; corn, 1,870,406 bushels; flour, 3,239,104 barrels; coal, 2,176,925 tons; iron ore, 4,774,768 tons (the ton is the net ton of 2,000 lbs.) The report states that the average cost of transportation per ton per tiple including terminal abances, was for the year 1800, 1.3 mills as against 1.5 mills in the years 1899 and mile, including terminal charges, was, for the year 1890, 1.3 mills, as against 1.5 mills in the years 1889 and 1888, and as against 2.3 mills in the year 1887.

Compared with the previous season of 1889, there was an increase in all classes of freight except wheat,

Compared with the previous season of 1889, there was an increase in all classes of freight except wheat, grain other than wheat, pig iron, and silver ore and bullion, in which items there was a slight decrease. The total valuation of all the vessels using the canal in the season of 1890 is set down at \$29,635,500, against a total valuation in 1887 of \$19,773,950.

In connection with the enlargement of this canal there has been undertaken, and is in progress, the work of improving the southern channel of the river below the falls, known as the Hay Lake channel in American waters. It is proposed to make a channel 300 feet wide, and of a navigable depth of 20 feet. The improved route will leave the present navigable channel of the river at a point, Sugar Island rapids, about 2½ miles below the canal; will pass through these into Hay Lake; then by way of Middle Neebish: rejoining the present navigable channel at the foot of Sugar Island; saving a distance of 11 miles (16 miles in place of 27), and giving a route which can be so marked by lights as to be navigable at night, an advantage which is not to be afforded by the present channel, except by the use of many lights. The estimated cost of the work is set down in the report of the U. S. engineers, quoted, at \$2,659,115. The total expenditure up to the 30th June, 1891, amounted to \$828,823.08.

Ixxiv

The following is a brief summary of the chief points in connection with the scheme of canal enlargement on the through line of navigation between tide water and Lake Superior now being carried on.

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.

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. The bottom is chiefly rock.

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.

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) is being constructed on the north shore of the river.

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 of the Cornwall Canal are all under contract. The two lower locks, &c., were completed in 1882. The four other locks, weirs, &c., are now practically completed. The excavation of the canal proper is in progress.

Farran's Point Canal.—Nothing has been done towards the enlargement of the canal at Farran's Point, but the necessary surveys have been completed.

Rapide Plat Canal.—At the Rapide Plat the guard lock is finished and in use; the works remaining to be done to complete the enlargement are in progress.

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 is 7\(\frac{1}{2} \) miles in length; it is composed of two, originally separate, canals, the Iroquois 3 miles long, and the Galops 2\(\frac{1}{4} \) miles long, which were afterwards united, it being found that there was not sufficient depth of water in the Iroquois Canal without the supply from the head water so afforded.

The rapids thereby avoided are the Iroquois, the Cardinal and the Galops. 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 lock will give access from the river. With the exception of preliminary surveys, nothing has yet been done towards the enlargement of the remainder of the canal.

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 is a part of the general scheme of enlargement.

Welland Canal.—The enlargement of this canal is completed.

Sault Ste. Marie Canal.—Work is in progress on this canal.

LACHINE CANAL.

•		Old Line.		New Lines.
Length of canal	. 8	statute miles.	8	statute miles.
Number of locks	. 5		5	
Dimensions of lock	.200	feet by 45 feet.	270	feet by 45 feet.
Total rise, or lockage	. 45	"	45	"
Depth of water f at two locks	16	"	18	"
on sills at three lock	s 9	"	14	"
Mean width of new canal	. •	•	150	""

The depth of the canal between locks is at present adapted to vessels of only 12 feet draught.

The canal now consists of one channel, with two distinct systems of locks, the old and the enlarged. There are two entrances at each end.

This channel 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 the affording a navigable depth of 15 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, and between 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. Through Lake St. Louis down to the Lachine Canal—a distance of about 15 miles—the existing channel, which is wide and deep, would be available for about 11 miles. Over the lower four miles, however, the channel will require to be deepened and widened at a number of places. Some experimental dredging has been carried on in order to determine the nature of the material to be removed, and the best way of dealing with it.

The canal was closed on the 30th of November, 1891, and opened on the 1st of May, 1892.

Two accidents to the works occurred during the year. On the 20th of October, 1891, the barge "Maggie" ran into Brewster's Bridge, displacing it and causing breakages. On the 30th of the same month the lower gates of old lock No. 1, were carried away.

The navigation of the canal was not affected by either accident.

The water level was satisfactorily maintained throughout the year.

The report of the Superintending Engineer gives details of the repairs and new works executed, and shows generally the condition of the canal. (App.5, p. 101.)

The expenditure on this canal during the past fiscal year was as follows:---

Totallxxvi	\$ 235,561	14
Staff and maintenance	52,729	37
Repairs	67,499	62
Renewals, chargeable to income	27,480	80
Construction, chargeable to capital	\$ 87,852	35

BEAUHARNOIS CANAL.

Length of canal	111	statute	e miles.
Number of locks	9		
Dimensions of locks	200 1	feet by	45 feet.
Total rise or lockage	$82\frac{1}{2}$	feet.	
Depth of water on sills	. 9_	"	
Breadth of canal at bottom			
Breadth of canal at water surface			

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 1st of December, 1891, and was reopened for traffic on the 30th of April, 1892.

No accident or interruption to navigation occurred during the year.

Details of repairs will be found in Appendix 5, p. 101.

The expenditure on this canal for the past fiscal year was as follows:--

Construction, chargeable to capital	. Nil.
Renewals, chargeable to income	1,696 23
Repairs	14,999 80
Staff and maintenance	20,050 01
Total	36,746 04

CORNWALL CANAL.

Length of canal	11	statute miles.
Number of locks	6.	
Dimensions of locks (three)	200	feet by 55 feet.
" of two lower entrance locks and the		
guard lock	270	by 45.
Total rise or lockage.		
Depth of water on sills		"
" at the two lower entrance locks		"
Breadth of canal at bottom (except at three		
culverts)*	100	"
Breadth of canal at water surface		

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 uses

The Cornwall Canal extends past the Long Sault Rapids.

This canal was closed on the 5th of December, 1891, and reopened on the 1st of May, 1892.

^{*}Note. Though the bottom breadth is, as stated, 100 feet, it must be observed that this is the bottom breadth of the old, or 9 feet navigation canal.

All necessary repairs were carried out. No accident occurred during the fiscal year affecting navigation, but on the 3rd of August, 1892, the barge "Toronto," in tow, carried away the gates of lock No. 19, causing a delay of 28 hours.

Navigation was satisfactorily maintained notwithstanding a low stage of water during the early part of the season. (See Appendix 6, page 115.)

NEW WORKS.

The two locks at the new lower entrance (taking the place of three on the old line) were completed in 1882. Their dimensions are those of the general enlargement scheme, namely: length, 270 feet; breadth, 45 feet; depth of water, 14 feet. The basin between these two locks is 825 feet long. The guard-lock also is completed and in use.

The remaining three locks are all practically completed. The work of deepening and enlarging the prism of the canal is approaching completion.

The works in progress are described in detail in the appendices to the present report. (See Appendix 6, page 116.)

The expenditure on this canal for the past fiscal year was as follows:-

Total		
Staff and maintenance	,	
Repairs	9.864	36
Renewals, chargeable to income	2,345	26
Construction, chargeable to capital	\$398,555	25

WILLIAMSBURGH CANALS.

The Farran's Point, Rapide Plat, and Galops Canals are collectively known as the Williamsburgh Canals.

These canals were closed on the 12th of December, 1891, and reopened on the 20th of April, 1892.

No accidents of importance are reported, and navigation is stated to have been fairly well maintained.

Slight breaks and leakages occurred in January and February last in the embankment on the portion known as the Junction. These were repaired and the embankment was strengthened.

Tables showing the highest and lowest water on the lock sills of these canals from the year 1849 will be found in the appendices (See Appendix 6, page 126.)

The expenditure on these canals during the past fiscal year was as follows:-

Construction, chargeable to capital	\$376,545	32
Renewals, chargeable to income	797	83
Repairs	8,551	32
Staff and maintenance	9,458	33
Total	\$395,352	80

FARRAN'S POINT CANAL.

Length of canal	:	å mile.	-
Number of locks	1	"	
Dimensions of lock	200	feet by 45 feet	
Total rise, or lockage	4	feet.	
Depth of water on sills at ordinary water level	9	**	
Breadth of canal at bottom	50	"	
Breadth of canal on water surface	90	"	

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 rapid with ease and safety.

The enlargement of this canal has not been commenced, but surveys have been made and plans prepared. (See Appendix 6, page 119.)

RAPIDE PLAT CANAL.

Length of canal	4 miles.
Number of locks	2
Dimensions of locks	200 feet by 45 feet.
Total rise, or lockage	11½ feet.
Depth of water on sills	
Breadth of canal at bottom	
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 rapid at that place. Descending vessels run the rapid safely.

NEW WORKS.

The enlargement of this canal in conformity with the proportions of the general scheme is in progress. The works 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 in progress. (See Appendix 6, page 119.)

GALOPS CANAL.

Length of canal	7	🖁 miles.	
Number of locks	3		•
Dimensions of locks	200	feet by	45 feet.
Total rise, or lockage	$15\frac{1}{2}$	feet.	
Depth of water on sills	9	"	
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 $4\frac{1}{2}$ miles. This canal enables vessels to overcome the rapids at Pointe aux Iroquois, Pointe 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 that point were placed under contract in November, 1888. The guard-lock and lift-lock are both completed in readiness to receive their gates, and the other works are in progress.

It is proposed that, by the use of this new lift-lock, vessels qualified to stem the current of the Iroquois and Cardinal Rapids should 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. The late Chief Engineer, who designed this lock, did so with the idea of affording a route which should relieve much of the traffic of the canal.

No steps have, so far, been taken towards the enlargement of the 7 miles of the canal east of this lock, beyond the preliminary surveys.

In the river opposite the canal the formation of a new channel through the Galops Rapids was commenced in 1880 and was reported as completed in 1888. The channel so improved is about 3,300 feet in length and 200 feet wide. The intention of the Department was to afford a safe passage at a low stage of the river water (9 feet on the mitre sills of the lock at the upper entrance of the old Galops Canal) for vessels drawing 14 feet. It was considered advisable to allow a clear margin of 3 feet below the keel of a vessel of this draught, the depth to be, consequently, 17 feet. The engineer in charge of this work has reported the depth of this channel to be sufficient for the passage of vessels drawing 14 feet at the low stage of water (9 feet on the sills of the upper entrance lock).

On further examination it was found that, at certain points, the depth is less than 17 feet and during the past season a very close examination and survey has been made under the supervision of Mr. Kennedy, the Chief Engineer to the Montreal Harbour Commissioners, as an independent authority, which, it is expected will afford most accurate information as to the present width and depth of the channel. Mr. Kennedy's report has not yet been made.

The new channel is navigated by many of the large propellors and other vessels drawing over 9 feet of water.

lxxx

To fully carry out the design, some minor work will be necessary in order to obviate certain cross currents, the action of which required to be ascertained by actual experience after the excavation of the channel.

During the past season the course of the channel has been indicated by buoys.

During the past season a location survey has been 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 Appendix 6, page 121).

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 $4\frac{1}{4}$ miles long, and improvements in the way of dredging and other work to the entrance channels at either end, covering a total distance of $9\frac{1}{2}$ 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 Caual, the distance is less than 120 miles.

The canal is 80 feet wide at the bottom, the depth being, at low water, 12½ feet.

The entrance from the lake to Presqu'Ile harbour has a width varrying 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 16th of December, 1891, and reopened on the 6th of April, 1892.

The navigation of this canal was maintained satisfactorily and without accident, notwithstanding the continued lowness of the water level in Lake Ontario.

Advantage of this canal is taken by a large number of vessels. (App. 6, p. 123.) The expenditure on this canal during the past fiscal year was as follows:—

Construction, chargeable to capital	\$ 5,964	2 2
Renewals, chargeable to income	Nil	
Repairs		15
Staff and maintenance		
•		
Total	\$15,272	85

WELLAND CANAL.

MAIN LINE, FROM PORT DALHOUSIE, LAKE ONTARIO, TO PORT COLBORNE, LAKE ERIE.

. —	Old Line.	Enlarged or New Line.	
Length of canal	$27\frac{1}{2}$ miles.	$26\frac{3}{4}$ miles.	
Pairs of guard-gates (formerly 3)		· 2	
Number of locks { lift guard	26 1 1 lock 200 x 45	lift 25 guard 1	
Dimensions	1 " 200 x 45 1 (tidal) 230 x 45 24 locks 150 x 45	270 feet x 45 feet.	
Total rise, or lockage	$326\frac{3}{4}$ feet.	326\(\frac{3}{4} \) feet.	
Depth of water on sills	10 1 "	14 "	
Welland	RIVER BRANCHES.		
" From the to the r aqueduct " Chippawa (gara Number of locks—One at aqueduct Port Robinson Dimensions of locks	2,622 canal at Welland iver, via lock at	" y 26½ feet.	
Grand	RIVER FEEDER.		
Length of canal Number of locks		1 miles. 2	
Total rise, or lockage			
Port MA	AITLAND BRANCH.		
Length of canal		 1\frac{3}{4} \text{ nniles.} 1 85 by 45 feet. 7\frac{1}{2} \text{ feet.} 11 " 	

lxxxii

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 canals 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.

The canal was closed to navigation on the 17th of December, 1891, and reopened on the 19th of April, 1892.

The operations of the year were conducted without any interruption to traffic of moment.

Tables will be found on page 136 showing the highest and lowest depth of water at the new entrance locks at Port Dalhousie and at Port Colborne, for each month throughout the past fiscal year.

The intermediate months between August, 1891, and May, 1892, show a continuance of the low water of the previous year.

Details as to repairs executed will be found in the appendix. (See Appendix 9, p. 134.)

The expenditure on this canal during the past fiscal year was as follows:-

Construction, chargeable to capital	\$29,541	21
Renewals, chargeable to income	9,008	80
Repairs	73,771	87
Staff and maintenance	104,673	73
Total	\$216,995	61

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 the 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.

This canal is being constructed through St. Mary's Island, on the north side of the rapids of the River St. Mary, and, with that river, will give communication 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. A considerable amount of excavation is required to form channels of approach both at the upper and at the lower entrances. The total length of this canal and its approaches will be about 18,100 feet.

lxxxiii

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 $16\frac{1}{4}$ 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.

This scheme was subsequently modified, and the lock is being constructed on the following dimensions adopted by an Order in Council of the 1st of April, 1892:— Length of chamber, 900 feet; width of chamber, 60 feet; gate width, 60 feet; depth of water on the sills, 19 feet at the lowest recorded water level. This depth, though calculated on a different basis (extreme low instead of "mean" water level), is intended to be the equivalent of the depth of the new American lock now under construction.

By the scheme, as so modified, accommodation will be 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, 255 feet long, with ready means of entrance and exit on a course through the gates and lock straight with the line of the canal.

Under date the 8th of November, 1892, an agreement has been made whereby the work is to be so expedited as to enable the canal to be completed in readiness for use by the 1st of July, 1894.

The canal proper will have a width at low water level of 152 feet, and a bottom width of 145 feet. The depth will be made suitable to navigation at mean water level by vessels drawing 20 feet.

Details of the works will be found in the appendices. (See Appendix 12, page 142.)*

The expenditure on this work during the past fiscal year amounted to \$341,474.31, making the total expenditure up to the 30th of June, 1892, \$886,492.55. Since that date and up to the 31st of December, 1892, there has been expended the further sum of \$296,274.88, making the total expenditure of \$1,182,767.43.

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 River Canals, to the city of Ottawa; thence by the River Rideau and the Rideau Canal to Kingston, on Lake Ontario—a total distance of 2455 miles.

After leaving the Lachine Canal the works constructed to overcome difficulties of navigation are:—

The St. Anne's Lock; Carillon Canal; Grenville Canal; Rideau Canal;

^{*} For information respecting the new American canal, see page 74 of the present Report. lxxxiv

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 Distance.	Total Distance from Montreal.
	Miles.	Miles.
The Lachine Canal	8 1	
From Lachine to Ste. Anne's Lock		$23\frac{1}{2}$.
Ste. Anne's Lock and piers	$27^{\frac{1}{8}}$	$23\frac{5}{8}$
From Ste. Anne's Lock to Carillon Canal		50 5
The Carillon Canal		51 8 57 5
The Grenville Canal	74 . 34 .	633
From the Grenville Canal to entrance Rideau navigation	56	1193
Rideau navigation, ending at Kingston		$245\frac{5}{8}$

STE. ANNE'S LOCK.

	Old Lock.	New Lock
Length of canal	🔒 mile.	🔒 mile.
Number of locks	1 "	1 "
Dimensions of lock	190×45 feet.	200×45 feet.
Total rise, or lockage	3 feet.	3 feet.
Depth of water on sills	6 "	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 Ottawa River which forms the Lake of Two Mountains, $23\frac{1}{2}$ miles from Montreal harbour.

This lock was closed to navigation on the 26th of November, 1891, and reopened on the 27th of April, 1892.

Navigation has been conducted without interruption during the year.

The work of strengthening the old Grand Trunk Railway pier at this point has been completed.

Both the old the new locks are available. (See App. 7, p. 127.)

The expenditure on this canal during the past fiscal year was as follows:-

Construction, chargeable to capital\$	Nil.	
Renewals, chargeable to income	25,471 6	1
Repairs	1,666 2	1
Staff and maintenance	2,571 28	8
-		-
Total	5 2 9,709 10	0

THE CARILLON CANAL.

Length of canal	4	¾ 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		
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 28th of November, 1891, and reopened on the 30th of April, 1892. (See App. 7, p. 128.)

By the construction of the Carillon dam across the River Ottawa the water at that point is raised 9 feet, enabling the river to be used for navigation above.

During the past year steps have been taken to repair and strengthen this important work, for which an appropriation of \$15,000 was made by Parliament last session.

From the head of the Carillon Canal to the foot of the Grenville Canal there is, a navigable stretch of $5\frac{1}{2}$ miles.

GRENVILLE CANAL.

Length of canal	$5\frac{3}{4}$ miles.
Number of locks	
Dimensions of locks	200 by 45 feet.
Total rise, or lockage	
Depth of water on sills	
Breadth of canal at bottom	
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.

The canal was closed on the 28th of November, 1891, and reopened on the 30th of April, 1892. (See Appendix 7, page 128.)

The expenditure on these two canals, the Carillon and the Grenville, during the past fiscal year was as follows:—

Construction, chargeable to capital		
Repairs	8,620	15
Total	\$75,700	96

lxxxvi

Sessional Papers (No. 9.)

UPPER OTTAWA RIVER.

CULBUTE LOCKS AND DAMS.

Number of locks	2				
Dimensions of locks	200	by	45	feet.	
Total rise, or lockage	18	to	20	"	
Depth of water on sills	5			"	
Aggregate length of dams	625			"	

From the Grenville Canal to the city of Ottawa, a distance of about 56 miles, the river is navigable. Beyond the city, for a distance of 107 miles, to L'Islet or Culbute, continuous navigation is rendered impracticable by the undermentioned rapids:—

The Chaudière, the DesChênes, the Chats, the Chenaux, the Portage du Fort and the Grand Calumet.

The Culbute works, situated at L'Islet, surmount the Culbute and L'Islet Rapids on the north channel of the Ottawa.

These works comprise two locks and three continuous dams, all built of wood. The dams reduce the rapids to smooth water, enabling the river to be navigated from the head of the locks to Des Joachims, a distance of 37 miles.

There is a navigation route of 80 miles, with a minimum depth of 7 feet at extreme low water, between Des Joachims and Bryson; making a total above and below Culbute of 117 miles.

In view of the fact that the locks on this canal were built of wood, and are much decayed, and that in order to make these works permanently effective considerable cost would be entailed, while, on the other hand, the traffic is of but insignificant extent, the presence of railway facilities having greatly lessened the anticipated usefulness of the work, it has been decided to abandon the idea of maintaining the water at an abnormal height, and an Order in Council was passed on the 24th October, 1889, to the effect that the river should be allowed to resume its natural level, one which, save at special seasons, admits of navigation. The dams have not yet been removed. (See Appendix 7, page 128.)

The expenditure on this canal during the fiscal year was as follows:-

Construction, chargeable to capital	Nil	
Renewals, chargeable to income	\$1,546	25
Repairs	N	il.
Staff and maintenance		00
• Total	\$2,232	25

Tables showing the depth of water at the several locks on the River Ottawa will be found in Appendix 7, page 129.

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 navigable waters			
Number of locks going from Ottawa to Kingston	$\begin{bmatrix} 3 \\ 1 \end{bmatrix}$	5 as 4 de	cending. scending.
Total lockage446 $\frac{1}{4}$ { 282 $\frac{1}{4}$ rise and 164 fall. }			
Dimensions of locks	134	b y 3	3 feet.
Depth of water on sills, 5 feet; navigable depth			
through the several reaches	$4\frac{1}{2}$	feet	t .
Breadth of canal reaches at bottom	60	"	in earth.
	54	"	in rock.
Breadth at surface of water	80	"	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	2 00	"	
Breadth of canal at bottom	40	"	
Breadth of canal at surface of water	$\begin{array}{c} 40 \\ 64 \end{array}$		in rock. in clay.

The Perth branch of 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 this 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 River Rideau, 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 known as the Devil Lake system, discharging into Lake Opinicon.

Lake Opinicon 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. This river, rendered navigable by dams at various points, affords a line of navigation to Kingston.

lxxxviii

The navigation stopped at Ottawa on the 28th, and at Kingston Mills on the 30th of November, 1891, and recommenced at Ottawa on the 2nd of May, and at Kingston Mills on the 1st of May, 1892.

The full depth of water required for navigation was maintained throughout the season of navigation.

There was no interruption to navigation.

Details of repairs and other works will be found in the appendices. (See Appendix 10, p. 137.)

The expenditure on this canal for the past fiscal year was as follows:—

Construction, chargeable to capital	\$29,771	65
Renewals, chargeable to income	31,363	
Repairs		16
Staff and maintenance	35,500	82
Total	\$ 118,142	86

RICHELIEU AND LAKE CHAMPLAIN.

This system, commencing at Sorel, at the confluence of the Rivers 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 to Lake Champlain. The distance from Sorel to the boundary line is 81 miles.

At Whitehall, the southern end of Lake Champlain, the 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 distance between Sorel and New York:—

Sections of Navigation.	Intermediate Distances in Miles.	Total Distances.
Sorel to St. Ours Lock. St. Ours Lock to Chambly 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	1	mi	le.
Number of locks	1		
Dimensions of lock	200	feet	by 45 feet.
Total rise, or lockage	5	"	•
Depth of water on sills		"	at low water.
Length of dam in eastern channel	300	"	
" western channel	690	"	

At St. Ours, fourteen 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 thirty-two miles.

Navigation closed on the 30th of November, 1891, and reopened on the 11th of April, 1892.

The operations of the season were conducted without either accident or delay. (See Appendix 5, p. 104.)

The expenditure on this lock during the past fiscal year was as follows:-

Construction, chargeable to capital \$	Nil.
Renewals, chargeable to income	3,585 34
Repairs	1,944 33
Staff and maintenance	2,168 44
	7.698 11

CHAMBLY CANAL.

Length of canal		miles.
Dimensions of locks :		
Guard Lock, No. 1, at St. Johns Lift "2	s 122	feet)
Lift 2	124	" From 221 to
" 3, 4, 5, 6	118	" 24 feet wide.
" 7, 8, 9 combine	ed 125	"
Total rise, or lockage	74	"
Depth of water on sills		
Breadth of canal at bottom		"
" surface of w	vater 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, 1891, and was reopened on the 2nd of May, 1892,

A delay of about half a day occurred on the 2nd of May, being due to the necessity for stopping two small leaks. With this exception there were no accidents, and navigation was uninterrupted.

A description of the several works of repairs and improvement executed during the year will be found in the appendices. (See Appendix 5, p. 102.)

These include the continuance of the work of reconstructing certain locks and the further installation of electric light appliances.

The expenditure on this canal during the past fiscal year was as follows:-

Construction, chargeable to capital	. \$ Ni	il.
Renewals, chargeable to income	38,353	99
Repairs	12,976	48
Staff and maintenance	19,665	22
Total	\$ 70 995	60

TRENT RIVER NAVIGATION.

The term "Trent River Navigation" 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.

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 in contemplation was as follows:-

Through the River Trent, Rice Lake, the River Otonabee and Lakes Clear, 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 Bay, Lake Huron, the total distance being about 235 miles.

The execution of this scheme, commenced in 1837, was subsequently deferred. By certain works, however, below specified, sections of these waters were made practicable for navigation and for the passage of timber. 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:-

	Unnavigable
${f Miles}.$	\mathbf{Miles} .
From Trenton, Bay of Quinté, to Nine Miles Rapids.	9
" Nine Mile Rapids to Percy Landing 19½	
" Percy Landing to Heeley's Fall dam	14 1
" Heeley's Fall dam to Peterboro' 513	_
" Peterboro' to Lakefield	9 1
" Lakefield to a point across Balsam Lake 61	- .
1321	$32\frac{3}{4}$
Total distance, Bay of Quinté to Balsam Lake From Sturgeon Point on Sturgeon Lake, 48\frac{3}{4} miles from Lakefield, the branch through the town of Lindsay	165
to Port Perry at the head of Lake Scugog	$\frac{27\frac{1}{2}}{2}$

The following is a list of the works :-

MAIN LINE FROM TRENTON TO BALSAM LAKE.

Chisholm's Rapids.

The works here consist of a canal and lock, a dam and slide $15\frac{1}{2}$

Percy Landing.

Campbell ford.

Guide booms.—Controlled by Dept. of Public Works	$34\frac{3}{4}$
Middle Falls.	
The works consists of 2 dams and slide.—Controlled by Dept. of Public Works	$37\frac{3}{4}$
Crow Bay.	
A retaining boom.—Controlled by Dept. of Public Works Heely's Falls.	38
A dam and slide.—Controlled by Dept. of Public Works	$42\frac{3}{4}$
Crook's Rapids, Hastings.	-
The works consist of 1 lock, 1 dam and slide for timber	$56\frac{1}{2}$
Whitlas' Rapids.	_
The works, situated below Peterboro,' consist of a lock, dam and canal	92 7
Peterboro'.	
The works consist of 3 piers and 1 boom	94
The works consist of a dam and wharf	$103\frac{1}{2}$
Katchawannoe Lake.	
A boom, 4 miles in length, separating navigable and timber channels—(under control Dept. of Public Works).	٠
Young's Point.	
One lock (a Provincial Government work) and dam Burleigh.	108 1
Timber slides, 3 dams, 2 locks (new)	118
Lovesick Rapids.	
One lock and 4 dams	119 1
Buckhorn Rapids.	
There is a dam at this point, which is important as keeping up the level of the water of the lake west of it, as far as Bobcaygeon, including Lakes Pigeon, Buckhorn, (Ball) and Chemong, 1 lock, 1 slide	125
Bobcaygeon.	
There are 2 dams here, with canal, lock and slide. These dams retain the waters of the reach as far as Fenelon	4,05
Falls and Lindsay lock	1404
Fenelon Falls.	45.0
A large dam, slide and booms, 2 combined locks (new)	154 3

Rosedale.

A	lock, maintained	by the	Ontario	Government,	giving	
	entrance from C	ameron's	Lake to	Balsam Lake.		$162\frac{3}{4}$

Branch from Sturgeon Lake to Lake Scugog.

Lindsay.

One lock, rebuilt by the Government of the province of	
Ontario in 1879. Its dimensions are 134 x 33 feet, with	
5 feet of water on the sills	161 1
The navigation is, by this work, extended to Port Perry,	-
Lake Scugog	190

The new works completed for the improvement of the Trent Valley navigation are at the following places:—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 Poterboro', 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 new dam, at the head of the Nine Mile Rapids of the River Otonabee, which maintains navigation on Lake Katchiwannoe up to Young's Point, was completed during the fiscal year 1986-87.

At Young's Point, 5 miles from Lakefield, the new 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; it comprises three lift-locks and certain dams.

At Buckhorn Rapids, 7 miles from Burleigh Rapids, there is a canal about one-fourth of a mile long, having one lift-lock.

At Bobcaygeon, $15\frac{3}{4}$ miles from Buckhorn Rapids, the new dam, 553 feet long, takes the place of two old ones. By this work the water level is controlled up to Fenelon Falls.

At Fenelon Falls, 15 miles from Bobcaygeon, a canal about one-third of a mile in length, with two lift-locks, was constructed in 1885, connecting Sturgeon Lake with Cameron Lake.

In all the above named works the locks are of the following dimensions:—

Length	134	feet.	
Breadth	33	"	
Depth of water on the mitre sills	5	"	

Owing to the abandonment of dams constructed by lumbermen whose operations in the northern section have ceased, the water which should be stored in the upper reservoirs, escapes; and, last season, a very dry one, the water level fell much below the nominal stage.

The traffic shows a continued increase. Navigation closed on the 20th of November, 1891, and reopened on the 21st of April, 1892.

Details of the several repairs executed will be found in the appendices. (App. 11, p. 140.)

The expenditure on this canal system during the past fiscal year was as follows:—

Construction, chargeable to Capital	\$4,457	28
Renewals, chargeable to Income	6,506	97
Repairs	4,721	85
Staff and maintenance		85
Total	\$ 19,381	95

ST. PETER'S CANAL, CAPE BRETON.

Length of canal	Abo	out 2	2,400 feet.
Breadth at water line	55 f	eet.	
Lock	One	tid	al 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.

Navigation was closed on the 20th of January, and reopened on the 1st of April, 1892.

The repairs and improvements carried out are described in the appendices. (See Appendix 13, page 147.)

The expenditure on this canal during the past fiscal year was as follows:-

Construction, chargeable to Capital\$	14,387	00
Renewals, chargeable to Income	30,936	82
Repairs	1,461	24
Staff and maintenance	3,007	70
Total	49,792	76

SOULANGES CANAL.

The question of the means to be adopted for affording between Lakes St. Louis and St. Francis the increased canal accommodation for traffic required to carry out the scheme of canal enlargement is one which has received consideration since the year 1872, decision having to be made between the enlargement of the existing Beauharnois Canal on the south side of the River St. Lawrence by which the intervening rapids are now surmounted, the construction of a new canal on the south side, or the construction of a canal on the north side of the river. A Return to the House,

made in 1891, contains the several reports of engineers and others dealing with the various schemes suggested.

Finally, it was decided by an Order in Council dated the 7th of February, 1891, to construct the new work on the north side of the river, and to adopt a line extending upwards from Cascades Point to Macdonald's Point, near Coteau Landing. This scheme contemplates a canal on a practically straight line, 14 miles long, comprising five lift-locks, overcoming a total rise of 82½ feet. The number of locks on the Beauharnois Canal, including the guard-lock, is nine. The dimensions of the locks will be those of the enlarged system, namely, length 270 feet, width 45 feet, depth of water on sills 14 feet. The estimated cost of the work is \$4,750,000. The latest and most approved systems of construction and operation will be adopted in order to ensure rapid transit and the minimum of cost for maintenance.

Of the 13 sections into which the work has been divided, contracts have been awarded for eight, comprising the most important of the structures required, with the exception of one lock, and representing about 75 per cent of the total estimated cost of the canal. The works are in progress. (See Appendix 8, page 131.)

The expenditure on this work for the past fiscal year was \$54,235.76. There has since been paid, up to the 31st of December, 1892, the further sum of \$64,425.67 making the aggregate payments, \$118,661.43.

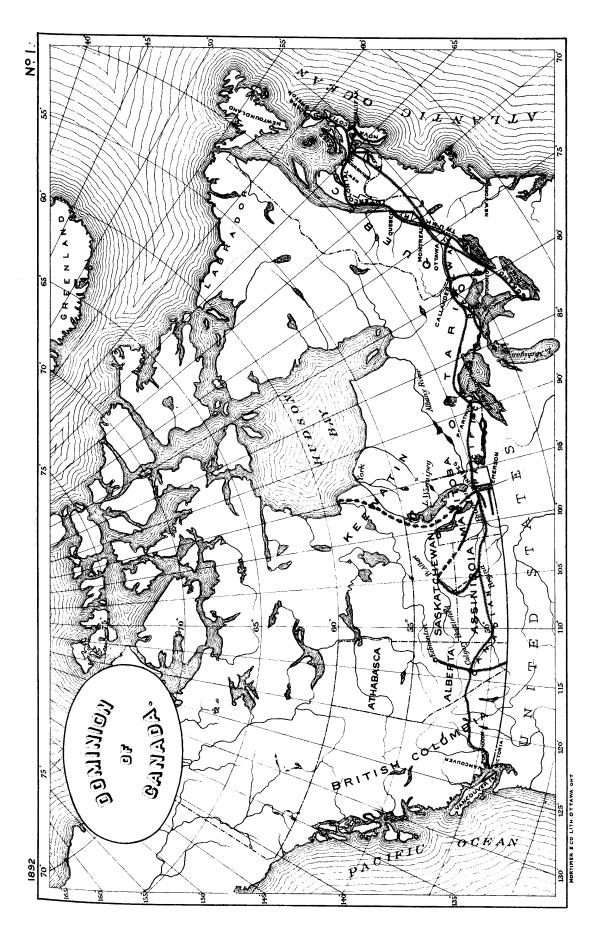
I have the honour to be,

Your Excellency's most obedient servant,

JOHN HAGGART,

31st December, 1892.

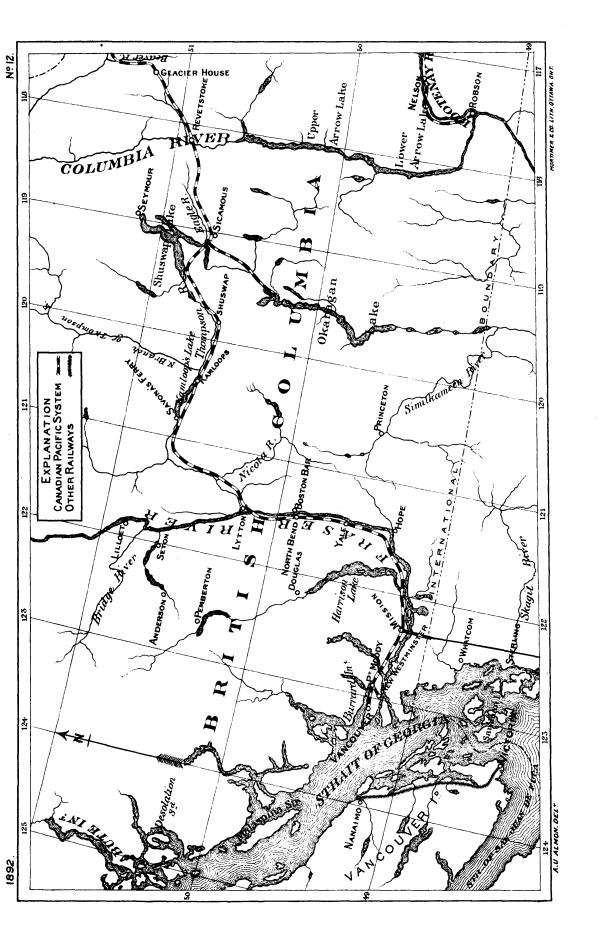
Minister of Railways and Canals.

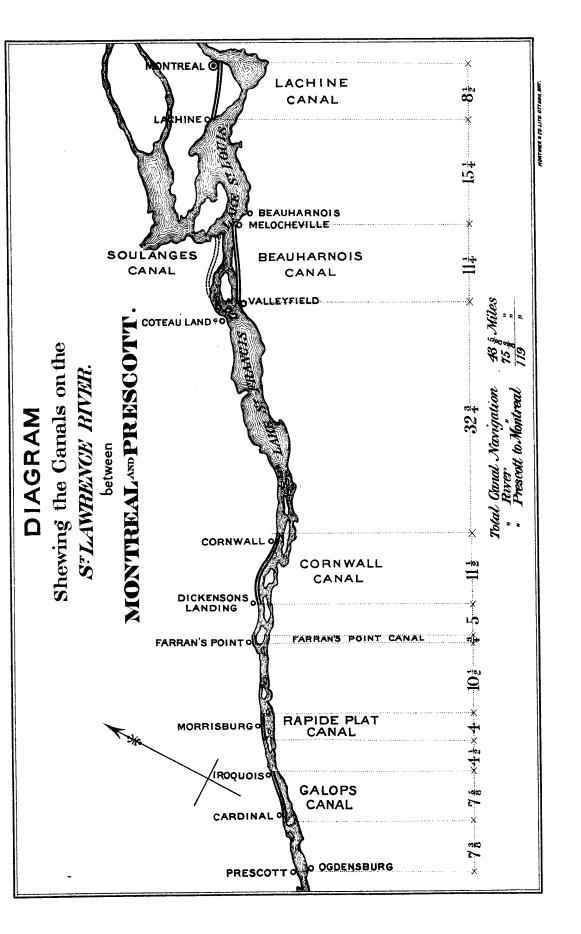


S. GABRIEL STFEL JOL1E)

A. U. ALMON, DEL







APPENDIX No. 1.

STATEMENT showing the amount expended by the Department of Railways and Canals, Dominion of Canada, during the Fiscal Year ended 30th June, 1892.

Name of Work.	Construction.	Repairs.	Staff and Main- tenance.
Canals.	\$ ets.	\$ cts.	
Beauharnois—Income. Carillon—Income.	1,696 23 15,001 48	14,999 80	20,050 01
Frenville—Capital Darillon and Grenville—Income Chamble Income	34,585 64 35 00 38,353 99	8,620 15 12,976 48	17,458 69 19,665 22
Chambly—Income	398,555 25 2,345 26	9,864 36	15,596 66
Culbute—Income	1,546 25 87,852 35	67,499 62	736 00 52,729 37
do —Income. Murray—Capital Rideau—Income.	27,480 80 5,964 22 31,363 23	3,505 15 21,507 16	5,803 48 35,500 82
Ste. Anne's—Income	25,471 61 59,779 31	1,666 21	2,571 28
St. Ours—Income St. Peter's—Capital do —Income	3,585 34 14,387 00 30,936 82	1,944 33 1,461 24	2,168 44 3,007 70
Sault Ste. Marie—CapitalSoulanges—Capital	341,474 31 54,235 76		
Tay—Čapital. Trent—Capital. do —Income	4,457 28	4,721 85	3,695 85
do —Income Welland—Capital do —Income	29,541 21	73,771 87	104,673 73
Williamsburg—Capital	376,545 32 797 83		
Arbitrations and awards—Income	6,359 29		
Miscellaneous staff		3,399 43	
do "Rideau", working		5,311 71	11,604 30 42,219 21
Total on Canals	\	239,800 68	349,478 51
RAILWAYS.			
Canadian Pacific	171,536 65		
Prince Edward Island	99,936 96		289,706 38
Oxford and New Glasgow. Annapolis and Digby. Surveys—Income.	26,129 89		.
do To provide estimate of cost of tunnel, Prince Edward Island	1,650 28		
Subsidies	2,221 12		J
Total on Railways			-
Total on Railways and Canals	3,139,358 45	239,800 68	4,098,076 28

LEONARD SHANNON,

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th November, 1892.

APPENDIX 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, 1892.

ST. PETER'S CANAL.

			Year ending 90th June.	Capital.	Renewals Chargeable to Income.	Chargeable to Staff.	
				\$ cts.	\$ cts.	\$ cts.	\$ ets.
Government expendit	ure prior to C	onfederati	on	156,523 32			
do	since	do	1868	21,519 72			
do	do	do	1869	70,719 80	l	1	
do	do	do	1870	l <i></i>	46,193 57		
do	do	do	1871			225 36	555 78
do	do	do	1872		 	280 00	6,122 07
do	do	do	1873		!	343 32	6,539 58
do	do	do	1874	1		725 93	1,558 57
do	do	do	1875	20 97	1	560 00	889 35
do	do	do	1876	11,125 00		641 55	1
do	do	do	1877	63,330 18	1	600 00	17 45
do	do	do	1878	26,511 51		600 00	1
do	\mathbf{do}	\mathbf{do}	1879	107,337 75	[631 50	
do	\mathbf{do}	do	1880	80,120 54		400 00	
do	do	do	1881	69,434 76		959 58	
do	do	do	1882	484 00		1,920 54	200 63
do	do	\mathbf{do}	1883			2,089 19	232 42
do	фo	do	1884	2,471 40	· · · · · · · · · · · · · · ·		367 85
do	фo	do	1885	16,820 15	<i>[</i>		183 11
do	do	do	1886	2,316 85		2,360 67	297 81
do	do	do	1887	1,087 75	750 00	2,777 13	343 23
do	do	do	1888			3,217 77	1,588 40
do	do	do	1889		500 00	3,085 29	353 38
do	do	фо	1890			3,110 15	255 34
do	do	фo	1891	972 65	510 53	3,255 30	312 02
do	do	do	1892	14,387 00	30,936 82	3,007 70	1,461 24
Total				645,183 35	78,890 92	35,321 56	21,278 23

LEONARD SHANNON, Accountant.

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th November, 1892.

STATEMENTS showing the amounts expended on Construction, Renewals, &c.—Con. BAIE VERTE CANAL—SURVEY.

	_	<u>-</u>		Year ending 30th June.	Capit	al.	Inco	me.
					\$	cts.	\$	cts.
overnment expendi	ture prior to	Confederat	ion					
do	since	do		1868				
do	do	do		1869				
do	do	do		1870				
do	do	do		1871			17,92	
do -	do	do		1872			6,39	99 41
\mathbf{do}	do	do		1873	1		14,94	13 83
do	do	do		1874	l		4,01	L8 90
do	\mathbf{do}	do		1875	1		44	43 00
do	do	do		1876				10 75
do	do	do		1877			2	22 30
do	do	do		1878			• • • • • •	
do	do	do		1879	1			
\mathbf{do}	do	do		1880	1			
do	do	do		1881	1		5	20 0
do	do	do		1882				
do	do	do		1883				
\mathbf{do}	do	do		1884			l	
\mathbf{do}	d o	\mathbf{do}		1885				
do	do	do	• • • • • • • • • • • • • • • • • • • •	1886	1			
do	do	\mathbf{do}		1887				
do	do	\mathbf{do}	• • • • • • • • • • • • • • • • • • • •	1888				
do	do	do		1889				
do	do	do		1890				
do	$\mathbf{d}\mathbf{o}$	do	•••••	1891				
do	do	do		1892				
				1	1		1	

LEONARD SHANNON, Accountant.

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th November, 1892.

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.
Expenditure by	Imperial Governme	ent		40,000 00			
$\mathbf{Government}$ \mathbf{exp}	enditure prior to Co		1000	2,547,532 85	1 050 70	19 740 05	10 491 51
do	since do	do do	1868 1869	2,000 00	1,852 70	13,742 05 14,209 02	10,431 51 12,085 84
do do	do		1869	2,000 00		15,834 49	13,302 39
do	do	1.	1871		12,231 40	17,478 52	15,093 25
do	do	do	1872	36,708 15		16,076 93	12,334 69
do	фо	do	1873	7,824 28	35,158 21	23,601 03	34,300 60
do	do	do	1874 1875	158,618 35 197,420 52		25,811 07 28,592 01	22,828 66 30,057 34
do do	do do	do do	1875	327,769 39		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	[<u>.</u>	39,062 97	13,646 41
\mathbf{do}	do	do	1879	958,053 30	[42,338 84	12,400 78
do	do	do	1880	369,566 74	[38,950 90 39,027 99	10,223 62 19,888 33
do	do	do do	1881 1882	292,165 51 252,821 33	2,978 66	41,158 90	17,116 46
. do do	do do	do	1883	396,496 96	1,859 68	45,554 91	18,199 59
do	ďο	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	1887	28,772 52	12,981 59	53,113 97 52,229 61	22,567 81 19,999 64
do	do do	do do	1888	19,414 34 76,032 96	7,996 38 972 71	54,110 67	22,957 71
do do	do	do ·	1889		8,238 46	53,114 34	22,999 38
do '	do	do	1891	217 53	16,555 75	50,721 69	36,292 98
do	do	do	1892	87,852 35	27,480 80	52,729 37	67,499 62
	Total			9,240,701 30	127,906 34	853,004 33	542,236 79
		BEA	JHARN	NOIS CANA	L.		
Governmentex	enditure prior to C	onfederati	on	1,611,424 11			
do	since	do	1868			9,349 99	6,216 98
do	do	do	1869			9,626 99	6,498 57 6,384 81
do	do do	do do	1870		21 30	10,117 57 12,316 53	5,722 36
do do	do	do	1872			11,792 46	15,733 38
do	do	do	1873		5,122 50	12,210 73	9 882 06
do	do	do	1874			15,392 51	10,990 56
do	do	фo	1875			14,399 32	12,253 01
фо	do	do	1876			14,465 86 14,377 63	17,170 83 15,207 36
do	do	do do	1877			14,383 37	9,861 05
do do	do do	do	1878			15,015 86	10,370 71
do	do	do	1880			15.362 61	8,997 34
do	do	do	1881		.	17,659 93	10,770 67
do	do	do	1882			18,804 53	20,813 86
do	qo	do	1883			18,287 77 19,107 38	15,826 71 16,232 61
do	do	do do	1884		7 000 70	18,960 40	14,637 70
do do	do do	do	1886			19,228 90	14,356 00
do	do	da	1887	'	. 3,633 57	18,867 45	14.999 88
	do	do	1888	3	14.411 97	19,325 05	14,285 98
do	do	do	1889	9	,	20,019 11	14,982 54
do	4.	do	. 1890)	17,085 68	19,847 42	14,999 20
do do	do		1 1001	1 1	17 AUR 10	1 10 000 00	(19 527 21
do do do	do	do	1891		17,085 68	18,886 86 20,050 01	12,537 39 14,999 80
do do		do do	1891		1,696 23	18,886 86 20,050 01 397,856 24	12,537 3 14,999 8 314,731 3

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th November, 1892.

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.
				•	\$ cts.	\$ ets.	\$ cts.	\$ cts.
	penditure prior to Co		tion		1,933,152 69			
do	since	do		1868	10 000 04	2,786 00	11,244 47	3,774 18 $3,859$ 14
do do	do do	do do		$1869 \\ 1870$	10,692 04	17,780 05	10,347 91	7,145 42
do	do	do		1871		7 50	10,368 16 11,848 39	8,891 61
do	do	do		1872		10,000 21	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	фо	do	}	1875	1,780 00		13,351 91	7,097 34
do	do	do		1876	40.011.07		13,320 61	6,423 67
do	do	do		1877 1878	49,211 37 145,015 45		13,375 70 13,825 50	6,440 54 4,935 21
do do	do do	do do		1879	143,092 05		13,817 96	4,983 15
do	do	do		1880	109.454 95		14,440 33	9,735 76
do	do	do		1881	53 948 14		15 179 GA	5.524 10
do	do	do		1882	44,587 61		15,052 20	6,634 62
do	do	do		1883	21,728 93		15,052 20 18,283 67 18,475 48	8,361 71
do .	do	do		1884	23,018 13		18,475 48	9,007 73
qo.	do	do do	{	1885	62,034 90 57,820 83	16,298 96	15,988 96 15,994 80	12,368 51
do do	do do	do		1886 1887	46,966 43	6,960 95	15,994 80	11,832 83 12,100 29
do	do	do		1888	67,945 74		16,938 54	13,942 64
do	do	do		1889	163,993 85		17.890 55	58,205 26
do	do	do		1890	365,038 01	2,000 00	17,890 55 17,063 49	12,758 18
do	$\mathbf{d}\mathbf{o}$	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
	Total			:. : .	4,297,038 22	60,650 66	363,038 90	261,958 35
			1				·	
		WILL	JIAN	MSBU	RG CANAI	Ls.		
Government ex	spenditure prior to Co		1		1,320,655 54			
do	openditure prior to Co	onfederat do	1	1868	1,320,655 54		5,745 97	6,442 41
do do	since do	onfederat do do	1	1868 1869	1,320,655 54		5,769 81	5,670 88
do do do	since do do	onfederat do do do	tion	1868 1869 1870	1,320,655 54		5,769 81 5,573 13	5,670 88 6,546 16
do do do do	since do do do	onfederat do do do do	tion	1868 1869 1870 1871	1,320,655 54		5,769 81 5,573 13 6,382 17	5,670 88 6,546 16 5,308 41
do do do do do	since do do do do	onfederat do do do do do	tion	1868 1869 1870 1871 1872	1,320,655 54	1.077 00	5,769 81 5,573 13 6,382 17 5,542 94	5,670 88 6,546 16 5,308 41 3,230 07
do do do do do	since do do do do do	onfederat do do do do do do	tion	1868 1869 1870 1871 1872 1873	1,320,655 54	1,077 00	5,769 81 5,573 13 6,382 17 5,542 94 6,424 49	5,670 88 6,546 16 5,308 41 3,230 07 7,347 75
do do do do do	since do do do do do do	onfederat do do do do do do do do	tion	1868 1869 1870 1871 1872 1873 1874 1875	1,320,655 54	1,077 00	5,769 81 5,573 13 6,382 17 5,542 94 6,424 49 6,857 19 6,547 62	5,670 88 6,546 16 5,308 41 3,230 07 7,347 75 7,395 92 4,110 29
do do do do do do do	since do do do do do do do	onfederat do do do do do do do do do	tion	1868 1869 1870 1871 1872 1873 1874 1875 1876	1,320,655 54	1,077 00	5,769 81 5,573 13 6,382 17 5,542 94 6,424 49 6,857 19 6,547 62 7,418 39	5,670 88 6,546 16 5,308 41 3,230 07 7,347 75 7,395 92 4,110 29 11,690 98
do do do do do do do do	since do do do do do do do do do do do do	onfederat do do do do do do do do do	tion	1868 1869 1870 1871 1872 1873 1874 1875 1876	1,320,655 54	1,077 00	5,769 81 5,573 13 6,382 17 5,542 94 6,424 49 6,857 19 6,547 62 7,418 39 7,388 08	5,670 88 6,546 16 5,308 41 3,230 07 7,347 75 7,395 92 4,110 29 11,690 98 10,053 61
do do do do do do do do do	since do do do do do do do do do do do do	onfederate do do do do do do do do do do do do do	tion	1868 1869 1870 1871 1872 1873 1874 1875 1876 1877	1,320,655 54	1,077 00	5,769 81 5,573 13 6,582 94 6,424 49 6,857 19 6,547 62 7,418 39 7,388 08 7,430 11	5,670 88 6,546 16 5,308 41 3,230 07 7,347 75 7,395 92 4,110 29 11,690 98 10,053 61 4,449 78
do do do do do do do do do	since do do do do do do do do do do do do do	onfederat do do do do do do do do do do do	tion	1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878	1,320,655 54	1,077 00	5,769 81 5,573 13 6,382 17 5,542 94 6,424 49 6,857 19 6,547 62 7,418 39 7,388 08 7,430 11 7,517 20	5,670 88 6,546 16 5,308 41 3,230 07 7,347 75 7,395 92 4,110 29 11,690 98 10,053 61 4,449 78 3,549 71
do do do do do do do do do	since do do do do do do do do do do do do do	onfederate do do do do do do do do do do do do do	tion	1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880	1,320,655 54	1,077 00	5,769 81 5,573 13 6,382 17 5,542 94 6,424 49 6,857 19 6,547 62 7,418 39 7,388 08 7,430 11 7,517 20 7,517 20 7,5190 15	5,670 88 6,546 16 5,308 41 3,230 07 7,347 75 7,395 92 4,110 29 11,690 98 10,053 61 4,449 78 3,549 77 3,999 77
do do do do do do do do do do	since do do do do do do do do do do do do do	onfederate do do do do do do do do do do do do do	tion	1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881	1,320,655 54	1,077 00	5,769 81 5,573 13 6,382 17 5,542 94 6,424 49 6,857 19 6,547 62 7,418 39 7,388 08 7,430 11 7,517 20 7,590 15 7,572 35	5,670 88 6,546 16 5,308 41 3,230 07 7,347 75 7,395 92 4,110 29 11,690 98 10,053 61 4,449 78 3,549 71 3,999 77 5,020 73
do do do do do do do do do	since do do do do do do do do do do do do do	onfederate do do do do do do do do do do do do do	tion	1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880	1,320,655 54	1,077 00	5,769 81 5,573 13 6,382 17 5,542 94 6,424 49 6,857 19 6,547 62 7,418 39 7,388 08 7,430 11 7,517 20 7,589 44 7,493 48	5,670 88 6,546 16 5,308 41 3,230 07 7,347 75 7,395 92 4,110 29 11,690 98 10,053 61 4,449 78 3,549 71 3,999 77 5,020 73
do do do do do do do do do do	since do do do do do do do do do do do do do	onfederated do do do do do do do do do do do do do	tion	1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884	1,320,655 54 	1,077 00	5,769 81 5,573 13 6,382 17 5,542 94 6,424 49 6,857 19 6,547 62 7,418 39 7,388 08 7,430 11 7,517 20 7,590 15 7,572 35 7,589 44 7,423 48 7,757 04	5,670 88 6,546 16 5,308 41 3,230 07 7,347 75 7,395 92 4,110 29 11,690 98 10,053 61 4,449 78 3,549 71 3,999 77 5,020 73 7,447 69 7,299 37
do do do do do do do do do do do do	since do do do do do do do do do do do do do	onfederat do do do do do do do do do do do do do	tion	1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1880 1881 1882 1883 1884 1885	1,320,655 54 	1,077 00	5,769 81 5,573 13 6,382 17 5,542 94 6,424 49 6,857 19 6,547 62 7,418 39 7,388 08 7,430 11 7,517 20 7,590 15 7,592 35 7,589 44 7,423 48 7,757 04 7,696 67	5,670 88 6,546 14 5,308 41 3,230 07 7,347 75 7,395 92 4,110 29 11,690 98 10,053 61 4,449 78 3,549 71 3,999 77 5,020 73 7,447 69 7,299 39 7,349 37 8,198 03
do do do do do do do do do do do do	since do do do do do do do do do do do do do	onfederat do do do do do do do do do do do do do	tion	1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 1885	1,320,655 54 13 19 2,473 44 103,237 12 149,835 71	1,077 00	5,769 81 5,573 13 6,382 17 5,542 94 6,424 49 6,857 19 6,547 62 7,418 39 7,388 08 7,430 11 7,517 20 7,590 15 7,572 35 7,588 44 7,423 48 7,757 04 7,696 67 7,671 54	5,670 88 6,546 41 3,230 07 7,347 75 7,395 92 4,110 29 11,690 98 10,053 61 4,449 78 3,549 71 3,999 77 5,020 73 7,447 69 7,299 39 7,349 37 8,198 03 7,847 05
do do do do do do do do do do do do	since do do do do do do do do do do do do do	onfederat do do do do do do do do do do do do do	tion	1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1880 1881 1882 1883 1884 1885 1886	1,320,655 54 13 19 2,473 44 103,237 12 149,835 71	1,077 00	5,769 81 5,573 13 6,382 17 5,542 94 6,424 49 6,857 19 6,547 62 7,418 39 7,388 08 7,430 11 7,517 20 7,590 15 7,589 44 7,423 48 7,757 04 7,696 67 7,671 54 7,635 54	5,670 88 6,546 16 5,308 41 3,230 07 7,347 75 7,395 92 4,110 29 11,690 98 10,053 61 4,449 78 3,549 71 3,999 77 5,020 73 7,447 69 7,299 39 7,349 37 8,198 03 7,847 05 7,904 76
do do do do do do do do do do do do	since do do do do do do do do do do do do do	onfederate do do do do do do do do do do do do do	tion	1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1880 1881 1882 1883 1884 1885 1886 1887	1,320,655 54 13 19 2,473 44 103,237 12 149,835 71 115,853 00 70,128 29	1,077 00	5,769 81 5,573 13 6,382 17 5,542 94 6,424 49 6,857 19 6,547 62 7,418 39 7,388 08 7,430 11 7,517 20 7,590 15 7,572 35 7,589 44 7,423 48 7,757 04 7,635 54 7,635 54 7,636 67	5,670 88 6,546 16 5,308 41 3,230 07 7,347 75 7,395 92 4,110 29 11,690 98 10,053 61 4,449 78 3,549 71 3,999 77 5,020 73 7,447 69 7,299 39 7,349 39 7,349 30 7,847 05 7,904 76 8,190 13
do do do do do do do do do do do do do d	since do do do do do do do do do do do do do	onfederat do do do do do do do do do do do do do	tion	1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1880 1881 1882 1883 1884 1885 1886 1887	13 19 2,473 44 103,237 12 149,835 71 115,853 00 70,128 29 59,867 26	1,077 00	5,769 81 5,573 13 6,382 17 5,542 94 6,424 49 6,857 19 6,547 62 7,418 39 7,430 11 7,517 20 7,590 15 7,572 35 7,589 44 7,423 48 7,757 04 7,696 67 7,671 54 7,635 54 7,646 79 7,485 28	5,670 88 6,546 16 5,308 41 3,230 07 7,347 75 7,395 92 4,110 29 11,690 98 10,053 61 4,449 78 3,549 71 3,999 77 5,020 73 7,447 69 7,299 39 7,349 37 8,198 03 7,847 05 7,904 76 8,190 13 8,794 61
do do do do do do do do do do do do do	since do do do do do do do do do do do do do	onfederat do do do do do do do do do do do do do	tion	1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 1885 1886 1887 1888 1889	1,320,655 54 13 19 2,473 44 103,237 12 149,835 71 115,853 00 70,128 29 59,867 26 139,078 37	1,077 00	5,769 81 5,573 13 6,382 17 5,542 94 6,424 49 6,857 19 6,547 62 7,418 39 7,388 08 7,430 11 7,517 20 7,589 44 7,423 48 7,757 04 7,696 67 7,671 54 7,685 54 7,646 79 7,485 28 8,954 53	5,670 88 6,546 16 5,308 41 3,230 07 7,347 75 7,395 92 4,110 29 11,690 98 10,053 61 4,449 78 3,549 71 3,999 77 5,020 73 7,447 69 7,299 39 7,349 37 8,198 05 7,904 76 8,190 13 8,794 61 8,191 69
do do do do do do do do do do do do do d	since do do do do do do do do do do do do do	onfederat do do do do do do do do do do do do do	tion	1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1880 1881 1882 1883 1884 1885 1886 1887	13 19 2,473 44 103,237 12 149,835 71 115,853 00 70,128 29 59,867 26	1,077 00	5,769 81 5,573 13 6,382 17 5,542 94 6,424 49 6,857 19 6,547 62 7,418 39 7,430 11 7,517 20 7,590 15 7,572 35 7,589 44 7,423 48 7,757 04 7,696 67 7,671 54 7,635 54 7,646 79 7,485 28	5,670 88 6,546 16 5,308 41 3,230 07 7,347 75 7,395 92 4,110 29 11,690 98 10,053 61 4,449 78 3,549 71 3,999 77 5,020 73 7,447 69 7,299 39 7,349 37 8,198 03 7,847 05 7,904 76 8,190 13 8,794 61

LEONARD SHANNON,
Accountant.

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th November, 1892.

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.
					\$ cts.	\$ cts.
Government expend	iture prior to (Confederat	ion		18,442 85	98,378 46
do	since	do		1868		
do	do	do		1869	l	
do	do	do		1870		
do	do	\mathbf{do}		1871		
do	do	do		1872		
do	do	do		1873	33,241 69	
do	do	do		1874	26,541 30	
do	do	do		1875	20,611 36	
do	do	do		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	
do	do	do		1881	6,927 96	
do	do	do		1882	28,933 45	
do	do	do		1883	44,874 31	• • • • • • • • • • • • • • • • • • • •
do •	do	do		1884	89,846 03	
do	do	đo		1885	115,110 17	
do	do	do		1886	116,051 73	
do	do	do		1887	74,437 31	
do	do	do	••••••	1888	56,482 85	1
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	
	Tota	1	·····	·····	890,534 97	98,378 46

LEONARD SHANNON,
Accountant.

DEPARTMENT OF RAILWAYS AND CANALS. OTTAWA, 30th November, 1892.

STATEMENTS showing the amounts expended on Construction, Renewals, &c.—Con. WELLAND CANAL.

			Year ending 30th June.	Capital.	Renewals Chargeable to Income.	Staff.	Repairs.
Imperial Governme	ont			\$ cts. 222,220 00	\$ cts.	\$ cts.	\$ cts.
Government expend	diture prior to C	onfederati	on	7,416,019 83			
do	since	do	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	do	1870		22,173 72	40,340 45	65,099 19
do	do	do	1871		48,569 10	49 383 33	53 381 02
do	do	do	1872	53,680 32	6,022 44 47,876 27	37,085 37	50,276 90
do	do	do	1873	82,282 20	47,876 27	37,085 37 45,382 99 50,966 48	50,276 90 66,550 73 103,666 99
do	do	do	1874	746,420 61		50,966 48	103,666 99
do	фо	do	1875	1,047,119 91		52,595 00	88,539 99
ďο	ģο	do	1876	1,569,478 19		57,623 31	81,376 12
ģo	фо	do	1877	2,199,962 61		59,963 47	49,783 93
ďο	ďο	do	1878	2,138,392 99	• • • • • • • • • • •	60,138 59	66,393 53
do	do	do	1879	1,552,697 41		59,942 23	56,755 57
do	do	do	1880	1,252,924 75	C 509 10	63,198 10	76,535 25
do do	do do	do do	1881	1,242,943 37 603,402 17 549,433 29 432,336 21	6,593 19 13,664 80	56,398 04 74,641 51	69,249 53 84,374 97
ob Cb	do do	do	1000	540 422 90	5,979 03	100 907 91	72,707 62
do	do	do	1883	439 336 91	3,313 03	113 976 97	90,926 97
do	do	do	1000	463,505 38	6,150 21	109,207 21 113,276 87 112,670 00	91,534 66
do	do	do	1885	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	do	1890	117,633 22	51,648 28	109,202 02	72.686 19
do	do	do	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
	Total		1	. 92 754 624 67	I 907 885 0∩	1 970 515 06	1 706 710 94
	S			23,754,034 67 CK AND CA		1,879,515 96	1,750,710 34
		TE. ANI	NE'S LOC	CK AND CA	NAL.		1,730,710 34
Government expend	diture prior to C	TE. ANI	NE'S LOC	CK AND CA	NAL.		
do	diture prior to C	TE. ANI	NE'S LOC	CK AND CA	NAL.	778 16	432 47
do Î do	diture prior to C since do	TE. ANI confederat do do	NE'S LOC ion 1868 1869	CK AND CA	NAL.	778 16 1,062 96	432 47 1,873 51
do do do	diture prior to C since do do	TE. ANI confederat do do do do	NE'S LOC ion	2K AND CA	NAL.	778 16 1,062 96 1,136 54	432 47 1,873 51 1,280 36
do do do do	diture prior to C since do do do	TE. ANI confederat do do do do do	ion	2K AND CA	NAL.	778 16 1,062 96 1,136 54 1,285 84	432 47 1,873 51 1,280 36 1,539 02
do do do do do	diture prior to C since do do do do	TE. ANI confederat do do do do do do	ion	2K AND CA	NAL.	778 16 1,062 96 1,136 54 1,285 84 1,106 80	432 47 1,873 51 1,280 36 1,539 02
do do do do do do	diture prior to C since do do do do do	TE. ANI confederat do do do do do do	NE'S LOC ion	2K AND CA	1,939 46 540 11	778 16 1,062 96 1,136 54 1,285 84 1,106 80 2,199 64	432 47 1,873 51 1,280 36 1,539 02
do do do do do do	diture prior to C since do do do do do do	TE. ANI confederat do do do do do do do do do	NE'S LOC ion	2K AND CA	1,939 46 540 11	778 16 1,062 96 1,136 54 1,285 84 1,106 80 2,199 64	432 47 1,873 51 1,280 36 1,539 02 1,393 63 1,264 40 7,208 63
do do do do do do do do	diture prior to C since do do do do do do do do	TE. ANI confederat do do do do do do do do do do do	NE'S LOC ion 1868 1869 1871 1872 1873 1874 1875	134,456 51 12,753 27 32,627 71	1,939 46 540 11	778 16 1,062 96 1,136 54 1,285 84 1,106 80 2,199 64 2,614 90 1,859 20	432 47 1,873 51 1,280 36 1,539 02 1,393 63 1,264 40 7,208 63 4,506 68
do do do do do do do do	diture prior to C since do do do do do do do do do do	TE. ANY confederat do do do do do do do do do do do do	NE'S LOC ion	134,456 51 12,753 27 32,627 71	1,939 46 540 11	778 16 1,062 96 1,136 54 1,285 84 1,106 80 2,199 64 2,614 90 1,859 20	432 47 1,873 51 1,280 36 1,539 02 1,393 63 1,264 40 7,208 63 4,506 68 4,033 72
do do do do do do do do do	diture prior to C since do do do do do do do do do do do	TE. AND confederat do do do do do do do do do do do do do	NE'S LOC ion	134,456 51 12,753 27 32,627 71 24,935 85 30,003 08	1,939 46 540 11	778 16 1,062 96 1,136 54 1,285 84 1,106 80 2,199 64 2,614 90 1,859 20 1,952 14 1,982 65	432 47 1,873 51 1,280 36 1,539 02 1,393 63 1,264 40 7,208 63 4,506 68 4,033 72 1,756 93
do do do do do do do do do	diture prior to C since do do do do do do do do do do do	TE. AND confederat do do do do do do do do do do do do do	NE'S LOC 1868 1868 1870 1871 1872 1873 1874 1875 1876 1877 1878	134,456 51 12,753 27 32,627 71 24,935 85 30,003 08 14,618 85	1,939 46 540 11	778 16 1,062 96 1,136 54 1,285 84 1,106 80 2,199 64 2,614 90 1,859 20 1,952 14 1,982 65 2,057 32	432 47 1,873 51 1,289 36 1,539 02 1,393 63 1,264 40 7,208 63 4,506 68 4,033 72 1,756 93 541 95
do do do do do do do do do	diture prior to C since do do do do do do do do do do do do do	onfederat do do do do do do do do do do do do do	NE'S LOC ion	12,753 27 32,627 71 24,935 85 30,003 08 14,618 85 22,113 02	1,939 46 540 11	778 16 1,062 96 1,136 54 1,285 84 1,106 80 2,199 64 2,614 90 1,859 20 1,952 14 1,982 65 2,057 32 2,202 03	432 47 1,873 51 1,280 36 1,539 02 1,393 63 1,264 40 7,208 63 4,506 68 4,033 72 1,756 93 541 95 3,259 70
do do do do do do do do do do	diture prior to C since do do do do do do do do do do do do do	onfederat do do do do do do do do do do do do do	NE'S LOC ion	12,753 27 32,627 71 24,935 85 30,003 08 14,618 85 22,113 02 3,054 68 69 044 76	1,939 46 540 11	778 16 1,062 96 1,136 54 1,285 84 1,106 80 2,199 64 2,614 90 1,859 20 1,952 14 1,982 65 2,057 32 2,202 03 2,152 57	432 47 1,873 51 1,280 36 1,539 02 1,393 63 1,264 40 7,208 63 4,506 68 4,033 72 1,756 93 541 95 3,259 70 1,704 71 3 257 92
do do do do do do do do do	diture prior to C since do do do do do do do do do do do do do	onfederat do do do do do do do do do do do do do	NE'S LOC 1868 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1878 1879 1880 1881	12,753 27 32,627 71 24,935 85 30,003 08 14,618 85 22,113 02 3,054 68 69 044 76	1,939 46 540 11	778 16 1,062 96 1,136 54 1,285 84 1,106 80 2,199 64 2,614 90 1,859 20 1,952 14 1,982 65 2,057 32 2,202 03 2,152 57 2,553 02	432 47 1,873 51 1,280 36 1,539 02 1,393 63 1,264 40 7,208 63 4,506 68 4,033 72 1,756 93 541 95 3,259 70 1,704 71 3 257 92
do do do do do do do do do do	diture prior to C since do do do do do do do do do do do do do	TE. AND confederat do do do do do do do do do do do do do	NE'S LOC 1868 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882	12,753 27 32,627 71 24,935 85 30,003 08 14,618 85 22,113 02 3,054 68 69 044 76	1,939 46 540 11	778 16 1,062 96 1,136 54 1,285 84 1,106 80 2,199 64 2,614 90 1,859 20 1,952 14 1,982 65 2,057 32 2,202 03 2,152 57 2,553 02 2,611 30	432 47 1,873 51 1,280 36 1,539 02 1,393 63 1,264 40 7,208 63 4,506 63 4,033 72 1,756 93 541 95 3,259 70 1,704 71
do do do do do do do do do do	diture prior to C since do do do do do do do do do do do do do	TE. AND confederat do do do do do do do do do do do do do	NE'S LOC 1868 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1882 1883	12,753 27 32,627 71 24,935 85 30,003 08 14,618 85 22,113 02 3,054 68 69,042 76 193,158 36 172,959 95 142,006 25	1,939 46 540 11	778 16 1,062 96 1,136 54 1,285 84 1,106 80 2,199 64 2,614 90 1,859 20 1,952 14 1,982 65 2,057 32 2,202 03 2,155 57 2,553 02 2,611 30 2,569 86 2,775 32	432 47 1,873 51 1,280 36 1,539 02 1,393 63 1,264 40 7,208 63 4,506 68 4,033 72 1,756 93 541 95 3,259 70 1,704 71 3,257 92 2,343 99 3,448 83 2,725 49
do do do do do do do do do do do	diture prior to C since do do do do do do do do do do do do do	onfederat do do do do do do do do do do do do do	NE'S LOC ion	12,753 27 32,627 71 24,935 85 30,003 08 14,618 85 22,113 02 3,054 88 59,042 76 193,158 36 172,959 95 142,006 25 93,679 57	1,939 46 540 11	778 16 1,062 96 1,136 54 1,285 84 1,106 80 2,199 64 2,614 90 1,859 20 1,952 14 1,982 65 2,057 32 2,202 03 2,152 57 2,553 02 2,611 30 2,569 86 2,775 32 2,618 60	432 47 1,873 51 1,280 36 1,539 02 1,393 63 1,264 40 7,208 63 4,506 68 4,033 72 1,756 93 541 95 3,259 70 1,704 71 3,257 92 2,343 99 3,448 83 2,725 49 4,042 04
do do do do do do do do do do do do do d	diture prior to C since do do do do do do do do do do do do do	TE. AND confederat do do do do do do do do do do do do do	NE'S LOC ion 1868	134,456 51 12,753 27 32,627 71 24,935 85 30,003 08 14,618 85 22,113 02 3,054 68 69,042 76 193,158 36 172,959 95 142,006 25 93,679 57 129,681 67	1,939 46 540 11	778 16 1,062 96 1,136 54 1,285 84 1,106 80 2,199 64 2,614 90 1,859 20 1,952 14 1,982 65 2,057 32 2,202 03 2,152 57 2,553 02 2,611 30 2,569 86 2,775 32 2,618 60 2,611 90	432 47 1,873 51 1,280 36 1,539 02 1,393 63 1,264 40 7,208 63 4,506 63 4,033 72 1,756 93 541 95 3,257 90 1,704 71 3,257 92 2,343 99 3,448 83 2,725 49 4,042 04 5,803 01
do do do do do do do do do do do do do d	diture prior to C since do do do do do do do do do do do do do	TE. AND confederat do do do do do do do do do do do do do	NE'S LOC ion	134,456 51 12,753 27 32,627 71 24,935 85 30,003 08 14,618 85 22,113 02 3,054 68 69,042 76 193,158 36 172,959 95 142,006 25 93,679 57 129,681 67 45,276 08	1,939 46 540 11	778 16 1,062 96 1,136 54 1,285 84 1,106 80 2,199 64 2,614 90 1,859 20 1,952 14 1,982 65 2,057 32 2,202 03 2,152 57 2,553 02 2,611 30 2,569 86 2,775 32 2,618 60 2,611 90 2,537 41	432 47 1,873 51 1,280 36 1,539 02 1,393 63 1,264 40 7,208 63 4,506 68 4,033 72 1,756 93 541 95 3,259 70 1,704 71 3,257 92 2,343 99 3,448 83 2,725 49 4,042 04 5,803 01 1,499 96
do do do do do do do do do do do do do d	diture prior to C since do do do do do do do do do do do do do	TE. AND confederat do do do do do do do do do do do do do	NE'S LOC 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 1885 1886 1887 1888	12,753 27 32,627 71 24,935 85 30,003 08 14,618 85 22,113 02 3,054 68 69,042 76 193,158 36 172,959 95 142,006 25 93,679 57 129,681 67 45,276 08 18,910 55	1,939 46 540 11	778 16 1,062 96 1,136 54 1,285 84 1,106 80 2,199 64 2,614 90 1,859 20 1,952 14 1,982 65 2,057 32 2,202 03 2,152 57 2,553 02 2,611 30 2,569 86 2,775 32 2,618 60 2,611 90 2,537 41 2,505 61	432 47 1,873 51 1,289 36 1,539 02 1,393 63 1,264 40 7,208 63 4,506 68 4,033 72 1,704 71 3,259 70 1,704 71 3,257 92 2,343 99 3,448 83 2,725 49 4,042 04 5,803 01 1,499 96 1,380 75
do do do do do do do do do do do do do d	diture prior to C since do do do do do do do do do do do do do	TE. AND confederat do do do do do do do do do do do do do	NE'S LOC ion	12,753 27 32,627 71 24,935 85 30,003 08 14,618 85 22,113 02 3,054 68 69,042 76 193,158 36 172,959 95 142,006 25 93,679 57 129,681 67 45,276 08 18,910 55 24,786 33	1,939 46 540 11	778 16 1,062 96 1,136 54 1,285 84 1,106 80 2,199 64 2,614 90 1,859 20 1,952 14 1,982 65 2,057 32 2,202 03 2,152 57 2,553 02 2,611 30 2,569 86 2,775 32 2,618 60 2,619 90 2,537 61 2,569 21	432 47 1,873 51 1,280 36 1,539 02 1,393 63 1,264 40 7,208 63 4,506 63 4,033 72 1,756 93 541 95 3,259 70 1,704 71 3,257 32 2,343 99 3,448 83 2,725 49 4,042 04 5,803 01 1,499 96 1,380 75 1,730 79
do do do do do do do do do do do do do d	diture prior to C since do do do do do do do do do do do do do	TE. AND confederat do do do do do do do do do do do do do	NE'S LOC ion	12,753 27 32,627 71 24,935 85 30,003 08 14,618 85 22,113 02 3,054 68 69,042 76 193,158 36 172,959 95 142,006 25 93,679 57 129,681 67 45,276 08 18,910 55	1,939 46 540 11 6,054 10 1,372 59	778 16 1,062 96 1,136 54 1,285 84 1,106 80 2,199 64 2,614 90 1,859 20 1,952 14 1,982 65 2,057 32 2,202 03 2,152 57 2,553 02 2,611 30 2,569 86 2,775 32 2,618 60 2,611 90 2,537 41 2,505 61 2,569 22 2,571 04	432 47 1,873 51 1,280 36 1,539 02 1,393 63 1,264 40 7,208 63 4,506 68 4,033 72 1,756 93 541 95 3,259 70 1,704 71 3,257 92 2,343 99 3,448 83 2,725 49 4,042 04 5,803 01 1,499 96 1,380 75 1,730 79 1,730 79
do do do do do do do do do do do do do d	diture prior to C since do do do do do do do do do do do do do	TE. AND confederat do do do do do do do do do do do do do	NE'S LOC ion	12,753 27 32,627 71 24,935 85 30,003 08 14,618 85 22,113 02 3,054 68 69,042 76 193,158 36 172,959 95 142,006 25 93,679 57 129,681 67 45,276 08 18,910 55 24,786 33 6,151 14	1,939 46 540 11 6,054 10 1,372 59	778 16 1,062 96 1,136 54 1,285 84 1,106 80 2,199 64 2,614 90 1,859 20 1,952 14 1,982 65 2,057 32 2,202 30 2,1553 02 2,611 30 2,569 86 2,775 32 2,618 60 2,611 90 2,537 41 2,505 61 2,569 22 2,571 04 2,505 69	432 47 1,873 51 1,280 36 1,539 02 1,393 63 1,264 40 7,208 63 4,506 68 4,033 72 1,756 93 541 95 3,259 70 1,704 71 3,257 92 2,343 99 3,448 83 2,725 49 4,042 04 5,803 01 1,499 96 1,380 75 1,730 79 1,525 51 1,503 56
do do do do do do do do do do do do do d	diture prior to C since do do do do do do do do do do do do do	TE. AND confederat do do do do do do do do do do do do do	NE'S LOC ion	12,753 27 32,627 71 24,935 85 30,003 08 14,618 85 22,113 02 3,054 68 69,042 76 193,158 36 172,959 95 142,006 25 93,679 57 129,681 67 45,276 08 18,910 55 24,786 33	1,939 46 540 11 6,054 10 1,372 59	778 16 1,062 96 1,136 54 1,285 84 1,106 80 2,199 64 2,614 90 1,859 20 1,952 14 1,982 65 2,057 32 2,202 03 2,152 57 2,553 02 2,611 30 2,569 86 2,775 32 2,618 60 2,611 90 2,537 41 2,505 61 2,569 22 2,571 04	432 47 1,873 51 1,280 36 1,539 02 1,393 63 1,264 40 7,208 63 4,506 68 4,033 72 1,756 93 541 95 3,259 70 1,704 71 3,257 92 2,343 83 2,725 49 4,042 04 5,803 01 1,499 96 1,380 75 1,730 75 1,730 75 1,730 75

LEONARD SHANNON,

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th November, 1892.

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.	\$ ets.
Government expen	diture prior to C	onfederati	on	63,053 64			
do	since	do	1868		19,817 22	6,301 88	8,911 28
do	do	ďο	1869			6,549 38	10,157 42
do	ďο	do	1870		4,167 96	6,617 81 8,676 90	9,852 09 8,218 24
do	do	do do	1871	165,257 28	23,119 37	8,324 51	17,235 31
do do	do do	do	1 1075		3,051 38	10,068 28	8,781 50
do	do	do	1873		0,001 00	10,710 88	10,605 82
do	do	do	1878	339,864 76		10 279 57	18,520 44
do	do	do	1876	326,203 16	1	10,376 37 10,764 38 11,050 27 11,401 30	11,475 96 10,304 06
do	do	фo	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			11,501 22 11,959 14	7,629 98 7,625 54
do	do do	do do	100			13,059 18	8,076 91
do do	do	do	188			14,387 49	7,582 68
do	do	do	188		1	17,479 58	8,310 02
. do	do	do	188	399,267 16		17,393 91	7,918 42
do	do	do	188	5 157,187 72		19,702 30	10,429 26
do	do	do	1880		75 00	20,597 82	9,303 31
do	do	do	188	7 20,747 11		20,011 36	10,554 41
do	do	do	188			21,531 12	10,036 62 10,135 66
do	do	do	188	9 298 17 0 17 58	4,526 61	22,098 88 15,896 16	7,582 38
do do	do do	do do		1 17 56	4,395 25	21,230 22	10,796 68
do	do	do	189		15,036 48	17,458 69	8,620 15
	Total		<u>]</u>	4,025,346 00	74,189 27	345,151 23	243,746 86
		CULB	UTE L	OCK AND D	AM.		,
Government exper	nditure since Co	onfederatio	n 186		ļ		!
do	do	do	186				
do	do	do	187	0			
фо	do	do	187				
do	do	do	187		835 53		
do do	do do	do do	187	A	38,388 99		
do	do	do	187		. 50,500 55		
do	do	do	187				
do	do	do	187	7 56,081 87			1
do	do	do	187	8 5,933 53			
do	do	\mathbf{do}	187				
do	do	do	188	0 16,688 20		202 50	259 31
do	do	do	188			962 85 790 00	160 99
, do	do	do do	188			695 00	162 33 288 99
do do	do do	do do	100			733 50	200 99
do	do	do	188		1	730 00	572 75
do	do	do	188		1	730 00	2,396 14
do	do	do	188	7,760 88		730 00	967 33
do	do	do	188	8 7,573 99		739 50	730 60
do	ďο	do	188	9 17,112 01		1,050 00	116 53
do	do	do	189	0 2,818 35	0.400.05	747 83	400.04
do	do	do	189		9,122 05	745 25 736 00	499 91
do	do	do	189	14	. 1,546 25	190 00	
			ŀ	I	-;	·	
י	lotal			379,494 46	49,892 82	9,592 43	5,993 8

LEONARD SHANNON,

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th November, 1892.

STATEMENTS showing the amounts expended on Construction, Renewals, &c.—Con. RIDEAU CANAL.

<u></u>				Year ending 30th June.	Capital.	Renewals Chargeable to Income.	Staff.	Repairs.
					\$ cts.	\$ cts.	\$ cts.	\$ cts
Imperial Governme	ent		.		3,911,701 47			
${f Government}$ expend	diture prior to				153,062 60			
do	since	do	1	1868		7,298 12	18,397 28	16,475 21
do	do	do	(1869			19,250 71	13,140 77
do	do	do		1870		13 16	20,022 37 22,814 58	19,469 33 18,120 52
do do	do do	do do		$1871 \\ 1872$		11,732 98 4,967 50	22,814 98 22,139 48	18,120 52
do do	do do	do do		1873		18,070 97	22,139 48 22,841 51	26,074 49
do	do	do	- 1	1874		5,793 13	26,815 44	22,957 40
do	do	do	!	1875	9,310 85	0,7 70 10	26,553 37	19,699 81
do	do	do		1876	2,163 96		26,430 77	14,428 25
do	do	do		1877	214 11		25,959 56	14,198 18
do	do	$\overline{\mathbf{do}}$		1878			26,651 51	11,034 22
do	do	do		1879	7,703 88		26,042 52	7,134 55
do	do	do		1880	1		96 469 99	11 494 05
do	do	\mathbf{do}		1881	<u> </u>	133 50	26,024 71	8,627 00 13,860 28
do	do	do		1882			26,915 29	13,860 28
do	do	do		1883		70 65	27,322 81	23 524 84
do	do	do		1884		4,597 50	26,024 71 26,915 29 27,322 81 26,938 95	19,245 02
do	do	ďο		1885		2,098 76	20,971 32]	19,245 02 18,189 55
. do	do	фо		1886	}	550 00	27,045 95	35,648 04
do	do	ďο		1887		20,823 96	29,440 46	18,565 34
фо	do	dο		1888		18,889 48	33,458 83	25,478 87
ďο	do	ďο		1889		6,665 22	33,801 77	18,106 36
ďο	do	do		1890		21,124 10	34,270 57	18,025 21
do	do	do		1891	j	20,967 25 31,363 23	34,641 98	21,537 56
do	do	do		1892•		31,303 23	35,500 82	21,507 16
T	otal		• • • •		4,084,156 87	175,159 54	672,716 44	450,487 33
			ST.	OUI	RS LOCK.			
Government expen	diture prior to	Confedera	tion		121,537 65	1		
do	since	do		1868			1,532 75	753 74
do	do	do		1869			1,755 15	1,399 18
	do	do		1870	1	1		
do							1,458 09	1,006 22
do	do	\mathbf{do}		1871			1,414 48	1,210 98
do do	do	do	::	1872			1,414 48 1,565 80	1,210 98 1,263 19
do do do	do do	do do		1872 1873			1,414 48 1,565 80 2,076 50	1,210 98 1,263 19 1,575 10
do do do do	do do do	do do do		1872 1873 1874			1,414 48 1,565 80 2,076 50 2,219 13	1,210 98 1,263 19 1,575 10 2,363 42
do do do do do	do do do do	do do do do		1872 1873 1874 1875			1,414 48 1,565 80 2,076 50 2,219 13 1,362 22	1,210 98 1,263 19 1,575 10 2,363 42 1,245 69
do do do do do do	do do do do do	do do do do do		1872 1873 1874 1875 1876			1,414 48 1,565 80 2,076 50 2,219 13 1,362 22 1,403 92	1,210 98 1,263 19 1,575 10 2,363 42 1,245 69 1,601 71
do do do do do do	do do do do do do	do do do do do do		1872 1873 1874 1875 1876 1877			1,414 48 1,565 80 2,076 50 2,219 13 1,362 22 1,403 92 1,533 40	1,210 98 1,263 19 1,575 10 2,363 49 1,245 69 1,601 71 750 80
do do do do do do do	do do do do do do	do do do do do do do		1872 1873 1874 1875 1876 1877 1878			1,414 48 1,565 80 2,076 50 2,219 13 1,362 22 1,403 92 1,533 40 1,556 65	1,210 98 1,263 19 1,575 10 2,363 42 1,245 69 1,601 71 750 80 283 77
do do do do do do do	do do do do do do do do	do do do do do do do		1872 1873 1874 1875 1876 1877 1878 1879			1,414 48 1,565 80 2,076 50 2,219 13 1,362 22 1,403 92 1,533 40 1,556 65 1,581 55	1,210 98 1,263 19 1,575 10 2,363 42 1,245 69 1,601 750 80 283 77 456 07
do do do do do do do do	do do do do do do do do	do do do do do do do do		1872 1873 1874 1875 1876 1877 1878 1879 1880			1,414 48 1,565 80 2,076 50 2,219 13 1,362 22 1,403 92 1,533 40 1,556 65 1,581 55 1,614 01	1,210 98 1,263 19 1,575 10 2,363 42 1,245 69 1,601 73 750 283 77 456 07
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		1872 1873 1874 1875 1876 1877 1878 1879 1880 1881			1,414 48 1,565 80 2,076 50 2,219 13 1,362 22 1,403 92 1,533 40 1,556 65 1,581 55 1,614 01 1,741 97	1,210 98 1,263 19 1,575 19 2,363 42 2,363 42 1,245 69 1,601 71 750 80 283 77 456 07 705 54
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		1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882			1,414 48 1,565 80 2,076 50 2,219 13 1,362 22 1,403 92 1,533 40 1,556 65 1,581 55 1,614 01 1,741 97 2,002 71	1,006 22 1,210 98 1,263 16 1,575 10 2,363 44 1,245 66 1,601 77 750 86 283 77 456 07 705 55 1,299 77 1,902 42 2,188 40
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		1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883		17,230 32	1,414 48 1,565 80 2,076 50 2,219 13 1,362 22 1,403 92 1,533 40 1,556 55 1,581 55 1,614 01 1,741 97 2,002 71 2,361 65	1,210 98 1,263 19 1,263 19 2,363 49 1,245 69 1,601 77 750 86 283 77 456 07 705 5- 1,299 71 1,992 44 2,188 00
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		1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884		17,230 32 5,279 17	1,414 48 1,565 80 2,076 50 2,219 13 1,362 22 1,403 92 1,533 40 1,556 65 1,581 55 1,614 01 1,741 97 2,002 71 2,361 65 2,361 65	1,210 98 1,263 19 1,575 10 2,363 49 1,245 66 1,601 77 750 86 283 77 456 07 705 5 1,299 77 1,902 4 2,188 00 1,494 99
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		1872 1873 1874 1875 1876 1877 1878 1880 1881 1882 1883 1884 1885		17,230 32	1,414 48 1,565 80 2,076 50 2,219 13 1,362 22 1,403 92 1,533 40 1,556 65 1,581 55 1,614 01 1,741 97 2,002 71 2,361 65 2,315 37 2,271 57	1,210 98 1,263 19 1,575 10 2,368 49 1,245 60 1,601 77 755 86 283 77 456 07 705 5 1,299 77 1,902 49 2,188 00 1,494 99 3,552 65
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		1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884		17,230 32 5,279 17	1,414 48 1,565 80 2,076 50 2,219 13 1,362 22 1,403 92 1,533 40 1,556 65 1,581 55 1,614 01 1,741 97 2,002 71 2,361 65 2,315 37 2,271 57 2,311 70	1,210 98 1,263 19 1,575 10 2,363 49 1,460 67 750 86 283 77 456 70 5 1,299 77 1,902 47 2,188 00 1,494 99 3,652 65 4,143 44
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		1872 1873 1874 1875 1876 1877 1878 1880 1881 1882 1883 1884 1885 1886		17,230 32 5,279 17	1,414 48 1,565 80 2,076 50 2,219 13 1,362 22 1,533 40 1,556 65 1,581 55 1,614 01 1,741 97 2,002 71 2,303 65 2,315 37 2,271 57 2,311 70 2,175 37	1,210 98 1,263 19 1,575 10 2,363 42 1,245 66 1,601 7 750 86 283 7 456 07 705 5 1,299 7 1,902 4 2,188 0 1,494 99 3,552 64 4,143 4 5,864 7
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		1872 1873 1874 1875 1876 1877 1878 1880 1881 1882 1883 1884 1885 1886 1887 1888		17,230 32 5,279 17	1,414 48 1,565 80 2,076 50 2,219 13 1,362 22 1,403 92 1,533 40 1,556 65 1,581 55 1,614 01 1,741 97 2,002 71 2,361 65 2,315 37 2,271 57 2,311 70	1,210 98 1,263 19 1,575 10 2,363 42 1,245 66 1,601 77 750 86 283 77 456 07 705 5 1,299 77 1,902 4 2,188 00 1,494 99 3,652 66 4,143 47 5,861 17
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 d		1872 1873 1874 1875 1876 1877 1878 1880 1881 1882 1883 1884 1885 1886 1887 1888		17,230 32 5,279 17 4,700 64 17,964 45 24,571 96	1,414 48 1,565 80 2,076 50 2,219 13 1,362 22 1,403 92 1,533 40 1,556 65 1,581 55 1,614 01 1,741 97 2,002 71 2,361 65 2,315 37 2,271 57 2,311 70 2,175 37 2,216 04	1,210 98 1,263 19 1,575 10 2,368 49 1,245 60 1,601 77 755 86 283 77 456 07 705 5 1,299 77 1,902 49 2,188 00 1,494 99 3,552 65
do do do do do do do do do do do do do d	do do do do do do do do do do do do do d	do do do do do do do do do do do do do d		1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 1885 1886 1887 1888 1889 1890		17,230 32 5,279 17 4,700 64	1,414 48 1,565 80 2,076 50 2,219 13 1,362 22 1,403 92 1,533 40 1,556 65 1,581 55 1,614 01 1,741 97 2,002 71 2,361 65 2,315 37 2,271 57 2,311 70 2,175 37 2,216 04 2,421 14 2,138 40	1,210 98 1,263 19 1,575 10 2,363 49 1,601 67 750 86 283 77 456 07 705 5 1,299 77 1,992 77 1,992 49 2,188 00 1,494 99 3,562 4,143 49 5,864 71 2,801 11 2,002 66
do do do do do do do do do do do do do d	do do do do do do do do do do do do do d	do do do do do do do do do do do do do d		1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 1885 1886 1887 1888 1889		17,230 32 5,279 17 4,700 64 17,964 45 24,571 96	1,414 48 1,565 80 2,076 50 2,219 13 1,362 22 1,403 92 1,533 40 1,556 65 1,581 55 1,614 01 1,741 97 2,002 71 2,361 65 2,315 37 2,271 57 2,216 04 2,421 14	1,210 98 1,263 19 1,575 10 2,363 49 1,245 60 1,601 705 5 1,299 77 1,902 4 2,188 00 1,494 99 3,652 64 4,143 44 5,864 77 2,801 17 2,902 6 1,935 4

LEONARD SHANNON,

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th November, 1892.

STATEMENTS showing the amounts expended on Construction, Renewals, &c.—Con.
CHAMBLY CANAL.

		CHA	MBLY	CANAL.			
			Year ending 30th June.	Capital.	Renewals Chargeable to Income.	Staff.	Repairs.
				\$ cts.	\$ cts.	, \$ cts.	\$ cts.
Government expend	liture prior to Co	onfederation	a	634,711 76			
do	since	do .	. 1868]]	8,312 90	9,355 70
do	do	do .				8,437 22	13,120 97
do	do	do .			2,839 85	8,934 41	20,180 73 22,426 33
do do	do do	do . do .	1871		1,906 40	10,214 71 9,628 50	22,426 33 22,327 99 11,789 27
do	do	do .	1 -0-0	1	759 00	10,390 44	11,789 27
do	do	do .	1051	1	2,810 00	11,675 67	16,427 19
do	do	do .		2,415 00	2,010 00	12,201 99	16,306 91
do	do	do .	1 1000			10,593 14	13,273 56
do	do	do .	1.000	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
\mathbf{do}	do	do .	. 1880			11,516 22	12,377 17
do	do	\mathbf{do} .				13,950 47	20,705 17
do	do	do .			31,796 41	16,686 78	16,843 60
d o	do		. 1883		21,332 36	15,904 38	15,182 24
do	do	do .	. 1884			18,448 85 18,378 55 19,501 28	12,003 34
ďο	do	do .	. 1885			18,378 55	13,046 95 11,999 77
do	do	do .	. 1886			19,501 28	11,999 77 20,071 37
do	do	do .	. 1887 1888			19,053 62 20,073 60	11,823 74
do do	đo đo	do . do .	1889		51,437 87	19.679 22	19,392 18
do	do	1	1 1000		23,221 48	19,655 38	14,399 93
do	do	do .	1890		43.344 41	19,204 76	11,399 93
do	do		1892		38,353 99	19,665 22	12,976 48
u o	ao		. 1002				
	Total			. 637,206 76	378,486 85	354,104 61	362,375 14
	*************	MU	JRRA	Y CANAL.	1		1
Government expen	diture prior to C	onfederation	n				
do	since	do .	1868	· · · · · · · · · · · · · · · · · · ·			
do	do		. 1869				
do	do		1870	٠			
do	do		1871 1872		.]		
do	do do		1000				
do do	do		1				
do	do	do	1874 1875				
do	do	do	1876				
do	do	do	1877	'	1		1
do	do		1878	3			
do	do		1879)	.		
do	do	do	1880				
do	do	do	1881	. <i></i>		.]	. İ .
do	do	do	1882			1	(
do	\mathbf{do}	do	1883	84,071 68			
do	do		1884				. j
do	do		1885	148,902 66	j		
do	фо		. 1886				
do	do	do	1887	142,563 66		.]	.
do	do	•	1888	146,754 37		. j	
do	do		1889	215,326 46		404 01	. [• • • • • • • • • • • •
do	do		1890	1 100,760 30		494 31	179 20
do do	do do	do do	1891			5,137 03 5,803 48	173 53 3,505 15
uθ	uυ	ao	1892	5,504 22		0,000 40	0,000 10
	Total			. 1,216,631 47	400 00	11,434 82	3,678 68
•			1		1	1	1

LEONARD SHANNON,

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th November, 1892.

STATEMENTS showing the amounts expended on Construction, Renewals, &c .- Con. TRENT CANAL.

				Capital.	Renewals Chargeable to Income.	Staff.	Repairs.	
				\$ cts.	\$ cts.	\$ cts.	\$ cts.	
Government expend	iture prior to C	Confederation	l	309,371 31		1		
do	since	do	1868					
do	do	do	1869					
do	do	do	1870		1			
do	do	do .	1871					
do	do	do	1872		! !			
\mathbf{do}	do	do	1873			1	1	
do	do	do	1874		l			
do	do	do	1875					
do	do	do	1876					
do	do	do	1877					
do	do	do	1878		1			
do	do	do	1879				I	
do	do	do	1880	561 50	1	1,188 92	3,568 89	
do	do	do	1881	302 00		2 489 93	2,233 50	
do	do	do	1882		5,836 51	2,011 92	8,115 50	
do	do	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	, 0,100 0,	3,303 87	4,653 50	
do	do	do	1886	75,103 30		1,639 75	5,917 88	
do	do	do	1887	179,541 63		1,938 08	6,008 88	
do	do	do	1888	114 879 35		1,770 29	5,151 42	
do	do	do	1889	114,879 35 47,592 13	29,677 92	3,242 05	5,935 94	
do	do	do	1890	58,644 50	11,522 65	3,450 99	730 55	
do	do	1	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		
ao	ao	uo	1002	7,301 20	1 0,000 01	0,000 00	4,721 85	
			1			l	·	
	Total			1,082,521 40	72,211 09	32,979 45	60,238 66	
	Total		!	1,082,521 40 ANAL.	72,211 09	32,979 45		
		Т	AY C					
Government expend	liture since Co	Tonfederation.	AY C	ANAL.			60,238 66	
Government expend	liture since Co	Tonfederation.	AY C	ANAL.			60,238 66	
Government expend do do	liture since Co do do	Tonfederation.dodo	AY C 1868 1869 1870	ANAL.		1	60,238 66	
Government expend do do do	liture since Co do do do	onfederation. do do do	1868 1869 1870 1871	ANAL.			60,238 66	
Government expend do do do do	liture since Co do do do do	onfederation. do do do do	1868 1869 1870 1871 1872	ANAL.			60,238 66	
Government expend do do do do do	liture since Co do do do do do	onfederation. do do do do do	1868 1869 1870 1871 1872 1873	ANAL.			60,238 66	
Government expend do do do do do do	liture since Co do do do do do	onfederation. do do do do do do	1868 1869 1870 1871 1872 1873 1874	ANAL.			60,238 66	
Government expend do do do do do do do do	liture since Co do do do do do do do	onfederation. do do do do do do do	1868 1869 1870 1871 1872 1873 1874 1875	ANAL.			60,238 66	
Government expend do do do do do do do do	liture since Co do do do do do do do	onfederation. do do do do do do do do	1868 1869 1870 1871 1872 1873 1874 1875 1876	ANAL.			60,238 66	
Government expend do do do do do do do do do	liture since Co do do do do do do do do	onfederation. do do do do do do do do do	1868 1869 1870 1871 1872 1873 1874 1875 1876 1877	ANAL.			60,238 66	
Government expend do do do do do do do do do do	liture since Co do do do do do do do do do	onfederation. do do do do do do do do do do do	1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878	ANAL.			60,238 66	
Government expend do do do do do do do do do do	liture since Co do do do do do do do do do do	do do do do do do do do do do do do do do	1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878	ANAL.			60,238 66	
Government expend do do do do do do do do do do do	liture since Co do do do do do do do do do do	Tonfederation. do do do do do do do do do do do do do do do do do do do	1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880	ANAL.			60,238 66	
Government expended do do do do do do do do do do do do do	liture since Co do do do do do do do do do do do	do do	1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881	ANAL.			60,238 66	
Government expend do do do do do do do do do do do do	liture since Co do do do do do do do do do do do	do do	1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882	ANAL.	748 65		60,238 66	
Government expend do do do do do do do do do do do do do	liture since Co do do do do do do do do do do do do	Tonfederation. do	1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883	ANAL.	748 65		60,238 66	
Government expended do do do do do do do do do do do do do	liture since Co do do do do do do do do do do do do	do do	1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883	4,831 80 50,878 12	748 65		60,238 66	
Government expended do do do do do do do do do do do do do	liture since Co do do do do do do do do do do do do do	do do	1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 1885	4,831 80 50,878 12 92,473 97	748 65		60,238 66	
Government expended do do do do do do do do do do do do do	liture since Co do do do do do do do do do do do do do	do do	1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1880 1881 1882 1883 1884 1885	4,831 80 50,878 12 92,473 97 65,561 51	748 65		60,238 66	
Government expend do do do do do do do do do do do do do	liture since Co do do do do do do do do do do do do do	do do	1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1889 1881 1882 1883 1884 1885 1886 1886	4,831 80 50,878 12 92,473 97 65,561 51 49,617 92	748 65		60,238 66	
Government expended do do do do do do do do do do do do do	liture since Co do do do do do do do do do do do do do	onfederation. do	1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 1885 1886 1886 1887	4,831 80 50,878 12 92,473 97 65,561 51 49,617 92 54,166 57	748 65		60,238 66	
Government expend do do do do do do do do do do do do do	liture since Co do do do do do do do do do do do do do	do do	1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1880 1881 1882 1883 1884 1885 1886 1887 1888 1888	4,831 80 50,878 12 92,473 97 65,561 51 49,617 92 54,166 57 89,486 18	748 65		60,238 66	
Government expend do do do do do do do do do do do do do	liture since Co do do do do do do do do do do do do do	do do	1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1880 1881 1882 1883 1884 1885 1886 1887 1888 1889	4,831 80 50,878 12 92,473 97 65,561 51 49,617 92 54,166 57 89,486 18 22,226 23	748 65		60,238 66	
Government expended do do do do do do do do do do do do do	liture since Co do do do do do do do do do do do do do	onfederation. do	1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1880 1881 1882 1883 1884 1885 1886 1889 1890 1891	4,831 80 50,878 12 92,473 97 65,561 51 49,617 92 54,166 57 89,486 18 22,226 23 17,114 78	748 65		60,238 66	
Government expend do do do do do do do do do do do do do	liture since Co do do do do do do do do do do do do do	do do	1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1880 1881 1882 1883 1884 1885 1886 1887 1888 1889	4,831 80 50,878 12 92,473 97 65,561 51 49,617 92 54,166 57 89,486 18 22,226 23	748 65		60,238 66	

LEONARD SHANNON,

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th November, 1892.

STATEMENTS showing the amounts expended on Construction, Renewals, &c.—Con. SAULT STE. MARIE CANAL.

			Year ending 30th June.	Capital. Renew Charges to Incom		able			Repairs.	
				\$ cts.	\$	cts.	\$	cts.	\$	cts
overnment expend	liture since Co	onfederation.	1868	 			[
do	$\mathbf{d}\mathbf{o}$	do	1869							
do	\mathbf{do}	do .	1870			• • • •		. 	ļ	• • • • •
do	do	do								• • • • •
ďο	do	do .	4000		ł	9 35				• • • • •
do	do	do . do .	1 1054			• • • • •				
do do	do do	•	1 -0							
do do	do	do . do .	1000			• • • • •			1	
do	do	do .	1000	1				 		
do	do	do .	1000							
do	do	do .	1070		1					
$\ddot{\mathbf{do}}$	do	do .	. 1880							
do	do	do .								
do	do	do .		,						• • • • •
do	do	do .	. 1883							
фо	ďο	do .				• • • • •			`.	• • • • •
ďο	do	do .				• • • • •		• • • • •		• • • • •
do	do	do . do .	1005			• • • • •				
do do	do do	do . do .	. 1888	8,145 06	1	• • • • •			1	• • • •
do	do	do .	1889	34,018 95	1					
. do	do	do .	1000	176,568 55	1	· • • • • •	1		1	
do do	do	do .	1001	325,336 33					1	
do	do	do .	1000	341,474 31						
•									·	
	Total		.	885,543 20	94	19 35				
	-	soul	LANG	ES CANAL.						
Jovernment expend	diture prior to	Confederation	n	ES CANAL.						
do	since	Confederation	n	ES CANAL.						
do d o	do	Confederation do . do .	1868 1869	ES CANAL.						
do do do	since do do	Confederation do . do . do .	1868 1869							
do do do do	since do do do	Confederation do . do . do . do . do .	1868 1869 1870	ES CANAL.						
do do do do do	since do do do do	Confederation do . do . do . do . do . do . do . do	1868 1869 1870 1871							
do do do do do do	since do do do do do	Confederation do . do . do . do . do . do . do . do .	1868 1869 1870 1871 1872 1873							
do do do do do do	since do do do do	Confederation do . do . do . do . do . do . do . do	1868 1869 1870 1871 1872 1873							
do do do do do do	since do do do do do do	Confederation do . do . do . do . do . do . do . do .	1868 1869 1870 1871 1872 1873 1874							
do do do do do do do	do do do do do do do do	Confederation do . do . do . do . do . do . do . do .	1868 1869 1870 1871 1872 1873 1874 1875 1876							
do do do do do do do do	since do do do do do do do do do do do do	Confederation do . do . do . do . do . do . do . do .	1868 1869 1871 1871 1872 1873 1874 1875 1876 1877							
do do do do do do do do do	since do do do do do do do do do do do do do	Confederation do . do . do . do . do . do . do . do .	1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878							
do do do do do do do do do	since do do do do do do do do do do do do do	Confederation do . do . do . do . do . do . do . do .	1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878							
do do do do do do do do do do	since do do do do do do do do do do do do do	Confederation do . do . do . do . do . do . do . do .	1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1880							
do do do do do do do do do do	since do do do do do do do do do do do do do	Confederation do . do . do . do . do . do . do . do .	1868 1869 1870 1871 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881							
do do do do do do do do do do	since do do do do do do do do do do do do do	Confederation do . do . do . do . do . do . do . do .	1 1868 1 1869 1 1870 1 1871 1 1872 1 1873 1 1874 1 1875 1 1876 1 1879 1 1880 1 1881 1 1882 1 1883							
do do do do do do do do do do do	since do do do do do do do do do do do do do	Confederation do . do . do . do . do . do . do . do .	1 1868 1 1869 1 1870 1 1871 1 1872 1 1873 1 1874 1 1875 1 1876 1 1877 1 1878 1 1880 1 1881 1 1883 1 1883							
do do do do do do do do do do do do	since do do do do do do do do do do do do do	Confederation do . do . do . do . do . do . do . do .	1 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1889 1881 1882 1883 1884 1885							
do do do do do do do do do do do do	since do do do do do do do do do do do do do	Confederation do . do . do . do . do . do . do . do .	1 1868 1869 1870 1871 1872 1873 1874 1875 1876 1879 1880 1881 1882 1883 1884 1885							
do do do do do do do do do do do do	since do do do do do do do do do do do do do	Confederation do	1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1889 1880 1881 1882 1883 1884 1885 1886							
do do do do do do do do do do do do	since do do do do do do do do do do do do do	Confederation do . do . do . do . do . do . do . do .	1868 1869 1870 1871 1872 1873 1874 1875 1876 1876 1877 1889 1880 1881 1882 1883 1884 1884 1886 1887 1886							
do do do do do do do do do do do do	since do do do do do do do do do do do do do	Confederation do	1869 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 1885 1886 1886 1887 1888							
do do do do do do do do do do do do do d	since do do do do do do do do do do do do do	Confederation do . do . do . do . do . do . do . do .	1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1889 1881 1882 1883 1884 1885 1886 1886 1889 1889 1890							
do do do do do do do do do do do do do d	since do do do do do do do do do do do do do	Confederation do do do do do do do do do do do do do	1 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 1885 1886 1887 1888							

LEONARD SHANNON,

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th November, 1892.

Department of Railways and Canals. RECAPITULATION—EXPENDITURE ON CANALS.

·		Year ending 30th June.			Income.		Staff.		Repairs.	
			*	cts.	8	cts.	\$	cts.	\$	cts
Government expend									-	
	Imperial Governme		20,593,866	13	98,378	46				• • •
	liture since Confeder		99 615		07 947	70	110 004	F0	101 040	
tion	do	1868	33,617 126,898		95,347	- 00	113,084 116,069		101,646 118,579	
do do	do do	1870	120,090	20	90,355		120,403		150,176	
do	do	1071		• • •	116,429		135,040		140,467	
do .	do	1070	255,645	75	33,289		124.137		152.086	
do .	do	1873	256,547		127,369		148,581		186,573	
do	do	1874	1,189,591		51,037		167,194		213,613	
do	do	1875	1,714,830		479		168,401		203,226	
do	do	1876	2,388,733		810		178,411		190,578	
do	do	1877	4,131,374	30	22	30	179,661	40	138,448	51
${f do}$	do	1878	3,843,338				187,521	31	122,251	
\mathbf{do}	do	1879	3,064,098	61			191,892		115,349	
\mathbf{do}	фo	1880	2,123,366				195,039		147,167	
do	фо	1881	2,075,891		7,246		197,573		154,653	
ďο	do	1882	1,593,174		55,025		224,572		187,399	
\mathbf{do}	do	1883	1,763,001		62,503		269,415		178,617	
ďο	do	1884	1,577,295		60,993		280,657		192,219	
do	do do	1885	1,504,622		58,297 31,984		280,226		201,708	
do do	do do	1005	1,783,698		65,983		282,323 285,172	00	198,251 198,888	
do	do	1000	1,033,118		120,561		292,458		201.928	
do	do	1000	972,918		162,015		301,040		240,261	
do	do	1890	1,026,364		146,853		290,516		176.089	
do	do	1891	1,318,095		165,843		294,562		204.768	
do	do	1892	1,437,149		194,129		293,115		231,089	
Total			57,140,558	3 54	1,745,012	29	5,317,072	55	4,346,042	3 58

LEONARD SHANNON,
Accountant.

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th November, 1892.

INTERCOLONIAL RAILWAY.

(Including amounts paid to Nova Scotia Railway and European and North American Railway, N.B.)

				Year.	Construction.	Working Expenses, including Windson Branch Railway.	
					\$ cts.	\$ cts	
xpenditu	re prior to (Confederat	ion	i	10,766 725 54	1	
do	since	do		. 1868	483,353 65	359,961 08	
do	do	do		1869	282,615 18	387,548 47	
do	do	do		1870	1,729,381 49	445,208 75	
do	do	do		1871	2,916,782 13	442,993 31	
do	do	do		1872	5,131,141 51	595,076 22	
do	do	do		1873	5,201,450 37	1,011,892 60	
do	do	do		1874	3,614,898 81	1,847,175 24	
do	do	do		1875	3,426,099 55	1,532,589 62	
do	do	do		1876	1,108,321 59	1,277,197 79	
do	do	do		. 1877	1,318,352 19	1,661,673 55	
do	do	do		1878	408,816 74	1,811,273 56	
do	do	do		1879	226,639 19	2.010.183 22	
do	do	do		1880	2,048,014 60	1,607,956 70	
do	do	do		1881	608,732 80	1,780,353 53	
do	do	do		1882	585,568 79	2,080,592 37	
do	do	do		1883	1,616,632 96	2,383,477 20	
do	do	do		. 1884	1,405,377 52	2,366,719 95	
do	do	do		. 1885	1,195,363 08	2,460,229 87	
do	do	do		1886	544,958 17	2,508,473 10	
do	do	do		1887	823,070 86	2.854.158 91	
do	do	do		1888	742,203 09	3,300,481 94	
do	do	do		1889	655,228 13	3,174,785 19	
đo	do	do		1890	365,246 48	3,500,455 80	
do	do	do	***************************************	1891	79,929 34	3,691,273 65	
do	do	do	•••••	1892	*168,101 77	3,439,377 02	
To	tal		**************		+47,453,005 53	48,531,108 64	

\$168,101 77

,+Including \$296,872.90 charged to "Consolidated Fund."

	Nova Scotia Ry.	European and North American Ry.
1868	\$ 16,800 99	\$ 11,302 89
1870		1.749 21
1871		- ,.
1873	106,899 59	75,311 08
,		
	\$ 208,509 72	\$ 83,363 18
		208,509 72

---- 296,872 90

Agreeing with balance sheet, Public Accounts, 1891-92, page XIV...... \$ 47,156,132 63

LEONARD SHANNON,

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th November, 1892.

EASTERN EXTENSION RAILWAY.

	_			Year.	Capital.	Working Expenses.
	1:	N	:		\$ cts.	\$ cts.
$\begin{array}{c} \text{overnment expend} \\ \text{do} \end{array}$	since	oniederat do	ion	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	do		1878		
do	do	do		1879		1
do	do	do		1880		
do	do	do		1881		
do	do	do		1882		
do	do	do		1883		1
do	\mathbf{do}	do		1884	1,284,311 97	10,033 7
do	do	do		1885	2,055 92	78,273 6
do	do	do		1886	183 79	94,756 0
do	do	do		1887		94,254 0
do	do	$\cdot \mathbf{do}$		1888		90,954 7
do	\mathbf{do}	do		1889	34,235 73	90,719 0
do	do	do		1890		79,102 7
do	do	do		1891	3,255 40	*
do	do	do	• • • • • • • • • • • • • • • • • • • •	1892		*
	To	tal		1	1,324,042 81	538,094 0

^{*}Included in Intercolonial Railway working expenses.

CARLETON BRANCH RAILWAY.

	since	do	• • • • • • • • • • • • • • • • • • • •	1868	
do	\mathbf{do}	do		1869	
do	do	\mathbf{do}		1870	
do	\mathbf{do}	do		1871	
\mathbf{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	do		1878	
do 🖊	do	do		1879	
do	do	do		1880	
do	do	do		1881	
do	do	do		1882	
do	do	do		1883	
do	do	do		1884	
do	do	do		1885	
do	do	do		1886 85,610 6	9
do	do	do		1887 2,299 6	
do	do	do		1888 500 1	7
do	do	do		1889	
do	do	\mathbf{do}		1890	
do	do	do		1891	
do	do	do		1892	

LEONARD SHANNON.

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th November, 1892. Accountant.

CAPE BRETON RAILWAY.

vernment expenditure prior to Confederation 1868 do since do 1869 do do do 1870 do do do 1871 do do do 1873 do do do 1873 do do do 1873 do do do 1874 do do do 1875 do do do 1876 do do do 1877 do do do 1878 do do 1879 488 do do 1881 489 do do 1881 488 do do 1883 488 do do 1885 689,450 do do 1889 1,083,276 do do 1890 1,170,523 do do do 1891					Year.	Capital.	Working Expenses.
do since do 1869 do do 1870 do do 1871 do do do do do do do do 1873 do do do do do 1875 do do 1876 do do 1877 do do 1878 do do 1879 do do 1889 do do 1881 do do 1882 do do 1883 do do 1884 do do 1885 do do 1887 do do 1886 do do 1887 do do 1888 do do 1888 do do 1888 do do 1888							s. \$ cts.
do since do 1869 do do 1870 do do 1871 do do 1872 do do 1873 do do 1873 do do 1874 do do 1875 do do 1876 do do 1877 do do 1878 do do 1879 do do 1881 do do 1881 do do 1882 do do 1883 do do 1884 do do 1886 do do 1887 do do 1886 do do 1887 do do 1888 do do 1888 do do 1888 do do 1888 </td <td>ment expendit</td> <td>ure prior to C</td> <td>Confederat</td> <td>ion</td> <td>1868</td> <td></td> <td></td>	ment expendit	ure prior to C	Confederat	ion	1868		
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 do 1879 do do do 1889 do do do 1881 do do 1882 do do do 1883 do do do 1884 do do do 1884 do do do 1885 do do do 1887 76,501 8 do do 1888 689,450 8 do do do 1889 1,083,276 do do do 1891 1,521,441 do<							1
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 do 1878 do do 1879 0 do do 1880 0 do do 1881 0 do do 1882 0 do do 1883 0 do do 1884 0 do do 1884 0 do do 1885 0 do do 1887 76,501 8 do do 1888 689,450 8 do do 1889 1,170,523 6 do do <td< td=""><td>do</td><td>do</td><td>do</td><td></td><td>1870</td><td></td><td></td></td<>	do	do	do		1870		
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 do 1878 do do do 1879 do do do 1880 do do do 1881 do do do 1882 do do do 1883 do do do 1884 do do 1884 4 do do 1886 689,450 do do 1888 689,450 689,450 do do do 1,170,523 6 do do do 1,890 1,170,523 6 do do do 1891 1,521,441	do	do	do				
do do do 1873 do do do 1874 do 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 do do do 1882 do do do 1883 do do do 1884 do do 1884 do do 1885 do do 1886 do do 1888 68,450 689,450 do do 1,170,523 do do 1890 1,170,523 do do 1891 521,441	do	do	do		1872		
do do do 1874 do do do 1875 do do do 1876 do do do 1877 do do do 1879 do do do 1880 do do do 1881 do do do 1883 do do do 1884 do do do 1885 do do do 1886 do do do 1887 76,501 do do do 1889 1,083,276 do do do 1889 1,170,523 do do do 1891 521,441	do	do	do				
do do do 1876 do do do 1877 do do do 1878 do do do 1879 do do do 1881 do do do 1881 do do do 1882 do do do 1884 do do do 1885 do do do 1885 do do 1887 76,501 do do 1888 689,450 6 do do 1889 1,083,276 6 do do do 1889 1,170,523 6 do do do 1891 521,441 6	do	do	do		1874		
do do do 1877 do do do 1878 do do do 1879 do do do 1880 do do do 1881 do do do 1882 do do 1883 do do do 1884 do do do 1885 do do do 1886 do do do 1887 76,501 8 do do 1888 689,450 6 do do 1889 1,083,276 6 do do do 1889 1,170,523 6 do do do 1891 521,441 6	do	$\mathbf{d}\mathbf{o}$	do		1875		
do do do 1878 do do do 1879 do do do 1880 do do do 1881 do do do 1882 do do do 1883 do do do 1884 do do do 1885 do do 1886 60 do do 1887 76,501 8 do do 1888 689,450 6 do do do 1889 1,083,276 do do do 1889 1,170,523 6 do do do 1891 521,441 6	do	do	do	• • • • • • • • • • • • • • • • • • • •	1876		
do do do 1879 do do do 1880 do do do 1881 do do do 1882 do do do 1883 do do do 1884 do do do 1885 do do 1886 689,450 do do 1888 689,450 689,450 do do 1889 1,083,276 6 do do do 1890 1,170,523 6 do do do 1891 521,441 6	do	do	do		1877		
do do do 1880 do do do 1881 do do do 1882 do do do 1883 do do do 1884 do do do 1886 do do 1886 60 do do 1887 76,501 68 do do 1888 689,450 68 do do 1889 1,083,276 6 do do do 1899 1,170,523 do do do 1890 1,170,523 6	do	do	do		1878		
do do do 1881 do do do 1882 do do do 1883 do do do 1884 do do do 1885 do do do 1886 do do 1887 76,501 do do 1888 689,450 do do 1889 1,083,276 do do 1890 1,170,523 do do 1891 521,441	do	do	do		1879		
do do do 1882 do do do 1883 do do do 1884 do do do 1885 do do do 1886 do do 1887 76,501 8 do do 1888 689,450 8 do do 1889 1,083,276 6 do do 1890 1,170,523 6 do do 1891 521,441 6	do	do	do		1880		
do do do 1883 do do do 1884 do do do 1885 do do do 1886 do do do 1887 76,501 do do do 1888 689,450							
do do do 1884							
do do do 1885 do do do 1886 do do do 1887 76,501 8 do do do 1888 689,450 8 do do do 1889 1,083,276 6 do do do 1890 1,170,523 6 do do 1891 521,441 6			do	•••••		' 	
do do do 1886	do	do	do	• • • • • • • • • • • • • • • • • • • •		· · · · · · · · · · · · · · · · · · ·	
do do do 1887 76,501 8 689,450 8 do do do 1888 689,450 8 689,450 8 6 40,450 8 1,083,276 6 6 1,083,276 6 6 1,170,523 6 6 1,170,52		do					
do do do 1888 689,450 g <				• • • • • • • • • • • • • • • • • • • •			
do do do 1889 1,083,276 6 do do do 1,170,523 6 do do do 1891 521,441 6						76,501 89	
do do do						689,450 50	
do do do			\mathbf{do}			1,083,276 60) . <i>.</i>
			do		1890	1,170,523 62	3
J. J. J. 1000 00 00				• • • • • • • • • • • • • • • • • • • •		521,441 62	
do do do 1892 99,950 s	\mathbf{do}	\mathbf{do}	\mathbf{do}	• • • • • • • • • • • • • • • • • • • •	1892	99,936 90	*

^{*} Included in Intercolonial Railway working expenses.

OXFORD AND NEW GLASGOW RAILWAY.

do	since	do		1869	
do	do	do	• • • • • • • • • • • • • • • • • • • •	1870	
do	do	do		1871	
do	$^{\circ}$ 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	do		1878	
do	do	do		1879	
do	do	do		1880	
do	do	do		1881	
do	dο	do	• • • • • • • • • • • • • • • • • • • •	1882	• • • • • • • • • • • • • • • • • • • •
do	do	do		1883	
do	do	do	• • • • • • • • • • • • • • • • • • • •	1884	•••••
do	do	do	*****************	1885	
do	do do	do	• • • • • • • • • • • • • • • • • • • •	1886	
do	2 -		• • • • • • • • • • • • • • • • • • • •		•••••
	do	do		1887	900 000 07
do	do	do	• • • • • • • • • • • • • • • • • • • •	1888	280,932 35
do	do	do	• • • • • • • • • • • • • • • • • • • •	1889	840,553 57
do	do	dο	·····	1890	434,074 60
do	фо	do		1891	220,886 39
do	do	do		1892	48,745 23

^{*} Included in Intercolonial Railway working expenses.

LEONARD SHANNON, Accountant.

MONTREAL AND EUROPEAN SHORT LINE RAILWAY.

			Year. Construction		uction.	Wor Exp	rking enses.	
					8	cts.		ß cts
Government expend	liture prior to C	$\mathbf{onfederation}$	on	1868				 .
do	since	do		1869				 .
do	do	. do		1870				
do	do	do	,	1871	1		\	<i></i>
do	do	do		1872				
do	do	do		1873				
do	do	do		1874				
do	\mathbf{do}	do		1875				.
do	do	do	·	1876				
do	do	do		1877	1		[.
do	\mathbf{do}	do		1878				.
do	do	do	,	1879	\			. .
, do	do 🔹	do		1880	[
do	do	do		1881				
do	do	do		1882				
do	do	do		1883				
do	do	do		1884	1			 .
do	do	do		1885	49	,587 45		
do	do	do		1886	135	214 38		
do	do	do		1887	24	157 32		
do	do	do		1888	1	397 35	,	
do	do	do		1889			·	
do	, do	do		1890	1	.		
do	do	do		1891	124	,568 23		
do	do	do		1892		<i>.</i>		• • • • • •
Tr.	otal			1	333	,924 73		

PRINCE EDWARD ISLAND RAILWAY.

do	since	do	 1874]	750
do	do	do	 1875	46,086 63	49,344
do	ďо	do	 1876	42,546 10	[219,930
do	do	do	 1877	200,000 00	228,595
do	do	do	 1878	6,551 86	221,599
do	do	do	 1879	40,129 05	2 23,313
do	do	do	 1880	16,539 82	164,640
do	do	do	 1881		203,122
do	do	do	 1882	402 03	228,259
do	do	do	 1883	57,186 02	252,808
do	do	do	 1884	130,663 38	236,428
do	do	do	 1885	76,956 56	211,207
do	do	do	 1886	4,668 33	216,744
do	do	do	 1887	5,800 00	204,237
do	do	do	 1888	l	229,639
do	do	do	 1889	1	247,559
do	do	do	 1890	1	266,485
do	do	do	 1891	[957 000
do	do	do	 1892	8,300 49	289,706

^{*}Agrees with Public Accounts balance sheet, 1891-92, page xiv.

LEONARD SHANNON,

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th November, 1892. Accountant.

CANADIAN PACIFIC RAILWAY.

				Year.	Construction including Subsidy \$25,000,0	Worki Expens		
		~			\$	cts.	8	cts.
Government expend			tion					
do	since	do		1868	.			
do	do	do	• • • • • • • • • • • • • • • • • • • •	1869				
do	do	do		1870				
do	do	do	• • • • • • • • • • • • • • • • •	1871	30,14			
do	do	do		1872	489,42			
do	do	фo		1873	561,81			
фо	do	фo		1874	310,22		¦	
do	do	do		1875	1,546,24			
do	do	do		1876	3,346,56			
do	do	do		1877	1,691,14			
do	do	do		1878	2,228,37		·	
do	do	do		1879	2,240,28			
do	do	do		1880	4,044,52			92 01
do	do	do		1881	4,968,50		236,9	
do	do	\mathbf{do}			(1) 4,589,07		1,7	36 20
do	do	do			(2)10,033,80		2	66 09
do	do	do			(3)11,192,72		3:	27 02
do .	do	do			(4) 9,900,28			
\mathbf{do}	do	do			(5) 3,672,58	34 81		
do	do	do			(6) 915,05			
do	do	do		1888	52,09	8 65	1	
do	do	do		1889	86,71		1	
do	do	do		1890		30 54		
\mathbf{do}	do	do		1891	37,30	37 00	1	
\mathbf{do}	do	do		1892	66,21		1	

^{*}Agrees with Public Accounts balance sheet, 1891-92, page xiv.

(1)	Including	 	\$ 2,210,000	00 on	account subsidy
(2)	do		5,323,076	50	do
(3)	do		7,254,208 2	27	do
(4)	do		6,862,201	00	do
(5)	do.		2,890,427 (00	do
(6)	do		460,087 1	13	do

\$ 25,000,000 00

LEONARD SHANNON,

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th November, 1892. Accountant.

ANNAPOLIS AND DIGBY RAILWAY.

		_		Year.	Capital.	Working Expenses.
•					\$ cts.	\$ cts.
${f Government\ exper}$	diture prior to (Confederat	ion			
do	since	do		. 1868		
do	do	do		. 1869		
do	do	do		. 1870		
do	do	do		. 1871		
\mathbf{do}	do.	do		. 1872		
do	do	do		. 1873]	
do	do	do		. 1874	[
do	do	do		. 1875		,
do	do	do		. 1876		
do	do	\mathbf{do}		. 1877		· • • • • • • • • • • • • • • • • • • •
\mathbf{do}	do	do		. 1878		
do	do	do		. 1879		
do	do	do		. 1880		
do	do	do		. 1881	i	
do	do	do		. 1882		
do	do	do		. 1883		
do	do	\mathbf{do}		. 1884		
do	do	do		. 1885	l	
do	do	do		. 1886		
do	do	do		. 1887	l	
do	$\mathbf{d}o$	do		. 1888		
do	do	do		. 1889	9,847 27	
do	do	do		. 1890	381,942 75	
do	do	\mathbf{do}		. 1891	196,869 36	
do	do	do		1892	26,129 39	
•	Total	l <i>.</i>			614,789 27	

RECAPITULATION—RAILWAYS.

		-	· •	Year.	Construction.	Working Expenses	
					\$ cts.	8	cfs.
Government expend	iture prior to	Confederat	ion		13,881,460 65		
do	since	do		1868	483,353 65	359,961	08
do	do	do		1869	282,615 18	387,548	
do	do	\mathbf{do}		1870	1,729,381 49	445,208	
do	do	do		1871	2,946,930 45	442,993	
do	dο	\mathbf{do}		1872	5,620,569 67	595,076	
do	\mathbf{do}	do		1873	5,763,268 81	1,011,892	
do	do	\mathbf{do}		1874	3,925,123 69	1,847,925	
do	do	do		1875	5,018,427 85	1,581,934	
do	do	do		1876	4,497,434 75	1,497,128	
do	do	do		1877	3,209,502 16	1,890,268	
do	do	do		1878	2,643,741 73	2,032,873	
do	do	do		1879	2,507,053 71	2,233,496	
do	do	do		1880	6,109,077 14	1,851,489	
do	do	do		1881	5,577,236 73	2,220,421	
do	do	do		1882	5,175,046 61	2,310,638	
do	do	do		1883	11,707,619 02	2,636,551	
do	do	do		1884	14,013,074 89	2,613,508	
do	\mathbf{do}	\mathbf{do}		1885	11,224,244 54	2,749,710	53
do	do	do		1886	4,443,220 17	2,819,973	50
do	do	do		1887	1,846,887 18	3,152,650	
do	do	$\mathbf{d}\mathbf{o}$		1888	1,765,582 11	3,621,076	
do	\mathbf{do}_{\cdot}	do		1889	2,709,857 37	3,513,063	67
do	do	do		1890	2,392,767 99	3,846,044	42
do	do	\mathbf{do}		1891	1,184,317 34	3,949,263	
do	\mathbf{do}	do		1892	417,425 73	3,748,597	
	Total				121,075,220 61	53,359,296	72

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th November, 1892.

LEONARD SHANNON, Accountant.

APPENDIX No. 3.

STATEMENT showing Subsidies voted for Railways as to which contracts have been entered into and payments made, up to 30th June, 1892.

Total	1892.	ets.	156,800 00	844,927 73	192,944 00	174,828 00	224,000 00	78,688 00	48,000 00	1,320,000 00	312,000 00
	1891-92.	e cts.		26, 222 73	:	:		24,100 00		:	•
	1890-91.	e cts.		70,350 00	7,600 00			9,500 00	:	00 009	: : : : : :
	1889-90.	e cts.	3,840 00	38,440 00	95,744 00		:	20,000 00		35,000 00	100 00
Payments.	1888-89.	cts.	:	19,911 00			40,050 00 13,950 00	:			6,300 00
Раул	1887-88.	\$ cts.	8,960 00	232,013 00 19,911 00		24,158 00	40,050 00			:	159,400 00
	1886-87.	66	:	202,219		60,580	61,200			78,370	18,200
	1883-84 1884-85 1885-86. 1886-87.	••	:	186,745		41,000	76,800	:		154,440 1,051,590	128,000
	1884-85	••	:	32,000 37,027	32,000 57,600	49,090	32,000	25,088	48,000	154,440	
	1883-84	96	144 000		32,000	:	:	:		:	
Deilmone	traitwayo.		International Ry., Quebec 144 000	Quebec and Lake St. John Ry., Quebec	Napanee, Tamworth and Quebec Ry., Ontario	Pontiac Pacific June. Ry., Que.	Caraquet Ry., N B	Great Northern Ry., Que.	00 Kingston and Pembroke Ry., Ontario		$\left\{ egin{aligned} ext{Northern and Western Ry.,} \ ext{N. B}. \end{aligned} ight.$
voted.	Amount.	s cts.	} 156,800 00 Internat	28,000 28,000 28,000 28,235 20,000 20					48,000	660,000 00	128,000 00 19,200 00 32,000 00 140,800 00
Subsidies voted.	Authority.		ċ	25 26 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	36666		888		3 9	육육수	47 do 59 48-£ do 59 49 do 10 48-9 do 59

60,342 00	93,757 57	88,500 00	82,652 82	22,400 00	282,355 20	750.000 00	96,000 00	524,175-00	113,440 00	217,600 00	11,200 00	20,020,02	15,000 00	67,020 00	50,460 00	52,760 00	37,500 00	624,800 00	51 200 00	20 000,1	15,360 00	256,000 00
	:		44,252 82	:	:			:	:	92,784 00	4 845 00	1,010 vo	:		18,960 00	:	•	54.830 00		:		:
. :	17,116 07	:	:	:	30,188 00			:	:	32,003 00	16 200 00	10,000	:	1,600 43	10,684 37		1,600 00	82.770 00		:		6,000 00
	6,719 50	5,400,00		:	149,812 00			148,675 00		:	:	:		4,366 00	:	26,360 00	9,761 22	74.300 00		:		800 00 189,200 00
		36,700 00			9,491 20			75,200 00			:		:	:	1,387 06	9,000 00	:	949.684 00 163.216 00	10 900 00		3,520 00	
	•	16,400 00		:	:			50,300 00	16,000 00	28,383 00			:	20,573 57	18,428 57	3,000 00	26,138 78	249.684 00	99 000 00	00,000,00	14,656 00 11,840 00	60,000 00
:	4,950		,		44,384	397 480	96,000	250,000	97,440	64,430	11,200	13,200	15,000	40,480	1,000	14,400	•			:		
60,342	64,972	30,000	38,400	22,400	48,480	499 590		:	:		:	:	:	:	:	•	:					
	_				:			:			:	:		:	:					:		- <u>:</u>
Quebec Central Ry., Que.	Montreal and Sorel Rail- way. Onebec	Mon	宝	St. Louis and Richibucto Railway, N. B.	Canada Atlantic Ry., Ont	Esquimalt & Nanaimo Rail-	96,000 00 Erie and Huron Ry., Ont	Baie des Chaleurs Rail-	New Brunswick and Prince Edward Railway, N.B.	217,600 00 St. Lawrence, Lower Laurentian and Sacuenay Ry., Que.	11,200 00 L'Assomption Ry., Quebec	Great Eastern Ky., Que	Irondale, Bancrof tawa Railway, (щ	=	Lake Témiscamingue Colonization Railway, Que.	<u>ب</u>	Témi	_1	00 Toronto, Grey and Bruce	Railw Dominic	West Ontario Facilic Ky., and Ont. and Quebec Ry.
60,342 00	288,000 00 72,000 00 40,000 00	8,900 9,900 9,900 9,900 9,900 9,900 9,900	38,400 38,400 39,000 39,000 39,000 39,000 39,000	22,400 00	96,000 00 Scanad	180,000 00 750,000 00	96,000 00	320,000 00 Baie	118,400 00 New] Edw	217,600 00	32,000,00	96,000 00	160,000 00	96,000 00 6,400 00	51,200 00 Albert	65,200 00	38,400 00	246,000 00 258,000 00 100 000 00	21,200 44,800 60 60 60 60 60 60 60 60 60 60 60 60 6	16,900 00	22,400 00	256,000 00
∞ m	c1 55 c	82.	o 151 cc	900	82	2 9	x	र्थ <u>क</u> व	- - 63	24	90	ষ	ဘက	5 2	∞ e	. 62 22	25	4.4188 _e	5 0 P P	<u> </u>	22	୍ରିଲ
අද	888	_			දි දි		op	ခုခုခို	දි දි	op 1								3884				දිදි
47 51	85 4 25 0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-	3482 211	9 2 2	47	8 4 9-84	50-1 47	47	343	28. 2.84 3.94	ភ្ជ 21	\$ \$	 25 37	74 53	45 ℃	45	34 E	64.2	2 2 2 2 1 2 4 2	28.42 2.63	- - - - - - -	1-	3 K

APPENDIX No. 3.—Statement showing Subsidies voted for Railways as to which contracts have been entered into, &c.—Con.

Total to	1892.	.	182,405 00	105,200 00	41,280 00 54,400 00	46,000 00	21,888 00	155,200 00	118,400 00	58,900 00	38,400 00	30,000 00	5,553 57	230,700 00	39,850 00	13.600 00	10,400 00	65,600,00	375 000 00	52,810 00
	1891-92.	& cts.	5,105 00	12,800 00		:	:	:		:			:	8,300 00	:				58 600 00	200000000000000000000000000000000000000
	1890-91.	e cts.	136,000 00	47,400 00	1,500 00		:	:	:		11,760 00		:	3,300 00	10,450 00	3,800,00			143 400 00	
	1889-90.	s cts.	12,428 00		20,080 00		:	91,300 00	11,900 00	4,250 00				219,100 00	29,400 00	9 800 00	10 400 00	65 600 00	172 000 00	36,620 00
Payments.	1888-89.	es cts.	13,815 00	45,000 00	19,700 00	46,000 00	21,888 00	63,900 00	106,500 00	54.650 00	26.640 00	30,000	5,553 57				:	:	:	
Pay	1887-88.	es cts.	15,057 00		:		:	•			•	•			:	·	:	:		: :
	1886-87.	66					:				:					: .		•	: -	
	1883-84 1884-85 1885-86. 1886-87.	640	:		:		:	:			:	:				:			:	
•	1884-85	66	:		<u> </u>		:	:	•							:				
	1883-84	66			:											:	:	<u>:</u>		
F	Kaliways.		Drummond County Rail way, Quebec	Brockville, Westport and Sault Ste. Marie Ry., Ont.	32,000 00 Montreal and Lake Maski- 10,200 00 nonge Railway, Quebec.	South Norfolk Kallway, Ont. Guelph Junction Ry., Ont.	Belleville and North Hast ings Railway, Ontario	Hereford Railway, Quebec	-3	96,000 00 Beauharnois Junction Rail	St. Catharines and Niagara	Fredericton and St. Mary's	9,600 00 Harvey Branch Ry. Co., N.B.	108,800 00 Nova Scotia Central Rail	Cumberland Ry. and Coal	19,200 00 Pontiac and Renfrew Rail	way Co., Ont. 54,400 00 Thousand Islands Railway	Co., OntarioQuebec, Montmorency and	Charlevoix Ky., Quebec St. Clair Frontier Tunnel Co.,	Ontario. 57,600 00 Brantford, Waterloo & Lake Erie Railway, Ontario
voted.	Amount.	s cts.	96,000 00 14,400 00 76,800 00	128,000 00	32,000 00	24,400 21,200 00 00	22,400 00	108,800 00	118,400 00 1	96,000 00	38,400 00	30,000 00 Frederic	00-009.6	108,800 00	44,800 00	19,200 00	54,400 00	96,000 00 Quebec,	375,000 00 St. Cla	57,600 00
Subsidies voted	Authority.		50-1 Vic., c. 24 52 do 3	999 999	'A''	8 8 8	48-9 do 55	9 1	9 9	50-1 do 24	op ,	52 do 3	qo		50-1 do 24	52 во 3	52 do 3	52 do 3	52 do 3	50-1 do 24

			,		\mathbf{L})ej	oar	tm	en	t o	f.	Ra	ilv	wa	ys	an
157,075 00	49,960 00	44,800 00	126.372 00	159,251 54	6	108,396 00	30,400 00	162,260 00	73,000 00	88,800 00	05,000 to	32,000 00	40,256 00	24,439 84	9,695,108 27	
70,075 00		2,130 00	38.790 00	83,612 54	30	32,253 00	30,400 00	162,260 00	73,000 00	88,800 00	000 000 000 000 000 000 000 000 000 00	32,000 00	40,256 00	24,439 84	208,000 403,245 2,171,249 1,406,533 1,027,041 92 846,721 83 1,491,595 72 1,079,105 87 1,061,615 93 9,695,108 27	
87,000 00	49,960 00	42,670 00	87.582 00	75,639 00		76,143 00	:					:	:	:	1,079,105 87	
:				:						:	:				1,491,595 72	
:		:				:	:	:	:	:	:	:	:	:	2846,721 83	
	:			:		· · · · · · · · · · · · · · · · · · ·	- :-	:		:	: : : : :		:		3 1,027,041 9	-
	:	:					•	:		:	:	: : :	: :		49 1,406,53	-
	:	:		<u>:</u>		:		:				: : :	-		245 2,171,2	-
:	:		:	<u>;</u>			:	:	:			:	-	•	208,000 403	
iluth and ntario awa Rail-		valley Ky., N.S.	l Gatineau Valley Quebec	N.B	ern Rail-	onization	Ont.	Poilmon	Trail nay	Tay Natil-	ountain Railway	ce and Adirondack	QueBranch Railway	<u> </u>		
287,200 00 Port Arthur, Duluth and Western Ry., Ontario	way, Ontario	valus valley F	ttawa and Gatine Railway, Quebec.		361,270 00 Montreal and Western Rail-	Sound Co	163.200 00 Shiiswan and Okanagan Ry	B.C. Veller	o, N.B.	35.200 00 Waterloo June Ry Co.	Mountain	Wrence and Ac	Ry. Co., Que	N.B.		This return does not include the following:
00 { For V	- (44,800 00 Cornwallis	320,000 00 Ottawa and Railway,		00 Mont	00 Parry	Ry.	Co., B.C.	88	35.200 00 Waterloo J	99,200 00 Orford M	57,600 00 St. Lawrence	Ry.	Co., N.B.	-	t include
	-		-	83,612 54	361,270	128,000	163.200	89 600	35,200	35.200	99,200	57,600	94.430			ou soob n
2014	24	<u> </u>	70	<u> </u>	101	ಣ	c:		210		Ç1	81	c:)		- 41
පිපි	දිදි	မှ.	go ,	888	op G	qo	qo	g of	9-6	දු ද	qo	ф	þ	}		1
28 28 20-1	20-1 20-1	22	20	55 55 55 55 56 55	22	52	52	7.	85 E	3 23	53	83		;		

DEPARTMENT OF RAILWAYS AND CANALS,
OTTAWA, 30th November, 1892.

LEONARD SHANNON,
Accountant.

3. The Atlantic and North-western Railway.

2. The Canadian Pacific Railway—main line.

1. The Canada Central Railway.

. 23 .

APPENDIX No. 4.

CANADIAN GOVERNMENT RAILWAYS,
OFFICE OF THE CHIEF ENGINEER AND GENERAL MANAGER,
OTTAWA, 10th October, 1892.

SIR,—I have the honour to submit my annual report in connection with the construction of the Canadian Pacific Railway, the Cape Breton Railway, the Oxford and New Glasgow section of the Intercolonial Railway, the Digby and Annapolis Railway, and also in connection with the subsidized railways, both to 30th June, 1892, and to the present date.

CANADIAN PACIFIC RAILWAY.

I stated in my last year's report that the arbitrators appointed to adjudicate upon the claim made upon the Government by the Canadian Pacific Railway Company in connection with the construction of the section of railway built by the Government between Savona's Ferry (Kamloops) and Port Moody, awarded the company the sum of \$579,255.20, of this amount the sum of \$202,675.20 was awarded for works executed during the progress of the arbitration, leaving a balance of \$376,580 for work remaining to be done to complete the road as required by the award. The award was dated July, 1891, since which the works of improvement under the award have been carried on under the supervision as to expenditure by Mr. Francis J. Lynch who carefully notes the progress being made, the character of the work being done and the expenditure, so as to enable him to send in monthly returns of the expenditure on each item named in the award. His returns show the following progress with the work.

From July, 1	.891, to February, :	1892,	amount expend-		
ed and o	ertified	• • • • • • •		\$ 11,966	79
In February,	amount expended	and	certified	188	
In March	do	do	• • • • • • • • • • • • • • • • • • • •	9,160	77
In April	do	'do	• • • • • • • • • • • • • • • • • • • •	16,674	
In May	do	do	• • • • • • • • • • • • • • • • • • • •	16,010	
In June	do	do		21,696	
In July	do	do		21,907	
In August	do	do		19,477	
•			•	\$ 117,082	
Amount awa	rded for work done	e pri	or to July, 1891.	202,675	20
Tota	al value of work d	lana	nndan tha award		—
100	up to 31st August,			\$ 319,757	74

Leaving work to the value of \$259,497.46 to be done. At the rate of progress which has been made up to the 31st August, 1892, it will take two more seasons to complete the work, but it is hoped that in future it will be prosecuted with greater vigour, and that the whole may be completed next season. The engineer in charge informs me that the works of their several kinds are well and substantially executed.

The two claims before the arbitrators in connection with some steel rails have not yet been finally disposed of, but it is probable the arbitrators will deal with these matters shortly. I stated in my report of last year that a number of claims for land and land damages remained unsettled, since which very little progress has been made towards settling them, a number of these being for land on the British Columbia

section, which cases are, I believe, before the Exchequer Court, and I understand a

court has recently been held at Victoria, British Columbia, to hear them.

In addition to the works of improvements being made under the award of the arbitrators upon the Savona, Port Moody section, the company throughout their line are making large and heavy permanent improvements in the way of converting wooden trestle bridges into solid earthen embankments and by replacing wooden truss bridges with substantial steel structures, and for wooden grasshopper trestles and cribwork, solid masonry and concrete retaining walls have been substituted, these retaining walls ranging from 5 to 50 feet in height. By the close of the present working season it is expected there will be over 700 wooden structures replaced by solid earth embankments, steel structures, and about 7,500 lineal feet of solid masonry or concrete retaining wall.

In addition to these works some of the heavy grades on the eastern section of the road have been reduced with a view to increased efficiency and economy in operating the road, and on portions of the line where the traffic is specially heavy, the 56 lbs. steel rails have been lifted and replaced by 72 lbs. steel rails, so that what was originally a well constructed road with wooden structures, is being rapidly con-

verted into a road of a very solid and substantial character.

I have mentioned all these matters relating to this road, feeling that the interests of the country are largely wrapped up in the success of this undertaking, which is doing more to develop its resources than any other railway enterprise in the country, as would naturally be the case with so extensive a road tapping, as it does, sections of the country in almost every point of the compass.

The president of the road who is very enterprising and evidently has the courage of his convictions, is still further extending several important branch roads and

building others.

The traffic operations of this road continue to show astonishingly good results, which, considering the road passes through long stretches of undeveloped country, is very surprising, and as much of it is a fine agricultural district, while other sections are rich in minerals, leads to the belief that the road has a great future before it, as no doubt the traffic must rapidly develop year by year, as the country fills up with population, and its great resources are developed. The road has a length of 5,767 miles, and its operations for the year ended 30th June last, were as follows:—

Gross earnings	\$21,032,120 13 12,654,498 42
Net earnings	\$ 8,377,621 71

The value of this road as a great highway across this continent has been fully demonstrated during the past twelve months by the good despatch with which marines and others for the British Government have been transported over the road between the port of Halifax on the Atlantic Ocean and the port of Vancouver on the Pacific, and the comfort and ease with which they were enabled to make so long a journey, not only so, but it appears as if the Canadian Pacific Railway is fast becoming the favourite route between Europe, Japan and China. While this foreign trade is being developed, the local trade of Canada is also rapidly developing through the influence of the railway system of Canada, and especially the Canadian Pacific Railway.

TRAIN FERRY ACROSS STRAIT OF CANSO.

The cost of this work is estimated at about \$120,000, up to this date very little progress has been made with the work, the grading of the approach to the ferry on the Cape Breton side of the Strait of Canso has been executed under contract by Messrs. Gray and McManus and is completed. Mr. William Starkey, the contractor for the construction of the floating gang-way, is making good progress with the work. The iron work is being made under contract by "The Truro Foundry and Machine Company." Messrs. McDonald and Moffat have contracted to build the train barge, but have made little or no progress with the work. Tenders

25

are now being invited for the construction of a ferry steamer upon plans and specifications prepared by Messrs. Carrier, Lainé & Co., of Lévis.

Expenditure	up to 30th June.	, 1892	 \$ 10,297	65
	from 30th June,			
	Total		 \$16,137	37

OXFORD AND NEW GLASGOW SECTION OF INTERCOLONIAL RAILWAY.

All the works of construction have been completed on this section of road excepting the water service, there remaining two water stations yet to complete, for which there is an appropriation available.

COST OF CONSTRUCTION AND EQUIPMENT.

Expenditure do	up to 30th June, 1892 from 30th June, 1892, to 31st Aug	\$1,825,192 ., 1892	
	Total	\$1,825,321	89

CAPE BRETON RAILWAY.

The section of this road between Sydney, North Sydney and the Grand Narrows has been in operation since the 24th November, 1890, and the section between the Grand Narrows and Point Tupper, since 1st January, 1891, so that it will be observed the road has been under traffic bordering on two years. It was, however, opened for public traffic to accommodate the public before it was completed, and at the close of the fiscal year 1891–92, there still remained some accounts for works of construction and equipment unpaid, these accounts were principally owing to the Intercolonial Railway for the stations equipment, and for the transport of construction materials during the progress of the works in the year previous, there also remained some minor works of construction to be done, and some land claims to be settled. These are now in a fair way of being completed. The session before last, this road was by Act of Parliament made part and parcel of the Intercolonial Railway. The passenger traffic on the Cape Breton section of the Intercolonial Railway is very good during the summer season, and very light in winter, but the freight business is exceedingly light the year round, especially so during the season of navigation.

COST OF CONSTRUCTION AND EQUIPMENT.

Expenditure up to 30th June, 1892, was	,833 , 34 1	54 49
Total\$3,632	,175	03

DIGBY AND ANNAPOLIS RAILWAY.

This road was completed and handed over to the Western Counties Railway Company (for which it was built) in July, 1891, since which time it has been in continuous operation. The contractors for the construction of this road have made a claim on the Government in connection with this work in excess of the engineer's final estimate of \$107,776.25, of this \$1,925.61 has been allowed, leaving a balance of \$105,850.64, to which it is considered the contractors are not entitled under the contract.

Expenditure	up to 30th June, 1892	\$614,789 27
	from 30th June, 1892, to 31st August,	
		····
	Total	\$614,789 27

List of Railways receiving a Cash Subsidy per mile, in a lump sum, or 15 per cent on cost of tunnel or bridge; showing the amount of subsidy granted to each, amounts paid up to 30th June, 1891, during the year ended 30th June, 1892, and during the three months ended 30th September, 1892, respectively; also, the total amount paid up to the last named date.

RAILWAYS SUBSIDIZED IN CASH, RAILS OR LAND.

	Name of Railway.	Estimated Length in Miles.	Subsidy granted.	Subsidy paid up to 30th June, 1891.	Subsidy paid during the year ended 30th June, 1892.		Total Subsidy Total Subsidy paid up to 30th paid up to 30th September, 1892.
			.ets.	ee Gts.	e cts.	s cts.	e cts.
1 All Be Be	Albert Southern. Baie des Chaleurs. Beaularnois Junction	358	51,200 00 620,000 00 96,000 00	8272	18,960 00	50,460 00 524,175 00 58,900 00	50,460 00 524,175 00 58,900 00
4 10 9 00	Belleville and North Hastings.	~ ≘	22,400 00 96,000 00	21,888 00		21,886 00	:
6 Br		£ £	48,000 00 57,600 00	52,810 00	00 000 0	52,810 00	52,810 00
တာ ကြောင်း	Brockville, Westport and Sault Ste. Marie	38	192,000 00 102,400 00	92,400 67,020 90		67,020 00	67,020 00
(5°)	Canada Atlantic	53 & b'idge	314,400 00	282,355 20		282,355 20 1 525 250 00	282,355 20
కోరో 121	Canadan Pacific	1,905	25,000,000 00	25,000,000 00	: :	25,000,000 00	25,000,000 00
	For extension of C.P.R.	160 61	1,500,000 00		1,500,000 00	1,500,000 00	1,500,000 00
44 5 5	Cap Rouge and St. Lawrence	202	8. 8. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9.				
	Caraquet	92		224,00 000		224,000 00 75 639 00	224,900 00 75,639 00
3€ 3≅	Coloure Northumberland and Pacific	49	156,800 00	00 (00°C)		20 000 60	22.2
	٠.	7	44,800 00	42,670 00	2,130 00	44,800 00	44,800 00
	Columbia and Kootenay	æ <u>∓</u>	112,000 00	39 850 00	88,800 00	90,000 90,000 90,000 90,000	88.88 89.088 89.088 89.088
	Dominion Lime Co	<u> </u>	22,400 00	15,360 00		15,360 00	15,360 00
-	Drummond County.	63.1%	201,920 00	177,300 00	5,105 00	182,405 00	182,405 00
	Elgin, Petitcodiac and Havelock	2 2 2	88,480 188,480 189,080 180,080 180,080 180,080 180,080 180,080 180,080 180,080 180,080 180,080 180,080	88,450 8,450 8,050 8,050		88.99 98.99 98.99	98,96 96,06 96,06 96,06
88 88	: :	32	750,000 00	750,000 00		750,000 00	750,000 00
	For a line Fredericton via Oromocto and Gagetown to		00 000 96				Y
	Fredericton and St. Mary's	3 – 3		30,000 00		30,000 00	30,000 00
පුද් සුදු	Goderich and Wingham.	12.5	9,200				
	Chaile Liuin, Coupling Lay will have here	9	229,500 00	35,500 00	4,845 00	40,345 00	40,345 00

Estimated Subsidy granted. in Miles.
a define the state of
=
3 9,600 49 156,800 49 156,800
18.26 18.160
,
192,000
88. 86,000 86,000
,
-
,

32,800 00 500,000 00 256,000 00 38,241,106 07	32,800 00 500,000 00 256,000 00 38,068,053 07		500,000 00 256,000 00 35,701,986 34	35,200 00 500,000 00 256,000 00 83,200 00 44,968,501 00	11 20 80 26 6,253 ₁₈ 8	Waterloo Junction. Western Counties Woodstock vid London to Chatham Woodstock and Centreville Total
	73,000 00 14,656 00	73,000 00 14,656 00	10,400 00	54,400 00 51,200 00 134,400 00 16,000 00	828.5	Thousand Island. Tilsonburg, Lake Erie and Pacific. Tobique Valley. Toronto, Grey and Bruce.
	000 700			28,600 00 28,600 00 29,600 00 29,600 00	28 21 47 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	
64,704 00 22,400 00			22,400 00	82,624 00 102,400 00 22,400 00	25 28 70 70 70 70 70 70 70 70 70 70 70 70 70	St. Lawrence and Adirondack. St. John to Ste. Rosslie Louis to Richibuctor. St. Ichnis to Richibuctor.
375,000 00 217,600 00	375,000 00 217,600 00	58,600 00 92,784 00	316,400 00 124,816 00	35,400 00 160,000 00 16,000 00 16,000 00 375,000 00	12 18 50 5 2.50 & tunnel 38.55	St. Eustache to a point on C.F.K. to Isle Jesus. Eustache to St. Placide St. Eustache to St. Placide St. Césaire to St. Paul d'Abbotsford St. Clair Frontier Tunnel St. Lawrence and Lower Laurentian
162,260 00 54,400 00 38,400 00	162,260 00 54,400 00 38,400 00	54,400 00	162,260 00	163,200 00 24,400 00 158,400 00 38,400 00	E7.42	Shuswap and Okanagan South Norfolk South Outario Pacific St. Catharines and Niagara
				80,000 00	12 KB 1	Restignuche and Victoria For a line Revelstoke to head of Arrow Lake. For a line Sand Point, Shelburne Harbour to Annapolis Royal
		262,227 73	818,705 00 - 65,600 00 -	1,003,495 00 96,000 00	248 30 30	Quebec Central. Quebec and Lake St. John. Quebec, Montmorency and Charlevoix.
13,600 00 157,075 00	13,600 00 157,075 00	70,075 00	13,600 00 87,000 00	287,200 00 287,200 00	6 (33 6 (33 89 (35	Finipsourg Junction. Pontac and Renfrew Port Arthur, Duluth and Western.
174,828 00	174,828 00	. :	174,828 00	337,100 00	92100 and bridge.	Fontiac Facilic Junction
30,400 00	30,400 00	30,400 00		166,400 00	52 40 60 60 grid	For a line from Ottawa to Morrisburg. For a line from Ottawa to Morrisburg. Darry Sound Colonization
176,192 00	00 710,071	00,150	200,10	3	791	Ottaws and Gatineau Valley

It will be observed the above table includes the Canada Central, the North Shore Railway, the Esquimalt and Nanaimo Railway, and the Canadian Pacific Railway.

List of Railways receiving Cash Subsidies of fixed sums per annum for a series of years,

		J	47-140-0
Name of Railway.	Miles.	Amount payable each } year for 20 years.	Remarks.
Atlantic and North-western. Chignecto Marine Transport. Kingston, Smith's Falls and Ottawa. Quebec Central. St. Catharines and Niagara. Provincial Government of Quebec (Q. M. O. and O. R.) and North Shore Ry.	90 34	\$ cts. 93,300 00 85,301 00 3,136 00 10,595 77 1,890 00 59,850 00	Road completed and in operation. Road completed and in operation, Note160 miles of this road between
			NOTE160 miles of this road between Stewarton Junction and Quebec appears in the statement of railways receiving a cash subsidy per mile.

Amount paid annually to the Province of Quebec is entered upon subsidy granted to Quebec, Montreal, Ottawa and Occidental Railway, and North Shore Railway; 5 per cent on the sum of \$2,394,000, equal to \$119,700 annually.

The railway subsidized from Montreal to St. Andrew's, St. John and Halifax, to the amount of \$250,000 per annum, for 20 years, and contracts by the Atlantic and North-western Railway Company was divided into three sections as follows:—

(1.) Montreal to Sherbrooke, 108 miles.

(2.) International Boundary to Mattawamkeag, 144 miles.

(3.) Harvey to Salisbury, 115 miles.

This latter section has not been built and the amount of subsidy applicable thereto has lapsed, amounting to \$63,400.

The two first-named sections are completed and under traffic, entitling the

company to receive the sum of \$93,300 each half year for 20 years.

On the Chignecto Marine Transport Railway, the works of construction have made no progress since my last year's report.

Cost of railway lines built by the Dominion Government and transferred to the Canadian Pacific Railway Company up to 30th June, 1892	\$ 30.404.577	65 44
Total up to 30th September, 1892	\$ 30,696,912	09

Cost of Dominion Government Railways to 30th June and 30th September, 1892.

Name of Railway.	Cost up to 30th June.	Expended from 30th June to 31st August 1892.	Total expended up to 31st August 1892.
Intercolonial Railway Prince Edward Island Railway Total		\$ cts. 131,039 11 484 00 131,523 11	\$ ets. 54,080,972 76 3,750,565 38 57,831,588 14

List of Railways to which grant of Subsidies in Old Rails to the value appearing opposite their respective names, has been authorized by Parliament.

Name of Railway.	Value of old Iron Rails granted as Subsidy.	Remarks.
Albert Central of New Brunswick. Chatham Branch Elgin, Petitcodiac and Havelock Kent Northern. Halifax Cotton Co. Steel Company of Canada.	\$ cts. 14,665 45 83,612 54 24,439 84 44,252 82 58,334 27 4,335 00 11,964 66	Earned and transferred. do do do do
Total	241,604 58	

List of Railways to which grants of Land Subsidies have been authorized by Parliament.

Name of Railway.	Miles.	Acres granted.	Remarks.
Alberta Railway and Coal Co	50	320,000	
Alberta and Arthabaska	300	1,920,000	
Brandon and South-western		108,800	1
Calgary and Edmonton	340	2,176,000	
Canadian Pacific (Trunk Line)	1,905	25,000,000	
Canadian Pacific Branches		1,568,000	C1-4-44:
Esquimalt and Nanaimo	78	1,900,000	Completed and in operation.
Great North-west Central.		2,880,000	50 miles completed and in opera
Lake Manitoba Railway and Canal Co	142	902,000	tion.
Lake Seul	18	115,200	
Manitoba North-western. Manitoba South-western Colonization		2,918,400	
		1,396,500	
Manitoba South-eastern.		704,000	
Medicine Hat Railway and Coal Co		51,200	ĺ
North-west Coal and Navigation Co.	2091	3,300,000 1,089,180	109 miles constructed and in opera
Troftin-west Coar and Travigation Co	2002	1,000,100	tion.
Qu'Appelle, Long Lake and Saskatchewan	3481	2,229,333	248 miles constructed and in opera
Red Deer Valley Railway and Coal Co	55	352,000	tion.
Winnipeg and Hudson Bay			6,400 acres per mile in Manitoba
The wife trudon Day	distance		12,800 in North-west Territories
	given.		12,000 III 1101 III-WEST TETTIONIE
Wood Mountain and Qu'Appelle		1,536,000	

Name changed by 52 Vic., cap. 65, to the North-western Railway Company of Canada.

I am not in possession of the information necessary to enable me to state the quantities of land conveyed to the companies.

I have the honour to be, sir, Your obedient servant,

> COLLINGWOOD SCHREIBER, Chief Engineer and General Manager.

To the Secretary,

Department of Railways and Canals.

APPENDIX No. 4a.

DEPARTMENT OF RAILWAYS AND CANALS, GOVERNMENT RAILWAYS,
OFFICE OF THE CHIEF ENGINEER AND GENERAL MANAGER,
OTTAWA, 10th October, 1892.

SIR,—I have the honour to submit to you as usual my annual report upon the working of the Government railways for the year ended 30th June, 1892, and I attach hereto the reports of the Chief Superintendent, Chief Engineer and Mechanical Superintendent of the Intercolonial Railway and also those of the Superintendent and the Mechanical Superintendent of the Prince Edward Island Railway together with statement of accounts prepared by the accountants of these roads.

TABLE showing the length of the Government railways on the 30th June, 1892.

INTERCOLONIAL RAILWAY.

7717	2110020	111111111111111111111111111111111111111	
		Miles.	Total Miles.
Chandiara Tunction	ho Halifax	 67 8	1/11/001
Oxford Tunetion to	Picton	70	
		8	
		via Harlaka 14	
		sie 7	
		14	
		Chêne 11	
		<u></u> 5	
Stellarton Junction	o Brown'	s Point 12	
North Sydney June	ion to No	rth Sydney 5	
New Glasgow to Pic	tou Landi	ng 7	
Richmond to Dartm	outh	5	
•			
Total miles	showing	a regular train service	,142
	FREIGE	IT BRANCHES.	
Pividra du Loun W	harf Bran	ch 4	
Rimouski	do	2	
New Castle	do	2	
Dorchester	do		
Courtney Bay	do		
Sackville	do		
Stewiacke	do	1	
Halifax Cotton Fact		1	
	01,5 40		12 1
Total lengt	h of the I	ntercolonial Railway	
	WINDS	OR BRANCH.	
W7' 4 To 4' 4-	. 117:		99
windsor Junetion to	wingsor w	90	32
		32	

Department of Railways and Canals. PRINCE EDWARD ISLAND RAILWAY.

		Total Miles.
Souris to Tignish	168	2.222000
Mount Stewart to Georgetown	24	
Charlottetown to Royalty Junction	. 5	
Emerald Junction to Cape Traverse	13	
Alberton to Cascumpec Wharf	. 1	
	·	211
Total length of Government railways	- 	$\frac{1,397\frac{1}{2}}{}$

The result of the year's operations of the Government railways may be stated as follows:—

Name of Railway.	Mileage in operation.		Amour	ıt.	Prof	it.	Loss.	
			*	cts.	*	cts.		cts.
Intercolonial Railway	1,142	Earnings	2,945,442 3,439,37				400.00	. 00
Windsor Branch Railway	32	d earnings	33,500 19,51		10.00		493,935	1 03
Prince Edward Island Railway.	211	Earnings	157,443 289,700		13,99	4 48		
	į .	1				•••••	132,263	69
	'						626,198 13,994	
Total miles	1,375				Net	loss	612,204	24

In the first half of the year appearances indicated that the loss in the year's operations would assume greater proportions than for the year previous, and had not the Honourable the Minister adopted vigorous measures to reduce the cost of working the road, without impairing its efficiency, the loss would probably have exceeded that of the year previous, but as a result of his determined action upon taking charge of the department in the early part of the last half of the fiscal year, in adopting the measures of economy the loss of working the road for the year is \$155,170.93 less than for the year previous, the loss being \$612,204.24, as against a loss in the previous year of \$767,375.17, and this result has been achieved in the face of a dull season's traffic and a consequent falling off in the earnings as compared with the earnings of the year previous.

The gross earnings of the Government railways for the last two years, compared as follows:—

	1890-91.		1891-92.
Intercolonial Railway	\$2,977,395	38	\$2,945,441 97
Windsor Branch Railway	30,235		33,508 85
Prince Edward Island Railway	174,258	05	157,442 69
	\$3,181,888	56	\$3,136,393 51

Showing a decline in the gross earnings for the year as compared with those of the year previous of \$15,495.05.

This falling off in the gross earnings is almost entirely due to dulness in the freight traffic, especially in the local traffic (which commands the best rates), it having decreased by about 46,000 tons as compared with the previous year, whilst the through freight (which is carried at low rates) increased by about 6,000 tons, so that if the local freight traffic had been as favourable as the year previous an even better result in the net earnings would have been obtained. However, the adoption of these measures of economy began to take effect too late in the year to bring about any near approach to an equilibrium between earnings and working expenses, but it is confidently expected that if the determined policy of economy in the working of these roads is continued in future, the Honourable Minister will be able to show at the close of the current year a greatly improved state of affairs as regards the net

INTERCOLONIAL RAILWAY.

I mentioned in my report of last year, that the Eastern Extension and the Cape Breton Railways were by Act of Parliament merged into the Intercolonial Railway. As this is the first year in which the cost of these road and the Oxford and New Glasgow section appear in the capital account of the Intercolonial Railway, they are each shown separately, but hereafter, they will be in one sum as the cost of the Intercolonial Railway. The accounts for the operations of these sections of road are blended with those of the other sections of the Intercolonial Railway and form one

great whole.

The grain traffic from the west for shipment at Halifax was greatly in excess of that of previous years, but it was continued to be carried over the road at the exceedingly low rate of $\frac{19}{100}$ of a cent per ton per mile. The quantity of grain so carried was 1,265,497 bushels, and as a quantity of this grain came forward weeks before it was required for shipment, and the grain elevator at Halifax was full, awaiting the arrival of ships to take it away, the sidings stood full of loaded cars not only in Halifax, but along the line between Truro and Halifax, much to the inconvenience and displacement of the ordinary business of the road. No doubt if such a volume or a greater volume of grain traffic was to continue, the facilities for handling it at Halifax would be insufficient, if it is to be sent forward weeks and, indeed, months before it is required for shipment; but the question which arises is, in ordinary seasons, will the port of Halifax be sought as an outlet for the surplus grain of the country? This is a question which has yet to be solved, if it is, it can only be done by providing greater facilities for the traffic, and if this is done the grain rate, it appears to me should be raised to such a figure as would at least pay the cost of transportation, it being an undisputed fact that $\frac{100}{100}$ of a cent per ton per mile will not, especially in the winter season, when the cost of transport is increased, pay the cost. There are occasions, no doubt, when it is an advantage to furnish londs for cars, which would otherwise run light, at a very low figure.

The through coal traffic has been lighter this year than for some years past, attributable in some degree I am informed by reason of the coal companies having failed to secure contracts from the trunk lines of the same magnitude they had for

some years past.

The system of heating the passenger trains by steam direct from the locomotive has given great satisfaction, and has contributed very much to the comfort of the travelling public, as well as to their safety, and the fitting up of the engines and cars with these heating appliances has been continued during the year until at the close of the year there were 62 locomotives and 190 cars so fitted up.

The interest of the employees of the road has not been neglected, the Westinghouse automatic air brake having been fitted to 13 locomotives and 61 freight cars during the year, making a total of 70 locomotives and 677 freight cars so fitted up, but the full advantage of the application of this brake will not be realized until all the freight cars running over the road are furnished with them.

No portion of the appropriation of \$150,000 for increased accommodation at

Halifax has as yet been expended.

The following is a statement of the quantity and classes of the rolling stock purchased on capital account up to 30th June, 1892:—

	Passe	enge	r Car	Stoc	ek.	7ans.	e]e	zi	three	vi.	s.		team Ploughs.
 Engines.	1st Class Sleeping and Parlour.	1st Class.	2nd Class Sleeping.	2nd Class.	Baggage and Mail.	Conductors' V	Box and Cattle Cars.	Platform Cars.	Coal Cars of thi several kinds.	Snow Ploughs.	Wing Ploughs	Flangers.	Rotary Stean Snow Plo
206	15 5	92	6	95	24 39 ———————————————————————————————————		2071 103 ——————————————————————————————————		999 471 794 2264		10	21	2

The following is a statement of the quantity and classes of rolling stock which has been rebuilt during the year at cost of revenue to maintain the stock:—

	Pass	enge	r Car	Sto	ek.	7ans.	Je	, no	three ds.	nô.	zi.		eam Ploughs.
 Engines.	1st Class Sleeping and Parlour.	1st Class.	2nd Class Sleeping.	2nd Class.	Baggage and Mail.	Conductors' V	Box and Cattle Cars.	Platform Cars.	Coal Cars of several kind	Snow Ploughs	Wing Ploughs.	Flangers.	Rotary Steam Snow Plou
1		4		2	4	2	17	40	38 42 29 109	1		6	

I may here remark that in last year's report the clerk who abstracted the statement of rolling stock rebuilt during that year from the Mechanical Superintendent's report made an error by taking out the number to be rebuilt, instead of those rebuilt during the year.

The statement for that year should have been as follows, viz.:—

	Pass	enge	r Car	Sto	ck.	ans.	Cars		<u>ھ</u>				
 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 thr several kinds.	Snow Ploughs.	Wing Ploughs.	Flangers.	Rotary Steam Ploughs.
	•	5	j		2	-	73	157	159 10 169		4		

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.	* ets.	\$ cts.	\$ cts.		
1876-77	714	1,661,673 55	1,154,445 33		507,228 22	421,327	613,420
1877-78		1,816,273 56	1,378,946 78	l	432,326 78	522,710	618,957
1878-79		2,010,183 22	1,294,009 69		716 083 53	510,861	640,101
1879-80	82 9	1,603,429 71	1,506,298 48		97,131 23	561,924	581,483
1880-81	840	1,759,851 27	1,760,393 92	542 65		725,777	631,245
1881-82	840	2,069,657 48	2,079,262 66	9,605 18		838,956	779,994
1882-83	840	2,360,373 27	2,370,910 10	10,547 83		970,961	878,600
1883-84	887	2,377,433 62	2,384,414 92	6,981 30		1,009,237	944,636
1884-85	941	2,519,751 56	2,441,203 66		78,547 90	989,936	957,228
1885-86	946	2,583,999 67	2,450,093 88		133,905 79	1,023,788	932,880
1886-87	966	2,922,369 62	2,660,116 93		262,252 69	1,143,020	942,784
1887-88	971	3,366,781 74	2,983,336 05	Ì	383,445 69	1,288,823	1,040,163
1888-89		3,244,647 73	2,967,801 00		276,846 73	1,218,877	1,136,272
1889-90		3,560,575 74				1,368,819	1,219,233
1890-91	1,094	3,662,341 94	2,977,395 38			1,304,534	1,298,304
1891-92		3,439,377 00	2,945,441 97		493,935 03	1,264,575	1,297,732

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 1879:—

	For the	e West.		
Calendar Year.	Calendar Year. Viá Chaudière. St. John.		To Local Stations.	Total.
1876-77			103,420	103,420
1877-78	<i>.</i>		97,043	97,043
1878-79			112,232	112,532
1879–80,	1,097	l	135,369	136,466
1880-81	,	4,022	174,483	184,607
1881–82		11,779	218,364	248,158
1882–83	,	22,206	227,380	262,42
1883–84	,	19,534	252,014	293,56
1884–85	133,440	1,773	213,791	349,00
1885-86	171,170	21,150	215,272	407,59
1886–87	192,871	27,536	233,178	453,58
.887–88	183,704	36,228	309,727	529,65
1888-89		27,923	338,538	526,48
1889-90	164,453	25,126	366,967	556,54
1590-91.	113,996	39,213	344,829	498,03
1891-92	35,447	5,918	392,441	433,80

In thus appears that the largest tonnage of coal carried over the road from the west was in the year 1886-87, when it reached 192,022 tons, since which the through coal traffic for points west of the Intercolonial Railway has been on the decline.

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.

•	Bushels.				Bush		
Year.	Viâ Chaudière.	Viâ St. John.	Total.	Year.	Viá Chaudière.	St. John.	Total.
		! !		Brot. forward	104,400		104,400
876-77				1884-85	300,901		300,901
877-78				1885-86	389,122	\	389,122
878-79			1	1886-87	575,880	l	575,880
.879-80			1	1887-88	69,021	1	69,021
880-81			l	1888-89	129,725	1	129,725
881-82		·	[.]	1889-90	502,012		502,012
882-83	31,011			1890-91	148,803	69,534	218,337
883–84	73,389		73,389	1891-92	745,997	519,500	1,265,497
Carried forward	104,400		104,400	Total	2,965,861	589,034	3,554.895

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.
1876-77	254,710	1884-85.	935,977
1877-78	657,778	1885-86.	761,127
1878-79	630,329	1886-87.	763,894
1879-80	533,248	1887-88.	871,838
1880-81	672,310	1888-89.	948,514
1881-82	692,095	1889-90.	1,116,050
1882-83	983,916	1890-91.	1,013,129
1883-84	817,134	1891-92.	954,015

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.

	· I	
292,852 331,170	1884-85 1885-86.	734,902 849,800
302,921 534,021	1886-87. 1887-88.	1,018,395 1,219,035 1,526,158
560,253 1,195,601	1889–90. 1890-91.	2,610,202 2,890,921
	331,170 302,921 534,021 565,678 560,253	331,170

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 1877-78	58,096,474 56,626,547	1884-85. 1885-86.	138,493,675 117,186,512
1878-79	55,626,696	1886-87.	161,801,763
1879–80	55,462,654	1887 88	197,755,272
1880-81	72,841,388	1888-89.	199,507,777
1881–82	78,356,418	1889-90.	210,886,071
1882–83	104,633,417	1890-91	184,188,324
1883-84	131,120,948	1891-92.	175,474,340

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.	34,414	1884-85.	70,785
1877-78.	46,498	1885-86.	74,498
1878-79.	47,584	1886-87.	82,896
1879-80.	70,990	1887-88.	98,302
1880-81.	61,574	1888-89.	85,960
1881-82.	73,479	1889-90.	86,771
[882-83	68,338 60,090	1890-91	95,529 87,889

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.	To Chau- dière for the West.	To St. John for the West.	To local stations.	Total.
	Tons.	Tons.	Tons.	Tons.
1876-77		İ		
1877-78			3,405	18,354
1878-79			2,643	24,271
1879-80			4,952	26,025
1880-81	15,454		3,334	18,788
1881-82			4,168	25,775
1882-83		1	7,911	32,786
l883-84.,	19,696		6,533	26,229
	22,787		8,405	31,192
l 885-86	13,464		8,216	21,680
l886-87	16,923		9,811	26,734
1887-88			8,878	50,742
888-89		1	11,481	28,821
889-90			11,730	21,625
890-91			10,764	20,687
1891-92		17	23,835	33,571

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.

Year.	m				Refined Sugar.				
	To Chaudière for the West.	for	To Local Stations.	Total.	To Chaudière for the West.	for	To Local Stations.	Total	
	Tons	Tons.	Tons.	Tons.	Tons.	Tons.	Tons	Tons.	
76-77	340			340		,			
77-78	186			186	[
78-79	1,041			1,041	;	, ;	, [
79-80	12,220			12,220					
80-81	13,872			13,872	4,022		2,902	6,924	
81-82	14,256		1,290	15,546	7,146			10,753	
82-83	9,465		508	9,973	11,126	• • • • • • • • • •	5,497	16,62	
83-84	13,778	• • • • • • • •	3,068	16,846	14,543			21,808	
84-85	10,381		3,661	14,042	18,024		8,445	26,469	
85-86	4,394		3,998	8,392	7,660		5,858	13,518	
86-87			8,500	28,950	15,044		8,395	23,439	
87-88	14,320			28,405	21,641		7,133	28,77	
88-89	24,358		7,160	31,518	12,955		11,120	24,07	
89-90	7,390		8,913	16,303	6,778		6,125	12,903	
90-91 91-92	$5,088 \\ 7,142$	4,670 3,960	8,215 10,535	$17,973 \\ 21,637$	10,130 12,633	468 7,674	5,996 12,414	16,59 $32,72$	

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.

		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.	
76-77	530	921	527	1,978	551	1,848	802	3,201	
77-78	596	1,015	474	2,085	898	1,644	805	3,34	
78–79	471	1,336	817	2,624	988	1,038	1,048	2,97	
379-60	519	1,362	453	2,334	1,612	2,238	959	4,80	
380-81,	498	1,879	920	3,297	2,418	937	1,051	4,40	
381–82	475	1,619	957	3,051	4.031	1,066	2,487	7,58	
382-83 .	542	384	393	1,319	3,299	759	1,354	5,41	
883-84	838	1,682	412	2,932	1,322	1,143	1,224	3,68	
384-85	1.062	1,885	484	3,431	3,563	3,600	1,596	8,75	
385-86	1.669	1,645	902	4,216	1,680	2,047	3,376	7,10	
386-87	1,278	1,572	2,008	4,858	3,236	569	1,747	5,55	
387-88	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	
\$89~90	2.235	1,787	2,111	6,223	2,449	847	3,288	6,58	
890-91 <i></i>	2,029	2,788	1,848	6,665	1,953	1,917	3,236	7,10	
891-9 2.	1,367	1,746	547	3,660	1,946	928	1,889	4,76	

Forty-three miles of the 56-lb steel rails have been lifted and replaced at the cost of revenue by 4,560 tons of 67-lb steel rails, and 500,374 ties have been renewed, being considerably in excess of the number renewed in any previous year.

being considerably in excess of the number renewed in any previous year.

About 1,000 feet of the trestle bridge which spans the "Narrows" of the Halifax harbour was carried away in a very severe storm, thus cutting off railway communication with Dartmouth. Prompt action was taken to rebuild it, but as the

water ranges in depth from 50 to 60 feet in deep sections, it was a work which took some time to carry out; however, the traffic was interrupted as short a time as pos-The cost of rebuilding it amounted to about \$32,000, which may be considered an extraordinary charge against revenue for the year and which it is trusted may not have to be repeated for many years. The same storm which destroyed the bridge across Halifax harbour carried away the trestle on the deep-water wharf at Halifax along which the grain is conveyed from the elevator to the vessels. The cost of replacing this work was an unforeseen expense. However, from year to year we have found such items of expenditure over which we have no control, arising unexpectedly from the action of the elements, and we are never able to calculate upon what destruction of property may take place during a year, from the effects of fire, wind and water. It is, however, confidently believed, that a continuance of the policy of economy inaugurated by the Honourable the Minister will result at an early day in an equilibrium between earnings and working expenses, but to accomplish this, the expenses will require to be kept down to the lowest degree possible consistent with efficiency, and that can only be brought about by the head of each department of the railway having full control of the men working under him, and by his looking closely after the work to see that no unnecessary expenditure is incurred.

CAPITAL ACCOUNT.

Total cost of road and equipment to 30th June, 1891. \$53,629,714 81 Add expenditure during year 1891-92...... 320,218 84

Total cost up to 30th June, 1892..... \$53,949,933 65

Which is made up as follows, viz.:-

	Road.		Rolling Stock.		Total.	
• / •	*	cts.	8	cts.	\$	cts.
Intercolonial Railway Eastern Extension Railway Oxford and New Glasgow Section. Cape Breton Railway	40,106,073 1,127,859 1,488,567 3,490,118	$\begin{array}{c} 02 \\ 62 \end{array}$	7,053,494 196,183 336,624 151,012	79 52	47,159,567 1,324,042 1,825,192 3,641,131	81 2 14
į.	46,212,618	74	7,737,314	91	53,949,933	65

These roads being now merged into one by Act of Parliament, in future the capital account will appear as the cost of the road and rolling stock of the Intercolonial Railway.

Both the road and rolling stock are in very efficient condition and as the grades and general alignment of the trunk line are specially favourable for fast time, a good rate of speed is made with the through express trains.

WINDSOR BRANCH RAILWAY.

The traffic of this road has been worked by the Windsor and Annapolis Railway Company under an agreement dated the 21st September, 1871, and which agreement will expire on the 1st January next, to be renewed on the same conditions or such other conditions as may be mutually agreed to. Under this agreement the Windsor and Annapolis Railway Company worked the traffic and the Government maintained the way, and works, the former receiving two-thirds and the latter one-third of the gross earnings. The road has been well maintained, 4½ miles of wornout iron rails having been removed and replaced by 4½ miles of 56-lb. steel rails with angle fish-plates, and is in good running 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.	3 Gross Earnings.	Proportion of Gross Earnings credited to Line Western Junction to Halifax.	Proportion of Gross Earnings credited to the Windsor 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		28,461 07	7,407 88	21,053 19	13,099 55	7.953 64	
1882-83	32	32,199 77	8,085 88	24,113 89	23,103 93	1,009 96	
1883-84	32	30,428 39	7,409 46	23,018 93	22,140 86	878 07	
1884-85	32	32,246 30	7.794 95	24,451 35	18,751 96	5,699 39	
1885-86	32	31,185 63	7,527 52	23,658 11	19,229 49	4,428 62	
1886-87		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	
1888-89.		37,313 43	8,941 32	28.372 11	20,856 50	7,515 61	
1889-90	32	39,544 19	9,381 73	30,162 46	18,982 82	11,179 64	1
1890-91	32	39,519 56	9,284 43	30,235 13	28,931 71	1,303 42	
1891-92		42,891 23	9,382 38	33,508 85	19,514 37	13,994 48	

If the renewal of the agreement of the 21st September, 1871, is made I suggest that one of the conditions should be that the Windsor and Annapolis Railway Company, both work the traffic and maintain the way and works, such arrangement will, I am convinced, be more satisfactory both to the Government and to the company.

PRINCE EDWARD ISLAND RAILWAY.

CAPITAL ACCOUNT.

Total cost of road and rolling stock up to 30th June,	\$3,741,7 80 89.
Expenditure during the year:— Removal of Summerside Station buildings\$4,995 42 Land at Charlottetown Station	8,300 49
Total cost up to 30th June, 1892	\$3,750,081 38
Made up as follows, viz.:— Cost of road Cost of rolling stock	\$3,291,352 38 458,729 00
Total cost up to 30th June, 1892	\$3,750,081 38

The rolling stock provided on capital account, and representing the sum of \$458,729 as above consists of—

		Passenger (Car Stock.				:			
Engines.	1st Class Cars.	2nd Class Cars.	Bag- gage and Smok- ing Cars	Official Cars.		Platform Cars.	Con- ductors' Vans.	Pay Cars.	Snow Ploughs	Flangers
							[:			í
21	17	15	3	1	175	125	3	1	8	7

Statement of rolling stock rebuilt during the year:—1 box car.

41

REVENUE ACCOUNT.

The traffic for the year under consideration has been very dull, both the passenger and freight traffic having decreased, there having been 6,119 less passengers, and 8,446 less tons of freight, carried over the road than during the previous year, the amount earned from passenger traffic being \$1,333.02; for freight traffic \$11,677.59, and for mails and sundries \$3,804.75 less than in the year previous, making an aggregate decrease in the earnings of the year of \$16,815.36 over that of the previous year.

The following table shows the working expenses, the gross and net earnings, the tons of freight and number of passengers carried each year since the 30th June, 1875, when the road was first open for traffic:—

Year.	Miles in Opera- tion.	Working Expenses.	Gross Earnings.	Loss.	Tons of Freight carried.	No. of Passengers carried.
		\$ ets.	\$ ets.	* cts.		
875-76	. 199	214,930 43	118.060 96	96,869 47	28,358	93,964
876-77	. 199	228,595 25	130,664 92	97,930 33	41,039	93,478
877-78	. 199	221,599 49	135,899 60	85,699 89	38,923	111,428
.878-79		223,313 12	125,855 99	97,457 21	38,668	105,046
.879-80	. 199	164,640 55	113,851 11	50,789 44	37,208	90,533
.880-81		203,122 88	131,131 43	71,991 45	45,336	102,937
.881-82	. 199	228,259 97	137,267 54	90,922 43	48,315	118,436
.882-83	. 199	252,808 41	146,170 42	106,637 99	51,920	117,162
.88384		236,428 13	144,504 12	91,924 01	51,841	118,988
.884–85		211,207 01	158,588 06	52,618 95	57,346	130,423
.885-86		216,744 34	155,584 36	61,159 98	57,913	120,374
.886-87		204,237 37	155,303 37	48,934 00	53,589	103,067
.887-88		229,639 95	158,363 62	71,276 33	59,603	131,246
.888–89		247,559 44	171,369 56	76,189 89	55,682	152,780
.889-90		266,485 85	160,971 78	105,514 07	51,604	133,099
.890-91		257,990 08	174,258 05	83,732 03	59,511	145,508
891-92	. 211	289,706 38	157,442 69	132,263 69	51,065	139,389

A partial cause of the loss in 1891-92 being in excess of that of the year previous, was that the vessel carrying the new steel rails, which were to have been laid in the track in 1890-91, was wrecked off Cape Breton, as a consequence no rails were laid in the track that year, but the new steel rails provided for the two years were all laid in 1891-92, and charged against revenue in that year, the total charge being \$36,175.19, the half of which would, in the ordinary course, have been a charge against revenue for 1890-91, which would have shown a loss in each of these two last years as follows, viz., 1890-91, \$101,819.62, and in 1891-92, \$114,176.10.

During the year 111 miles of 40-lb, iron rails were lifted and replaced by a like length of 50-lb, steel rails.

	Miles.
The road now has a length of steel track of	85
And iron track of	126
Total length of road	211

It is proposed to continue year by year to replace about 8 or 9 miles of old iron rails by new steel rails, until the whole line is steeled, using the best of the old iron rails for repairs.

The road and rolling stock have been maintained in a good state of repair.

I have the honour to be, sir, Your obedient servant,

COLLINGWOOD SCHREIBER,

Chief Engineer and General Manager.

To the Secretary, Department of Railways and Canals.

INTERCOLONIAL RAILWAY.

OFFICE OF THE CHIEF SUPERINTENDENT, Moncron, N.B., 26th September, 1892.

Sir,—I have the honour to submit the following report on the working of the Intercolonial Railway during the fiscal year which ended 30th June, 1892.

I inclose the reports of the chief engineer and 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.

 - General charges.
 General stores accounts.
 - 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.

The total cost of road and equipment on 30th June, 1891, by last report was	CAPITAL.				
Cost of the following railways and their equipment to 30th June, 1891:— Eastern Extension Railway by last report.\$1,321.986 89 Add payments made at Ottawa	last report was		\$	46,988,163 132	13 29
June, 1891:— Eastern Extension Railway by last report.\$1,321.986 89 Add payments made at Ottawa	Total cost on 30th June,	1891	\$	46,988,030	86
Add payments made at Ottawa		ment to 30	th		
Oxford and New Glasgow Railway 1,776,446 91 Cape Breton Railway 3,541,194 23 Fotal \$ 53,629,714 8 Total \$ 53,629,714 8 The additions during the year were as follows:— Foot bridge at Truro \$ 5,983 70 Stairs at Halifax 691 00 Halifax Cotton Company's Siding 3,184 09 Increased accommodation at Moncton 710 00 do do New Glasgow 11,107 91 do do New Glasgow 11,107 91 do do St. John 1,086 65 Extension along front of City of St. John 176 15 Additional property accommodation at St. 79,960 42 Dartmouth Branch 642 75 St. Charles Branch 45,171 27 Rolling stock 22,026 25					
The additions during the year were as follows:— Foot bridge at Truro	Oxford and New Glasgow Railway	1,776,446	91	6,641,683	9 5
Foot bridge at Truro	Total	• • • • • • • • • • • • • • • • • • • •	\$	53,629,714	81
Stairs at Halifax	The additions during the year were as follows	:			
· · · · · · · · · · · · · · · · · · ·	Stairs at Halifax	691 3,184 710 11,107 1,086 176 79,960 796 642 45,171	00 09 00 91 65 15 42 46 75		
	40	\$171,536	 65		

The foot bridge at Truro is an iron structure, 300 feet in length, across the railway yard. The above amount is the total cost.

Stairs at Halifax.—This is the total cost of a covered stairway leading from the

front of the Halifax passenger station to Lockman street.

Increased accommodation, Moncton.—This is the cost of some new machine tools purchased for the workshops.

Increased accommodation, New Glasgow.—This is a part of the cost of a new

station and offices and extension of the freight shed and yard.

Increased accommodation, St. John.—This is for land taken some years ago for railway purposes.

Extension along front of City of St. John.—This is for surveys of the route.

Additional property accommodation, St. John.—This is a part of the cost of the Harris property adjoining the railway station.

Harris property adjoining the railway station.

Dartmouth Branch.—This is for the payment of land taken at the time of

construction.

Indian Town Branch.—This is for the payment of land claims and expenses of settling them.

St. Charles Branch.—This is for the payment of land claims and the legal

expenses connected with them.

Rolling Stock.—This is the cost of applying the Westinghouse automatic air brake to 61 freight cars and 13 locomotives, and fitting 41 passenger-train cars and 5 locomotives with steam-heating apparatus.

The total number of freight cars fitted with the Westinghouse automatic air

brake is now 661.

The

The total number of passenger-train cars fitted with apparatus to heat them by means of steam from the locomotive is 190, and the total number of locomotives fitted to give steam to heat the cars is 62.

Train Ferry between Mulgrave and Point Tupper.—This is for work done on the

approaches, and for material supplied.

Oxford and New Glasgow Railway, and Cape Breton Railway.—These amounts are for expenditures by the construction department.

REVENUE ACCOUNT.

The expenditure and earnings for the year compare as follows:—

ExpenditureEarnings	\$ 3	\$3,439,377 2,945,441		
	\$	493,935	03	
gross earnings compare as follows with those of the	pr	evious y	ear :-	
In 1890–91.	\$ 2	,977,395	38	

The earnings from passenger traffic compare as follows:- In 1890-91. In 1891-92.	\$ 96	52,316 51,427	
	8	888	94
The earnings from freight traffic compare as follows:—			
In 1890-91	Q1 QF	SA 690	88
In 1891–92	1,80	3,529	03
	\$:	51,100	85
The earnings from mails and sundries compare as follows	:		
In 1891–92,	£ 15	RO 485	00
In 1890–91.	. 16	50, 4 68	62
	\$ 2	20,036	38
The number of passengers carried compare as follows wit	h th	e prev	ious y
In 1890-91In 1891-92	••••	1,298, 1,297,	30 4 732
	_		572
The weight of freight carried compares as follows:—	,		
The weight of Height Carried Compares as follows .—		Tons.	
In 1890-91			
In 1891–92.	• • • • •	1,004,	ひひ生 スケス
III 1001-04	• • • • • •	1,204,	010
	_	39	959
		.,	-00

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.	1890-91.	1891-92.	Increase.	Decrease.
Barrels of flour. Bushels of grain. Lumber, in feet. Head of live stock. Other goods, in tons.	2,890,921 184,138,324 95,529	3,776,677 175,474,340	885,756	8,663,984

There was a decrease in the quantity of almost all classes of freight carried.

The increase in grain carried was in oats, barley and pease for shipment at Halifax.

The quantity of coal carried from the mines in Nova Scotia to the Upper Provinces, compares as follows with the previous year:—

			Viá	Tons Chaudière Junction and Quebec.	Tons Vid St. John
In year ended do	3181	December do		137,355 116,005	137 7,663
		*	45		

WORKING EXPENSES.

The working expenses compare as follows with the pr	evious year :-	
In 1890–91	\$3,662,341	94
In 1891–92	3,439,377	00
	\$222,964	94
They compare with last year as follows:		

Per mile run by engines-	Cents.
In 1890–91	60.23
In 1891–92	60.96
Per mile by trains—	
In 1890–91	72.84
In 1891–92	73.13
Per mile of railway—	
In 1890–91 \$3,5	347 66
In 1891–92 3,0	

The necessary repairs were made to the permanent way and structures, and all the works of the railway were maintained in a state of efficiency.

The number of new ties used was 500,374; 160 miles of track were re-ballasted, 43 miles of track were relaid with heavier steel rails, 67 lbs. to the yard, and 3 miles of new sidings were constructed at various places.

The bridge across the "Narrows" of Halifax harbour at Richmond, was carried

away by a storm and was rebuilt at a cost of \$32,000.

Three new steel bridges were put in to replace wooden ones.

Seven new and stronger steel bridges, 20 spans in all, were put in to replace iron ones.

The floors of a large number of bridges were renewed and improved. Two new iron over-head bridges were built to replace wooden ones.

The fences received necessary repairs, and 103 miles of new fences were built. In addition to the repairs of snow fences, 14,000 lineal feet of snow fences were

The snow sheds received necessary repairs and 1,600 lineal feet of snow sheds were rebuilt.

The buildings on all parts of the line were kept in good repair. One station house and agent's dwelling, two dwelling houses for agents, two freight houses, two large coal sheds each 300 feet long, one brick building 51 feet by 42 feet, besides several smaller buildings were erected. Extensive alterations and improvements were made at Amherst station.

The wharves and trestles received extensive repairs.

A large amount of dredging was done at Pictou Landing and St. John.

The rolling stock received necessary repairs and is in good order.

Four new and powerful locomotives for freight traffic were purchased to maintain the stock, and one locomotive was rebuilt in the railway shops.

Ten passenger train cars, one hundred and sixty-eight freight cars, one snow plough and six flanger cars were purchased, or rebuilt in the railway shops to replace those taken out of service.

The water service was maintained in a state of efficiency.

STORES.

The value of stores purchased was\$	1,022,186 70
The value of stores used was	1,420,683 21
The value of old material sold was	

The value of stores on hand at the end of the year was:-

Ordinary stores including fuel	120,556	21
	\$723,864	<u>62</u>

GENERAL.

The winter of 1891-92 was mild and the trains were seldom delayed by snow. The cost of cleaning snow and ice was much less than in the previous year.

I have the honour to be, sir, Your obedient servant,

> D. POTTINGER, Chief Superintendent.

Collingwood Schreiber, Esq., Chief Engineer and General Manager, Government Railways, Ottawa.

No. 1.—INTERCOLONIAL RAILWAY.

CAPITAL ACCOUNT, Year ending 30th June. 1892.

DR.	CAPI	TAL ACCOUNT	CAPITAL ACCOUNT, Year ending 30th June, 1892.	30th Jur	e, 1892.	CR.
1891.		es cts.	& cts.	1891.		e cts.
June 30 1892.	June 30 To Cost of Intercolonial Railway Eastern Extension Railway Oxford and New Glasgow Railway. Cape Breton Railway.	46,988,030 86 1,324,042 81 1,776,446 91 3,541,194 23	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	June 30	June 30 By Dominion of Canada	53,629,714 81
June 30	June 30 Expenditure for current year— Intercolonial Railway Halifax Cotton Company Siding.	3,184 09 45,171 27	(a) (a) (a) (a) (a)			
		22,026 25 176 15 11,107 91 642 75				
	Stairs from Halifax Station. Increased accommodation, Monckon. Additional property, St. John	691 00 691 00 710 00 1,086 65 79,960 52				
48	Dartmouth Branch Footbridge, Truro	796 46 5,983 70 171.536 65		, ,		
	Eastern Extension, Cape Breton Railway— Train Ferry, Strait of Canso. Oxford and New Glasgow Railway. Cape Breton Railway.	10,297 65 48,745 23 89,639 31	70 0 EG 006			6 Oct.
	•		53,949,933 65		•	53,949,933 65

THOMAS WILLIAMS, Chief Accountant and Treasurer.

Moncron, N.B., 30th June, 1892.

No. 2.—INTERCOLONIAL RAILWAY.

Dr.

REVENUE Account, Year ending 30th June, 1892.

CR.

Previous Year.	Expenditure.	Year et 30th J 1892	une,	Previ Yea		Earnings.	Year er 30th J 1892	une,
\$ ets.		\$	cts.	\$	cts.	[8	cts.
1,281,800 32	Locomotive power, Abstract No. 1.	1,148,19	9 20	962,31	6 88	Passenger traffic.	961,42	7 94
808,212 35	Car expenses, Abstract No 2	703,55	7 89	1,854,62	9 88	Freight do	1,803,52	9 03
955,293 68	Maintenance of way and works, Abstract No. 3	1,007,93	35 4 0	160,44	8 62	Mails and sundries	180,48	5 00
396,320 22	Station expenses, Abstract No. 4.	393,56	39 74	2,977,39	5 38		2,945,44	1 97
197,006 56	General charges, do No. 5.	189,26	63 6 0	684,94	6 56	Balance	493,93	5 03
3,638,633 13		3,442,55	25 83			<u>.</u>		
23,708 81	Car mileage	3,14	8 83	1				
3,662,341 94		3,439,3	77 00	3,662,34	11 94		3,439,37	7 00

THOMAS WILLIAMS, Chief Accountant and Treasurer.

Moncton, N.B., 30th June, 1892.

No. 3.—INTERCOLONIAL RAILWAY.

LOCOMOTIVE POWER—(Abstract No. 1).

Previous. Year.		Year ending 30th June, 1892.
\$. cts.		\$ cts.
11,851 10	Mechanical superintendent's salary, clerks, office and travelling expenses	11,985 68
274,281 45	Wages, drivers, firemen and cleaners	273,946 11
555,848 04	Fuel.	485,123 87
52,172 11	Oil, tallow, waste and small stores	47,324 88
304,550 77	Repairs to engines, tenders and engine tools	273,548 23
51,496 55	Water, including pump and tank repairs.	33,979 92
31,600 30	Miscellaneous	22,290 51
1,281,800 32	•	1,148,199 20

THOMAS WILLIAMS, Chief Accountant and Treasurer.

Moncton, N.B., 30th June, 1892.

No. 4.—INTERCOLONIAL RAILWAY.

CAR EXPENSES—(Abstract No. 2).

Previous Year.		Year ending 30th June, 1892.
\$ cts.		\$ et
102,388 24	Repairs to passengers cars	89,811 0
24,627 52	do postal, express and baggage cars	24,656 7
283,029 80	do freight cars and vans	210,149 1
21,181 51	do snow ploughs and flangers	8,297 9
259,940 94	Wages of conductors, train baggage masters and brakesmen	247,725 9
27,101 53	Oil and waste for packing	25,643 0
64,975 67	Small stores and fuel	63,524 7
24,967 14	Miscellaneous	33,749 3
808,212 35		703,557 8

THOMAS WILLIAMS,

Moncron, N.B., 30th June, 1892. Chief Accountant and Treasurer.

No. 5.—INTERCOLONIAL RAILWAY.

MAINTENANCE OF WAY AND WORKS-(Abstract No. 3).

Previous Year.		Year endi 30th Jun 1892.	
\$ c	s.	8	cts
7,864	Chief and assistant engineers, salaries, clerks, office and travelling expenses.	7,753	96
396,937	Wages in repairing roadway, fences and semaphores, including new sidings	•	
	laid in	425,053	54
181,364 7	Reils and fastenings, including new sidings laid in	150,649	59
45,975	Ties	112,912	04
159,894	Timber, lumber, &c., for repairs to bridges, cattle-guards, sheds, fences, &c.	169,378	31
5,345	4 Repairs to wharves	9,588	00
68,755	Repairs to buildings and platforms	87,836	88
13,020	Repairs to tools	11,410	52
74,055	7 Clearing ice and snow	30,340	43
2,081	7 Miscellaneous.	3,012	10
955,293	8.	1,007,935	40

No. 6.—INTERCOLONIAL RAILWAY.

STATION EXPENSES—(Abstract No. 4).

Previous Year.		Year ene 30th Jun 1892.	ne,
\$ ets.		\$	ets.
297,226 60	Salaries and wages of station masters, agents, clerks, telegraph operators,		
	station baggage masters, yard masters, switchmen, watchmen and		
	labourers	306,068	8 66
99,093 62	Fuel, oil, light, stationery, tickets and other incidental expenses	87,50	1 08
396,320 22		393,56	9 74

THOMAS WILLIAMS, Chief Accountant and Treasurer.

Moncton, N.B., 30th June, 1892.

No. 7.—INTERCOLONIAL RAILWAY.

GENERAL CHARGES—(Abstract No. 5).

Previous Year.		Year end 30th Jun 1892.	
\$ cts.		*	cte
73,338 73	Chief superintendent, district superintendents, train despatchers, general		
	freight agent, general passenger agent, clerks, office and travelling		
	expenses	76,366	77
25,248 67	Accounting department—salaries of the chief accountant and treasurer,		
	traffic auditor, paymaster, cashier, clerks, office andtravelling expenses	25,578	9
16,964 06	Damages to men, animals and goods	6,758	2
26,674 42	Ferry service	29,922	2
1,298 51	Telegraph expenses (not including pay to operators)	2,766	1
38,901 19	Miscellaneous—printing, advertising, &c.	32,699	7
14,580 98	Agency expenses.	15,171	5
197,006 56		189,263	-6

THOMAS WILLIAMS, Chief Accountant and Treasurer.

Moncton, N.B., 30th June, 1892.

No. 8.—INTERCOLONIAL RAILWAY.

CR.	es cts.	1,420,683 21	, to other	30,633 25	81,644 04	20 contract		ling fuel. 471,826 38			
GENERAL STORES ACCOUNT, Year ending 30th June, 1892.		June 30. By Issues during year	Sales of material, fuel, &c., to other	railways, &c	Sales of old material	Balance		Ordinary stores, including fuel.	Ordinary stores, including fuel Iron and steel rails and fastenings	Ordinary stores, includ Iron and steel rails and f Old material for sale	Ordinary stores, includ Iron and steel rails and f Old material for sale
Үеаг өп	1892.	June 30			* *************************************						
ACCOUNT,	ets.	933,436 20							1,323,388 92	1,323,388 92	1,323,388 92
ERAL STORES	& cts.	:		1 000 100 70	1,022,180 70 235,072 12	53,176 03	12,954 07				
	·	June 30 To Balance			Charges from other departments	Labour	Staff pay-rolls			Ī	
DR.	1891.	June 30	6001	7697	June odl					52	52

THOMAS WILLIAMS, Chief Accountant and Treasurer.

Moncron, N.B., 30th June, 1892.

CR.

	ee cts.		& cts.
or	849 72 1 1 1 1 1 1 1 1 1	Dominion of Canada. Unclaimed freight Suspense Chatham Railway. Canadian Pacific Railway, New Brunswick division—traffic account Prince Edward Island Railway. I.C.R. Employees Relief and Insurance Association. Prince Edward Island Steam Navigation Co.	1,018,252 07 218 82 3,513 50 0 07 0 06 8,65 8,806 45 1 85 0 185
countaccount	39,257 88 6,970 01	ntercolonial Coal Co.	
count.	17,550 77 6,040 99 5,381 85 22,446 90 4,240 75 341 06 3 74 19 88 314 09		
Kent Northern Kailway Témisouata Railway Témisouata Railway Canadian Pacific Railway—general Buctouche and Moncton Railway Western Counties Railway Cap Breton Railway Baie des Chaleurs Railway Nova Scotia Central Railway Canadian Pacific Railway Canadian Pacific Railway Maine Central Railway	7 3 47 7 3 8 9,000 19 102 80 15,914 90 90 30 7 4,316 80 54 60 15 70		

D s .	GENERAL BALANCE	BALANCE, Year ending 30th June, 1892.—Continued.	CR.
		es cts.	
South-eastern Railway.			
Springhill and Parrsboro' Railway. Halifax and Cape Breton Railway.		3,161,99 1,151,42	
Elgin Branch Railway Elgin Petitcodiac and Havelock			
Chicago and Grand Trunk Railway. Canada Atlantic Railway			
Hamilton and Dayton Railway Ann Harbur and Michigan Railway		1 60	•
Central Railway		73 10 73 10	
St. John Street Railway Co.		20 20	
Fullman Falace Car Co. Canadian Express Co.		1.500 00	
Allan Steamship Line		1,892 13	
Acadia Coal Co International Coal Co.		823 93 19 32	
Londonderry Iron Co.		15 10	
Union Bearing Co			
Polson Iron Work.			
Western Union Telegraph Co			
Ontario Car and Foundry Co.		1,276 (0)	
do "Contest"			
do "Labrador"do "Samia"		22 20 22 25	
		27,558 43	
Nauwigewauk Station		3 00	
Glengarry Station	:,		
Coal Branch Station.			
Welford Station			
Bic Station			
St. Arsene Station.			
Valley Station Tona Station			
		28. 38	

E. THOMAS WILLIAMS, Chief Accountant and Treasurer	E. O. E.	•
39 Total 1,030,866 39	1,0	Total
	20,193 59	dividual accounts
3.88		ova Scotia Glass Co
29		ruro Foundry and Machine Co
50	1,967 41	Cold Brook Rolling Mills. Canada Meat. Packing Co.
08		shooner "Mary Jane"
88	90 68 90 88	ampbellton Station (freight)
69		alhousie Station
120		loucester Junction Station
***	1	Derby Junction Station

Moncron, N.B., 30th June, 1892.

No. 10.—INTERCOLONIAL RAILWAY.

Comparative Statement of Averages, Year ending 30th June, 1892.

	1892.	1891.
Mileage of railway. Engine mileage Irain do Car do	1,142 5,641,888 4,703,151 51,940,141	1,094 6,080,791 5,027,791 56,492,801
Receipts per engine mile	52·21 2,519·19	48·96 2,721·57
Percentage of passenger earnings to gross earnings do freight do do do other do do	32·64 61·23 6·13	32·3: 62·2: 5·3:
Expenses per engine mile— Drivers, firemen and cleaners' wages	4·85 8·60 ·84 4·85 ·60 ·40	4.5 9.1 .8 5.0 .8
Total	20:14	20.8
Total	20:35	21.0
Locomotive power per engine mile. Car expenses do Maintenance of way and works do Station expenses do General charges do	20·35 12·47 17·87 6·98 3·35	21·0 13·2 15·7 6·5 3·2
Car mileageCr.	61:02	59·8 •3
Total per engine mile	60.96	60.2
Locomotive power per train mile. Car expenses do Maintenance of way and works do Station expenses do General charges do	24·41 14·96 21·43 8·37 4·02	25·4 16·0 19·0 7·8 3·9
Car mileage	73:19	72:3
Total per train mile	73.13	72.8
Working expenses per mile of railway	3,011.71	3,347.6

THOMAS WILLIAMS, Chief Accountant and Treasurer.

Moncton, N.B., 30th June, 1892.

INTERCOLONIAL RAILWAY,

CHIEF ENGINEER'S OFFICE,

Moncton, 21st September, 1892.

Sir,-I have the honour to submit my report of the Engineering Department for the year ending 30th June, 1892.

TRACK.

The mileage of the main line and branches maintained under my charge, has been increased from 1,048 to 1,144 miles, by the addition of the Cape Breton Division extending from Point Tupper to Sydney and North Sydney, in all 96 miles.

During the year, $43\frac{3}{4}$ miles of old steel rails (4 inch), have been taken up and replaced with new $4\frac{3}{2}$ steel rails, weighing 67 pounds to the yard.

TIES.

During the year, 500,374 ordinary ties, and 113 sets of switch ties, were renewed.

BALLASTING.

About 125,000 cubic yards of ballast were used during the year throughout the whole line. The cost of this service amounted to \$44,818.24. A new pit containing 15 acres was purchased at Anagance, and a branch line 21 miles was built into it, at a cost of \$9,500.

SEMAPHORE SIGNALS.

One electric semaphore was erected at Amherst, and another ordinary semaphore at Shubenacadie. Ordinary semaphore signals were also erected at all stations on the Oxford and New Glasgow Division. This latter was done at the expense of capital account.

SIDINGS.

During the year, three miles of additional accommodation was provided throughout the line.

FENCING.

One hundred and three and a-third miles of new barbed wire and woven wire fencing were erected during the past year, and a large quantity overhauled and repaired throughout the line.

The expenditure for this service amounted to \$40,405.70.

SNOW SHEDS AND SNOW FENCES.

During the year, 1,600 feet of snow shedding was renewed on Northern Division No. 3, and large repairs made to other sheds on this division.

14,023 feet of snow fencing was renewed, and a large quantity overhauled and

repaired. The cost of this work amounted to \$15,801.42.

WHARVES AND TRESTLES.

At the Deep Water Terminus, Halifax, 950 feet of the old hemlock trestle approach to the coal shed on the south side of the freight shed, was renewed with Georgia pitch pine at a large cost.

A heavy wind storm on the 7th of September carried away about 400 feet of the grain elevator gallery, and badly damaged the belt and other machinery in connection therewith. These repairs were all made good at an expense of about \$1,500.

A hoisting gang-way connecting the Deep Water Terminus freight house and

the immigrant shed, was erected for the more convenient handling of baggage. Large repairs were made to the trestle approaches leading to the freight house.

At Richmond, 200 lineal feet of the hemlock approach to coal trestle on the

outside wharf at Richmond, was renewed in pitch pine.

About 1,000 lineal feet of the bridge across the harbour at Richmond, was carried away by the heavy wind storm of the 7th of September. This was replaced, and opened for traffic before the close of the season.

The expenditure for this service amounted to \$32,000.

At Stewiacke the wharf for the accommodation of the Maitland business, was considerably damaged by the ice run in April last. A portion of this wharf was taken down and the balance of it properly secured with piling and capping, so that it is now more efficient than previous to being damaged.

At Truro the high level coal shed and the trestle approach were thoroughly

overhauled and repaired.

Necessary repairs were made to the wharves at Mulgrave and Point Tupper.

At Dorchester a large portion of the top of wharf was renewed. Thirty new fenders were also provided.

At St. John very heavy repairs were made to the Deep Water Terminus wharf on the Courtenay Bay Branch. Six additional mooring posts were also provided for this wharf.

A heavy storm in October last carried away about 300 feet of the wharf at Pointe du Chêne, and badly damaged other portions of the same wharf. These damages have all been made good.

Buildings and Platforms.

At North Street Station a new hardwood floor was laid in the waiting room, and a new office was provided for the ticket agent.

An extension of 12 by 9 feet was made to the freight checker's office, and the

switchman's house overhauled and repaired.

At Richmond 8 sets of cattle-guard stringers were renewed. The approach to

the cattle shed, 60 by 30 feet, was renewed.

The high level coal shed was roofed over with a building 300 feet long, 50 feet wide, and 14 feet posts, which admits now of the coal being dumped under cover. This renders the flat roof and hatches unnecessary.

At Rockingham the platform was extended 50 feet.

At Bedford the platform was extended 50 feet.

At Enfield a new loading platform was provided, and a pair of cattle-guards renewed.

At Elmsdale the passenger platform was renewed.

At Shubenacadie the station platform, 340 feet long and 12 feet wide, was The roof of station was recovered with metallic shingles. The cattle pen was renewed and the loading platform repaired.

At Brookfield a set of cattle-guards and the cattle-pen were renewed.

At Truro the sills of station building were renewed. The restaurant was thoroughly overhauled and large repairs made; the drainage from this restaurant was also very much improved. The track blacksmith shop, situated at the west end of the yard, was moved over and placed beside the roundhouse, so that the blacksmiths might be more efficiently supervised by the mechanical foreman. This necessitated the rebuilding of the forges, chimneys, &c. A new tool-house was provided for the section foreman. General repairs were made to the roundhouse, coal shed, and other buildings in Truro yard.

At Riverside the station was thoroughly overhauled and repaired. The office was sheathed the full height of the walls. Two sets of cattle-guards were renewed

at this place.

At Lorne Siding a new flag-station was erected.

At Campbell's Siding a tool house was erected for the section men.

At New Glasgow contracts were let for a new brick passenger station, a large addition to the freight house, and a large baggage-room.

The yard and sidings were also rearranged and extended. These improvements

are now about completed.

At Pictou Landing, the station platform 116 feet long by 9 feet wide was renewed. A portion of the west end of the station was fitted up as a freight shed.

At West Merigomish the roof of station was recovered with metallic shingles.

At Piedmont the roof of station was recovered with metallic shingles and painted.

At Avondale the station was overhauled and repaired.

At Marshy Hope a small kitchen was built to the rear of station for the agent's use, and the roof of station recovered with metallic shingles and painted.

At Antigonish the front of station was painted. The agent's office was enlarged and painted, and the passenger platform extended a distance of 80 feet by 6 feet wide.

At Pomquet and Heatherton, the stations were overhauled, and necessary

repairs made.

At Tracadie one side of the 100f was recovered with metallic shingles and painted.

At Harbour au Bouche the station was overhauled and repaired.

At Mulgrave a hardwood floor was put in the ladies' waiting-room.

At Pictou the engine shed was overhauled and repaired.

At Ross Road a freight platform was erected.

At Henderson's Siding a freight platform was erected.

The building formerly used as a car shed at Pictou Landing was removed to Pugwash, and converted into a freight shed on the Deep Water Wharf for the accommodation of freight shipped by water. A suitable slip for landing freight and passengers was provided.

At Wentworth the sills of station were renewed, a new hardwood floor was laid

in the waiting-room, and the platforms of station and freight house renewed.

At River Phillips the sills of station and freight house, also the station platform, were renewed. A new floor was laid in the station master's office, and the loading platform recovered.

At Salt Springs the station platform was renewed.

At Spring Hill Junction and Maccan Stations, the waiting-rooms were sheathed

and necessary repairs made to the station platforms.

At Amherst the dwelling apartments of present stone station were converted into a large general waiting-room. The floor of the whole building was lowered about two feet. The masonry of the windows and door was cut down to suit the new level, and the windows enlarged correspondingly. The ticket office, general waiting, and ladies' waiting-rooms, were sheathed with hardwood. A first class hotwater heating apparatus was provided to heat the whole building. Flush water-closets were also provided for the ladies' and general waiting-rooms. These improvements cost about \$2,000.

At Aulac the station building was painted.

At Sackville the baggage-room was sheathed, and the roof of freight house

At Rockland the station building and platform were repaired, and the waiting

room sheathed.

At Meadow Brook a new flag-station was erected, and a new loading platform provided.

At Memramcook the old freight-house was converted into an office for the agent and a ladies' waiting-room. The building was thoroughly overhauled and painted, the sills were renewed, and the old spruce floors replaced with hardwood floors. A new freight shed, 50 by 20 feet, was built to replace the old one.

At Shediac new floors were laid in the station and dwelling apartments, and necessary repairs made to plaster, &c. The station platform, 420 feet by 16 feet, was

renewed.

At Pointe du Chêne the station building was sheathed and a new floor laid. The platform, 187 feet by 9 feet, was renewed.

At Moneton a large brick addition was made to the erecting shop, 201 feet long

by 110 feet wide. It was covered with an iron roof.

A new brick round-house, with accommodation for 27 locomotives, was built.

These buildings cost about \$75,000, and were charged to capital account. A brick building, 51 feet by 42 feet, for the accommodation of the electric light plant and machinery, was erected at a cost of \$3,413.60.

59

The Government cottages occupied by employees were overhauled and repaired. Necessary repairs were made to the baggage room. The sills and floors in the old erecting shop were renewed. The station building was overhauled, and some slight repairs made to same.

At Salisbury the walls of office were sheathed, and outside sashes provided for

the building.

At Petitcodiac the roof of station was recovered with metallic shingles, and necessary repairs made where required.

At Sussex two new doors were provided for the roundhouse and the roof of freight shed was recovered with metallic shingles.

At Apohaqui a new top was put on the loading platform.

At Humpton the platform was extended 100 feet.

At Bloomfield a new floor was laid in the station, and a new top put on the loading platform.

At Saunder's Crossing a new platform, 100 feet long by 7 feet wide, was erected.

At Riverside the platform was renewed.

At Coldbrook the platform, 300 feet long by 7 feet wide, was renewed.

At St. John, a coachman's shelter, 30 by 15 feet, was erected at a cost of \$695. The train shed received a coat of Sparham roofing, and extensive repairs were also made to sky-lights of same. The paint shop, which was partially destroyed by fire, was rebuilt.

At Berry's Mills the waiting-room and office were sheathed.

At Coal Branch the station office was sheathed.

At Birch Ridge an addition of 50 feet was made to the station platform.

At Harcourt the station platform, 234 feet long by 9 feet wide, was renewed; a new cellar wall was also put under the agent's house.

At Kent Junction a new station and freight house were erected by contract to replace those destroyed by heavy bush fires. Storm porches and outside sashes were also provided for the station.

At Rogersville storm porches and outside sashes were provided for the station.

At Newcastle a new catch basin was built in the roundhouse, and necessary repairs made to the pits and floor of same. A new building was put over the gas Necessary repairs were made to the station.

The coal sheds at the following stations were covered with sheet iron and painted:-Canaan, Coal Branch, Barnaby River, Chatham Junction and Derby

Necessary repairs were made to all station platforms between Moncton and Newcastle.

At Bartibogue the tank-house was repaired.

At Red Pine the roof of station was repaired, and a new chimney built. A well and pump were provided for the station agent's use, and the platform was extended 30 feet.

At Petite Roche the roof of station building and dwelling-house were recovered

with metallic shingles.

At Belledune the cellar was lined with plank, and the walls filled with saw-dust to make it frost proof. The tank-house was painted and the loading platform recovered.

At Jacquet River the roof of the dwelling-house and station was recovered with metallic shingles, and a new door put in the station.

The tank-house was painted, and the station platform repaired.

At Nash's Creek necessary repairs were made to the foundation of station.

At New Mills the roof of station and dwelling-house was recovered with metallic shingles, and the doors and platform of freight-house repaired. The station platform, 250 feet long by 8 feet wide, was renewed.

At Charlo a dwelling-house was built for the agent, repairs were made to the

station building and the tank-house painted.

At Eel River repairs were made to the foundation of station, and the waiting-

room and office painted.

At Dalhousie Junction the water was put into the station for the agent's use, and a w.c. provided in the station. A cedar box drain, 200 feet long, was made from

the station to the river. Two new doors were put in the baggage-room, and other repairs made. The tank-house was painted.

At Dalhousie the roof of tank-house was recovered with metallic shingles, and

repairs made to doors and windows of station.

At Campbellton a new roof was put on the coal shed and other repairs made to the building. Necessary repairs were made to the baggage-room and icehouse, and

one pit in the roundhouse was renewed.

The round house was provided with an automatic water closet for the use of the An 18-inch sewer was put in to connect the station, roundhouse and other buildings, with the river. Three flush closets were provided for the station.

At Flat Lands a new kitchen was built for the accommodation of the agent.

At Metapedia outside sashes were provided for the station, and 400 feet of the platform renewed.

At Millstream, a kitchen was built to the station and the coal-shed repaired.

At Causapscal the roof of kitchen was recovered with metallic shingles.

At Amqui the roofs of station and freight shed were recovered with metallic shingles. A water closet was provided, and 350 feet of the platform renewed.

At Cedar Hall the coal shed was repaired.

At Sayabec an addition was made to the station to provide dwelling apartments for the agent.

At St. Moïse the kitchen roof was recovered with metallic shingles.

At Little Metis 500 feet of the platform was renewed.

At St. Octave 50 feet of the platform was renewed.

At Ste. Flavio the rooms of dwelling apartment were sheathed. The building heaved badly with the frost, and the plaster was constantly coming down. The roof of station was recovered with metallic shingles. Necessary repairs were made to the round-house and coal-shed.

The iron frame of snow shed west of Ste. Flavie was painted, and the woodwork

whitewashed.

At Rimouski the waiting-room was sheathed and painted. The platform was repaired. The snow shed near this station was whitewashed.

At Bic the roof of station was recovered with metallic shingles, and the

platform repaired.

At St. Fabien the ironwork of snow-shed was painted, and the woodwork whitewashed.

At Trois Pistoles the station and restaurant were painted.

At Isle Verte the snow-shed was whitewashed.

At St. Arsène the roof of station was partially recovered and the snow-shed

At Rivière du Loup, a coal shed, 300 feet long and 23 feet wide, was erected to replace the shed burned down. Necessary repairs were made to the roundhouse and floors of machine shop. A new water-closet was provided in the general waitingroom of station.

At St. Roch slight repairs were made to the interior of station.

At St. Jean Port Joli a new hardwood floor was laid in the kitchen.

At Cap St. Ignace, St. Thomas, St. Valier and St. Charles, the waiting-rooms were sheathed.

At St. François a new hardwood floor was laid in the waiting-room and office, and the station platform was renewed.

At St. Henri a station platform was renewed.

At Chaudière repairs were made to the freight-shed. Three new hardwood floors and new storm porches were provided for the dwelling-houses at this station.

At Hadlow the floor of the engine-house was repaired.

BRIDGES AND CULVERTS.

An iron stairway was erected to enable passengers to reach Lockman street from the exit of North street station at Halifax. It cost about \$700.

Two of the stone pedestals under the columns of overhead bridge at North street were rebuilt.

The masonry of the centre pier of Stewiacke bridge has been in bad order for some years, and it was necessary to strap it with iron bands to keep it together. A proper foundation was prepared, and the pier was cased from low water to the top with two feet of concrete, which to date has proved a very satisfactory job. The abutments of this bridge were also overhauled and pointed, and the parapet walls taken down to the level of the bridge seats.

A new paving was put in a box culvert one and a half miles east of Stewiacke. Two other box culverts within a mile of Stewiacke station received large repairs.

At Johnson's one abutment of Meadow Brook bridge was taken down and re-

built, one pier and the other abutment were overhauled and pointed.

At Truro a new iron overhead foot bridge of three spans, 1 span 92 feet, 1 span 105 feet, and 1 span 106 feet, was erected between the station and the freight-shed, to connect Inglis street on the north side with Exhibition street on the south side. It is expected that the erection of this bridge will accommodate a large number of foot passengers that have heretofore used the level crossings at either end of Truro station ground.

The track scale at this station was out of order, as was also the masonry foundation of it. A more convenient site for this scale was selected, and the foundation

and scale moved to it.

A gang of masons was employed throughout the season, repairing, pointing and overhauling masonry structures between Halifax and Pictou.

At Sutherland's River a new steel span 160 feet long was put in to replace the old wooden Howe truss bridge at that place, at a cost of \$10,953.

At Pine Tree a new creosote pine bent was put in to replace a hemlock bent

cut out by sea-worms.

The wooden Howe trusses at South River West River, and Pomquet, were overhauled and thoroughly repaired. A number of spruce braces were put in each bridge. These bridges will all have to be replaced in two or three years.

At Yankee Grant a 75 feet through steel plate girder was put in to replace a

Howe truss span of the same length.

These new bridges have all been fitted with Georgia pitch pine floors, well

chocked, and provided with guard rail.

Eighteen pairs of timber cattle-guards at public crossings between New Glasgow and Mulgrave were renewed with flatted cedar during the year. These guards were originally built of hemlock and spruce.

A gang of masons was employed in general repairs between Truro and Painsec

Junction during the working season.

A 15 feet arch culvert was put in to replace a wooden trestle at Frosty Hollow,

near Sackville, at a cost of \$9,200.

The 100-feet Howe truss at Missequash was replaced with a steel span of the same length, at a cost of about \$5,000. The abutments of this bridge were thoroughly overhauled and pointed.

A wooden bridge of three spans of about 20 feet each, on the Shediac Branch,

about three miles east of Painsec Junction, was renewed.

A large arch culvert about five miles east of Moncton, was badly damaged by a washout, and the necessary repairs were made.

A gang of masons was engaged throughout the season overhauling, pointing and repairing masonry structures between St. John and Pointe du Chêne.

The masonry piers of the Miramichi bridge were overhauled and pointed.

A pile trestle at Loch Broom, near Pictou, was filled in with a solid embankment through which a suitable culvert was provided. This trestle lifted with the ice in winter and gave a great deal of trouble.

A new overhead bridge of 60 feet clear span was built near Rogersville to connect the public roads on either side of the track, and thus avoid two level

crossings. This bridge cost \$1,360.

The old wooden overhead bridge, near Charlo, of three spans was replaced with an iron bow-string girder of 86 feet clear span, placed on a substructure of first class masonry, at a cost of \$1,685.

Between Campbellton and Ste. Flavie, the stringers of 30 beam culverts were renewed.

A large culvert west of Campbellton was overhauled and thoroughly repaired. For some years we have had a great deal of trouble with the Tartague tunnel near St. Moïse, which was frequently broken down at the lower end. About two years ago a portion of it was lined. Last year a piece between the lining and the mouth of the tunnel broke down, and obstructed the stream for about 100 yards. A large expenditure was necessary to remove the obstruction and put the tunnel in a state of efficiency.

A very heavy expenditure was made on the line between Rivière du Loup and Levis, putting in new spans and strengthening the old iron spans, which have been

found entirely too light for the heavy rolling stock on that division.

At Rivière Ouelle 8 spans of new 44 feet steel plate girders were put in and

fitted with standard floor and guard rails.

Another pair of new 44 feet steel plate girders were put in three-quarters of a mile west of Rivière Ouelle.

At West St. Thomas two new 64 feet steel plate girders were provided, and six

pairs of 64 feet plate girders at East St. Thomas.

The six old spans of East St. Thomas, and seven old spans of West St. Thomas were doubled up and provided with steel hangers and new steel floor beams. They were also fitted with new standard floors, painted and put in first class shape.

At Boyer River a pair of 54 feet steel plate girders replaced a pair of oldfashioned plate girders. The old plate girders will be doubled up and used

later on.

A new pair of steel plate girders 44 feet span, were put in three-quarters of a mile east of L'Islet. This bridge was changed from a through to a deck, and fitted with standard floor and guard rails.

Two new spans of 44 feet each, steel deck plate girders, fitted with a standard

floor and guard rails, were put in one mile east of St. Roch.

Three 12 feet beam culverts near St. Philippe de Néri were provided with double rail girders.

The overhead bridge near Etchemin was provided with a new floor.

The cutwaters of the West St. Thomas bridge were banded and strapped with old iron rails, to prevent their being damaged by the ice.

The following bridges were painted:-

0 0					
Etchemin bridge	T	ne tub	ular s	pan 17	0 feet long was painted outside,
		aiso	_99 16	et pia	te girder span, and the ties and
~ ~					ole bridge.
St Romuald bridge					d ties.
St. Thomas do	Ir	on wo	rk of s	seven (30 feet spans, and ties of fifteen
		60 f	eet sp		
Isle Verte do	2	span		feet,	Iron and ties.
Trois Pistoles do	5	do	100	do	Ties only.
Amqui do	1	do	100	do	Iron work only.
Indian Brook do	3	do	40	ďο	Ties only.
Kane's Brook do	1	do	23	do	do *
Gilmour's Brook bridge	1	do	60	do	Ties only.
Restigouche bridge	1	do	200	do	Iron and ties.
North Branch Charlo bridge.	3	do	50	do	do
South do do	2	do	50	do	do
New Mills bridge	2	$\mathbf{d}\mathbf{o}$	80	do	Ties only.
Moreton's Millrace bridge	1	do	30	dó	do
Benjamin River bridge	3	do	50	do	do
Dickie's undercrossing.	1	do	40	do	do
Nash's Creek bridge	1	do	80	do	do
Louison's Brook bridge	1	do	60	do	do
Jacquet River do	3	do	100	ob	do
Elm Tree do	1	do	80	do	Iron and ties.
Nigadoo do	1	do	80	do	do
Mill Stream do	1	do	80	do	do
Grant's Brook do	ĩ	do	80	do	do
Tête-à-Gauche do	5	do	100	do	Ties only.
Middle River do	9	do	80	do	do .
Little River do	ĩ	do	60	do	do
Red Pine do	3	do	40	do	Iron and ties.
North-west Miramichi bridge	6	do	200	do	do
Troitin-west Minamient Druge	U	ao	200	uo	uo

63

South-west Miramichi bridge Undercrossing west of Moncton. Hayward's bridge Sproul's do Moosehorn do Lakeside overhead bridge.	6 1 1 1 1	span do do do do	200 46 30 30 30	feet. do do do do	Iron and ties. Ties only. Iron and ties. do do
Otty's do do					
Gondola Point road (undercrossing)					Stringers and ties.
Davidson's Cove bridge	1	ďο	30	do	Iron and ties.
McCulloch's (undercrossing)	1	do	30	dο	do
Lawlor's Lake, overhead.	1	фo	70	do	do
4 mile undercrossing	1	do	50	ďο	Iron only.
Hall's Creek bridge	1	do	50	\mathbf{do}	Iron and ties.
Mountain Road overhead bridge					
Scadoue bridge				$_{ m do}$	Ties only.
La Planche bridge	1	do	80	do ·	Iron and ties.
Memramcook River bridge	1	do	60	do	\mathbf{do}
McManus's bridge	1	$_{ m do}$	50	do	Ties only.
Nappan bridge	1	dο	100	do	do
Experimental Farm, overhead bridge					
North River bridge	2	do	100	do	Iron and ties.
Mud Creek do	1	do	50	$_{ m do}$	Ties only.
Bible Hill do	1	do	23	do	Iron and ties.
Truro Y do	1	\mathbf{do}	40	do	Ties only.
Shubenacadie do			. 325	do	do
Draw span, Narrows bridge					Iron only.
Barney's River do	1	do	70	do	Iron and ties.
Yankee Grant do	1	do	60	\mathbf{do}	do

The iron and ties of 40 spans from 10 feet to 20 feet, old rail girders, at various points on the line were painted.

The following bridges had standard floors put on of Georgia pine ties, full chocked, and iron guard rails:—

Nash's Creek bridge	1 span	80	feet.	Through.
Louison's Brook bridge	1 do	60	do	do
Dickie's undercrossing	1 do	40	do	Deck.
Middle River bridge	2 do	80	do	Through.
Scadouc River bridge		350	do	Deck.
La Planche do	1 do	80	do	Through.
North River do	2 do	100	do	do
Bible Hill do	1 do	23	do	Deck.
Shubenacadie do	3 do	100	do	do
Riversdale do	3 do	40	do	do

The following bridges had the ties placed 4 inches apart, full chocked, and iron guard rails put on:—

Amqui bridge	1	span	100	feet.	Through.
Indian Brook bridge	3	do	60	do	Deck.
Clarke's Brook bridge	1	do	60	do	do
Doyle's do do	1	do	13	do	do
Gordon's do		do	40	do	do
Trout Creek do	3	do	86	do	Through.
Hamond River do	3	do	100	do	do
Walker's undercrossing	1	do	25	do	Deck.
Matthew's Cove bridge	1	do	$\overline{25}$	do	do
Robinson's Meadow bridge	20	do	30	do	do
Humbery's Mill Stream bridge	4	do	25	do	do
Musquash bridge	4	do	20	do	do
Fowler's Creek bridge	8	do	15	do	do
Rodger's bridge	3	do	15	do	do

The wood stringers of the following beam culverts were renewed with old rail girders and standard tops:—

120	feet clear	span.	112 f	eet clear span.
114	do	άο	4 10	
115	do	do		-

The wood trestle near Pointe du Chêne had new stringers and ties of Georgia pine, chocked, and iron guards put on. Three spans 14 feet.

Turner's pile bridge, 1 span 14 feet, had new caps and stringers of Georgia

pine, with standard top put on.

An extra trestle was put in temporary bridge at Palmer's Pond. The ties were chocked, and iron guard rail put on.

A crib work of timber filled with stone was built around the piles at late arch culvert, two and a half miles east of Truro, to prevent scouring.

Two escapes were built on River Phillip bridge.

A box culvert of cedar was built under Loch Broom bridge, and the bridge filled in.

Full sized chocks were put between the ties on the bridges between Oxford Junction and Brown's Point.

The riveting of the following bridges was thoroughly overhauled and all loose rivets renewed:—

Riversdale bridge	3 spans	40 feet.	Third Crossing bridge	1 span	S0 feet.
Richibucto River bridge	3 do	50 do !	Bartibogue bridge	1 do	80 do
Second Crossing Barnaby River	1 do	80 do	Rimouski bridge	5 spans	80 do

The following bridges had a system of lateral bracing put in:-

At Windsor Junction, 410 feet of 2-in. wrought iron pipe were laid to connect the station with a spring and furnish a domestic water supply for the station agent. A suitable pump was also provided.

Between New Glasgow and Mulgrave, 12 new public crossing sign posts and boards were put up. Sixty-two sign boards on this division were also painted and

relettered.

At Pictou Landing, a large amount of dredging was done on the west side of the wharf. A berth 400 feet long by 40 feet wide, and from 24 feet deep at the outer end, to 12 feet deep at the shore end, was provided.

The east side of this wharf was dredged last year, so that now there is accom-

modation for four large ships.

The north side of the Deep Water Wharf at St. John, was also dredged to a

depth of 25 feet.

A working train was employed for about six weeks on each division, cleaning out cuttings, widening embankments, and taking down loose and dangerous rocks from cuttings.

Ten sets of cattle-guards within the limits of the town of Campbellton, were taken up and placed at the boundaries of the streets, making the roadways over the

track 50 feet instead of 20 feet.

On the division between Rivière du Loup and Lévis, 16 stone culverts were taken down and rebuilt. Many others were overhauled, repaired and pointed.

I have the honour to be, sir, Your obedient servant,

Chief Engineer.

P. S. ARCHIBALD,

D. Pottinger, Esq., Chief Superintendent, Intercolonial Railway, Moneton, N.B.

Intercolonial Railway of Canada,
Office of the Mechanical Superintendent,

Monoron, N.B., 6th September, 1892.

Sir,—I beg to submit for your information the following statements of the

operations of the Mechanical Department for the year ending 30th June, 1892:—

A.—Statement showing the number of locomotives and various classes of cars.

B.—Statement showing the locomotives and car miles are not the even and the even are

B.—Statement showing the locomotives and car mileages, and the average 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.

Four large new locomotives were purchased and charged to revenue to replace 4 old ones taken off the list; 1 engine was rebuilt; 3 engines received heavy repairs, amounting almost to rebuilding.

One new boiler, 2 new fire-boxes, 22 new cylinders, 8 new saddles, 13 new extensions, 204 new driving tires, 9 new cabs, 63 new smoke-stacks, 26 new pilots,

and 6 new tenders complete were supplied.

The Westinghouse brake was applied to 7 engines, and the American steam

brake to 2. Sewell's heating apparatus was placed on 13 engines.

Five first-class cars were transferred from the Oxford and New Glasgow to the Intercolonial Railway. Four first-class, 2 second-class, 4 baggage and express, 15 box, 2 cattle, 40 platform, 38 6-ton hoppers, 42 20-ton gondolas, 29 20-ton platform, and 2 conductors vans were rebuilt. One common snow-plough and 6 flangers were rebuilt also.

There are now 190 steam-heated cars, and 82 lighted with electricity. Sixty-

five engines are now equipped with steam-heating devices.

Seven parlour cars, 11 sleeping cars, 50 first-class cars, 13 second-class sleepers, and 19 vans were thoroughly overhauled and renovated. Lighter repairs were put on 1 sleeper, 1 parlour car, 50 first-class, 58 second, 15 postal, 10 baggage, and 47 vans. Extensive repairs were put on 2 wing and 1 common plough, and four flangers; 464 freight cars had very heavy repairs put on them, almost amounting to rebuilding. Sixty-six freight cars were strengthened to increase their capacity ten thousand each. Steam heating was applied to 15 first-class, 6 second-class, and 4 baggage cars. Upwards of 150 passenger, baggage and postal, and 632 vans and freight cars, passed through the paint shop and were cleaned and painted to a more or less extent, generally thoroughly.

WATER SERVICE.

Tank-house at Elmsdale was burned in October, 1891, and a temporary tank and house put up.

At Alton repaired reservoir and put in new boiler.

Londonderry pump, hot air, received repairs several times. I would advise that a steam pump be erected there.

The tank at Folleigh was painted. Amherst tank was painted.

At Moncton 1 crane was taken off the water company pipe and put on the railway line, and another one was put up near the roundhouse.

A breakwater was built at Peticodiac to prevent sawdust from getting in the

suction pipe.

The boiler and reservoir at Canaan were repaired. A new trestle was put under tank at Newcastle.

The reservoir at Jacquet River was cleaned.

The boiler at Charlo was repaired.

At Campbellton 175 feet of 2½-inch pipe was laid to wash out ashpans.

Cleaned and fenced reservoir at Metapedia.

Reservoir at Ste. Flavie was cleaned and repaired.

Reservoir at Trois Pistoles was cleaned out.

Two hundred and fifty feet 1-inch pipe was laid from tank to station at L'Islet. At Oxford Junction 250 feet $2\frac{1}{2}$ -inch pipe was laid from tank to engine-house.

Hoops on tank at Antigonish reset and tank painted.

A new windmill pump was put up at River John.

A new 50,000 gallon tank was crected at Pugwash Junction.

I have the honour to be, sir, Your obedient servant,

H. A. WHITNEY,

Mechanical Superintendent.

D. Pottinger, Esq., Chief Superintendent.

STATEMENT showing the number of Locomotives and the various classes of Cars on the 1st July, 1891, and on the 30th June, 1892.

A.—INTERCOLONIAL RAILWAY.

								Ξ	he V	The Various Classes of Cars.	Class	ses of	Cars							
	Locomotives.	First Class Sleepers. Second Class	Sleepers.	assIO teri'i	Passenger. Second Class Passenger.	Postal and Smoking.	Ваккаке and Кхртезв.	Box.	Cattle.	Platform, 10, 02 and 20 tons.	G ,sreqqoH	(tondolas, 20) tons.	Coal Cars, 20	Vans.	Total.	Snow Ploughs.	Wing Ploughs.	Flangers.	Steam Plonghs.	Total.
On hand, 1st July, 1891, serviceable do do condemned	206		<u> </u>	₹ %		24 :	98 8	2,067	8.1-	2,109 14	800.0	513	£.,	6.20	6,830 46			8	- 2	524
Total	206	133	9	5 87	1.69	24	88	2,071	103	2,123	895	513	<u>\$</u>	8	6,876	1.4	12	22	2	[:
Purchased and charged to revenue Received from Oxford and New Glasgow Railway. Glanged from gondola to hopper. To hanged from gondola to platform.	4 : 4			: : : : :	- :::::::::::::::::::::::::::::::::::::				: : : : :		101	* : : : : : : : : : : : : : : : : : : :						<u> </u>		<u>::::::</u>
Total	% %	12	 <mark> </mark>	- 1 20 - 20	93	12	86	2,071	103	2,130	8	E#	467	8:	6,943	4	12	12	2	12
Condenned, July, 1891do during the year	:- ::		- = :		;67 	:	13	4 55	l~ m	14 72	 	- 3	1-%	Ç1 ·	46 245					
Total condemned	<u> </u>		<u> </u>	<u> </u>	5	1	4	53	2	£	88	127	7	2	10%	e		و ا		
Rebuilt	:	<u>:</u>	_ <u>:</u>		2	:	4	15	2	40	 -	*	8	23	178			9	:	
] :	 	<u> </u>	1		[<u>:</u>	44	œ	97	:	:	12		113		.:			

Monoron, N.B., 30th June, 1892.

J. SUTTON, Mechanical Accountant.

B.—INTERCOLONIAL RAILWAY.

STATEMENT of Locomotive and Car Mileage for the Year ending 30th June, 1892.

	,	Locomotiv	Locomotive Mileage.			Car	Car Mileage.			
	Months.	Passenger.	Freight.	Passenger.	Express, Postal and Baggage.	Freight.	Total.	Snow Plough Mileage.	Average Passenger.	Average Freight.
1891	1891—July	147,123	254,016	549,880	275,681	3,355,880	4,181,441		2.60	13.21
	August.	142,711	266,378	555.195	268,906	3,526,831	4,350,932		22.5	13.24
	September	139,799	255,757	559, 295	265,965	3,419,984	4,245,244	343	2.30	13.37
	October	119,635	302,170	489,242	255,266	4,008,208	4,752,716	666	6.22	13.26
68	November	94,534	309,048	408,149	216,952	4,145,478	4,770,579	2,963	19.9	13.41
3	December	102,839	347,345	442,565	233,350	4,484,190	5,160,105	2,219	29.9	12.92
-2681	1892—January	104,598	279,326	417,021	215,755	3,253,947	3,886,723	7,080	6.04	11.64
	February	95,792	263,366	380,228	198,575	3,121,439	3,700,242	16,894	80.9	11.85
	March	108,726	302,708	423,519	225,822	3,828,155	4,477,496	11,545	96.9	12.64
	April	99,623	279,853	422,801	223,438	3,809,884	4,456,123	2,227	6.48	13.61
	May	98,835	250,881	391,800	222,862	3,456,652	4,071,314	1,985	6.23	13.77
	June	101,678	236,410	436,847	243,641	3,206,738	3,887,226		89.9	13.56
	Total	1,355,893	3,347,258	5,476,542	2,846,213	43,617,386	51,940,141	46,255	6.14	13.03

J. SUTTON,
Mechanical Accountant.

Increw, N.B., 30th June, 1892.

C.—INTERCOLONIAL RAILWAY.

ABSTRACT of Locomotive Returns for the Year ending 30th June, 1892.

)			Consumption	nption.			Average Co.	nsumption I	Average Consumption per 100 Miles.	
Months	Steam.	Locomotive Mileage.	Tons of Coal.	Pints of Oil.	Pints of Valve Oil and Pounds Tallow.	Pounds Waste.	Miles Run to hour in Steam.	Pounds Coal.	Pounds Coal.	Valve Oil and Pounds Tallow.	Pounds Waste.
1891- July	43,054	478,967	14,147	29,345	28,099	12,991	11.12	6,616	6.12	25.84	2.71
August	43,380	485,174	13,958	29,433	27,169	12,675	11.18	6,441	90.9	2.60	2.61
September	42,091	468,458	14,072	25,424	25,119	12,041	11 · 12	6,728	5.42	2.36	2.57
October	46,634	506,208	16,084	27,004	25,855	12,549	10.85	7,117	5.33	5.11	22
November	44,955	483,200	15,731	25,277	23,075	10,883	10.74	7,541	5.23	4.94	2.25
December	50,557	540,033	18,323	29,435	26,117	12,489	10.68	7,600	5.45	4.76	2.31
1892 - January	42,851	464,114	15,378	25,624	21,983	10,602	10.83	7,505	5.52	4.73	5.06
February	40,243	432,943	14,579	24,924	21,285	10,205	10.75	7,543	ŏ 75	4.91	2.35
March	45,247	491,288	16,497	28,718	23,377	11,639	10.85	7,521	5.84	4.75	2.36
April	42,324	456,989	14,330	26,356	22,847	10,679	10.79	7,024	22.9	4.99	2.33
May	38,744	426,514	12,990	24,605	21,900	9,056	10.11	6,822	2.76	2.11	2.33
June	36,831	408,000	11,600	23,919	21,327	9,154	11.07	6,368	2.86	2.52	2.24
Total	516,911	5,641,888	177,689	320,061	288,153	135,863	10.01	7,054	5 67	5.10	2.40

J. SUTTON, Mechanical Accountant.

Moncron, N.B., 30th June, 1892.

D.—INTERCOLONIAL RAILWAY.

STATEMENT of the cost of Locomotive Power for each month, from 1st July, 1891, to 30th June, 1892.

	Total.		7.	7.31	11.1	96.	21.01	20.66	88.	.05	.54	.55	18.8	99	20.32
.	definitab.		33 21 · 54	23 20 : 51	32 21 ·11	40 21 :96	53 21	20.	60 20 38	29.20.02	45 19 54	24 20 22	22 18 81	29 17 .66	<u>8</u> 88
miles	Water. Enghouses		52	41	- 2	72	72	75	75	38	63	28	73	- <u>æ</u>	8
Average per 100 miles	Repairs.		86	9/	22	-89	83	-5-	8	41	12	40	98	17	<u>₹</u>
e l'er	and Waste.		82.996	92.906.	85 6 27	82 6 63	02.9	80 4 . 45	793.99	87 3 . 41	833.12	82.4.54	84 3 36	833.17	.84 4.84
erag	Fuel.		§	92.	15	· · · · · · · · · · · · · · · · · · ·	- 2	23	62	6 3	98	E			
¥.	Wages.		19 4 . 92 7 . 99	23 4 22 7 76	21 4 83 8 15	20 4 · 71 8 · 66	21 4 · 83 8 · 84	21 4 73 9 22	5.029.02	5.119.29	5.04 9.26	5.11 8.73	22 5 05 8 39	23 4 · 80 7 · 66	21 4.85 8.59
	Supt., &c.		194	23.4	21,4	20.4	21 4	21.4	21.5	22.5	21.5	202	22.5	23.4	<u>12</u>
	Isoinshoolvi	cts.	65	6	- 2	35	-9-	31	9	16	14	42	67	82	
	Total.	99	103,169 65	99,527	98,918	111,219	101,563	111,580	94,625	86,842	96,025	92,441	80,231	72,054	1,148,193
	Engine- houses and Iumtables.	e cts.	1,579 55	1,261 64	1,486 72	2,015 26	2,549 39	2,727 23	2,785 14	2,545 95	2,183 62	1,109 41	912 73	1,133 87	22,230 51 1,148,190 20
	Water.	ets.	2,713 29	1,946 52	2,271 94	2,767 19	2,638 06	4,061 89	3,499 04	2,421 72	3,101 70	2,628 86	3,130 61	2,799 10	33,979 92
Remains	Engines, Tenders and Tools.	ets.	31,496 50	32,782 20	29,395 34	33,564 89	25,571 87	24,019 83	18,560 07	14,771 20	15,320 19	20,764 38	14,361 90	12,939 86	273,548 23
	Oil, Tallow and Water.	ects.	4,584 00	4,370 98	3,996 08	4,154 73	3,705 23	4,316 60	3,672 21	3,709 75	4,076 66	3,755 14	3,607 10	3,376 40	47,324 88
	Fuel.	se cts.	38,310 82	37,628 96	38,172 32	43,836 23	42,737 04	49,800 78	41,858 18	40,322 68	45,536 91	39,898 36	35,761 45	31,260 14	485,123 87
	Engine- men's Wages.	e cts.	23,557 23	20,438 58	22,617 72	23,851 68	23,342 48	25,545 69	23,286 00	22,108 59	24,753 51	23,330 58	21,516 75	19,597 30	273,946 11
	Mechani- cal Supt.'s Salary and Office Expenses.	ects.	928 26	1,099 03	978 31	1,029 60	1,018 98	1,108 29	964 42	962 27	1,052 55	954 69	941 13	948 15	11,985 68
	Miles run by Engines.		478,967	485,174	468,458	506,208	483,200	540,033	464,114	432,943	491,288	456,989	426,514	408,000	5,641,888
	Months.		1891-July.	Aug	Sept.	Oct	. Nov	Dec	1892—Jan	Feb	Mar	April.	May.	June	Total

J. SUTTON,

Mechanical Accountant.

Moncron, N.B., 30th June, 1892.

E.—INTERCOLONIAL RAILWAY.

General Statement of the Expenses of the Mechanical Department, for the Year ended 30th June, 1892.

				ALEXANDER AND AND AND AND AND AND AND AND AND AND	
The miles run	by trains				4,703,151
do	engines				5,641,888
do	ears				51,940,141
do	snow ploughs				46,255
The cost of lo	comotive power				\$ ets. 1,148,199 20
The cost of ca	ar repairs :			•	
Repairs t	o passenger cars				89,811 00
do	postal, express a	nd baggage ca	rs		24,656 74
do	freight cars and	vans			210,149 12
Oil and w	vaste for packing.				8,297 98
Miscellar	neous				25,643 02
	Total cost of	car expenses			358,557 86
The cost of lo	comotive power p	er 100 miles ru	n by trains		24 41
do	do	do	engines		20 33
do	do	do	cars		2 21
The cost of r	epairs to cars and	ploughs per 10	0 miles run by tr	ains	7 09
do	d	o	engines		5 91
do	d	o	cars		0 64
The cost of o	il and waste for p	acking per 100	miles run by tr	ains	0 54
do	do	de	o er	ngines	0 45
do	do	do) Ca	ars and ploughs	0 04
The cost of r	epairs to cars per	100 miles run l	by them:		
do			•		1 64
do		•	•	by them	į
do		ars and vans	do		1
	Ü	and flangers			17 93

J. SUTTON.

Mechanical Accountant.

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 of Driver.	No. of Engine.
189	1.						
July do do do do	2 2 4 6 8	8.30 10.00 5.00 10.00 5.00	Special .	Freight	J. B. Crockett T. Bellemare.	J. Phinney Jas. Sproull J. Gilfillan. Geo. Findlay J. Phinney	124 88 30 193 124
do	9	9.30	i	Freight	W. Welling	F. W. Welling.	30
do	10	19.20	do	do	T. C. Ayer	S. W. Carson A. Fryers	178 33
do	17	9.00		Shunting		J. Cole	18
do	18						
do	20	15.30	Quasial	W1-:	117 TA TA	T TT	
do	24	15.20	25	Express	W. F. Ferguson W. Gunn	R. McDonald	40 198
do do	27 27	10.12 13.30	59 31	Accommodation Express	E. S. Vye	F. H. Moore	70 74
Aug.	7	14.08	Special.	Working	W. W. Gordon	Geo. Anderson	32
do	8		76	Freight	M. Cummings	W. Gross.	182
do	12	9.45	33	Express	M. Letarte	E. Parsons	157
do	12	11.00	83	Accommodation	Jno. Casey	W. F. Hicks	52
do	12	16.20	Special.	Freight	W. Bovard	Geo. Spears	160
do do do do	13 14 20 21	16.00 18.00 9.30	do	do	W. F. Ferguson McKinnon	L. King	181 167 190
do	27	8.00	16	Freight	W. J. Dickson	Geo. Feetham	136
do Sept. do		7.30 5.00 5.10	Special . 34 104	Express	J. B. Crockett A. McLellan Geo. C. Keys	A. Donald	117 150 72
$\mathbf{d}\mathbf{o}$	4	7.00	34	Express	Jno. Coffey	Jno. Nairn	197
do do	14 17	2.00	Special.	Freight	F. Guinan	J. G. McDonald	125
do	17	15.00	Special.	Working	C. Beswhanger	B. Titus	19
do	18	18.12			Geo. McGinn	N. Copeland	112
do do	$egin{array}{c} 22 \dots \ 22 \dots \end{array}$	7.00 3.45	42 Special.	do do	Geo. Couchy	J. Cloutier	134 85
do Oct.	29 2	19.35 8.55	do	Working	Louis Belanger	A. Connell D. Duncan	176 56
do do	9 24	23.30 5.20	67	ShuntingFreight	A. B. Vance	M. O'Brien Ben. Cook	99 113

RAILWAY. Line of the Intercolonial Railway during the Year ended 30th June, 1892.

Place of Accident.	Name of Person injured.	Whether Passenger or Employee.	Particulars of Accident.	Extent of Injury.	Verdict of Coroner's Jury.
Stellarton	Samuel Gray	do	While coupling do	Foot injured	
St. John	Jos. Stockford	do	While oiling engine	do	
Truro	V. Delisle Jno. Glenfield	do	Stepped off engine while in motion.	Foot sprained	
Amherst	E. Esterbrooks	d o	While coupling	Thumb injured	
Newcastle	T. C. Ayer	do	Fell while getting on train.	Shoulder injured	
Moneton	OnésimeBourque	do	Car under which he was working, collided by shunter.		
obester			Found alongside of track		ŀ
Near Charlo Truro	(Deaf and	Employee Neither	While loading rails	Hand smashed Slightly injured.	
Derby Junction. Pointe du Chêne.	dumb Indian). Robt. Swetman. Dan. McNevin.	Employee Passenger	While shunting	Foot amputated. Hip dislocated	
Harbour au Bouche.	Samuel Gray	Employee	While coupling	Hand injured	
Moneton	Jno. Budd	do	Jumped off train while in	Face scratched	
Near St. Roch	Christine Four- nier.	Neither	motion. Walking on track	Fatal	No inquest.
(R. Donnelly Miss Letellier	do	Crossing track in wagon do do	Slightly injured.	
Campbellton	-Vermette,6 yrs Lacasse, girl 12 "	do	do do do do do do	do do Eye do Arm do Head do [en	
Tanana Dina	" boy 8"	do	do do do do While loading lumber	Collar-bone brok-	
Near Iona	John McNeil	do	Fell off train	Fatal	Accidental.
Moncton	John McNeil Angus Cormier Wel'gton Linden	do	While coupling	Slightlysqueezed	
Brookfield	Jacob Harvey	do	Attempting to go between cars.	Foot injured	
Near Sussex Moncton	Jude Legère Ed. Breau J. T. McDonald	Employee	While taking cable off car While uncoupling hose Fell while getting off car	do Hand injured Wrist sprained	
Junction.			Struck by engine while driv-		
Riversdale Salt Springs	Jno. Spain O. C. Cummings	Neither	ing cow off track. Fell off train Found dead on track, supposed to have been struck	Fatal	Accidental.
Junction.		Employee	Knocked off car by cable	Arm broken	
Red Pine River du Loup	Edgar Steeves Wilfred Soucy	do	Slipped off pilot of engine. While coupling	Hand crushed	
Sayabec Valley	Ant. Berubé — Sutherland	Employee Neither	While coupling	Finger crushed.	1
		Employee .	While coupling		

INTERCOLONIAL

Return of Accidents and Casualties which have occurred in Canada

Da	te.	Time of Day.	No. of Train.	Description of Train.	Name of Conductor.	Name of Driver.	No. of Engine.
189	92.						
Oct.	29	10.25	50	Accommodation	Jos. Guay	W. Brock	141
do	31	4.15	45	do	X. Langlais	Geo. Morrison	38
do			Special.	Freight	J. L. Hébert	Jas. Fohy	
do do	31 31	$12.30 \\ 13.30$		do		J. Walsh	93 98
Nov. do	3 4	$\frac{21.20}{19.20}$	74	do	Jas. McDonald	J. Leonard	$\begin{array}{c} 95 \\ 105 \end{array}$
				-			100
do do	7 13	$12.00 \\ 4.50$	40	Shunting	W. M. Thompson	J. Cole	$\begin{array}{c} 18 \\ 203 \end{array}$
do	13.	14.55	74	Accommodation	James McDonald	A. Scott	27
do do	16 21	$\frac{7.45}{20.30}$	6	Freight	Jno. Hughes	S. Wilson	24 48
do do	30	$10.00 \\ 16.10$	Special.	W. & A. Kailway.	J. L. Chisholm	R. Stewart	6 160
Dec.	2 2	18.00 21.00	do	do	W. L. Broad	P McKenna	209 18
do do	2 3	21.30 21.00	15 Special.	Freight	Geo. Margeson. Geo. Keys.	J. G. McDonald	175 175
do	5	1.30	do		A. Gamache		176
do	9	7.33	2	!	G. H. Trueman		148
do	10	1.00		Shunting		E. Stockall	87
do do	14 18	14.00 7.15	Special.	Freight	J. BuchananJ. R. Fisher.	H. Stewart	5 171
do	18	15.45	do	1	R. A. McDonald		186
do	21	15.00				1	44 87
do do	25 28	14.00 11.30	24 Special .	Freight	W. McDermott	N. Sinclair	79 197
do	28	21.00		Shunting		G. Currie	93
18	92.						
Jan.	11	7.10	21	Accommodation	D. McIntosh	Jno. Campbell	14
do	21	9.10	Special.	Snow-plough	L. N. Letarte	Jos. Collett.	76
Feb.	5	7.30	do		W. W. Irving	1	26
do	13	14.45	do	1			6
do	13	23 45	46		M. Audet	J. Hackett	40 181
do	17	9.40		Shunting		J. Walsh	128
do	18	17.40	81	13	Q 77 1	W. Lovett	68

RAILWAY.

on the Line of the Intercolonial Railway, &c .- Continued.

Place of Accident.	Name of Person injured.	Whether Passenger or Employee.	Particulars of Accident.	Extent of Injury.	Verdict of Coroner's Jury.
•					
Junction.			Jumped off train while in motion.		ł
Ste. Luce			No. 45 and special trains	iured.	Į.
do	Alph. Berubé	do	do do Deal falling off car While coupling	Slightly injured.	/
Richmond	John Munroe	do	Deal falling off car	Head injured	
do Truro	L. Bezanson	do	While coupling	Hand injured	
Truro	Fred. Fowlie	do	do	do	
Scotsburn	Jno. Carmichael	do	While coupling	Fatal	Accidental.
Moneton Chatham June	N. Stableford	do do	fell between train and platform. While coupling do Walking alongside of track.	Hand injured	
Oxford	Jno. Mockler	Neither	Walking alongside of track.	Slightly injured.	
Campbellton	A. Dickie	Employee	Stepping off van	Ankle sprained.	
Salisbury	Walter Clark	do	While coupling	Hand injured	
Halifax	David Kennedy.	Neither	Crossing track with team .	Fatal	Accidental.
Spring Hill June Meneton	George Mills H. S. Cutten	do do	motion. While coupling While going to engine,	Slightly injured. Ankle sprained.	
Londonderry	A. Philips	do	stepped on edge of rail. While couplingSlipped while stepping on	Hand jammed	
Ste Flavie	Jos Poirier	do	engine. Fell off train while in	Leg amoutated.	
			motion. Jumped off train while in		
-		1	motion.		1
Stowie also	Thos. Fenerty	Employee .	While coupling	do	
Brookfield	A. Langille	do	doLink falling off tender of	Head injured	
		i	anonna	1	
			While crossing track in team.		
,			Cars shunted against one on which he was working, knocking him off.	•	
Oxford Junction	W. H. Manship.	Employee	While coupling	Hand injured	.]
Truro	J. H. Richardson	do	While coupling, foot caught between platform and	Foot amputated	
Richmond shop	Hy. Colter	do	rails. Caught between car and old engine standing in shop.	Fatal	Accidental.
Stellarton	B. D. Rogers	Neither	While crossing track in	Slightly injured	
	Jos. Bacon	do	team. Walking on track	do .	
Lévis. Newcastle	W. W. Irving	Employee .	While coupling, wood fel	Foot and back injured.	K
2 miles west of Newcastle.	H. Thomson	do	Chain broke in wing plough		
Near St. Morae	Nap. Levesque.	do	While coupling	Slightlysqueeze	d
Richmond	Abram Rumbol	Neither	Cars colliding with the one in which he was loading	e Seriously injure	d
Rocking ham	Wm. Parks	do	sugar. Attempting to get on No. 9- train, slipped and struct by engine.		

75

do 29.

6.00

56

do

INTERCOLONIAL

RETURN of Accidents and Casualties which have occurred in Canada

No. of Engine. Time No. Description Date. of of of Name of Conductor. Name of Driver. Day. Train. Train. 1892. Feb. 20.. 19.30 46 Accommodation... M. Audet A. J. Sharpe..... 139 J. B. Paulet.... 21. 17.55 Special. Mail do 162 Mar. 37 Freight E. L. Watts.... C. Langley..... D. Sullivan.... 25 do 13.. Shunting 94 O. Brock..... 17 L. Proulx... do 20... 13.10 | F. Cloutier. 111 do 24.. 10.00 26.. do 10.30 D. Peterson.... 210 Shunting Jas. McDermott... April 1.. 11.00 18 T. W. Johnson do 1. . 17.30 Special. Freight C. Saunders.... 49 5.. 7.45 do 34 Express ... Y. C. Campbell...... J. B. Dubé..... H. McAuley.... 199 22.35 45 J. McNutt.... do 5.. Accommodation... 185 do 9.. 15.30Special. Freight. Geo. Couchy... E. Ouellett. 195 do 15.. 16.45 do .. do E. L. Watts.... S. W. Carson..... 47 do 22. 15 45 do J. B. Pollock... H. Stewart. 126 **23**.. 18.40 do D. Youlds.:..... J. H. Campbell..... Geo. W. Anderson.... do F. Brown..... $\begin{array}{c} 172 \\ 107 \end{array}$ do 12.15 23.. May 28 Accommodation. . . A. Grant. **24** . . do 12,50 Special. Freight R. A. McDonald..... 52 do 26. 19.17 Express A. Rainnie..... Jno. Stewart 36 2. J. B. Crockett A. C. McLean E. Rioux June 8.25 Special. Freight E. Rushton.... 91 2.. 18.15 D. McLennan.... do 104 do 24 12. . T. Matheson do 20.00Special. do 40 do 21. 15.20 W. W. Gordon A. Sproull 124 do 24. 10.45 37 do M. Cummings..... E. S. White..... 25

Jas. Holmes.....

A. Dunbar.....

13

RAILWAY.

on the Line of the Intercolonial Railway, &c.—Concluded.

			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	
Place of Accident.	Name of Person injured.	Whether Passenger or Employee.	Particulars of Accident,	Extent of Injury.	Verdict of Coroner's Jury.
Ste. Flavie. 6 miles west of Mill Stream. Harcourt	W. Bastien H. Sharpe J. H. Haines	Employee do do	While coupling	Slightly injured. do Finger smashed.	Accidental.
Campbellton i mile east of Lévis. Halifay	Marie Forgues	do Neither	Fell off tender of engine While walking on track While unloading an anchor,	Fatal	Accidental.
Stellarton	1	do	hand caught in crane. While coupling	Finger amputated.	1
Near Belmont	T. W. Johnson .	do	checking cars. Fell out side door of van,	do	
Mill Stream Point Lévis	Chas. Audet Godfrey Bontin	do Neither	While loading baggage. Fell off train while slacking brake. Attempting to get on train.	Considerably in- jured. Leg broken	
Newcastle	G. Herbert A. G. Cormier	Employee	While cleaning window of engine cab.	Leg injured	
Pictou New Glasgow Jardine's Bridge,	Jno. Avery,4 yrs Jno. McNeil Thos. Hunter	Neither	Crossing track	Slightly injured.	Accidental.
near St. John. Spring Hill June Sydney Rimouski	Jas. Melanson	Employee do do	Lump of coal falling on hand While shunting While feeling eccentric,	Fingers smashed Foot injured	
1 mile east of Hopewell.	C. Sullivan	Neither	Lying alongside of track (intoxicated).	Slightly injured.	
•			While closing door of car, train started. Fell off van		

WINDSOR BRANCH RAILWAY.

OFFICE OF THE CHIEF SUPERINTENDENT, Moncton, N.B., 27th September, 1892.

SIR.—I have the honour to submit the following statements showing the results of the working of the Windsor Branch Railway, for the year which ended the 30th June, 1892:-

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 per-

manent way and works.

This line, 32 miles in length, was operated during the year by the Windsor and Annapolis 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 an increase in the earnings accruing to the Government, when com-

pared with last year, as follows:—

In 1891-92		
	\$3,273	72
The expenses of maintenance were considerably less than	last year	:
In 1890-91		
	\$9,417	34
The earnings and expenses compare as follows:-		
Earnings	\$33,508	85
Expenses		
	\$ 13,99 4	48

The necessary repairs and renewals were made and some improvements, including, among others, the laying of a siding, four hundred feet long, at Newport. The permanent way and works are in good order.

> I have the honour to be, sir, Your obedient servant,

> > D. POTTINGER, Chief Superintendent.

COLLINGWOOD SCHREIBER, Esq., Chief Engineer and General Manager, Government Railways, Ottawa.

DR.	REVENUE AC	REVENUE ACCOUNT, Year ending 30th June, 1892.	ending 30th	June, 1892.	Ca.
Previous Year.	Ехрепditure.	Year ending 30th June, 1892.	Previous Year.	Receipts and Barnings.	Amount, Year ending 30th June, 1892.
\$ cts.	\$ cts. 28,931 71 Maintenance of way and works, Abstract No. 1	\$ cts.	\$ cts. 10,746 38 18,336 91 1,151 84	\$ cts. 10,746 38 Passenger traffic 18,336 91 Freight traffic 1,151 84 Mails	\$ cts. 12,187 76 20,165 57 1,155 52
1,303 42	1,303 42 Balance	13,994 48			
30,235 13		33,508 85	30,235 13		33,508 85
Certifie	Certified correct,			R. B. BOGGS,	
	T. WILLIAMS, Chief Acct. and Treas., I. C. R.			Acet., W. B. Ry.	B. Ry.
Moncre	Moncron, N.B., 30th June, 1892.				

No. 1.—WINDSOR BRANCH RAILWAY.

Sessional Papers (No. 9.)

No. 2.—WINDSOR BRANCH RAILWAY.

MAINTENANCE of Way and Works.

Previous Year.	Particulars.	Amount	; .
\$ cts.		\$	cts
12,642 04	Repairs to track	11,284	50
4,052 02	Rails and fastenings.	1,395	38
3,529 30	Ties	3,709	10
5,422 36	Bridges	456	13
3 00	Signals	· · · · · · · · · · · · · · · · · · ·	
12 60	Switch locks	12	60
467 49	Culverts and cattle-guards	124	53
	Wharf at Windsor	5	10
463 09	Buildings and platforms	241	90
27 45	Hand cars and trollies	2	10
134 95	Snow ploughs and flangers	203	52
173 31	Tools and repairs	200	45
850 59	Fencing	690	23
1,104 72	Accountant's office and expenses.	1,111	49
48 79	Miscellaneous	77	34
28,931 71		19,514	37

R. B. BOGGS, Acct., W. B. Ry.

Certified correct,

T. WILLIAMS, Chief Acct. and Treasurer, I.C.R. MONCTON, N. B., 30th June, 1892.

No. 3.—WINDSOR BRANCH RAILWAY.

MONTHLY STATEMENT of Receipts-One-third Earnings.

Month.	Passengers.	Freight.	Mails.	Totals.
	\$ cts.	\$ ets.	\$ cts.	\$ ets.
1891—July	1,169 84	96 91	1,383 72	2,650 47
August	1,714 82	96 91	1,345 56	3,157 29
September	1,993 35	96 90	2,078 38	4,168 63
October	1,026 61	96 91	2,413 29	3,536 81
November	825 02	96 91	2,086 79	3,008 72
December	902 42	96 90	1,830 99	2,830 31
1892—January	637 43	95 68	1,292 50	2,025 61
February	678 26	95 68	1,248 07	2,022 01
March	664 22	95 68	1,733 97	2,493 87
April	796-54	95 68	1,609 01	2,501 23
May	806 14	95 68	1,496 81	2,398 63
June	973 11	95 68	1,646 48	2,715 27
•	12,187 76	1,155 52	20,165 57	33,508 85

R. B. BOGGS, Acct., W. B. Ry.

Certified correct, T. WILLIAMS,

Chief Acct. and Treasurer, I. C. R. Moncton, N.B., 30th June, 1892.

Intercolonial Railway, Chief Engineer's Office.

27th September, 1892.

SIR,—I have the honour to submit the following report for the maintenance of the Windsor Branch for the year ending 30th June, 1892.

TRACK.

The mileage remains the same as last year. Seven miles of the iron rails in track which were badly worn, were replaced with new 4½ steel rails with angle fishplate joints.

BALLASTING.

During the year, 7,320 cubic yards of ballast were put on the branch.

TIES.

During the year, 19,137 ordinary ties, and seven sets of switch ties, have been renewed.

SIDINGS.

A siding 400 feet long was put in at Newport for the Plaster Company. The sidings at Hibbert's and Fenerty's were relaid with the old iron rails taken out of the main line.

FENCING.

During the year, 500 rods of barbed wire and woven wire fencing have been erected, and large repairs made to the old fence.

BUILDINGS AND PLATFORMS.

At Windsor Junction a portion of the platform was renewed, and the freight house repaired.

At Mount Uniacke the station building was painted.

At Ellershouse necessary repairs were made to the doors and windows of station, and the building painted.

At Newport the station building was overhauled, repaired and painted.

At Windsor necessary repairs were made to the station building, and the roof was recovered with metallic shingles and painted. The engine-house roof was overhauled and repaired, necessary repairs were also made to the doors and windows of same.

One cattle-guard was also renewed.

At South Uniacke the cattle-guards were renewed.

BRIDGES AND CULVERTS.

Three piers of Jordan bridge were strapped with old rails and iron screw rods fitted with turnbuckles.

Bulkheads of timber were built at the ends of abutments of Big Bog bridge to

retain embankments.

The masonry of Sackville, Big Bog and Ste. Croix bridges was overhauled and pointed.

A new top of Georgia pine was put on Carrel's bridge, and iron guard rails provided.

Two cedar culverts 3 by 4 were put in at Fenerty's siding.

At Ellershouse a cedar culvert 3 by 4 was put in.

A cedar culvert 3 by 4 was also put in west of Ellershouse station.

I have the honour to be, sir, Your obedient servant,

P. S. ARCHIBALD,

Chief Engineer.

D. POTTINGER, Esq.,

Chief Superintendent, Intercolonial Railway, Moncton, N.B.

PRINCE EDWARD ISLAND RAILWAY.

SUPERINTENDENT'S OFFICE.

CHARLOTTETOWN, P.E.I., 26th August, 1892.

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, 1892.

I also inclose the following statements prepared by the accountant and

auditor :---

- No. 1. Capital account.
 - 2. Revenue account.

3. Locomotive power.	(Abstract No. 1.)
4. Car expenses.	(do 2.	•
5. Maintenance of way and works.	(do 3.	Ś
6. Station expenses.	(do 4.	_
7. General charges.	(do 5.	_

- 8. Statement of general stores account.
- 9. General balance.
- 10. Comparative statement of averages.

CAPITAL ACCOUNT.

The total expenditure on capital account to 30th June, 1891, was	\$ 3,7 4 1,780 89
The additions during the year are as follows:— Removal of Summerside Station	40,141,100 00
Expropriation of land from R. McMillan 3,305 07	8,300 49
Total expenditure on capital account to 30th June, 1892	\$ 3,750,081 38

Removal of Summerside Station.—This is the cost of moving the station from the wharf to Water street, and moving the freight shed one hundred feet east.

Expropriation of land from R. McMillan.—This is a payment for land expropriated and legal expenses, in connection with the extension of the track to the Charlottetown Steam Navigation Company's wharf at Charlottetown.

REVENUE ACCOUNT.

The gross earnings for the year amounted to Previous year	\$157,442 69 174,258 05	
Decrease	\$ 16,815 36	
The earnings per mile of railway compare with the previous y	rear as follows:-	_
1890–91	\$829 80	
1891–92		
A decrease per mile of	\$ 80 08	

The length of road operated in each year was the same, namely, 210 miles. Since the opening of navigation this spring, traffic has been unusually dull, owing to the poor market for the staple farm products; also the increased competition by water against which we have to contend this year. Nearly \$10,000 of the shortage in this year's receipts is due to the late closing and early opening of navigation, the steamers "Stanley" and "Northumberland" taking large quantities of freight and numbers of passengers to and from Charlottetown and Pictou direct, which, had the winter been an ordinary one, would have passed over the road to and from Georgetown.

STATEMENT.

DI.	ATEMENT.		
		ers carried.	Earnings.
1890–91		5,508	\$72,2 92 2 3
1891–92	139	9,389	70,959 21
Decrease		6,119	\$1,333 02
	Tons of freig	ght carried.	Earnings.
1890–91	59	9,511	\$ 81,660 8 2
1891–92	5	1,065	69,983 23
Decrease		3,446	\$11,677 59
Mails and sundries, 1890-91			\$20,305 00
do 1891–92		• • • • • • • • • • • • • • • • • • • •	16,500 25
Decrease		••••	\$3,804 75
The engine mileage compared wit	th last vear	was:	
1890-91			335,202
1891–92			
Decrease	••• •••••	• • • • • • • • • • • • • • • • • • • •	27,781
The train mileage as compared w 1890-91		••••••	
Decrease	• - • • • • • • • • • • • • • • • • • •		27,373
The car mileage as compared with			,
1890-91			1,420,425
1891–92			
Decrease			115,766
Ex	PENDITURE.		-
The working expenses as compare		t year were a	s follows:—
	Renewals.	•	
Ordinary.	Rails and Fastenings.	Rolling Stock.	Total.
1890-91\$257,039 13	r ascennigs.	\$ 9 5 0 9 5	\$ 257,990 08
	\$ 36,175 19	560 82	289,706 38
	\$ 36,175 19	\$390 13	\$ 37,716 30
Included in the above ordinary e		are the follo	,
there are in the above ordinary e	Thomatare	a. 0 1010 10110	armoning tot
Harper's bridge			\$1.155 74

new wor

Harper's bridge	\$1.155	74
Pig Brook bridge	2,353	08
Moore's bridge	264	
Blushank bridge	255	40
Baldwin's bridge	470	79
Total new works	\$ 4,499	69

TRACK.

The mileage remains the same as last year—125 miles laid with iron rails, and 85 miles laid with steel rails.

During the year 11½ miles iron rails were replaced with steel rails weighing 50

lbs. to the yard.

TIES.

During the year 77,052 ties, 36 sets switch ties, and 22 head-blocks were renewed.

BALLASTING.

During the year about 7,098 cubic yards of ballast were distributed.

FENCING.

Twenty-six miles of new barbed and woven wire, and 3,330 feet wire and picket fence were erected during the year to replace old fence burnt and worn out.

SNOW FENCE.

Eleven thousand six hundred and fifty-six feet of new snow fence was built, and 18,936 feet was renewed during the year.

WHARVES.

At Summerside some floor timbers, fenders, and 275 feet of the planking were renewed.

At Souris the wharf was ballasted with brush and stone, and track repaired.

At Charlottetown the wharf and breastwork were ballasted with brush and stone.

At Georgetown the wharf was ballasted with stone; 20 fenders and one mooring post renewed.

BUILDINGS AND PLATFORMS.

At Conway the flag-station was rebuilt and platform renewed.

At Elmsdale the flag-station was rebuilt and platform renewed.

At O'Leary new sills were put under coal-shed.

At Summerside the station building was moved from the wharf to Water street, placed on a new foundation, thoroughly overhauled, repaired, and the interior and exterior painted. The freight shed moved 100 feet east, placed on a new foundation, repaired and painted. Freight shed on wharf raised two feet, floor timbers and flooring renewed.

At Mount Stewart the gravel roof on station was renewed.

At Georgetown the station was painted, and roof on baggage-room was renewed.

At Perth the flag-station was rebuilt, painted, and platform renewed.

At St. Andrew's the flag-station was rebuilt and platform renewed.

At Douglass the flag-station was rebuilt.

The pits in the engine-houses at Mount Stewart and Georgetown were rebuilt.

BRIDGES, CULVERTS, &c.

At Harper's bridge the top was renewed with pitch pine.

At Pig Brook bridge the stone abutments were completed, and top renewed with a 66-foot iron girder.

At Mount Stewart bridge 32 floor timbers were renewed, and abutments pointed

with cement.

At St. Peter's bridge 30 angle braces, 14 straining blocks and 4 struts were renewed.

At Morell bridge the foundation at the east end, stringers and ties renewed.

At Scrimegeour's bridge the top was renewed.

At Taylor's bridge the top was renewed.

Twelve timber culverts rebuilt.

Two stone culverts rebuilt.

Two culverts renewed with 12-inch iron pipe.

Stone culverts at Winter River and Union repaired and pointed with cement.

Twenty-seven cattle-guards rebuilt.

Extensive repairs were made to the embankments at Morell, Marie and Midgell bridges, 4,000 cubic yards rip-rap being used for this work.

STORES.

The purchase of stores during the year amounted to \$99,362.51. The value of stores on hand to 30th June, 1892, was:—

General stores Coal Old rails and fastenings. Old material serviceable.	10,241 9.367	11 36
	\$ 98,358	49

The stores for the most part have been purchased by tender and contracts, which follows out the practice of previous years.

I inclose a return of accidents and casualties which have occurred on the rail-

way during the year.

I am pleased to say that the road-bed, buildings and rolling stock are in good condition.

I have the honour to be, sir, Your obedient servant,

J. UNSWORTH,
Superintendent and Mechanical Superintendent.

Collingwood Schreiber, Esq., Chief Engineer and General Manager Government Railways, Ottawa.

No. 1.—PRINCE EDWARD ISLAND RAILWAY.

Dr.		CAPITA	L.	Account.				CR.	
1892.	To cost of road and equipment to date	\$ 3,741,780	ets. 89	1891. June 30 1892. June 30	By Domin	nion of Ca do	anada	\$ 3,741,780 8,300	
•		8,300	49]		
	•	3,750,081	38					3,750,081	38

W. T. HUGGAN,

Accountant and Auditor.

CHARLOTTETOWN, P.E.I., 30th June, 1892.

No. 2.—PRINCE EDWARD ISLAND RAILWAY.

REVENUE Account for Year ended 30th June, 1892.

Previous Year.	Expenditure.	Year ended 30th June, 1892.				evious Receipts		ded ne,
\$ cts.		*	cts.	*	cts.		\$	cts.
64,158 96	Locomotive power, per Abstract No. 1	66,772	70	72,292 81,660		Passenger traffic	70,959 69,983	
37,696 58	Car expenses, per Abstract No. 2.		.	20,305		Mails and sundries	16,500	
115,195 66	Maintenance of way and works, per Abstract No. 3	,		174,258 83,732		Total receipt	157,442 132,263	
29,551 09	Station expenses, per Abstract No. 4.	28,370	[52,102				
11,387 79	General charges, per Abstract No. 5	11,896						
257,990 08	Totals	289,706	38	257,990	08	Totals	289,706	38

W. T. HUGGAN,

Accountant and Auditor.

No. 3.—PRINCE EDWARD ISLAND RAILWAY.

LOCOMOTIVE POWER—(Abstract No. 1).

Previous Year.	Details.	Year en 30th Ju 1892.	
\$ cts.		*	cts.
1,412 16	Mechanical superintendent's salary, clerks, office and travelling expenses	1,414	05
17,481 16	Wages of drivers, firemen and cleaners	16,383	50
14,905 62	Fuel.	15,303	77
2,599 97	Oil, tallow, waste and small stores.	2,735	05
24,524 71	Repairs to engines, tenders and engine tools	28,237	17
1,139 06	Water, including pump and tank repairs.	718	35
2,096 28	Miscellaneous	1,980	90
64,158 96	Totals	66,772	79

W. T. HUGGAN,
Accountant and Auditor.

CHARLOTTETOWN, P.E.I., 30th June, 1892.

No. 4.—PRINCE EDWARD ISLAND RAILWAY.

CAR EXPENSES—(Abstract No. 2).

Previous Year.	Details.					
\$ cts.		\$ ct	ts.			
10,648 03	Repairs to passenger cars	9,129	84			
1,546 58	do postal and baggage cars	1,507	95			
5,302 64	do freight cars and vans	6,089	83			
15,470 95	Wages of conductors, train baggagemasters and brakemen	14,140	82			
535 03	Oil and waste for packing	558	27			
3,270 96	Small stores and fuel	2,979	37			
922 39	Miscellaneous	798	79			
37,696 58	Totals	35,204	 87			

W. T. HUGGAN,
Accountant and Auditor.

No. 5.—PRINCE EDWARD ISLAND RAILWAY.

MAINTENANCE of Way and Works-(Abstract No.3).

Previous Details. Year.		Year ended 30th June, 1892.
\$ ets.		\$ cts.
419 21	Engineer's salary, clerks, office and travelling expenses	369 96
48,543 46	Wages in repairing roadway, fences and semaphores	42,844 87
3,497 12	Rails, chairs and spikes	39,570 55
	Ties	26,383 12
13,984 56	Timber and lumber for repairs to bridges, cattle-guards, fences, &c	22,880 32
3,146 41	Repairs to wharves	2,635 81
7,562 83	do buildings and platforms	7,758 87
2,894 10	do snow-ploughs, flangers and tools.	4,067 36
9,702 87	Clearing ice and snow	950 67
115,195 66	Totals	147,461 53

W. T. HUGGAN,
Accountant and Auditor.

CHARLOTTETOWN, P.E.I., 30th June, 1892.

No. 6.—PRINCE EDWARD ISLAND RAILWAY.

STATION EXPENSES—(Abstract No. 4).

Previous Year.	Details.			
\$ cts.	` .	\$ cts.		
21,073 19	Salaries and wages of stationmasters, agents, clerks, telegraph operators, station baggagemen, yardmasters, switchmen, watchmen and labourers.	20,075 83		
8,477 90	Fuel, oil, light, stationery, tickets and other incidental expenses	8,294 44		
••••	Miscellaneous			
29,551 09	Totals	28,370 27		

W. T. HUGGAN,
Accountant and Auditor.

No. 7.—PRINCE EDWARD ISLAND RAILWAY.

GENERAL CHARGES—(Abstract No. 5).

Previous Year.	Details.			
\$ cts.		\$	cts	
4,3 08 4 9	Superintendent's and train despatchers' salaries, clerks, office and travelling expenses	4,115	04	
5,269 99	Accountant and auditor's, paymaster's and cashier's salaries, clerks, office and travelling expenses.	5,441	.17	
849 85	Advertising	817	32	
84 46	Damages to men, animals and goods	171	97	
375 47	Telegraph expenses (not including pay to operators)	390	23	
499 53	Miscellaneous	961	19	
11,387 79	Totals	11,896	92	

W. T. HUGGAN,
Accountant and Auditor.

CHARLOTTETOWN, P.E.I., 30th June, 1892.

No. 8.—PRINCE EDWARD ISLAND RAILWAY.

STATEMENT of General Stores Account, Year ended 30th June, 1892.

1891.	Dr.	\$ cts.	\$ cts.
June 30	To Balance brought forward		142,107 41
1892.			
June 30,	To Purchase during the year, including rails. Charges from other departments Pay-rolls.	9,936 51 7,302 45 2,520 60	109,185 56
1892.	Cr.		251,292 97
June 30	By Issues during the year		152,934 48
	Balance		98,358 49

W. T. HUGGAN,
Accountant and Auditor.

Department of Railways and Canals. No. 9.—PRINCE EDWARD ISLAND COMPANY.

Dr.	GENERAL	BALANCE.	Cr.
	\$ cts.		\$ cts.
General stores	98,358 49	Dominion account	99,301 20
Cash	4,281 26	Accident insurance	5,173 91
Stations.	662 56		
Militia Department	195 94		
Anglo-American Telegraph Co	46 43		
Judge Weatherbee	30 00		
Sidney Gray	25 00		
Railway Extension, Charlottetown	812 83		
Intercolonial Railway	62 60		
Total	104,475 11	Total	104,475 11

W. T. HUGGAN,
Accountant and Auditor.

No. 10.—PRINCE EDWARD ISLAND RAILWAY.

COMPARATIVE STATEMENT of Averages for Year ended 30th June, 1892.

Details.	1892.	1891.
Mileage of railway open. Engine mileage. Irain do Car do	210 307,421 245,102 1,304,659	210 335,202 272,475 1,420,425
Receipts per engine mile	51·21 749·72	51 ·99 829 ·80
Percentage of passenger earnings to gross receipts	45.07 44.45 10.48	41:49 46:86 11:65
Expenses per engine mile— Drivers, firemen and cleaners' wages. Fuel. Oil, tallow, waste, and small stores. Repairs to engines. Water and tank repairs. Miscellaneous	5:33 4:98 0:89 9:19 0:23 0:64	5·21 4·45 0·78 7·32 0·34 0·65
Mechanical superintendent's salary, office and travelling expenses.	21·26 0·46	18:75 0:45
TotalCents.	21:72	19:1
Locomotive power per engine mile Car expenses do Maintenance of way and works do Station expenses do General charges.	21·72 11·45 47·97 9·23 3·87	19:14 11:25 34:37 8:81 3:40
Total per engine mile	94.24	76:97
Locomotive power per train mile	27 ·24 14 ·36 60 ·16	23.55 13.83 42.28 10.8
Car expenses do Maintenance of way and works do Station expenses do General charges do	11.58 4.85	4.1
Car expenses do		$\frac{4.1}{94.0}$

W. T. HUGGAN,
Accountant and Auditor.

PRINCE EDWARD ISLAND RAILWAY.

MECHANICAL SUPERINTENDENT'S OFFICE, CHARLOTTETOWN, 18th August, 1892.

Sir,—I beg to submit for your information the following statements showing the operations of the Mechanical Department of this railway, for the fiscal year ending 30th June, 1892:—

A.—Monthly statement of the cost of locomotive power.

B.—Statement of the performance and consumption of locomotives.

C.—Monthly statement of car mileage.

D.—Statement showing the number of locomotives, cars, snow-ploughs and flangers.

E.—Comparative statement of the expenses of the Mechanical Department for

the years 1890-91 and 1891-92.

Two new fire-boxes, 2 new cabs, 2 new smoke boxes, 20 driving tires, 4 new tube sheets, 3 sets new tubes, 2 new tender frames and 4 new tender trucks have been supplied during the year.

By reference to statement "D" it will be seen that the stock of locomotives,

cars, snow-ploughs and flangers provided on capital account consists of :-

21 locomotives.

17 first-class passenger cars.15 second-class passenger cars.3 postal and smoking cars.

175 box cars.

125 platform cars.

3 conductors' vans.

1 pay-car.

8 snow-ploughs.

7 flangers.

I am pleased to be able to report that the efficiency of the rolling stock has been well maintained during the year and is in good condition.

I have the honour to be, sir, Your obedient servant,

J. UNSWORTH,
Superintendent and Mechanical Superintendent.

Collingwood Schreiber, Esq., Chief Engineer and General Manager Government Railways, Ottawa.

PRINCE EDWARD

MECHANICAL

A.—STATEMENT of the Cost of Locomotive

				,	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.
1891—July	33 ,899	1,474 12	1,364 08	201 57	2,529 19	26 87
August	30,693	1,465 52	1,207 13	224 51	2,111 64	16 99
September	30,102	1,585 78	1,486 74	353 67	1,683 92	60 25
October	32,203	1,538 20	1,532 52	291 74	2,296 41	107 60
November	30,388	1,460 41	1,748 34	278 05	3,535 79	9 26
December	26,024	1,448 51	1,398 78	231 99	2,503 19	76 59
1892—January	19,268	1,280 78	929 00	169 45	2,875 97	132 97
February	22,708	1,392 51	1,303 68	218 40	2,533 37	5 68
March	22,020	1,373 12	1,379 78	226 49	2,354 60	12 26
April	19,884	1,132 57	1,002 72	167 51	2,180 20	31 48
May	19,606	1,067 90	1,013 02	171 16	1,710 90	28 74
June	20,626	1,164 08	937 98	200 51	1,921 99	209 66
Totals	307,421	16,383 50	15,303 77	2,735 05	28,237 17	718 35

ISLAND RAILWAY.

DEPARTMENT.

Power, for the Year ended 30th June, 1892.

				Avera	age per Mile	e run.		
Miscellaneous, including Expenses of Office and Engine House.	Total.	Engine- men.	Fuel.	Oil, Tallow, &c.	Repairs.	Water.	Miscel- laneous.	Total.
\$ cts.	\$ cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.
222 53	5,818 36	4.35	4.03	0.59	7.46	0.07	0.66	17:16
245 67	5,271 46	4.77	3.93	0.73	6.88	0.06	0.80	17 · 17
368 71	5,539 07	5.27	4.94	1.17	5.59	0.20	1.22	18:39
290 31	6,056 78	4.78	4.76	0.90	7.13	0.33	0.80	18.80
329 17	7,361 02	4.81	5.75	0.91	11 64	0.03	1.08	24 · 22
307 17	5,966 23	5.57	5.37	0.89	9.62	0.29	1.18	22 · 92
314 14	5,702 31	6 65	4.82	0.88	14.92	0.69	1.63	29.59
261 57	5,715 21	6.13	5.74	. 0.96	11.16	0.03	1.15	25 17
329 03	5,675 28	6.23	6 · 27	1.03	10.69	0.06	1.49	25.77
242 07	4,756 55	5.69	5.04	0.85	10.96	0.16	1 22	23 92
242 95	4,234 67	5.44	5.17	0.87	8.72	0.15	1.24	21 59
241 63	4,675 85	5.64	4.55	0.97	9.32	1.02	1.17	22 67
3,394 95	66,772 79	5.33	4.98	0.88	9:19	0.24	1.10	21.75

J. UNSWORTH, Superintendent and Mechanical Superintendent.

PRINCE EDWARD

MECHANICAL B.—STATEMENT of the Performance and Consumption

			Train I	Mileage.		Miles run by Engines.					
Months.	Hours in Steam.	Passenger.	Freight and Mixed.	Ballasting.	Piloting.	With Train.	Light.	Shunting.	Total.		
1891 July	4,245	12,908	14,827	1,141	88	28,964	216	5,970	35,150		
August	3,990	11,279	13,599	2,638	114	27,630	11	6,020	33,661		
September	4,401	11,180	13,669	6,367		31,216	18	5,825	37,059		
October	4,053	12,424	14,217	2,631	101	29,373	13	5,818	35,204		
November	3,907	10,461	14,084	2,857	80	27,482	174	5,879	33,535		
December	3,494	2,014	18,203	392		20,609	49	5,783	26,441		
1892January	2,810	674	13,756			14,430		4,838	19,268		
February	3,430	2,626	13,413	 	1,738	17,777	62	4,869	22,70		
March	3,574	2,661	14,316	: 	136	17,113	80	4,827	22,020		
April	3,078	1,628	13,694	1,403	<u>!</u>	16,725	196	4,491	21,412		
May	3,031	2,744	12,342	2,898	116	18,100	20	4,777	22,897		
${\bf June.} \ \dots \dots$	2,850	4,164	. 11,846	573		16,583	33	4,621	21,237		
Totals	42,865	74,763	167,966	20,900	2,373	266,002	872	63,718	330,592		

ISLAND RAILWAY.

DEPARTMENT

of Locomotives, for the Year ended 30th June, 1892.

Total M	lileage.	of Cars per with Train.	A ver Mile	rage age.		Consur	nption.		Co 100 Mi	nsump les run	tion pe	r gines.
Cars.	Snow Ploughs.	* Average of C	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.
153,563		5.32	8.28	4.37	14,318	2,216	381	683	40.73	6.30	1.08	1.94
144,519		5.26	8.44	4.29	13,233	2,237	435	677	39·31	6.64	1.29	2.01
169,573		5.43	8.42	4.57	15,545	2,891	519	854	41 · 94	7.80	1.40	2.30
148,186		5.08	8.68	4.21	14,927	2,588	542	800	42.40	7.35	1.53	2.27
149,781		5.46	8.58	4.46	16,148	2,668	269	708	48.15	7.95	0.80	2.11
107,583	<u> </u>	5.22	7.57	4.06	11,973	2,282	12	628	45.28	8.63	0.04	2.37
61,484	486	4.26	6.86	3.19	7,542	1,504	33	443	39.14	7.80	0.17	2.29
72,062	6,102	4.49	6.62	3.17	10,899	2,176	27	562	47 · 99	9.59	0.11	2.47
90,593	767	5.33	6.16	4.11	9,602	1,734	29	492	43 60	7.87	0.13	2.23
111,280	-	6.65	6.96	5.19	9,811	1,700	20	488	45.82	7.93	0.09	2.27
123,492		6.87	7.55	5.39	10,732	1,829		516	46 · 87	7.98	0.00	2.25
98,626		5.94	7.45	4.64	8,621	1,848	70	528	40 59	8.70	0.33	2.48
1,430,742	7,355	5.42	7.71	4.32	143,351	25,673	2,337	7,379	43.36	7.76	0.70	2.23

J. UNSWORTH,
Superintendent and Mechanical Superintendent.

PRINCE EDWARD ISLAND RAILWAY.

MECHANICAL DEPARTMENT.

C.—Monthly Statement of Car Mileage for Year ended 30th June, 1892.

Months.	First-class.	Second- class and Baggage.	Postal and Smoking.	Box and Stock.	Platform.	Total.
1891—July August September. October November December. 1892—January February March April May	33,056 28,334 27,466 31,490 23,532 20,673 14,751 15,693 16,906 16,398	27,636 22,104 17,204 23,431 21,002 17,218 12,285 11,427 16,975 12,700 15,109	22,338 21,567 30,425 26,258 21,960 14,595 11,404 13,701 11,493 14,950 16,827	38,738 39,474 42,843 42,895 60,137 46,133 18,605 19,707 28,214 45,894 42,122	31,795 33,040 51,635 24,112 23,150 8,964 4,439 11,534 17,005 21,338 35,425	153,563 144,519 169,573 148,186 149,781 107,583 61,484 72,062 90,583 111,280
June. Totals LESS—Ballasting	258,628	15,979	15,508 221,026 18,696	34,507 459,269 3,111	16,312 278,749 104,276	1,430,742 126,083
Balance	258,628	213,070	202,330	456,158	174,473	1,304,68

J. UNSWORTH,

Superintendent and Mechanical Superintendent.

PRINCE EDWARD ISLAND RAILWAY.

MECHANICAL DEPARTMENT.

D.—Statement showing the number of Locomotives and the various classes of Cars and Snow-ploughs on hand, 30th June, 1892.

	gó			Clas	sificati	on of C	ars.			hs.		
Particulars.	Locomotives.	1st Class.	2nd Class and Baggage.	Postal and Smoking.	Box and Stock.	Platform.	Vans.	Pay Car.	Total.	Snow-ploughs.	Flangers.	Total.
On hand, 30th June, 1891, serviceable do do condemned		17	15	3	175	124 1	3	1	338 1	8	7	15
Total stock, 30th June, 1891	21	17	15	3	175	125	3	1	339	8	7	15
Condemned on hand, 1st July, 1891 do during the year					1	1 1			$\frac{1}{2}$			
Less-Rebuilt					1 1	2			3			
ADD-Serviceable and repairing.	21	17	15	3	175	2 123	3	1	2 337	8	7	15
Total on record, 30th June, 1892	21	17	15	3	175	125	3	1	339	8	7	15

J. UNSWORTH,

PRINCE EDWARD ISLAND RAILWAY.

MECHANICAL DEPARTMENT.

E.—Comparative Statement of the Expenses of the Mechanical Department for the Year ended the 30th June, 1892.

•				1892.	1891.
The miles run t do do do	engines were			245,102 307,421 1,304,659 7,355	272,475 335,202 1,420,428 27,126
				\$ cts.	\$ cts.
do rep do lab do rep do	airs to cars our, oil, and waste airs to passenger of do postal and	e for packing cars wassmoking car	s was.	66,772 79 16,727 62 558 27 9,129 84 1,507 95 6,089 83	64,158 96 17,497 25 535 03 10,648 03 1,546 58 5,302 64
			un by trains was	27 24	23 54
do do	do do	do do	engines was	21 72 5 11	- 19 14 4 51
The cost of rep do do	airs to cars per 10 do do	0 miles run do do	by trains wasengines wascars was	6 82 5 44 1 28	6 42 5 22 1 23
The cost of labo	our, oil and waste,	for packing.	per 100 miles run by trains was	0 22	0 19
do do	do do	do '''	do engines was	0 18 0 04	0 15 0 03
do post	tal and smoking ca	ars were	oy trains were	3 72 0 61 2 48	3 90 0 5 6 1 94

J. UNSWORTH,
Superintendent and Mechanical Superintendent.

ID KALLWAY.	Prince Edward Island Railway, during the Year	
PRINCE EDWARD ISLAN	RETURN of Accidents and Casualties which have occurred on the Prince Edward I	euil. diff. benne

	Verdict of Comer's Jury.	Accfdent- al.	
	Extent of Injury.		Wheel passed over foot, crushing it.
	Particulars of Accident.	Struck child, 17 months Fatal old, sitting on the bal- last between rails.	4 Royalty Junc Frank Traill Employee Fell between station plat. Wheel passed form and train.
	Whether Passenger or Employee.		Employee
June, 1692	Name of Persons injured.	D. F. Chevrier.	Frank Traill
ended 30th June, 1832	Place of Accident.	Souris	Royalty Junc
1	No. of Engine.		4
	Name of Driver.	M. Watson 10 Souris	C. Moore
	Name of Conductor.		G. W. Hibbett. C. Moore
	Description of Train.	Engine, light.	1892. May 9, 2.50 p.m. 7 Accommo-G. dation.
	.nistT to .oV	· · · · · · · · · · · · · · · · · · ·	
	Time of Day or Vight.	1891. July <i>2</i> 7. 2 <i>-2</i> 7 p.m.	2.50 p.m
	Date.	1891. July <i>2</i> 7.	001 May 9.

APPENDIX No. 5.

OFFICE OF THE CHIEF ENGINEER OF CANALS,

OTTAWA, 20th December, 1892.

SIR,—Having only recently entered upon the duties of Chief Engineer of Canals, I am not sufficiently familiar with the works of construction, now in progress, to warrant me in making a report thereon, I therefore merely submit the reports of the engineers in charge of the canals, and the statistical returns of the operations of the canals, prepared by the clerk in charge of that service.

I have the honour to be, sir, Your obedient servant,

COLLINGWOOD SCHREIBER, .

The Secretary,

Chief Engineer.

Department of Railways and Canals, Ottawa.

DEPARTMENT OF RAILWAYS AND CANALS, MONTREAL DIVISION, SUPERINTENDING ENGINEER'S OFFICE,

MONTREAL, 16th November, 1892.

SIR,—As requested by your letter No. 89463, dated 26th September last, I have the honour to submit my report on the various works under my charge, for the fiscal year 1891-92 ended 30th June last. The works are:

1st. The Lachine and Beauharnois Canals, on the St. Lawrence route.

2nd. The St. Ours lock and dam and Chambly canal on the Richelieu river and

Lake Champlain route.

Statements are annexed, showing the amounts collected for fines and damages, together with the monthly returns of the highest and lowest water registered on the lower and upper entrances of each canal, and on each of the mitre sills of St. Ours lock,

LACHINE CANAL.

This canal was closed on the 30th November, 1891, and reopened to navigation

on the 1st May, 1892.

Two accidents took place during the season, which did not, however, in the least affect the navigation. The first accident took place on Tuesday, 20th October, 1891, when the barge "Maggie," owned by the Montreal Transportation Company, ran into Brewster's bridge, displacing it and breaking the pivot, the castings underneath and the bolts connecting the rollers with the turntable. It took three days to repair the damage done, and to replace the bridge in its former position.

The second accident happened on Friday, 30th October of the same year, when

the lower gates of old lock No. 1 were carried away.

There was at the time a barge being locked, the lower sill and gates being very old and rotten, could not withstand the pressure of the current created in the lock at the time, and the lower gates were therefore swept away into the river. There were several boats below, awaiting their turn, but no further damage was done.

These gates were replaced by spare new ones in three days, but as stated above, navigation did not suffer any delay or inconvenience through these two accidents, and during the whole season it has been efficiently maintained, and the water was kept at a good height in all the levels, both for navigation and manufacturing purposes.

The work done on this canal during the fiscal year is classified under two heads, viz.:—Repairs and Income.

REPAIRS.

The water was drawn off on the night of 9th April last, and let in again on the night of the 30th of the same month, the canal being open to traffic on the following day.

While the water was out of the canal, all the works under water were overhauled and repaired. Extensive repairs were made to the different canal structures during

the lapsed year, and are described below.

The abutment and rest pier at the north end of Brewster's bridge, which had been forced from their foundations by frost were taken down and rebuilt.

Two new masonry abutments were built to receive a new stationary bridge, as

well as the retaining wall at the foot of old lock No. 3.

Five top courses of the wing wall on the south side of St. Gabriel lock, which was found to be in a dilapidated condition, were taken down and rebuilt in new masonry.

The masonry of three raceways, one above St. Gabriel bridge, and two below Côte St. Paul lock on south side of canal, which showed signs of falling down, were

rebuilt in cement.

Three stone piers of the waste weir at Côte St. Paul were also taken down and rebuilt, and the weir and locks pointed with Portland cement.

Three new sluice gates were put in the old regulating weir at Lachine, and the

masonry of the weir pointed with cement.

The old 2-inch pine flooring of the waste weir at Côte St. Paul, which had been considerably torn up by action of current was entirely renewed with 6-inch oak.

The side sheeting of the weir at the St. Gabriel lock was also torn up by the force of the water. It was found necessary to drill holes in the wall, bolt ties into the masonry, and fasten with spikes the sheeting to the ties.

The platforms mullions, front and back binders, were renewed in the upper and lower gates of old locks Nos. 1, 3, 4 and 5, also on gates of new locks Nos. 1, 2, 3

and 5.

The flooring of Black's, Wellington, St. Gabriel, Brewster's and Côte St. Paul bridges have been renewed with 2-inch oak planks, and the timber pier above St. Gabriel bridge and the ones in the centre and on both sides above and below Brewster's bridge have been rebuilt.

The different bridges on the canal (except Wellington) have been cleaned, and

received three coats of paint each.

The slope walls between Côte St. Paul and Lachine required and underwent

considerable repairs, as well as the tow-paths on both sides of the canal.

The shanties, at the different locks and bridges, which were very old and decayed, were replaced by new ones, thereby adding to the comfort and convenience of the canal staff, and the better appearance of the canal generally.

The canal roads in connection with the different basins, as well as the road between Wellington bridge and St. Gabriel lock on the south side, and Mill street from St. Etienne street to Black's bridge, have been macadamized and efficiently

maintained

The tow-paths, which measured fourteen miles on both sides of the canal, were kept in good order. All the Government planked foot-paths, within the city limits, and which measure over 9,000 lineal feet, have not only been well maintained, but also kept free from snow and ice during the winter,

The snubbing posts along the line of the canal on the tow-paths were repaired

and sixty new ones set.

The weeds were dragged from the bed of the River St. Pierre, and all the offtake drains, culverts and ditches in connection with the canal were thoroughly cleaned and kept in good order.

The piers and booms at Lachine and in the canal proper, received the necessary repairs. Repairs were also made when needed, to the head gates of the mills and

factories.

The derrick-lifting scow was hauled out on the bank and the hull almost entirely renovated and the most important parts of the derrick timbers were replaced. The deck was also renewed and the vessel caulked and painted.

The old temporary weir at St. Gabriel lock has been filled in, and the road in

front of the mills at this place, on the south side, graded and macadamized.

The timber abutments of the stationary bridge, above the new regulating weir at Lachine, and connecting the island with the main road, have been entirely rebuilt, and the overhauled bridge structure placed in position.

The electric plant and line, for lighting the canal, between the lower entrance and St. Gabriel locks, has been efficiently maintained and has given full satisfaction.

The private telephone service has also proved very efficient, both for canal and navigation interests.

INCOME.

The Government piers at Lachine, which form the continuation of the Grand Trunk Railway wharf required and underwent considerable repairs. The greatest portion of the superstructure above water mark was rebuilt, additional stone filling put in the piers and the flooring renewed.

At the close of navigation, in 1891, work was commenced towards building spare gates for some of the old and new locks, and for which purpose a sum of \$24,500

had been voted.

Towards this object, the Government planer was installed in Messrs. Tate's saw-

mill, and the gate timbers prepared by the canal workmen.

An extensive shed measuring 150 feet long, by 50 feet wide, and 40 feet in height, was erected on St. Gabriel Island, wherein the construction of the gates themselves was carried on. All the castings were finished and the iron-work prepared in the canal workshops.

Six pairs of spare gates were thus built, viz.:-

One pair for lower sill of old lock No. 1. One pair for upper sill of old lock No. 1.

One pair for lower sill of old lock No. 2.

One pair for upper sill of old locks Nos. 3 and 4. One pair for upper sill of new locks Nos. 3 and 4.

One pair for lower sill of old lock No. 5.

These gates have been distributed on the canal, at such points where they can be most advantageously handled, in case of emergency or accident.

BEAUHARNOIS CANAL.

This canal was closed on the 1st of December, 1891, and reopened on the 30th of April, 1892; there was no accident and navigation has therefore been efficiently maintained without interruption during the whole season.

REPAIRS.

Two pairs of lock gates were built and placed at lock No. 6, the old gates being brought to the workshops and taken apart. The foot bridge of the upper gates of the guard lock was renewed, and three anchor timbers were placed, one at lock No. 6 and two at lock No. 9. One new crab was also placed at lock No. 6, and four chain rollers at each of locks Nos. 7, 8, 9 and 12, and two at lock No. 3.

The lower gates of locks Nos. 7, 8, 9 and 12 were raised and readjusted, and

three valves renewed, one at lock No. 8 and two at lock No. 11.

All the oak anchor timbers of gates and the crabs for working the gates were Six new chains were placed, two at lock No. 6, two at lock No. 11 and one painted. at each of locks Nos. 8 and 13.

All the swing-bridges have been kept in good state of repairs. The bridges over locks Nos. 7, 8, 10 and 13 were raised, adjusted, and the pivot of the St. Timothy

The bridge stringers and the planking of the bridge above the guard lock at Valleyfield were renewed and new bridges built over the waste weirs at locks Nos.

7, 9 and 10.

Several farm bridges were renewed, and all the others to the number of 120

were kept in good repairs.

Two new houses were built, one 24×24 with an extension kitchen 12×12 for the lockmaster at lock No. 12, the other, also 24×24 , for the ferry keeper of the new ferry, between locks. Nos. 13 and 14; these houses were well finished and painted both inside and outside; all the other dwelling-houses for the staff, and fences on Government ground, were repaired when required, painted and otherwise kept in good condition.

Five new fender posts were erected at each of locks Nos. 7, 8, 9, 10 and 13, and repairs made to the others. One hundred and five new mooring posts were set on

canal banks on both sides, and several others taken out and reset.

A new ferry scow and a small flat boat were built for the service of the new ferry, as well as approaches on both sides of the canal in connection with said ferry.

A considerable portion of the bank on the north or tow-path side has been macadamized and covered with gravel, and the lower and upper dams at the upper entrance underwent considerable repairs.

The Hungry Bay dyke has also been partly macadamized.

The long or north pier at the lower entrance, which had been considerably damaged by ice, has been rebuilt on a length of 75 feet by a height of from 10 to 12 feet.

The south entrance pier, opposite, also received considerable repairs, and both structures were lined outside with plank sheeting.

Leaks were stopped at the waste weirs at locks Nos. 6, 10 and 12.

The roads over the canal embankments and the Hungry Bay dyke, measuring over 26 miles in length, have been kept in good order.

The culvert wells, discharges, drains and side ditches were cleaned during the

summer, and in the spring the snow and ice were removed.

According to custom the weeds were moved at the proper time, on both sides of the canal.

The canal private telephone line has been maintained in good working order.

The electric plant, in use for lighting the lower portion of the canal has been efficiently maintained and the service has continued to give universal satisfaction.

CHAMBLY CANAL.

This canal was closed on the 30th of November, 1891, and reopened to navigation on the 2nd of May following. Apart of half a day's detention on the 2nd of May, caused by the discovery and stoppage of two small leaks in the reach above lock No. 7, the navigation has been efficiently maintained. The old works have been keep in good order and the works of reconstruction and improvement continued.

Considerable works were executed during the fiscal year, and are described

under the following two heads, viz., ordinary repairs and income.

REPAIRS.

The planking of the long entrance pier, at the lower entrance, was repaired where required. All the posts of the garde-corps on the public road between St. Luke's road and the upper extremity of Ile Ste. Therese, have been renewed, and the top wooden railing replaced by a § steel wire cable; the balance of the old garde-corps has been kept in order until next year, when it is intended to renew it as above.

One pair of spare upper gates was placed at lock 4. The locks on this canal being of different dimensions, it is necessary to have on hand a greater number of spare gates than would otherwise be required. Of 16 pairs of gates actually in use, 8½ pairs are alike, but the remaining 7½ pairs are of different dimensions, not only with the first but with each other.

Since 1886 $7\frac{1}{2}$ pairs of spare gates have been put at different locks in place of old gates.

There remains yet 5 pairs of spare gates to meet the future requirements.

The lower gates of the guard-lock at St. Johns have been strengthened by four oaken bars 10 inch square. All the gates were painted, and the lock walls pointed with Portland cement. Sixty-six mooring posts were set on canal banks where required.

The steam plant in the Government workshops has been kept in good order; it has proved invaluable in the preparation of timber for rebuilding the locks, bridges,

and for the completion of the works generally.

The motive power to run the bellows, the boring machine, lathes, &c., in the blacksmith shop, was provided for by means of a shaft connecting the main workshops with the forge, and in order to reduce to a minimum the danger from fire, the flooring of the blacksmith shop was paved with comented bricks. The different buildings on line of canal have been maintained in good order, and the dwellinghouses and outbuildings between the lower entrance and lock No. 2 have been painted or whitewashed, as well as the fences.

A frame brick-encased extension was made to the dwelling-house of the lock-

master at lock 9.

The slope-wall on the tow-path side is generally in good order, with the exception of certain portions originally built with small round field stones, and which require constant care. The slope-wall, on the opposite or west side, is in bad shape, and it will therefore be necessary to rebuild it almost entirely with larger stones.

The by-washes have received the necessary repairs. The tail-race of Fryer's

by-wash was excavated in the rock 2 feet, in a distance of 100 feet.

The tow-path has been kept in good order. Seven miles of this road have been covered with gravel since 1886; there still remains 4 miles of this tow-path to be similarly treated. The gravel used comes from Lake Champlain, and costs 60 cents per ton, delivered on the ground. It hardens the tow-path and greatly facilitates the towing.

Five iron gates, closing with padlocks, were made and placed at different points on the canal embankment, on the east side, to prevent travelling over the tow-path

in the spring, and thereby saving deterioration.

A trench was made in the snow on a distance of 2½ miles between Wood's Creek and He Ste. Therèse, 3 feet deep by 4 feet wide, to give a course to the water from the lands on the west side of the canal.

Twelve upright rolling posts were placed at the four sharpest corners of the

canal to facilitate the tractive power of towing cables.

Seven bridges on the public road between Chambly and St. John's were entirely rebuilt on an enlarged scale, and four other bridges were repaired.

The mechanical structures of the gates have been much improved, and six new crabs placed at the lower gates of locks Nos. 1, 2, 3, 4, 5, 6 and 9.

The canal ditches, drains and discharges have been thoroughly cleaned. The ground occupied by the lockmasters of locks Nos. 2 and 3, has been fenced in with a fence of galvanized iron.

The collector's office at St. John's was also inclosed with a fence of cedar posts

planted 12 feet apart, with an iron chain passing through the head of each post.

One hundred feet of the dry rubble wall below the C.P.R. crossing, and used in connection with the transhipment of lumber from the railway to the canal boats, fell down into the canal; the stones were all taken out, and this portion of the wall rebuilt.

The five lighthouses used in connection with the navigation of the Chambly Basin

Were repaired and painted.

The 4,000 feet of booms at Chambly and St. John's have been kept in good order. Bridges Nos. 4 and 5 have received sufficient repairs to make them last a couple of years longer.

The dredge mud-boxes, wheelbarrows, the movable and stationary derricks,

track rollers and horse shovels also received necessary repairs.

The weeds were moved on both sides of the canal as usual.

The canal telephone line has, as in the past, proved very efficient, and repairs were made when required by canal employees.

IMPROVEMENTS CHARGEABLE TO INCOME.

The work done on this canal during the fiscal year, under the head of Income, is subdivided as follows:—

Dredging.

From 1st of July to close of navigation, dredging fleet No. 1 was employed in the canal proper. Considerable dredging was done in that part of the canal formed by a branch of the river and better known as "Le Petit Lac." The material excavated has been utilized to fill behind the dry rubble wall which was built along the canal water front of He Sto. Therese, and to raise the tow-path immediately in rear.

The ferry channel, at the upper extremity of the Island, has been deepened so

as to prevent in future the stranding of the ferry scow, at low water.

Meeting places were made, one 1,000 feet in length at the fifth mile opposite Burland's and Mantel's farms, one 600 feet in length at Langelier's bridge, another measuring 200 feet at Wood's creek, and the last 600 feet long, between the ninth and ninth and a half mile. The dredged material was used in raising the public road and the tow-path when required.

The deepening of the upper canal entrance, or harbour of St. John's, was resumed in May following, and continued until the close of the fiscal year, when, owing to the fact that no money had been appropriated to complete the work, the whole fleet was sent to the Lachine Canal. It would have been in the interest of navigation that the work should have been completed, which could have been done in a couple of months.

It is considered urgent that the fleet should be sent back to St. John's, for the purpose not only of completing the work commenced, but also to create a basin between the Canadian Pacific Railway bridge and the old Grand Trunk Railway

wharf.

The construction of a basin and wharves at this site has already been strongly advocated in former reports and will impose themselves, if trade continues to increase, specially if the Canadian Pacific Railway obtains access to the wharves for the transhipment of lumber by boats.

Bridges on Langevin and Du Fort Streets.

The surplus water of locks Nos. 4, 5 and 6 is discharged by three waste weirs, into a stream which forms the division line between the villages of Chambly Basin and Chambly Canton, and empties itself, after a course of about 1,200 feet, into the basin. The width of this watercourse increases yearly, which is due to the current thus created.

The two above-named streets, connecting the two villages, cross the stream referred to.

According to the request of both municipalities the Government appropriated a sum of \$600 for the construction of two bridges at the points of crossing.

Two bridges 24 x 12 feet, supported by stone abutments, have therefore been built; substantial railings or garde-corps have been placed on the sides and the approaches levelled.

Once completed, these bridges have been officially transferred to the Municipalities of Chambly Canton and Chambly Basin who have bound themselves to maintain these structures in the future.

Dry Rubble Wall, Ile Ste. Therese and Land slides.

In the last annual report, it is stated that a dry rubble wall was built at Ile Ste. Therese, on the face of the canal bank, for a distance of 11,800 feet, and the tow-path macadamized.

This is not quite exact, only 2,640 lineal feet of wall were built and the road has not been macadamized. It is only during 1891-92, that the rubble wall was erected on a distance of 9,160 feet, which, added to the quantity done in 1890, gives 11,800 feet quoted in the last report.

106

The stone broken the year previous has been spread over the road, on a width of 9 feet, a depth of 9 inches in the centre and 6 inches on the sides; a 3-inch layer of gravel has been spread over the macadam, and the whole thoroughly rolled, it is to-day one of the finest roads of the district.

The old bridges on the Island have all been renewed, five new ones built, as

well as eight wood and stone drains.

Portions of the road embankment, in the parishes of St. Luc and St. John's, which were disposed to slide into the canal, have been protected by heavy dry rubble walls.

All the west embankment referred to, on a distance of seven miles, between bridge No. 1 and St. John's, will have to be similarly protected, otherwise landslides will occur, which will endanger not only the navigation, but the public road on the top of the bank.

The work, done in time, can be executed at a comparatively low figure, and will prevent accidents and slides, which whould cost at least ten times more to repair

should they occur.

Rebuilding of Locks Nos. 4, 7 and 8.

The reconstruction of the locks, commenced some years ago, has been continued during the year.

For that purpose extensive preparations had been made. All the materials

and plant required were on the ground at the close of navigation.

The west side of lock No. 8, comprising the recess, abutment, culvert sluice and chamber, as well as the recess abutment, culvert sluice of west and east chambers of lock No. 7, were taken down on a total length of 380 feet by 17 feet in height and 8 feet in width or as far down as the foundations.

At lock No. 4, the east chamber of the abutment and lower recess were taken down on a length of 90 feet. The demolished portions were rebuilt, partly in timber

and partly in stone.

All the locks on this canal have been overhauled with the exception of the east side of lock No. 3, and the whole of lock No. 9, which is the lower entrance

lock of the canal, in the Chambly Basin.

There is an enormous leakage at this lock, which seriously interferes with the lockage at locks Nos. 8 and 7 above. The water in the chamber is receding at the rate of 9 feet per hour, viz., 7 feet for the first half hour, and 2 feet for the second half.

It is now over 50 years since this lock was constructed and, apart from the

pointing of the walls, when required, no repairs have been made.

Owing to its location in the basin, the reconstruction of this lock will be expensive. It will necessitate extensive and costly coffer damming, and the constant use, during progress of works of powerful steam pumps to unwater the lock.

This lock will, in all probability, have to be entirely rebuilt and preparations must be made accordingly. A large quantity of timber will enter into the construction

of the dams, besides over 1,000 cubic yards of puddle will be required.

This puddle can only be obtained by means of the dredge, which necessarily must return to Chambly, not only to furnish it but also to remove the puddle and dams once the lock has been rebuilt.

Electric Light.

Work was continued during the year towards completing the electric lines. A line of posts was erected on the west side of the canal, from lock No. 2 to lock No. 7, to receive one of the arc circuit wires. The circuit wire for the incandescent light was also strung over these posts for lighting the superintendent's and collector's offices.

As the incandescent circuit for the workshops was insufficient for the number of lamps required to light efficiently, another wire was strung over the posts on the east side.

The joiner's work, in the electric station, has been completed, and dry rubble walls were built on each side of the tail-race in rear of the station, for the purpose of discharging, as far as possible, into the river, the water passing through the

A dynamo of 40 arc lamps capacity has been installed in the station and 27 lamps on the canal, between the waste weir on the east side, 400 feet above lock No. 2, and the lower entrance of the canal, or on a distance of 13 miles, which comprises eight locks, four swing bridges, three extensive wharves, five basins and the workshops and yard. These lamps are placed, on an average, 342 feet apart.

Fourteen incandescent lamps off the arc circuit, were placed in the water houses

and are used during season of navigation only.

The construction and installation of the above plant was done, under contract, by the Royal Electric Co., of Montreal, for the sum of \$3,650, and the whole done in

a highly satisfactory manner.

Both extremities of the canal are now lit by electricity, the harbour of St. John from the Canadian Pacific Railway bridge downwards to the guard lock, by St. Johns Electric Light Company, at the rate of \$300 during season of navigation, and at Chambly from lock No. 2 to the lower entrance by the canal plant.

It is intended during the fiscal year 1892-93 to install in the workshops an electrical motor of 25 horse-power operated by two Edison dynamos (in hand) which

will effect a great saving in running the machinery in said shops.

In a near future electricity will be an important factor, before long all the canals will be lit on their whole distance, thereby placing navigation in a better position to

compete advantageously with the railways.

In order to diminish the cost of working expenses, it is more than probable that the electrical forces at the Government disposal, on the different canals, will, at a not distant date be called upon to contribute, for opening the lock gates and bridges, for the running of machinery, and will also likely furnish the motive power required for the towing of boats.

ST. OURS LOCK.

This lock was closed on the 30th of November, 1891, and reopened to navigation on the 11th of April, 1892.

There was no accident or delay, and navigation was efficiently maintained

during the whole season.

The works executed at this station during the lapsed fiscal year are described under two heads, viz.:—Repairs and Income.

REPAIRS.

The canal or lock embankments on each side of the lock have been kept in good

The lock gates were raised and adjusted, the pivots and chains renewed, and all mechanical structures in connection with the lock and gates thoroughly overhauled and repaired.

Some timbers on the upper or west side of the dam having been carried away by the current and ice last spring, were replaced and the two toises of field stone placed

at the toe.

The ice was cut away from the piers, wharves and lock gates, and the gates were loaded to prevent their being lifted by high water in the spring.

The booms were removed in the fall, placed in winter quarters and replaced in

the spring.

The Government ground on the island, damaged by the works at the dam and high waters, has been filled in and levelled, and the embankment at both extremities of the island protected with stone.

· All the scows were overhauled at the close of navigation and thoroughly

repaired.

The superintendent's house, workshop and outbuildings received some repairs, and the fences were partly renewed.

108

INCOME.

After the completion of the work of overhauling the foundations of the St. Ours lock in May, 1891, it was found that the old piers or wharves which form the extension of the lock above and below, and which had been disconnected from the masonry work for the purpose of placing the required coffer dams in proper position were in a very dilapidated condition. These structures were therefore taken down and rebuilt.

RICHELIEU RIVER SURVEY.

Pursuant to instructions contained in departmental letter No. 86089, dated 16th September, 1891, a survey was made during January and February, 1892, of the Richelieu River, at the site of the Grand Trunk Railway bridge at Beloil, with the object in view of remedying to the complaints of navigators as to the dangerous condition of the river at that point.

A plan showing the guide piers above the Grand Trunk Railway bridge, also the location and details of a proposed extension of the present wharf has been forwarded

to the department, together with an estimate of the cost.

The result of this survey has demonstrated beyond a doubt the necessity of providing better accommodation for the safer navigation of this portion of the river.

The whole cost of the proposed structure has been estimated at \$9,000, including the removal of the four present guide piers on the shore side, and the dredging required to give the necessary depth at low water along the proposed works.

LAKE ST. LOUIS CHANNEL.

CAPITAL.

The dredging fleet No. 2, which had been engaged at the end of the lapsed fiscal year in the Lachine Canal, removing projecting points and deepening the canal bottom, between locks Nos. 2 and 3, and at the entrance of the Wellington basin, was sent to Lake St. Louis to make test pits in connection with the proposed improvement of the lake channel.

Some eighteen test pits were made both in the proposed and old channels varying in depth from 8 to 20 feet, and about 6,000 cubic yards of black rock and hard-pan

taken out, the material excavated being deposited as follows:

Three thousand cubic yards on the new wing dam, where it was utilized by the superintendent for widening and strengthening certain weak points of the structure; 2,000 cubic yards were put in the new Grand Trunk Railway wharf at Lachine, and 1,000 yards in Mr. Lepailleur's wharf.

Mr. Geo. Yale, the superintendent of dredging, had charge of this portion of the

Work.

LAKE ST. LOUIS SURVEY.

Commenced the previous year, the hydrographic survey of the lake was resumed on the 15th of July, 1891, and continued until the latter end of the month of November following.

During this period of time the weather has been generally fine but very windy,

and only 24 days were sufficiently calm to permit sounding.

The portion of the lake surveyed, extends from the head of the Grand Trunk Railway pier, at the upper extremity of the Lachine Canal, to a point above the second light-ship, or a distance of over three miles.

As the bottom of the lake in this section proved very uneven Mr. L. S. Pariseau, the engineer of the survey work, considered it necessary to go over the ground covered during the previous year. Soundings have been taken at an average distance of 25 feet on parallel lines across the lake, such lines being 100 feet apart for the first mile and a half, and 200 feet apart for the remainder of the distance.

109

The result of the work performed during the summer is as follows:-

Shore line surveyed on main land and islands 6	l miles.
Road line surveyed 2	ī "
Miles run in sounding	"
Number of soundings	14.500
Angles measured	1,900

Towards the end of the season a triangulation was made to verify and ensure the correctness of the survey.

During the course of the winter, a plan showing only the soundings taken during the summer was made, and the quantity of material to be excavated to form the proposed channel was calculated.

LACHINE DRAINAGE SYSTEM.

The contractors for this work are Messrs. Hency & Borthwick, of Ottawa.

The contract was signed on the 25th July, 1891, and work begun on the 5th August following. The excavation was commenced at the lower end of the collecting drain, at the intersection of the River St. Pierre, above Côte St. Paul road.

Excavation was also commenced at the end of August on the trench connecting the collecting drain with the intended brick sewer from Lachine low lands. The work continued until the first week in December, when it was interrupted by the cold weather.

There was then a length of about 3,400 feet of the collecting drain completed, 1,100 feet of the connecting trench and 250 yards of the brick sewer built.

An attempt was made to continue the rock excavation in winter, from the 5th January last, but it was abandoned about the middle of February.

Work was then resumed on the 17th of April last, and has been continued until

the present date.

At the end of the lapsed fiscal year a total length of 5,000 feet of the collecting drain was excavated, 1,100 feet of the connecting trench, and 450 yards of the brick sewer built, as well as the masonry at the lower entrance.

Mr. L. G. Papineau is the Government engineer in charge of the construction.

REPAIRS TO VESSELS.

Dredging Fleet No. 1.

The above dredging fleet, which was stationed on the Chambly Canal, underwent considerable repairs during the winter months. The heavy timber work of the dredge hull was partly renewed. The repairs to the dredge alone have involved the use of 451 cubic feet of oak, besides the knees, the tamarack and pine timber. Three thousand six hundred and seventeen pounds of steel, iron and castings were employed to strengthen the hull and improve the machinery.

The four dredge scows, lodging ark and floating derrick, were thoroughly over-

hauled. The dredge and scows were caulked and painted.

Dredging Fleet No. 2.

Considerable repairs were made to the above fleet, which consists of a dredge,

steam derrick, four scows, one steam yacht and lodging ark.

At the close of navigation this fleet, which had been operating on Lake St. Louis, took her winter quarters in the Lachine Canal. The dredge, steam derrick, yacht and ark went into Tate's dry dock, where the following repairs were made:—

The steps of the dredge crane were raised and the bolts of the spud slides were

taken out and new ones put in place.

on.

Two new steel shafts, one patent chain catcher with friction rods, as well as two new malleable castings with rods and swivels to strengthen the crane were put on.

The swinging drum was raised and new steel shaft made and placed in position. The winch shaft was lowered and the anchor, shaft had a new bevel sleeve put

Some repairs were made to the boiler, which was also provided with a patent "Hanna feed water purifier."

A new dipper handle was made for the bucket, and two buckets had some very

important alterations made.

The steam derrick hull, was strengthened by means of oak braces in different places inside.

Two upright posts were put in with swivel rods, from bow to stern, to stiffen the hull. The old guards were taken out and replaced by new ones.

The old guards of the scows were also renewed,

The hull of the lodging ark was partly renewed; the steam yacht had a new suction pipe put in, and some sundry repairs and alterations made to the machinery and boiler.

All these vessels were well caulked and painted, and were in first-class order

When operations were resumed in the spring.

The above important repairs were executed under the immediate supervision of Mr. Geo. Yale, the mechanical engineer, who made all the drawings for the improvements and alterations required.

I have the honour to be, sir, Your obedient servant,

E. H. PARENT,
Superintending Engineer.

LACHINE CANAL.

STATEMENT showing the depth of the River Water on the Mitre Sills of Lock No. 1 at Lower Entrance and Lock No. 5 at Upper Entrance, during the Fiscal Year ending 30th June, 1892. (From Lockmaster's Returns).

	Lock N	No. 1,	Lower	Sill.	Lock No. 5, Upper Sill.				
Months.	Highest.		Lowest.		High	est.	. Lowest.		
1891.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	
July. August September October November. December.	18 18 17 16 17 17	7 4 9 3 5 10	17 17 16 15 14 16	10 5 3 6 11 10	11 11 10 10 10 10	8 6 10 1 6 9	. 11 10 10 9 9	3 10 2 5 6 1	
1892.									
January. February March May: June	32 31 26 36 19 20	9 9 11 6 5 10	16 24 24 16 18 18	11 3 6 9 0 7	12 10 9 13 11 13	3 11 5 5 9 4	10 8 8 10 10 11	2 4 8 8 11 4	

BEAUHARNOIS CANAL.

STATEMENT showing the depth of the River Water on the Mitre Sills of Lock No. 6 at Lower Entrance and Lock No. 14 at Upper Entrance, during the Fiscal Year ending 30th June, 1892. (From Lockmaster's Returns.)

	Lock I	No. 6,	Lower	Sill.	Lock No. 14, Upper Sill.				
Months.	Highest.		Lowest.		Highest.		Lowest.		
1891.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	
July. August September October November. December	11 10 10	1 1 7 0 7 10	10 10 10 9 8 9	9 7 0 4 8 8	12 12 12 11 11 11	7 5 0 9 10 8	12 11 11 11 10 10	3 11 8 1 9 11	
1892.		ļ						٠	
January. February March April May. June	15 13	8 6 3 2 4 11	10 13 11 10 10	11 0 0 3 3 0	11 11 11 12 12 12	7 2 4 10 2 7	11 10 10 11 11 11	0 2 5 0 3 8	

CHAMBLY CANAL.

STATEMENT showing the depth of the River Water on the Mitre Sills of Lock No. 9 at Lower Entrance and Lock No. 1 at Upper Entrance, during the Fiscal Year ending 30th June, 1892. (From Lockmaster's Returns.)

75 . 11	Lock 1	No. 9,	Lower	Lock No. 1, Upper Sill.				
Months.	Highest.		Lowest.		Highest.		Lowest.	
1891.	ft.	in.	ft.	in.	ft.	in.	ft.	in.
July. August September October November. December	9 9 8	9 6 7 8 10 0	9 9 8 7 7 8	7 1 9 10 8 2	8 8 8 8 8 9	10 8 5 2 9 6	7 7 7 6 6 7	10 7 2 11 10 2
1892								
January. February March April May. June	15 15 20	7 7 1 7 2 3	10 14 13 13 12 13	0 0 1 8 8 1	9 9 8 11 10 10	8 2 10 5 7 9	8 8 9 9	4 8 7 0 7 9

ST. OURS LOCK.

STATEMENT showing the depth of the River Water on the Mitre Sills of St. Ours Lock, during the Fiscal Year ending 30th June, 1892. (From Superintendent's Return.)

Months.	Lock 1	No. 1,	Lower	Sill.	Lock No. 1, Upper Sill.			
MORUIS.	Highest.		Lowest.		Highest.		Lowest.	
1891.	ft.	in.	ft.	in.	ft.	in.	ft.	ın.
July . August . September October . November . December .	8 8	0 9 9 3 3	8 8 7 6 6 8	9 4 2 7 . 4	9 9 8 8 8 8	5 0 7 4 10 9	8 8 7 7	8 3 2 61 7 10
1892.								•
January February March April May June	12 11 19	8 3 10 7 7 0	10 10 10 11 11 11	2 0 1 4 0 1	10 9 11 15 11 12	21 10 10 8 6 8	9 8 10 10 10	0 7 1 3 11 0

LACHINE CANAL.

STATEMENT of Fines and Damages collected during the Fiscal Year ending 30th June, 1892.

Date.	Name of Vessels.	Name of Owner.	Fine	8.	Damages. Total		.ls.	
1891.			\$	cts.		cts.	8	cts.
July 18	Barge "Donnelly"	Damase Leroux	9	00	l		9	00
Aug. 28	Steamer "Greetlands"	H. Dobell & Co	20	00		1		00
Oct. 13	Barge " Brodeur Demer "	Damase Leroux	10	00		[10	00
Nov. 5.	do "Richard"	C. Richard	5	00				00
qo 24	do "Star"	Montreal Transportation Co J. Malcolmson	10	00				00
do 21	Steamer "Acadia "	J. Malcolmson	;		2	2 75		75
1892.	Darge Kney	B. St. Denis	4	00	·	6 00	10	00
May 10	Barge "Bonaventure"	G. Gohier J. Clement	5	00	 	-	5	00
June 23.	Steamer "Gertie"	J. Clement	5	00		8 35		35
qo ,22	do "Polmo"	Ross & Co	10	00	l			00
do 28	do '" Powerful "	G. Gohier.		00				00
	*	Total	90	00	4	7 10	137	10

J. O'NEILL, Collector.

CANAL OFFICE,

MONTREAL, 30th June, 1892.

CHAMBLY CANAL.

STATEMENT of Fines and Damages collected during the Fiscal Year ending 30th June, 1892.

Date.	Name of Vessels.	Names of Owners.	Fines.	Damages.	Totals.	
1891. Nov. 10 1892.	Barge "R. H. Cooper"	R. H. Kirby	\$ cts.	\$ cts.	\$ cts.	
	Yacht "Elfrida"	W. S. Webb		5 00 5 00 5 00 19 00	5 00 5 00 5 00	

M. D. S. MARTEL, Collector.

CANAL OFFICE, CHAMBLY BASIN, 7th November, 1892.

APPENDIX No. 6.

ST. LAWRENCE DISTRICT.

SUPERINTENDING ENGINEER'S OFFICE, CORNWALL, 15th December, 1892.

SIR,—I have the honour to submit my annual report upon the maintenance, works of construction, surveys, &c., as connected with the enlargement of the St.

Lawrence Canals.

This district includes the Cornwall, Williamsburg and Murray Canals, and the improved channels in the intermediate navigable reaches, and extends from the Province Line, Lake St. Francis, to the harbour of Presqu'Isle on Lake Ontario.

CORNWALL CANAL.

MAINTENANCE.

Navigation closed for the season of 1891 on the 5th December.

The canal which was unwatered on the 21st March, 1892, to facilitate the building operations of the contractors and for the usual repairs, opened for traffic on the 1st of May following, and was closed for the season of 1892 on the 5th instant.

During the time the water was out of the canal the appropriation of \$2,000, granted during the last session of Parliament, was expended in renewing the mitre sill and foundations of the lower recess and tail-race bay of old lock No. 17, also in cleaning out the basin below it, now used as a dry dock, and, generally, all old locks, weirs and other structures were overhauled and temporarily repaired where

The appropriation of \$500, also granted during the last session, was expended in repairs, fencing, &c., required at the residence recently purchased by the Govern-

ment for the collector of tolls.

Navigation was maintained in a satisfactory manner, notwithstanding the low stage of the water during the early part of the season and the inconveniences incident to the prosecution of the works of enlargement.

The only accident to report during the season of navigation, which rendered the lowering of the levels necessary, and by which navigation was interrupted for twenty-eight hours, occurred at night, on the 3rd of August last, and was caused by the Montreal Transportation Company's barge "Toronto," in tow of the "Ranger," a small hired tug, colliding with the lower gates of lock No. 19, whilst closed and in use, and carrying them away, and also displacing the hollow-quoin masonry in five courses of the south wall.

The damaged gates were replaced by others in good condition.

The amount of damage assessed against the owners of the barge "Toronto" was \$1,103.21. This account was forwarded by the Superintendent to the office of the Montreal Transportation Company on the 15th August, but has not yet been

The water supply to the mills and factories was not so seriously affected during

the past season as was the case in 1891.

The attention of the department is again directed to the necessity which, in my opinion, exists for constructing the necessary waste-weirs, and providing a telephone service connecting all locks, &c., with the office of the Engineer and Superintendent.

During the winter the superintendent staff at the Government workshops were engaged in repairing and renewing the spare lock-gates, &c., and generally in making preparations for the usual annual repairs.

In future it is proposed to ask for tenders for all materials and supplies required

for "staff" or "repairs."

The locks of both old and new lower entrances were dismantled and prepared for the winter on the 6th instant, and the gate lifter, the canal scows, and the surveying steamer "Anderson," laid up in the Cornwall Basin.

The culvert at Wood's Creek continues to work satisfactorily, the back water

from the river being entirely excluded from the Fly Creek thereby.

The question of the reconstruction of the Government sewer on Water Street, in the town of Cornwall, and of the culvert or drain under the canal, connected therewith, and referred to in my last report, are still under consideration.

The superannuations of the past year are as under, viz.:-

Edward Cass, lockmaster, 1st May, 1892. John Bowie, lock labourer, 1st May, 1892. Owen O'Keefe do 1st October, 1892,..

and Timothy Sheal has replaced Cass as lockmaster (temporarily).

The passenger steamer, "Island Queen," was fined \$10 for damage done to gate at lock No. 18, 2nd September, 1892.

No wood or winterage dues have been collected during the past year.

The highest water recorded at lock No. 15 (old entrance) during the year was 22 feet 6 inches, and the lowest 9 feet 5 inches, and at lock No. 21, the old guardlock, the highest was 10 feet 10 inches, and the lowest 6 feet 5 inches.

CORNWALL CANAL ENLARGEMENT.

CONSTRUCTION.

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 $11\frac{1}{2}$ miles.

It was completed and first opened for traffic in the year 1843.

The works of enlargement now under construction consist in deepening, widening and straightening the original channel, and strengthening and protecting the embankments, and in the construction of new and enlarged locks, supply weirs, bridges, &c.

The enlargement at the lower or eastern entrance (Sec. No. 1), was commenced in 1876, and completed in 1882. Section No. 10, the upper entrance, which is still in progress, was commenced in 1884, and may be finished in 1893.

In 1888 the remainder of the work required to complete the enlargement was

placed under contract, and is still in progress.

STATEMENT of work under existing contracts, and in progress.

Locality.	Section.	Contractors.	of	Date Contract.	Date of Completion.
Cornwall	3 4 5 5 5	Wm. Davis & Sons	ĺ		
Moulinette	$\left. egin{array}{c} 6 \\ 7 \end{array} \right\}$	The Gilbert Blasting and Dredging Co Jocks, Delorimier & Broder			1

Note. - Section No. 8 adjoins No. 10.

The water was drawn off the canal by the 21st March, 1892, and so continued until the 1st of May following. This enabled the contractors on Sections 2, 3 and 4, to proceed with work, which could not be carried on during navigation.

The stone delivered in 1892 was procured from the quarries at Cornwall, Maple Grove, and Milleroches.

Masonry was begun in March, and continued until stopped by frost in Nov-

ember.

SUMMARY OF THE SEASON'S WORK.

The south wall of old lock No. 17 on section No. 1, has been raised two feet, and a portion of the lower recess wall rebuilt from the floor.

Section No. 2.

The extension walls east and west of the south abutment of the Cornwall bridge have been well advanced.

Sections No. 2 and 3.

The extensions of wing walls at locks Nos. 18 and 19 have been completed, and at lock No. 20, the necessary coffer-dam in the canal was constructed, and such progress made on the wall as to nearly connect it with the embankment.

Section No. 4.

The outside retaining wall at the embankment west of lock No. 20 has been finished, with the exception of the central portion, where the coping and some of the top courses are wanting.

Section No. 10.

The supply weir at the guard-lock was completed in September, and, together with the new guard-lock, has since been brought into use.

The foundation of the supply weir at lock No. 18 was begun 9th November, and

continued until stopped by frost.

Protection to banks has been commenced near the old guard-lock, and also below lock No. 18.

Work on the lock gates is well advanced, one pair has been placed in position

at each of the new locks Nos. 18, 19 and 20.

All plant, and building materials required for an early commencement of the

masonry next spring, have been provided.

Dredging, which was commenced at the upper entrance, section No. 10, on the 6th of April, and on the works below the guard-lock, section No. 8, on the 2nd May, has thus far been carried on without interruption, and will be continued until the close

The deepening and widening of the channel is now nearing completion, the work

remaining to be done is chiefly on sections 4, 5 and 8.

The straightening of the channel way has only recently been commenced.

Sections 6 and 7.

All work has been suspended since July, 1891, pending a decision on the question of the "Sheik's Island Dams," for which location surveys have recently been completed.

The material from the dredges has generally been placed in spoil, and, when

seasoned, used in the work for enlarging the embankments.

At the western end of the canal, however, a large portion of the dredged material

has been wasted in the river south of Wagner's Island.

Good progress has been made with the work of reinforcing the high embankments west of lock No. 18, and preparations are now being made to deal with that to the east of lock No. 20 in a similar manner; and very satisfactory work has been done during the season upon the heavy embankment on the north side of the canal, in connection with the widening and straightening at Robertson's culvert.

The only important slide which occurred during the past season was that in the high bank at the head of lock No. 19; it was, however, discovered in time, and means

adopted to prevent further damage.

Additional land on the north side of the canal, above lock No. 18, has been

required for the purpose of straightening the channel.

Attention is directed to the necessity which exists for the widening and straightening of the upper entrance to this canal, also to the propriety of extending and improving the direction of the north pier at the lower entrance, and to the proposed raising of the level of the coping of the new guard lock, from 18 inches to 2 feet, to provide protection to the works during high stages of the river.

WILLIAMSBURG CANALS.

MAINTENANCE.

The several divisions of these canals, viz.: - Farran's Point, Rapide Plat, and the Point Iroquois Junction, and Galops, collectively styled the "Galops Canal," were closed for navigation on the 12th December, 1891. Navigation was resumed for the season of 1892, on the 25th of April last, and closed on the 13th of December.

The buoy service between Prescott and Dickinson's Landing was performed soon after the opening of navigation, and 13 new buoys substituted for those found

to be unfit for use.

The usual repairs were made on the buoy boat and scow.

No accidents of any importance are to be reported, except the death by drown. ing, off lock No. 26, of James Flinn, sen., one of the lock labourers, which occurred on the night of the 23rd of April last. A son (James Flinn) of the deceased has since been appointed his successor on the lock.

Navigation on these canals has been fairly well maintained, but few detentions have occurred other than from grounding, due chiefly to overloading, during the low stage of the river in the early part of the season, and to the contractors' operations on the work of enlargement, in the narrow channels at Rapide Plat and the Galops.

Slight breaks and leakages occurred in the long embankment forming the towpath of the Junction Canal, during the months of January and February last, which were temporarily repaired as soon as discovered and the bank afterwards further strengthened.

The mooring pier at "Pier Island," for which appropriations were made by Par-

liament in 1891 and 1892, has been completed at a cost of about \$1,000.

An agreement made with Murray & Cleveland, contractors at the Galops, to construct and deliver one pair of gates for the lower recess of lock No. 23, Rapide Plat, has been performed. These gates have been received at Morrisburg, and will be brought into use next season.

For the above service an appropriation of \$4,000 was made during the last

session of Parliament.

General repairs were made to the various structures, to lock-gates, bridges, &c.,

and also to the banks, booms and entrance piers.

The following fines have been imposed on the under-mentioned vessels, for want of care and disregard to canal regulations, viz.:-

Barge "	Duluth," 7th May,	1892	5	00
""	Imperial," 27th June	1892	5	00
Steamer	"Corsican," 3rd July,	1892	10	00
"	"Ocean," 10th Aug.,	1892	20	00
**	"Alexandria," 14th C	ot., 1892	20	00

The chain vessel "Iroquois," which was removed in 1891 to her present berth below Frazer's Point, is now resting on the bottom with her hold full of water, the engines and other machinery on the main deck are in good order, but her hull and upper works are rotten, and the boilers worn out. Under these circumstances, it is recommended that the structure should be sold as she now lies.

The superannuations and appointments for the past year are as under:

Robert Toye, lockmaster, 1st December, 1891, succeeded by Alexander B. Robertson, appointed 15th December, 1891.

Owing to the progress of the works of enlargement at lock No. 23, the lock labourers' dwelling must be removed. The men have already vacated it, and obtained

other quarters near the work, for which, as they are in the village of Morrisburg, an allowance of \$7 each per month is considered reasonable and has been allowed.

In addition to the ordinary repairs, the under-mentioned work has been per-

formed:-

At Farran's Point, lock No. 22, the lock labourers' house has been plastered and repaired, and two kitchens built, and the foundation, which is partly on cribwork, renewed and protected.

At Rapide Plat, Morrisburg, some extensive repairs were made to the lower gates at lock No. 23, and the buffer posts renewed. At lock No. 24, a boat was provided for use in connection with the gates and weir during low water stages.

The lowest water on the sill of lock No. 23, as recorded during the season of

navigation, was 7 feet 3 inches.

GALOPS CANAL.

At Lock No. 25, Iroquois, the houses of the lockmaster and lock labourers were plastered, &c., fences built, embankments and approaches at lock raised and gravelled, and some necessary repairs and renewals made on the swing bridge and entrance pier, &c.

At Lock No. 26, Cardinal, the swing bridge has been nearly rebuilt, the lower gates removed and replaced by others recently rebuilt, and the buffer posts renewed.

WILLIAMSBURG CANAL ENLARGEMENT CONSTRUCTION.

FARRAN'S POINT.

This canal is about $\frac{3}{4}$ of a mile in length, and has a lockage of $3\frac{1}{2}$ feet. It overcomes a short rapid above the village of Farran's Point, situated about 5 miles west of Dickinson's Landing, the head of the Cornwall Canal.

There are no works under the head of construction to report.

A location survey has, however, been made for the enlargement of this work, including a general survey and examination of the channel leading from the proposed new upper entrance at Empy's Point (Point Avoyon), following the north shore westward through the passage between Little Cat Island and the village of Aultsville, on the mainland; and from the present lower entrance, the survey was extended west to Baker's Point below the "Big Eddy," and connecting with the deep straight channel leading to the Cornwall Canal.

Plans have been prepared showing the proposed manner of enlarging and ex-

tending both of the entrances to this canal.

RAPIDE PLAT.

The lockage on this canal is 11½ feet, it surmounts the rapid of "Rapide Plat" and extends from the village of Morrisburg west to Flagg's Bay, about 3¾ miles.

The works now under contract and in progress, are as follows:-

Location.	Section.	Contractors.	Date of Contract.	Date of Completion.
Morrisburg	1	Poupore & Fraser	Jan. 26, 1891	April 1, 1894
Mariatown		The Weddel Dredging Co	1	
New Road	3	Poupore & Fraser	do 26, 1891	do 20, 1893
Flagg's Bay	4	William Broder	April 2, 1884	June 1,

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 consists in the deepening and widening of the old

channel, and in constructing new and enlarged locks and supply weirs.

No change in the existing alignment is contemplated or provided for in the contract, and attention is therefore directed to this omission, as it is believed that the class of vessels for which these enlarged canals are designed, will have great difficulty in navigating them.

Section No. 1 extends west along the river front of the village of Morrisburg. Dredging operations were commenced in April last, and will be continued until

the end of the season.

All material dredged has been deposited in the space between the tow-path and the new protection cribwork. This cribwork is now completed, and the contractors' coffer-dams for the new lock pit are being constructed in accordance with the modified

plan of 21st March, 1892.

The excavation for a trench for the "north wall," designed to have been executed by manual labbur, was inadvertently permitted to be commenced by dredging, resulting in the sliding and caving in of the high clay banks which the wall was intended to support. The plan of commencing the wall at the bottom of the canal had therefore to be abandoned, and a cribwork base substituted therefor having its face built on the same line and batter as the proposed wall, and carried up to the level of 2 feet below normal water in the canal.

The bank where scarped by dredging operations, is now sufficiently protected by the cribwork base, and by a facing of borrowed earth, and it is therefore believed

will suffer no further damage.

Upon and in rear of the cribwork, a berme will be formed of earth having its

slopes protected by dry masonry.

The above change in plan has involved the purchase of a strip of land about 15 feet wide, extending along the deeper portion of the cutting, and also of a "borrowpit" to furnish earth wherewith to restore the banks destroyed by the contractor's dredging operations, and for which, Mr. Ward, the Government valuator, has arranged with the owners.

The stone for the lock is being cut and prepared at Milleroches quarry, Cornwall

Canal, and that for retaining walls, &c., at the Wolf Island quarries.

Section No. 2 begins at the west end of the village of Morrisburg, and extends

westward to near Mariatown.

The work on this section consists chiefly of excavation, i.e., dredging, and dry work. Dredging operations were commenced on the 1st of April last and are still in progress.

The dry work, or excavation above water, which also commenced in April, was

stopped on the 1st of November.

Two dredges have been employed throughout the season, and a third is being built, and will be placed on the work early next season.

The bulk of the material dredged has been utilized in widening and strengthen-

ing the towing path and embankments.

Section No. 3 commences a short distance above Mariatown, and extends west to the vicinity of the guard lock (No. 24), and includes the widening and deepening of the east end of section No. 4, and also the spoil grounds, and other works connected with Flagg's Bay.

Work was begun by the steam excavator and a chartered dredge, in April last. The former was engaged on "dry work" on the high bank above water, and the dredge in prism excavation. Both machines will continue to work until the close of

the season.

The excavated material, or "dry work," is hauled by locomotives to the spoil

ground at Flagg's Bay.

The dredged material is conveyed in scows to the dumping ground on the south

side of the channel, near Ogden's Island.

The "new road" on the north side of the canal has been completed and in use since last September.

Upon the completion of the fencing, which is now in progress, it will be advisable to arrange with the municipal council of the township of Matilda, to assume the

control and maintenance of the road.

The work on section No. 4 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. The final estimate of this contract was completed by the late Mr. Killaly, the resident engineer.

GALOPS CANAL.

Point Iroquois Division. This canal as originally constructed was about 3 miles in length, with a lockage of 5 feet 7 inches at lock No. 25, in the village of Iroquois, from whence it extended westward to Presqu'Ile, overcoming the Point Iroquois rapid, and other stretches of swift water, notably that at Sparrowhawk's Point.

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 connecting it with the Galops.

The Junction Division commences at Presqu'Ile, and extends up stream to lock No. 26, at the village of Cardinal. It chiefly consists of an embankment about $2\frac{1}{2}$ miles in length, built in the river, to connect the Galops and Point Iroquois divisions, and thereby, as stated above, raise and afford a means of controlling the level of the water in the Iroquois reach.

The fall in the river between the above-mentioned canals is 1 foot 7½ inches.

Work on the junction was completed in 1856.

There are no works of construction on either of the divisions whereon to report.

Surveys have been made during the past season to obtain data upon which the

scheme of enlargement may be definitely decided.

Galops Division. This, the original Galops Canal, had a lockage of 6 feet 8 inches, and extended upwards from the village of Cardinal, about two 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 cribwork was

extended up stream, and the lockage or fall increased 11½ inches.

The guard lock No. 27 at the upper entrance is the most westerly lock on the St. Lawrence navigation.

Upper Entrance.

The work now under contract and in progress, and for which Messrs. Murray & Cleveland are the contractors, was commenced in 1889. Their contract was entered into 14th November, 1888, to be completed 15th of June, 1891. Itembraces the construction of a lift lock, and of a guard lock and supply weir, also the deepening, Widening and straightening of the channel from the upper entrance to Round Bay, a distance of about one mile, and the removal of the old guard lock, &c., &c.

Masonry was commenced on the 25th of April last, and stopped on the 25th of

November.

Work as under has been done during the season, viz.:

The walls of the lift lock, the paving in tail bay of guard lock, and the extension of the upper and lower wing walls of the latter, have been completed.

Two pairs of gates for the guard lock have also been completed ready for launching, and a quantity of timber framed and prepared for the gates of the lift lock.

The greater part of the protection cribwork to be used in straightening the tow-path above McLaughlin's Point has been framed, and a number of the cribs built and launched.

The dredging and drilling and blasting operations were begun in May and have been continued without interruption throughout the season.

All dredged material, except rock required on the work, has been conveyed in

dump scows to the dumping ground between Pier and Squaw Islands.

The coffer-dams continue staunch and water-tight.

A large quantity of dressed stone from the Belleville quarries has been delivered. also packing from the Galops quarry, situated near the work, which produces stone

of excellent quality.

With a view to prevent accidents which might be caused by failure from any cause of the gates of the lift lock, it is proposed to extend the masonry far enough to form the recess for a pair of "guard gates," and, as in the case of the guard lock on the Cornwall Canal, it may become necessary to raise the level of the coping of both the lift and guard locks.

A survey has been made of the lower portion of this canal, for the purpose of deciding upon the nature of the enlargement, and a location survey of the north

channel leading westwards from the upper entrance, has been completed.

Galops Rapid Improvement.

E: E. Gilbert & Sons, contractors. Contract entered into 5th August, 1879, to

be completed 1st June, 1881.

The "Galops Rapid improvements" consisted in the formation, by subaqueous excavation, of a straight channel 200 feet wide and 17 feet deep through the shoals termed respectively "Upper Bar," "North" and "Caledonia" shoals, "Island" shoal and "Lower Bar," the whole of which are included in a distance of 3,300 feet.

The work was completed in November, 1888, and tested as directed by the late

Chief Engineer, who in 1889 reported as follows:

"The channel undertaken some years ago to be formed through these rapids has been completed. It is now 200 feet in width, straight and from 16½ to 17 feet in depth; but pilots, as usual, prefer putting up with all the disadvantages of the old. crooked, shallow line rather than use a new one with which they are unfamiliar.

"It is no uncommon occurrence for even this important and useful class of men to be a little prejudiced in favour of a route they have been accustomed to follow. It is, however, quite likely that the new line will, ere long, be found the most advantageous; at all events, this is certain to be the case when a larger, deeper-laden class of vessels are brought into use."

In May last the south side of the new channel was marked by five buoys. The channel, which was first brought into general use last year, is navigated by many of the large propellers, and other vessels, drawing over nine feet of water,

but is systematically avoided by the forwarding companies' barges.

The channel was examined and surveyed by officers of the department in 1891, and reported upon by me. Obstructions were found to exist on either side of the Centre Range Marks: these the contractors asserted consisted of loose rock shoved into the channel since its completion, by ice, or from other natural causes.

Another, and a much more elaborate survey, is now nearly completed. It has been in progress since last May, under the direction of Mr. Kennedy, Chief Engineer to the Montreal Harbour Commissioners. The survey will probably represent with the greatest accuracy, and minuteness, the depth and width of the channel, and generally its present condition, but it is doubtful if the nature of the obstructions. whether rock in situ, or loose rock, will be determined.

This the most important question as stated in my last annual report, can only be satisfactorily decided, by sending a properly equipped dredging plant, to make

an actual test of the material in the channel.

The survey ordered by the department, of the bed of the river, including also the new channel and its approaches and banks, which was commenced in 1891, was discontinued last season, for the reason that the operations connected therewith might to some extent interfere with Mr. Kennedy's work. The survey steamer "Anderson" which had been specially fitted for the work, was consequently transferred to the survey of the north channel.

The North Channel.

This channel from the Galops to the head of Spencer's Island, from its sheltered position, and moderate current, may be regarded as an extension of the Galops Canal.

From Prescott, to the head of the Galops Canal, the distance by this channel is seven miles, or two-thirds of a mile shorter than by the main channel through American waters.

The channel was thoroughly explored during my survey of the river in 1872, and early in October of that year, with the water on the sill of lock No. 27 at 8 feet 10 inches, the tug steamer "Glide" drawing 8 feet 3 inches with five barges light, passed up the channel guarded by the survey buoys.

Subsequently, in October, 1876, with the water 9 feet 4 inches on the sill, a large three-masted vessel, the "Hemisphere" drawing 9 feet of water, was successfully piloted down this channel to the canal, by Capt. Moore, of Prescott, assisted by

the tug "Arctic."

After leaving the canal, and clearing the shoals off Boulton's Point, the channel lies through deep still water in Munro's Bay, and following the general direction of the Canadian shore to Luttle's Point, passing through the passage between it and Duck Island, thence leaving the mainland, a deep channel, with a moderate uniform current leads up between Drummond's and Spencer's Islands, and the banks below them, to the open water above the islands; at this point the current becomes stronger, and the channel, assuming the direction of the Windmill light, runs in deep water, through a passage between the shoals off Wright's Point, and the spit here abreast of the black buoys which mark the north point of Chimney Point reef, all obstacles are passed, and the main navigable channel leading to Lake Ontario reached.

This work has been thoroughly re-examined during the past season, and a location survey completed. The line as now recommended differs slightly from that represented on the plans of preliminary survey made in 1872, in the matter of curves,

&c., the route, however, is the same.

Accurate cross sections have been made throughout, and drillings and borings

made to test the material to be excavated.

The plans and specifications required for placing the work under contract are

being prepared.

Spencer's Island near the head of the channel (held on Indian lease) has been acquired for use as service ground and as the base of operations during construction, also 1\frac{1}{3} acres of land on Luttle's Point, with right of way thereto, over a private road, has been purchased for the pupose of securing convenient access to the work

MURRAY CANAL.

MAINTENANCE.

The canal which was closed for traffic on the 16th December, for the season of 1891, was again opened for passage of vessels on the 6th of April, 1892, and closed for the season on the 5th of December.

Navigation was maintained in a satisfactory manner throughout the season, notwithstanding the continuance of the low stage of the water in Lake Ontario.

The temporary lights on the entrance piers should be replaced by more power-

ful ones, as suggested in last year's report.

The number of vessels passed through the canal from the 15th of November, 1891, to the 27th of October, 1892, was 847.

No accidents have occurred during this period.

The three road bridges have been painted and repaired, and are in good order.

The railway bridge has also been painted and adjusted from time to time, but it still works badly.

The Trenton road within canal limits has been well graded and gravelled, and

is now one of the best roads in the county.

The semaphores at the railway bridges are working to the satisfaction of the railway officials.

The stone protection to the banks has required and received constant attention.

The distance renewed, or repaired this season, has exceeded 8,000 feet.

The tow-path ditches have been opened throughout their entire length twice during the season.

The grass seed sown in 1891 has answered a good purpose in preserving the

slopes of the spoil banks.

A scow 55' x 15' x 3' has been built by the repairs staff, for their own use on the

The snags and sunken logs complained of last year have been kept out of the

channel by the steamer "Varina."

A close fence has been built on the north side of the canal, to prevent drift from the spoil banks covering the track of the Central Ontario Railway.

No fines were imposed during the past season.

CONSTRUCTION.

This work is situated at the head of the Bay of Quinté and extends from the channel, across the Isthmus of Murray, to Presqu'Ile Bay, on Lake Ontario, a natural harbour, and the future western terminus of river navigation.

This the "Harbour of Refuge" of the north-east shore of the lake, lies near the village of Brighton, about 75 miles west of Kingston, and within 120 miles of Port

Dalhousie, the entrance to the Welland Canal.

J. D. Silcox & Co., contractors. Contract entered into 24th of August, 1882, to be completed 1st of July, 1885.

The works included in the contract are embraced in a distance of 91 miles, and

consist in: 1. The cutting or canal proper, through the isthmus, and the formation by dredging and piers of convenient entrances at either end, a distance of fully 6 miles located on a direct line from navigable water in the Bay of Quinté through Twelve o'Clock Point, Dead Creek Marsh, Wuse's Creek and the Brighton wharf.

The canal is practically an artificial "strait" or channel without locks, and is

crossed by one railway, the Central Ontario, and three highway bridges.

2. The formation by dredging of the new entrance and channel to the harbour, through the "middle ground" and the other shoals which obstruct the present entrance, and also the channel near the Brighton shore, to connect the harbour with the upper entrance to the "strait," a distance of about 3 miles.

The width of the channel across the isthmus is 80 feet on bottom, and that of the entrances thereto 200 feet, with a depth at ordinary low water (or zero of the Toronto harbour gauge) of 12 feet 6 inches, fully 1 foot below the level of the

"Telegraph Island" and other shoals in the Bay of Quinté.

The new entrance to the Presqu'Ile harbour is "bell-mouthed" in shape, and varies in width from over 1,000 feet in the lake outside the main light, to 200 feet in

the channel-way off Salt Point light, with a maximum depth of 16 feet.

In connection with the harbour and new entrance, the attention of the department is again called to the necessity for immediate action, with a view to the preservation of the standing timber remaining on the Presqu'Ile peninsula.

The work was actually completed in August, 1889, by Mr. A. J. Mowry, of Syracuse, one of the original contractors, who is now the sole representative of the

firm of J. D. Silcox & Co.

The final estimate has been completed, and is now with the Chief Engineer to be considered.

SURVEY OF ST. LAWRENCE RIVER AND CANALS.

The work done under this head during the past season, may be summarized as follows :-

A location survey of the proposed dams in the Sheik's Island Channel has been made, and the work is being prepared for letting.

A survey, with a view to straighten and improve the upper entrance of the Cornwall Canal, is in progress.

Some additional surveying in connection with the location of the Farran's Point

The shoals in the navigable reaches east and west of Rapide Plat Canal have been further examined; also those in the reach above the head of the Point Iroquois Canal.

Preliminary surveys have just been completed of the Point Iroquois junction and lower part of the "Old Galops" division of the Galops Canal, the plans of which

will be prepared and submitted this winter.

The survey for the chart of the river at the Galops Rapid, recommenced in May last, but was discontinued, when the survey and the test by Mr. Kennedy was ordered to be made.

A final location of the north or Canadian channel has been completed, and the

plans and specifications are being prepared.

In connection with the surveys it is submitted, that inasmuch as the charter of the steamer "Anderson" for two seasons would amount 10, or even exceed, the sum required to purchase and repair her, and since a vessel of her peculiar class, adapted for either survey or inspection is considered a necessity, in view of the extent of this district, and the works in progress, it is recommended, as a matter of economy, that her purchase be authorized.

A statement is appended showing the highest and lowest water during the past year, at each of the canals in the St. Lawrence district.

The variations of the water level on the different canals are not uniform. governing point assumed by the forwarding companies is at lock No. 23, Rapide Plat Canal, where the least depth of water on the mitre sill prevails at all stages of the river.

> I have the honour to be, sir, Your obedient servant,

> > TOM S. RUBIDGE, Superintending Engineer.

The Secretary,

Department of Railways and Canals, Ottawa.

STATEMENT of the Highest and Lowest Water on the Canals in the St. Lawrence District-1892.

٠ , ا	-;	i.	Ë	t-	9	∞	10	တ	œ	_	ವ	o.	2	-
Lake Ontario.	Canal.	Highest. Lowest.	F.	1 1	=	11	11	12	12	13	13	12	12	12
ce O	Murray	est.	In.	10	10	=	4	6	87	9	9	ಸಾ	-	6
Lal	Mu	High	F. 5.	=======================================	Ξ	1	12	12	13	13	13	13	13	12
				•	ಣ	2	83	9	-	6	81	4	-	ಣ
	70. 2	Low	Ft. In.	œ	L-	9	œ	o	6	6	6.	6.	6.	∞
	Lock No. 27.	eet.	In.	9		67	70	9	•	ಣ	က	ಣ	6.	0
	ĭ	High	F.	x	6	∞	6	6	10	10	10	10	6	10
	20	est.	li.	ေ	9	10	70	90	ဗ	•	1	4	0	4
	Lock No. 25.	Highest, Lowest, Highest, Lowest.	F.	∞	9	9	6	6.	10	12	10	11	10	6
	ck N	nest.	In.	•	ಣ	10	61	81	67	œ	9	∞	=	•
nal.	Ä	High	يو ا <u>ج</u>	10	6	о .	H	11	12	12	12	12	==	12
Williamsburg Canal.			In.	œ	5	œ	0	က	0	6	4	t-	67	•
asbur	60.2	Highest. Lowest.	F	, 7 0	က	4	-	L -	∞	œ	œ	∞	œ	2
illian	Lock No. 24.	hest.	In.	œ	6	81	9	9	t~	•	×	0	-	4
×	Ă	High	Ft.	-	9	t~	00	20	6	10	5.	10	6	6
	ಪ್	est.	li.	4	6	10	•	9	83	4	œ	5.	က	က
	No. 2	I S	F.	9	4	70	t-	L-	œ	6.	œ	œ	x	L-
	Lock No. 23.	Highest. Lowest.	Iņ	10	63	6	4	9	4	6	<u>.</u>	∞	6.	10
	A	Hig	F.t.	2	2	۲-	∞	80	6.	6.	<u></u>	6	∞	œ
	53	vest.	In.	0	•	10	-23	4	10	4	ಣ	ಣ	t-	10
	No. S	Highest, Lowest.	Ft	7	5	9	x	∞	∞	6	6.	6	∞	-
	Lock No. 22.	hest.	Ft. In.	~	•	×	•	81	10	ಣ	11	0	9	ಣ
	1	Hig	Ft.	œ	œ	œ	<u>с</u>	6.	6	20	<u>.</u>	10	6	6
	1.	rest.	In.	0	ಸ	22	3	0	4	0	6	11	5	10
		Low	F.	∞	ာ	<u>_</u>	∞	6	6	2	G.	<u>.</u>	6	œ
nal.	ock]	hest.	ji.	ಣ	60	4	œ	Ξ	20	о. ———	2	G 		2
Cornwall Canal.	1	Hig	F		œ	6	6	6	97	10	10	91	9	10
nwal	5.	rest.	ij	5	6	10	9	70	10	œ	۲-	4	10	6
Cor	Zo. 1	Low	F.	6	12	=======================================	G.		6	10	2	10	6	6
	Lock No. 15.	Highest, Lowest. Highest, Lowest.	Ft. In. Ft. In.	ေ	•	2	11	າວ	•	ಸ		10	က	9
	14	Hig	F.	क्ष	21	17	12	10	11	11	12	. 01	10	10
`	•	Month.		January	February	March	126	May	June	July	August 12	September.	October	November. 10

APPENDIX No. 7.

OTTAWA RIVER CANALS.

SUPERINTENDING ENGINEER'S OFFICE, OTTAWA, 5th December, 1892.

Sir,—I have the honour to hand you the annual report on the Ottawa River Canals for the fiscal year ended the 30th June, 1892.

The navigation on these canals has been maintained throughout the year without accident or interruption of any kind.

STE. ANNE'S LOCK.

Navigation was closed here on the 26th November, 1891, and reopened on the 29th April, 1892.

Repairs.

The lock-walls, lock-gates, piers, bridges, fences and buildings received the ordinary amount of attention and were kept in good working order.

A new anchor pier was built between Ile aux Tourtes and the head of the channel above the new lock.

Income.

The strengthening of the old Grand Trunk Railway pier, forming the south side of the lower canal basin, commenced in 1890, and somewhat fully described in last year's report, was brought to completion in May last. This work consists of a crib foundation 1,160 feet long, built alongside of the old pier and firmly anchored to the river bottom, and of a heavy wall laid in hydraulic cement mortar on top of it. The whole is substantially built, and forms a safe protection to the basin below the lock.

CARILLON CANAL.

This canal was closed on the 28th November, 1891, and reopened on the 30th April, 1892.

The repairs done here during the season were as follows:-

Enlargement of mooring-pier at head of old canal by the addition of a new crib $24 \times 26 \times 20$ feet alongside of it.

Sheeting lower end of guide-pier below lock No. 1.

Erection of a storehouse on the north bank of the canal above lock No. 1. This rests on a good stone foundation, and is 80 feet long by 18 feet wide and some 20 feet high.

The various structures, buildings, fences, bridges, roads, &c., have also been

kept in a satisfactory state of repair throughout the year.

CARILLON DAM,

Income.

An examination of this important structure in the fall of 1890 gave serious fears as to its safety, and consequently a sum of \$15,000 was asked for and appropriated by Parliament at its following session towards strengthening and staunching it. Work was commenced in the month of October, 1891, and pushed as speedily as possible up to the middle of November, when the men were driven away by the rising water, and steps immediately taken to help the ice to form on the dam and

from the shores, in order to complete the parts undertaken before the following

spring.

In the latter part of January a good road had been thus formed from both shores and men were again set to work, with the results that, on the 1st April following, over 400 feet in length of the dam were thoroughly repaired. A great many of the cribs forming the apron were found to be nearly empty; these were refilled with boulders, and the apron itself lengthened from 12 to 25 feet for a distance of 125 feet, and from 20 to 42 feet for another distance of 70 feet.

Besides this the whole of the apron was raised for a total length of 410 feet and given a gentle slope from the crest of the dam downwards, thus allowing the water to glide over the structure instead of falling down upon it a height of 9 feet as before. This is considered to be a material improvement, besides making the whole structure much heavier, which is a point of primary importance in all such structures.

The apron was sheeted over with rock elm 10 inches thick, firmly bolted together and to the cribwork underneath. In a couple of places a quantity of boulders was dumped above the dam and the embankment thus formed brought up to the

level of the foundation cribs.

From the 1st April to the 30th June, a few men were kept busy preparing for

next season operations.

It was highly time that this work, were undertaken, otherwise an accident might have happened by which the whole navigation of the Ottawa river would have been stopped, or at least materially interfered with, some portions of the dam having been found in a most dangerous condition

GRENVILLE CANAL.

The closing and reopening of navigation here occurred on the same dates as on the Carillon Canal.

A good deal of work had to be done in the spring to clean the canal prism,

especially on section 2 where the soft banks are continually washed down.

The tow-path was levelled and otherwise repaired for a distance of about one

mile on section 2.

Two towing bridges at lock No. 5 were renewed and placed in a position better calculated to facilitate the towage of vessels into the lock.

The swing-bridge across lock 7 was also repaired, and one pair of valves in the

lower gate of this lock renewed.

In November last it was considered necessary to remove the filling behind the south wing wall at the head of lock No. 7. This wall, as well as the one on the north side, is built on cribwork, and owing to some cause or other has been so displaced that it may fall down into the canal at any time. The broken stone forming the filling behind the south one was removed down to the water level, and in April last, a layer of brush, some 5 feet thick, was deposited at the bottom of the trench and covered up with the material taken out in the fall. This was packed by hand in horizontal layers so as to lessen the pressure on the wall pending its reconstruction.

In addition to the above, the various structures, roads and fences connected with

this canal were kept in good condition during the year.

CULBUTE CANAL.

There is very little to be said about this canal, beyond the fact that it was kept in good working order and in such a state as to accommodate the small traffic going through it.

I have the honour to be, sir,

Your obedient servant,

ERNEST MARCEAU,
Assistant Superintending Engineeer, O.R.C.

The Secretary,

Department of Railways and Canals.

STE. ANNE'S LOCK.

STATEMENT showing the depth of the River Water on the Mitro Sills of Ste. Anne's Lock, during the Fiscal Year ending 30th June, 1892.

Months.	Lock	No. 1,	Lower	Sill.	Lock No. 1, Upper Sill.			
MONUE.	Highest.		Lowest.		Highest.		Lowest.	
1891.	ft.	in.	ft.	in.	ft.	in.	ft.	in.
July. August. September. October. November. December.	11 10 10	5 5 9 0 7 1	11 10 10 9 9	1 9 0 5 2 7	12 12 12 11 13 13	8 9 0 4 0 10	11 11 11 10 10 12	9 10 1 10 5 3
1892.		ļ						
January February March April May. June	11 10 13	5 9 5 9 0	10 9 9 10 11 11	9 0 0 8 0 7	12 11 11 14 13 14	5 0 10 6 6	11 10 10 10 12 13	5 10 2 3 6 4

CABILLON CANAL.

STATEMENT showing the depth of the River Water on the Mitre Sills of Locks Nos. 1 and 2, Carillon Canal, during the Fiscal Year ending 30th June, 1892.

Months.	Lock No.	l, Lower Sill.	Lock No. 2, Upper Sill.			
MORVID.	Highest.	Lowest.	Highest.	Lowest.		
1891.	ft. in.	ft. in.	ft. in.	ft. in.		
July. August September	14 3	$\begin{array}{c cccc} 12 & 10 \\ 12 & 11 \\ 12 & 4 \end{array}$	14 0 14 1 13, 0	$\begin{array}{ccc} 13 & 0 \\ 12 & 10 \\ 12 & 2 \end{array}$		
October November December	12 8	11 9 11 7 14 1	12 3 15 6 15 6	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		
1892.				/		
anuary Pebruary March.	13 10	13 10 12 6 11 9	17 0 13 6 12 4	13 6 12 4 11 0		
April May. June	17 4	11 11 14 3 14 8	16 3 15 4 16 3	11 6 14 6 14 10		

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 ending 30th June, 1892.

•	Lock 1	No. 3,	Lower	Sill.	Lock No. 7, Upper Sill.			
Months.	High	Highest.		Lowest.		Highest.		est.
1891.	ft.	in.	ft.	in.	ft.	in.	ft.	in.
July. August September October November. December	17 15 14	10 0 6 8 4 4	15 15 14 14 13 16	6 4 5 0 0 10	14 14 13 12 15 15	6 7 7 4 6 6	12 12 11 11 10 14	9 10 9 4 7 3
1892. January February March April May. June	19 18 20	0 6 6 8 6	17 16 15 15 17 14	0 0 6 6 8	14 13 12 17 16 17	4 0 6 6 0	13 12 10 10 15 15	0 6 9 8 0 8

CARILLON CANAL.

STATEMENT of Fines and Damages collected during the Fiscal Year ending 30th June, 1892.

Date.	Name of Vessels.	' Name of Owner.	Fines.	Damages.	Totals.
1891. 1st Oct	James Averill, Jun	Cap. Robert	\$ cts.	\$ cts.	\$ cts. 5 00

Damage to lock No 1.

GRENVILLE CANAL.

STATEMENT of Fines and Damages collected during the Fiscal Year ending 30th June, 1892.

Date.	Name of Vessels.	Name of Owner.	Fines.	Damages.	Totals.
1891.			\$ cts.	\$ cts.	\$ cts.
12th Aug	Timber	W. R. Machan	10 00		10 00
,	4				

For incorrectly reporting a quantity of timber passed through Canal.

APPENDIX No. 8.

SOULANGES CANAL.

Engineer's Office, COTEAU LANDING, P.Q., 5th November, 1892.

Sir.—I have the honour to report as follows:—

Surveys for an enlarged canal between Lakes St. Louis and St. Francis were made by Mr. G. F. Baillairgé, C.E., as far back as 1872-74. He reported in favour of a route between Coteau Landing and Cascades Point on the north shore. This was intended for a twelve-foot navigation—the scale adopted prior to 1875. Estimated cost \$3,360,000.

The question of this canal remained in abeyance until 1889, when extended examinations were begun with a view to a fourteen-foot navigation, and continued for two years. The line recommended in the early part of 1891 (see printed reports) being adopted by the Government after considerable discussion. Estimated cost

\$4,750,000.

The present termini do not differ much from the location of 1872-74; but the canal line between them, 14 miles long, is now, for all navigation purposes, practically straight; there being only two curves in this distance, each of very large radius.

The total rise of about $82\frac{1}{2}$ feet between the lakes will be overcome by five lift locks, four of 171 feet lift each, and one of variable lift. There will also be a guard lock at the upper end of the canal; the submit level being about 102 miles long; and for more than one-half of this length the canal is in embankment below the mean level of Lake St. Francis. At some places these banks are about 30 feet high. On the Beauharnois Canal there are nine locks (including the guard lock) to overcome the same rise, viz., $82\frac{1}{2}$ feet.

It may be well to place on record, in this report, the principal differences between the plans of structures, &c., on this canal and those hitherto carried out on

the enlarged Welland, Cornwall and Lachine Canals.

1. The superstructure of the entrance piers will be of concrete with copings of

Mooring posts of cast-iron.

2. The use of timber in the lock bottoms has been discontinued—the foundations

being entirely of concrete and stone.

3. The side walls of the locks are differently proportioned to those of the Welland Canal. The cross section is heavier and wider at the base; whilst the rear is stepped almost from the bottom to the frost batter behind the coping.

4. The locks will be filled and emptied through culverts formed in the side walls running the whole length of the chamber, and connected with it by numerous openings. The discharge will be controlled by steel sluices of the "Stoney" pattern.

5. The upper gates will be placed upon a curved breast wall of solid masonry.

6. The gates will be framed, and suspended so as to avoid the use of either toe

rollers or segment rails. They will not be pierced by valve holes, and will be operactd by electrical power together with all the bridges, weirs, &c., throughout the whole length of the canal.

7. The weirs will regulate the height of water in the several reaches by an automatic electrical apparatus connected with their sluice gates. The water will not be partly discharged over a breast as heretofore: the arrangements being quite

different from those of the weirs now in use on the canals.

8. The road bridge; will not have a pivot pier placed in the centre of the canal. They will be made so that one arm will swing across the entire width between the toes of the inside slope, or one hundred feet.

9. The culverts to pass the rivers Delisle, Rouge, and à-la-Graisse under the canal will be formed of one or more lines of cast-iron tubes of ten feet diameter; embedded in concrete masses with wells atea ch end for the reception and discharge of the flowing water.

10. Concrete will be generally used where deemed advisable throughout the locks, weirs, bridges, &c., of the canal instead of the stone masonry construction hitherto adopted. Reasons for this course are given in my report on the Manchester

Ship Canal, pp. 11 and 12.

Several minor improvements will also be effected in construction: the objects kept steadily in view being rapid transit, and the reduction to a minimum of the cost of future maintenance operation and repairs of this important link on the enlarged navigation. It may be said in this connection that the position of the canal with reference to the river both as regards line and level is peculiarly advantageous for the cheap development of electrical power of such extent as will enable it to be freely used in the operation of all structures, the lighting of the canal, and, if considered advisable, the introduction of cable or other systems of towing by which vessels of full size (about 2,000 tons) may be safely and expeditiously passed through the canal without using their own steam, except perhaps on a portion of the summit or long level. The point selected for a power station is at the crossing of the River a-la-Graisse, where the surface of the water in the canal will be about 20 feet above the St. Lawrence, the shore of which is distant only 600 feet.

Ten per cent of a moderate flow through the prism at this place would yield

between 500 and 1,000 horse-power.

The details of this station are now being considered in conjunction with a plan for a gate yard and culverts to afford means for a rapid discharge of the summit level in case of accident to its banks in the reach below the guard lock. It may also be noted that the Soulanges Canal will overcome about two-fifths of the entire lockage between Montreal and Kingston; the average lift of lock being more than twice that which obtains on the other river canals.

The fall between Coteau Landing and Cascades Point is relatively much greater than on any similar length of the St. Lawrence between Lake Ontario and tide

water.

The line has been subdivided into 13 sections. Tenders were received for the western three of these extending from Lake St. Francis to the Delisle River Crossing in January last. Also for two sections at the eastern or Cascades end in August. Three sections below the Delisle (Nos. 8, 9 and 10) are now advertised for tenders which will be received up to the 22nd of the present month of November.

These eight sections constitute about 45 per cent of the whole length of 14 miles; but as they embrace the entrance works at both ends and all the lift locks but one (No. 5) they will probably represent about 75 per cent of the estimated cost

of construction of the completed canal.

The present state of affairs is briefly as follows:-

Section No. 13 was awarded to Randolph Macdonald. As before stated, tenders were received in January last, but the contract is dated 24th September, 1892, by which period the season was practically over and the contractor could therefore do no more than make preparations for an early commencement in the spring of next year. The works included are the construction of the entrance piers and channel at Lake St. Francis—a guard lock—road and railway bridges, together with a considerable amount of dredging and earth excavation.

Section No. 12. Denis O'Brien & Son. This contract is dated 8th April, 1892. Some progress has been made with the earth excavation, of which over 100,000 cubic yards have been done, representing about one fifth of the whole. But the rock, of which there is about 100,000 cubic yards on the section, remains untouched to

date

Section No. 11. This section embraces a large culvert for the passage of the Delisle River under the canal; and a considerable amount of earth and rock excavation. The contract is dated 11th May, 1892. The progress made with this work is exceptionally slow and unsatisfactory. During the past season about 60,000 cubic

yards of earth have been removed, but none of the tubes for the culvert have as yet been cast, although the specification calls for their delivery during the season of 1892 now nearly past.

Sections Nos. 10, 9 and 8 are, as previously stated, advertised for tenders which

will be received up to the 22nd instant.

Sections Nos. 1 and 2 were let to Mr. Archibald Stewart, contract dated 24th September, 1892. The works embraced in this contract are the construction of four lift locks, four regulating weirs, retaining walls, &c., together with the piers at the Cascades entrance, and a large amount of rock and earth excavation. Operations were begun shortly after the work was awarded and some earthwork has been done. Preparations are being made to push the whole work energetically next season.

In the general danger of this canal, the spoiling of materials close to the prism in high and unsightly heaps has been avoided for obvious reasons. For the purpose of wasting, additional land has been purchased towards the western end where the prism is in heavy excavation. Along the eastern half of the summit level where the banks are high, it is intended to first carefully form the water-tight portions on each side of the canal, and subsequently use these as a level trackway upon which a portion of the surplus material to the west can be hauled forward by locomotives and cars, and deposited by tipping outside the banks already made so as to widen and strengthen them as far as possible where under the water level of Lake St. Francis, thus lessening the risk of accident; and also partly avoiding the necessity of purchasing an extra area of land off the line of the canal.

It may also be said that in order to reduce the damages consequent upon cutting across the farms, a macadamized road for public travel will be constructed on the north side of the canal between its terminal points, to which free access will be given. It is believed that this will greatly benefit the adjacent proprietors and form an excellent means of communication entirely separate from the towing paths.

Nearly all the land-owners between the River Delisle and the head of the canal have been settled with; and the valuators are now engaged in arranging for the areas expropriated in the vicinity of Cascades Point.

I am sir, Your obedient servant,

THOMAS MONRO,

M. Inst. C.E., Engineer Soulanges Canal.

T. TRUDEAU, Esq.,
Deputy Minister and Chief Engineer of Canals,
Ottawa.

APPENDIX No. 9.

WELLAND CANAL.

St. Catharines, 23rd November, 1892.

Sir,—I have the honour to report upon the Welland Canal and its branches, for the fiscal year ending the 30th June, 1892.

Commencing at Port Dalhousie, the first important item of repair was at the stone wall separating the new and the old canals, where the water had found its way under the wall in many places, the soft material between the piles on which the wall was built having been partly washed away.

From the caisson which closes the passage between the new and the old canals, to the south end of the wall, the repair was effected by driving a row of tongued and grooved hard wood sheet piles, outside the footing-course on the new canal side of the wall, and filling in with concrete the washed out spaces between the sheet piling, and the piles supporting the wall.

The result has so far been satisfactory.

At locks No. 10 and 11, the lower wing walls on the west side of the canal, which at their outer ends rested on a clay slope of 2 to 1 had gradually settled down and moved forward, until their removal and rebuilding became necessary.

This work was accomplished in the months of March and April last, when the

levels were unwatered at the locks mentioned.

Before rebuilding the wing walls, sheet piling was driven at the toe of the walls where considered necessary, on both sides of the canal and was strengthened by timbers laid across the canal from side to side, below the level of the bottom, and bolted to piles driven for the purpose at intervals.

The walls were then rebuilt on the original lines.

In the "Deep Cut" between Allanburgh and Port Robinson, the very desirable work of sodding the long flat slopes was completed, the surface sodded amounting to 299,238 square yards.

The endless repairs of lock gates, bridges, and weirs, embankments and ditches, have been attended to, and though small individually, represent a large sum in

materials and labour.

On the old canal, lock gates were rebuilt where necessary, additional valves were put in some of the weirs to admit of a more complete control of the water than hitherto, and between Thorold and Allanburgh, the "Higgins Culvert" under the canal was renewed.

On the line of the Feeder, the usual repairs to embankments were substantially

made in places, with stone from the canal spoil banks near Humberston.

Between Stromness and Dunville, at the crossing of the Inman Line, a float bridge for teams was constructed, which has answered a good purpose, and at Dunnville, the approach to the fish pass in the Dunnville dam received attention, and is now in good order.

'No interruption of traffic worthy of notice occurred during the year, which may be attributed to a closer observance of canal rules in the matter of getting out lines,

when vessels are entering locks.

The low water of the previous year continued until about the opening of navigation in 1892, when 14 feet of water upon the mitre sills of the new lock at Port Colborne was again reached, and that depth was maintained throughout the canal for the remainder of the fiscal year.

In connection with return to the normal level of the water in Lake Erie, it may not be out of place to call attention to the fact that the Old Canal above lock No 3, is now seldom used for the passage of vessels and consequently affords better facilities than ever for utilizing the surplus water for power.

This in connection with throughly tested appliances for conveying power by electricity, to more desirable locations than the immediate neighbourhood of the power sometimes affords, suggests the possibility of making the old canal a source of revenue to the Government while promoting manufacturing industries in a locality which possesses rare facilities for manufacturing and distributing a variety of supplies.

The canal was closed 17th December, 1891, and was opened for navigation 19th

April, 1892.

Attached will be found a statement of the monthly highest and lowest water on the mitre sills of locks Nos. 1 and 27, at Port Dalhousie and Port Colborne respectively, during the fiscal year ending 30th June, 1892.

I have the honour to be, sir,

Your obedient servant,

W. G. THOMPSON,

Superintending Engineer.

T. TRUDBAU, Esq.,
Acting Secretary, Dept. Railways and Canals,
Ottawa.

" A."

STATEMENT of Fines and Damages collected from Vessels and Steamers, during the Fiscal Year ending 30th June, 1892.

Date. •		Name of Vessel and Steamer.	Amount of Damages.
1891.			\$ cts
November 11	Steamer ''	askin "	21 95 78 3 6
December 11	do " do "	Celtic " Ohio "	19 94 58 59
1892.			
January 15 June 9	Steamer " do "	Pentagont "	242 54
do	Schooner "	Josephine "	75 00 20 00
d o	Steamer "	Puablo "	15 50
	do "	Rosedale "	10 00
June 20	do "I	Northerner "	35 82
		Total	574 70

 Deposited with H. H. Collier, Collector, St. Catharines.
 \$338.88

 do
 W. B. Clarke, Port Dalhousie.
 35.82

 \$574.70
 \$574.70

"B."

STATEMENT showing the Highest and Lowest Water on the Mitre Sill of New Lock No. 1, at Port Dalhousie, Welland Canal, for the Fiscal Year ending 30th June, 1892.

Months.		Uppe	r Sill.		Months.	Upper Sill.			
	High	est.	Low	est.	Months.	Highest.		Lowest	
1891.	ft.	in.	ft.	in.	1892.	ft.	in.	ft.	in
July August. September. October. November December.	16 16 16 15 14 16	8 4 0 5 7 2	16 15 15 14 13	10	January . February . March . April . May . June .	14 14 14 15 15	8 8 2 5 11	14 14 14 14 14 15	10

"C."

STATEMENT showing the Highest and Lowest Water on the Lower Mitre Sill of New Lock No. 27, at Port Colborne, Welland Canal, for the Fiscal Year ending 30th June, 1892.

Months.		Lowe	r Sill.		Months.	Lower Sill.				
	High	nest.	Low	est.	MORGIES.	Highest.		Lowest.		
1891.	ft.	in.	ft.	in.	1892.	ft.	in.	ft.	in.	
July August. September. October. November December.	15	1 5 7 11 1	14 14 13 12 13 12	9 10 4	January February March April May June	14 14 14 14 15 16	10 4 8 8 9 3	13 12 12 13 14 14	3 5 5 0	

APPENDIX No. 10.

RIDEAU CANAL OFFICE,

OTTAWA, 29th October, 1892.

Sir,—I have the honour to submit the annual report of the works under my charge for the fiscal year ended 30th June, 1892.

Navigation closed at Ottawa, 28th November, 1891.

do do Kingston Mills do 1891.

do opened at Ottawa, 2nd May, 1892.

do do Kingston Mills, 1st May, 1892.

On both the ascending and descending reaches from the summit (Little Rideau Lake) the water in the several levels was maintained to give the required depth of water on the lock sills throughout the season of navigation.

The freshets at the commencement of the sesson were unprecedently high, but

passed off without material damage to the works.

Navigation has been uninterrupted during the whole season.

The principal repairs along the canal were as follows:-

Kingston Mills.

One hundred cubic yards of stone and gravel placed on embankment; one pair of lock gates renewed; four chain blocks, and other repairs to station.

Davis' Lock.

One pair of lock gates renewed; one pair of swing beams, and storage dam at Hart Lake repaired.

Chaffey's.

Bulkhead renewed, and masonry of wing walls repaired.

Narrows.

One pair of lock gates renewed; six new chain blocks.

Poonamalie.

Bulkhead renewed, and two new piers built on each side of same. Flange frames renewed, and sundry small repairs.

Smith's Falls.

Bulkhead renewed, and sundry repairs to lock.

Maitland's.

Bulkhead renewed, and the discharge increased by two more openings; upper lock gates repaired.

· Long Island.

One pair of new lock-gates; six new chain blocks, and sundry repairs to station.

Black Rapids.

One pair of lock-gates renewed, and sundry small repairs to station.

137

Hartwell's.

One pair of lock-gates renewed; repairs to waste-weir; two new sluice frames; four chain blocks, cut between Hartwell's and Hogsback, cleared of loose stone and boulders; also "Mutchmor's Cut," between Hartwell's and Bank Street, cleaned out.

Ottawa.

Lower lock-gates renewed; new storehouse built to replace the one destroyed by fire; lower lock cleaned out by diver; two stone piers rebuilt between locks Nos. 8 and 9; lock gates painted, and general repairs to station; lock-house and men's quarters fitted up with incandescent electric lights.

WORKS FOR WHICH SPECIAL APPROPRIATIONS WERE VOTED BY PARLIAMENT.

Ottawa.

The west side of the basin was excavated to give an uniform depth of not less than 6 feet, to correspond with the excavation on the east side of the basin which was done the previous winter.

The old slip was cleaned out and cribbed round the sides, a stop log entrance being prepared, so as to enable it to be used as a dry dock if necessary. Safety chains were placed round the basin and the rock cut leading to the eight locks, and were the means of saving life.

Hogsback.

A contract was entered into with Mr. F. Toms, of Ottawa, to excavate a channel through the rock on the east side of the old bulkhead, and a new bulkhead built containing seven openings of 20 feet wide and 6 feet deep, and one centre opening 21 feet wide and 17 feet deep.

This gives a discharge area of nearly 1,200 square feet if necessary, during spring freshets, or about three times the former discharge area. The material excavated out of the rock cutting was placed at the back of the day dam in order to strengthen it.

It is to be hoped that these improvements will effectually allay the anxiety usually felt every spring by persons residing below the dam of the possibility of its being carried away.

The only damage that can be done now is by ice.

On the 2nd April last the river rose very rapidly, some six feet in a few hours, compelling the contractor to leave his work unfinished, there being some 100 feet of excavation above the new bulkhead yet to do to complete his contract. This will be done at the close of navigation.

Merrickville.

This work was let by contract to Mr. O'Toole of Ottawa, and consisted of building a new approach to the locks, and changing the site of the swing bridge, in order to avoid the detention to traval caused by the swinging of the bridge when boats were locking through, also the building of the masonry abutments, centre pier, &c., of the new swing bridge, and the masonry abutments of the new fixed bridge across the waste water channel, retaining walls, &c., &c.

The new swing and fixed bridges will be of steel, and are contracted for with

the Canadian Bridge and Iron Co. of Montreal.

Perth Branch.

The extension of the canal was completed and the new swing bridge over the canal at Gore Street finished and is in working order.

The dredge "Rideau"

Was employed during the season, in deepening and straightening the channel hrough the shoals in the canal between Black Rapids and Burritts Rapids.

The tug "Shanly,"

When not employed with the dredge, was engaged in delivering timber to the different lock stations.

Plant.

Two new side dumping scows and one flat scow were built during the winter by Mr. Waters of Hull, by contract. This gives the canal, now, a plant consisting of a dredge, tug, four dumping and two flat scows.

I have the honour to be, sir,

Your obedient servant,

FRED. A. WISE,

Superintending Engineer,

T. TRUDEAU, Esq.,
Acting Secretary, Dept. Railways and Canals.

APPENDIX No. 11.

TRENT VALLEY CANAL.

Superintending Engineer's Office, Peterborough, 30th November, 1892.

SIR,—I have the honour to submit the annual report on the works under my charge in connection with the Department of Railways and Canals, for the fiscal year ended 30th June, 1892.

The works in the district under my supervision are constructed for two purposes, namely, those erected for the benefit of navigation such as locks, dams, &c., and those erected to facilitate the descent of timber such as slides, booms, &c. The former are under the control of the Department of Railways and Canals, the latter under the Department of Public Works.

The works are situated along the River Trent between the Bay of Quinté and

Balsam Lake—a distance of about 170 miles.

Owing to the immense country drained, and the country becoming cleared, and the lumbermen's dams (which formerly checked the flow) becoming abandoned, there is a liability, till some provision is made to counteract it, of the heavy spring freshets damaging the several structures along the route. Last spring the water was only an average height. Towards the end of last season, owing to the very dry weather and the water not being properly husbanded in the upper reservoirs (over which I have no control), the water fell much below the normal level, in fact much lower than it has been known before. The proper storage of the water in the upper reservoirs is every year becoming a more serious question to those interested in navigation and water power. As has been referred to in former reports some action will soon have to be taken to husband the water, now that so many of the lumbermen have ceased their operations in the north country, otherwise there is a liability of there being a scarcity of water any season, as was the case last year. The traffic on these waters keeps increasing. There are now twenty-five steamers on the stretch between Lakefield, Balsam Lake and Port Perry (102 miles), and six steamers on the stretch between Peterborough and Heely's Falls (55 miles).

The total number of lockages was 2,883, being an increase of 267 over last

year.

The following is a brief description of the work done at the several stations during the past year.

Navigation closed 20th November, 1891, and opened 21st April, 1892.

Fenelon Falls.

The dam (340 feet in length) at this station, having been assumed as per agreement with the Smith estate, was repaired. It was almost wholly rebuilt, as it was found upon opening up, after the water was drawn off, that it was in a much worse condition than was anticipated. Two new sluice-ways were constructed on the north side to regulate the water passing into the flumes of the mills on that side of the river. A coffer dam, 600 feet in length, was constructed above to shut off the water, so that there was every facility for making a substantial work, which was done.

Bobcaygeon.

One new pair of lock gates were constructed and put in the lower entrance. A new steel swing bridge (deck) built by the Central Bridge Works, Peterborough, was substituted for the old wooden one. The pivot pier and the abutment on the west side were taken down and rebuilt in a substantial manner. The north end of

the east abutment was also rebuilt. Part of the old dam which obstructed the entrance to the dry dock was removed. The lock walls were pointed and the mitre sills, which leaked badly underneath, were caulked.

Buckhorn.

Some minor repairs were done to the dam, sluices and stop-logs.

Peterborqugh.

The piers of the west sluice of the dam became undermined, and a part of the stone filling went out. These were repaired as was also the flooring, part of which was taken out.

Hastings.

The backing of the lock wall on the south side was taken down and rebuilt. The lock gates and lock office were given a coat of paint. The valves of the lower gates were repaired.

Heely's Falls.

The dam was strengthened in order to make it stand the spring freshet, and till the more extensive repairs (for which the appropriation has been made) were done.

New lock offices were built at Fenelon Falls, Buckhorn, Burleigh and Peterborough. A number of buoys were placed along the navigation channel at dangerous points.

I have the honour to be, sir, Your obedient servant,

RICHARD B. ROGERS,

Superintending Engineer.

T. TRUDEAU, Esq.,
Acting Secretary, Dept. Railways and Canals,
Ottawa.

APPENDIX No. 12.

SAULT STE, MARIE CANAL.

OTTAWA, 6th December, 1892.

Sir,—I have the honour to report upon the progress of construction of the Sault Ste. Marie Canal, during the fiscal year ending 30th June, 1892, and to date.

SECTION No. 1.

This section commences at the navigable channel of the St. Mary's River, opposite the town of Sault Ste. Marie, and extends up the stream a distance of

5,300 feet, to the foot of St. Mary's Island.

The work which is under contract to Messrs. Hugh Ryan & Co., embraces the excavation of a channel 250 feet in width at the bottom, which is to be 18 feet 6 inches below the level of the lowest recorded water surface in St. Mary's River, at the foot of the rapids; also the construction of cribwork piers on each side of the channel, at the upper end of the section which adjoins the lock.

The contractoriginally provided for the construction of a timber beacon in 18 feet of water, but it was considered more desirable in the interests of navigation, to dispense with the beacon, and apply the sum which it would have cost to increas-

ing the length of the north pier, and that has been done.

The item for excavation and dredging embraces all kinds of material to be removed, and has been found to range from sand, gravel and other easily excavated substances, to Potsdam sandstone, requiring drilling and blasting before it can be dredged.

ne following quantities represent the work done to 30th June,	1892 :—
Excavation, dredging and deepening channel, cubic yards	122,110
Timber in sides and ends of cribs, lineal feet	28,961
Timber for ties, stringers and bottoms, lineal feet	28,680
Binding pieces, lineal feet	1,902
Blocks under heads of ties, No	1,266
Wrought iron in bolts, lbs	17,024
Pine in superstructure, cubic feet	5,161
Ties in superstructure, lineal feet	7,588
Blocks in superstructure, each	604
Stringers for top covering, lineal feet	1,940
3-inch pine plank for ditto, ft. B. M	28,224
Cap pieces 10 x 6, lineal feet	1,181
Mooring posts, No	´ 8
Stone filling, cubic yards	7,134
Pressed spikes for top covering, lbs	1,507

Materials Delivered.

Since the close of the fiscal year, here referred to, the contractors have completed the pier work as far as circumstances will at present admit of its being built, and the drilling, blasting and dredging has also been advanced to nearly the same stage.

At this date the work remaining to be done (excepting some cleaning up) lies at the extreme upper end of the section, in a distance of 600 feet, which is partly required for service ground in the construction of the lock on the adjoining section,

and also forms the dam which excludes the river from the lock pit.

It is in contemplation to so reduce the remaining quantity of work on this section by the date of the completion of the lock on the adjoining section, that as af channel for vessels can speedily be cut through the dam, and the excavation and cribwork completed without delaying the opening of the canal.

The following quantities represent the amount of work done at date of 30th November, 1892:

Excavation, dredging and deepening channel, cubic yds	128,109
Timber in sides and ends of cribs, lineal feet	
Timber for ties, stringers and bottoms do	
Binding pieces, lineal feet	
Blocks under heads of ties, No	
Wrought iron in bolts, lbs	33,919
Pine in superstructure, cubic feet	
Ties do lineal do	14,654
Blocks do No	1,135
Stringers for top covering, lineal feet	3,900
3-inch pine plank for, lineal feet B. M	55,222
Cap pieces, 10x6 feet, lineal feet	2,319
Mooring posts, No	
Stone filling, cubic yards	
Pressed spikes for top covering, lbs	

SECTION No. 2.

This section commences at the foot of St. Mary's Island, and extends westward 3,500 feet to the head of the Island.

It is also under contract to Messrs. Hugh Ryan & Co., and embraces the excavation for the lock pit and prism of the canal, the masonry for the lock, also for a guard gate above the lock, and the construction of side walls, puddle trenches, &c.

a guard gate above the lock, and the construction of side walls, puddle trenches, &c.

The dimensions of the lock-chamber were originally intended to be 600 feet in length between the hollow quoins, 85 feet in extreme width, and a depth of 6½ feet of water upon the mitre sills, at the lowest recorded water surface at the foot of the rapids; the upper gates to mitre above a breast wall, and the lock to be filled and emptied by means of culverts below the lock floor.

By an indenture bearing date of 13th June, 1891, the dimensions of the lock were enlarged to a chamber 650 feet in length between the hollow quoins, 100 feet in width, with gate openings of 60 feet, and 19 feet of water upon the mitre sills at the

lowest recorded stage of water in the river at the foot of the rapids.

This design was worked to, until the spring of 1892, when, in consequence of a discussion in Parliament, during the session of 1891-92, the dimensions of the lock were, under the authority of an Order-in-Council dated 1st April, 1892, still further

enlarged.

The lock as now being constructed, is 900 feet in length of chamber, from hollow quoin to hollow quoin, 60 feet in width of entrances and chamber throughout, and with 19 feet of water upon the mitre sills as before, the 19 feet which is from extreme low water, being equivalent to 20 feet so called, on the mitre sill of the new American lock at Sault Ste. Marie, which is taken from mean low water.

In consideration of the additional work involved in the changes last mentioned the time for the completion of the work under contract to Messrs. Hugh Ryan & Co.

was further extended to 31st December, 1894.

And here it is proper to state that the filling culverts in the bottom of the lock, the gates, valves and operating machinery, were not included in Mess'rs. Hugh Ryan & Co's. contract, and was of necessity to be built, and placed, after the completion of their contract.

As regards the progress of the work at the close of the fiscal year ending 30th June, 1892, the excavation of the lock pit for the 900 feet lock, was near completion, and the delivery and preparation of materials for the lock, had progressed fairly as will be seen from the following statement of work done:—

134

Quantities.

Quantities.	4.14
1 Chopping, clearing and grubbing, acres	30
2 Earth excavation in side trenches, cubic yards	2,507
3 Rock do do do	74
3 Rock do do do 4 Unwatering do do bulk sum	0.04
10 Earth excavation in prism of canal, cubic yard	57,600
11 Rock do do	53,262
11 Rock do do do 12 Unwatering do do bulk sum	0.35
17 Earth excavation in lock pit, cubic yards	37,081
17a Additional earth excavation for lock chamber 100 feet	·
wide, cubic yards	2,934
17b Additional earth excavation for lock chamber 60 feet	
wide, cubic yards	425
18 Rock excavation in lock pit, cubic yards	80,586
18a Additional rock excavation from side of lock pit, c. yds.	8,385
18b do do hottom do do	13,691
18b do do bottom do do 18c do do culverts pits, cubic yards	12,443
18d do do lengthening lock pit, cubic yds.	20,128
18e do do lengthening culverts pits, c. yds	4,434
19 Unwatering lock pit, bulk sum	0.54
19a Additional unwatering, bulk sum	0.5 8
19b do for lengthened lock, bulk sum	0.20
Materials delivered.	
Stone from Anderdon quarry (dressed) cubic yards	628
do do (rough) do	1,334
Rough Anderdon stone dressed at Sault Ste. Marie, cub. yds.	4,590
Stone from Manitoulin quarry (rough), cubic yards	7,752
Sand delivered cubic yards	3,771
Cement delivered, barrels	5,300
Pine timber delivered for mitre sill platform, culverts, c. ft.	7,146
Plank delivered for mitre sill platform, culverts, M.ft. B.M	85,599
Oak timber delivered for mitre sill platform, culverts, c. ft.	2,007
The producting out to the producting out to	- ,000

Since the close of the past fiscal year, the lock pit excavation has been completed, the necessary concreting in the lock bottom has also been done, and the work of building the lock walls was commenced on the 15th September last.

On the 12th November the severity of the weather made it desirable to discontinue building. The quantity of masonry laid at date of 30th November, 1892, being

7,707 cubic yards, or about \$\frac{1}{8}\$ of the quantity of masonry in the lock.

During the past summer the friction in trade relations between Canada and the United States produced a widespread feeling in favour of completing the Sault Ste. Marie Canal at the earliest date possible, and to meet the general wish, arrangements were made with Messrs. Hugh Ryan & Co., who, by the use of additional plant, have undertaken to complete the work under contract to them in time to admit of the canal as a whole being completed by the 30th June, 1894.

The following statement represents the quantity of work done and materials

delivered at date of 30th November, 1892:—

***** OT OUT TIONOR				
Chopping, clearing	and grubbin	g, acres		30
Earth excavation i	n side trench	es, cubic yard	is	2,507
Rock do	do	do		74
Unwatering, bulk	sum			0.04
Earth excavation i	n prism of ca	nal, cubic ya	rds	58,728
Rock do	do	do		53,262
Additional rock ex	cavation, low	ering prism, c	. vards.	4,757
Unwatering prism	of canal, bull	s sum	•••••••	0.35
do				
sum	·	•••••	••••	0.10
Earth excavation i	n lock pit, cu	bic yards	•••••	37,081
	Chopping, clearing Earth excavation i Rock do Unwatering, bulk Earth excavation i Rock do Additional rock ex Unwatering prism do sum	Earth excavation in side trencher Rock do do Unwatering, bulk sum	Chopping, clearing and grubbing, acres Earth excavation in side trenches, cubic yard Rock do do do Unwatering, bulk sum Earth excavation in prism of canal, cubic yard Rock do do do Additional rock excavation, lowering prism, of Unwatering prism of canal, bulk sum do do and contingence sum	Chopping, clearing and grubbing, acres

17a Additional earth excavation for lock chamber 100	20.0
feet wide, cubic yards	2,946
17b Additional earth excavation for lock chamber 60 feet	
wide, cubic yards	425
wide, cubic yards	80,586
18a Additional excavation from side of lock pit, cubic	
yards	8,705
yards	14,622
18c do do culvert pits, cubic yards. 18d do do lengthening lock pit, cub.	12,443
18d do do lengthening lock pit, cub.	,
yards	24,270
yards	,- • •
cubic yards	8,216
19 Unwatering lock pit, bulk sum	0.54
19a Additional unwatering, bulk sum	0.60
19b do do for lengthened lock, bulk sum.	0.62
20 Concrete of Portland cement in bottom of lock, c. yds.	3,768
20a Additional concrete do do do	5,176
24 Drilling holes in rock for anchor bolts, lineal feet	779
36 Masonry of lock walls, cubic yards	7,707
36 Masonry of lock walls, cubic yards	1,101
bulk sum	0.03
puik sum	0 00
Materials Delivered.	
Stone from Anderdon quarry (dressed), cubic yards	628
do do (rough) do	1,444
Rough Anderdon stone, dressed at Sault Ste. Marie, cubic	,
do do (rough) do Rough Anderdon stone, dressed at Sault Ste. Marie, cubic yards	8,044
Stone from Manitoulin quarry (rough), cubic yards	11,040
Sand, cubic yards	2,988
Portland cement, barrels	6,083
Canadian natural cement, barrels	3,417
Iron for anchor bolts, &c., for culverts, lbs	113,960
Pine for mitre sill, platform and culverts, cubic feet	11,291
Plank do do do B. M.	109,619
Plank do do do B. M. Oak timber do do do	2,387
Grantov No 2	- ,00

SECTION No. 3.

This section extends westward from the head of St. Mary's Island, 9,300 feet, through shoals, until the navigation channel of the river above the rapids is again reached, at an elevation of 18 feet above the lower entrance to the lock.

The section is under contract to Messrs. Allan & Fleming, and embraces the excavation of the channel which is 250 feet in width, at the level of 18 feet below the lowest recorded surface of the river above the rapids. The construction of a beacon, and the construction of entrance piers.

The following quantities represent the work done at the date of 30th June last, when the beacon was completed:—

27	Excavation, dredging and deepening channel, &c., cub.	
-,	yards	214,939
28	Timber for sides and ends of cribs, lineal feet	34,489
29		31,805
30	Binding pieces, lineal feet	2,292
31	Blocks under heads of ties, No	1,738
	Wrought iron in bolts, lbs	16,548
33	Pine in superstructure, 12"×12", cubic feet	1,141
	Blocks under heads of ties in superstructure, No	31
41	Stone filling, cubic yds	5,996
43	Rock elm in sides of beacon, cubic feet	6,959
44	Cross ties in beacon, lineal feet	10,835

4 5	Blocks under heads of ties, No	426
	Pine plank in binders for beacon, lineal feet	640
$46\frac{1}{2}$	One-half stone filling, cubic yds	2.055
47^{-}		16,972
48	Top covering, 3-inch pine plank, ft. B. M	6.799
4 9	Wrought iron in bolts, lbs	15.650
5 0	do straps, lbs	5,984
51	Pressed spike	26 9
52	Framed structure all bu	ılk sum

Materials Delivered.

Since 30th June, the entrance piers at the east or lower end of the section, adjoining St. Mary's Island, have been completed as far as possible, the obstacle to their entire completion as originally designed, being the necessity for leaving a portion of the prism of the canal undisturbed, to serve as a dam, until the lock section is finished.

With the exception of the material forming the dam, and some cleaning up, the dredging on this section which is of the same character as that on section No. 1, will be completed in a few days, if severe frost does not close the river.

The following quantities represent the work done to 30th November, 1892:-

		•
37	Excavating, dredging and deepening channel, &c., c.	
	yds	228,228
28	Timber for sides and ends of cribs, lineal feet	38,313
29	Timber ties, stringers and bottom do	36,862
30	Binding pieces, lineal feet	3,574
31	Blocks under heads of ties, No	1,968
32	Wrought iron for bolts, lbs	26,254
33	Pine in superstructure, 12"×12", cubic feet	9,755
34	Pine for ties, superstructure, 10"×11", lineal feet	12,448
35	Blocks under head of ties in superstructure, No	1,012
36	Stringers for top covering, 7" ×10", lineal feet	2,575
37	3" pine plank for top covering of piers, B. M	29,950
39	Cap pieces, 10"×6", lineal feet	609
40	Mooring posts, No	5
41	Stone filling, cubic yards	10,025
42	Pressed spike to secure top covering, lbs	758
43	Rock elm in sides of beacon, cubic feet	6,959
44	Cross ties in beacon, lineal feet	10,835
45	Blocks under heads of ties, No	426
46	Pine plank in binders, lineal feet	640
461	Stone filling, cubic yds	2,055
47	Sheeting, 5" thick, ft. B. M	16,972
48	Top covering 3" pine plank, ft. B. M	6,799
49	Wrought iron in bolts, rbs	15,650
50	do straps, lbs	5,984
51	Pressed spike, lbs	269
52	Framed structure all by	
-	are but were the second	an sum.

Material delivered.

I have the honour to be, sir,

Your obedient servant,

W. G. THOMPSON,

Superintending Engineer.

APPENDIX No. 13.

ST. PETER'S CANAL.

Engineer's Office,

St. Peter's, 10th October, 1892.

Sir,—I have the honour to submit the following with reference to the St. Peter's Canal.

The work of reconstruction and repairing, which (owing to the inclemency of the weather) was closed down last December, was resumed again in April and has been vigorously prosecuted ever since. The removal of the old retaining wall, as well as the clay back of it, will be practically completed this month. A gang of men is now employed renewing and repairing the front tow-path wall, which could not be got at until the back retaining wall was removed. The west abutment of the swing bridge crossing the canal, which (owing to a defective foundation) has been gradually sliding towards the bridge, was pulled down and rebuilt, with an additional depth of 3 feet to the foundation, and it is now believed to be perfectly secure.

The swing bridge has been carefully overhauled, and all necessary repairs

(including painting) made to it.

The warehouse, which was in a very dilapidated condition, was raised 21 feet

and thoroughly repaired, and a good stone foundation put to it.

Owing to the new slope back of the retaining wall having cut into the old road that ran along the top of the old slope, it became necessary to rebuild a part of this road further back from the edge, and as the Government had not sufficient land to admit of this being done, I acquired by instructions from the department the necessary quantity; a good road was built, and the old fence, which was badly in need of repairs, was torn down and a good substantial wire fence with cedar posts was substituted to include the new piece of land acquired.

The lock house was repainted inside and out, and some minor repairs made to it. The contractor for the new wharf at the southern entrance to this canal completed his work to my satisfaction, and the wharf which was much needed is now being extensively used.

The under-water portion of the canal, which I had carefully examined by an experienced diver, was found to be badly worm-eaten, and it will be necessary in the near future to have the lock pumped out, and the flooring, mitre sills, gates, &c., repaired. I shall, however, report fully in detail on this matter later on, giving the necessary estimate of the cost of making the repairs, &c.

Navigation through this canal only closed on the 20th of January, and opened

again on the 1st of April last.

I have the honour to be, sir,

Your obedient servant,

WM. McCARTHY.

Resident Engineer.

T. TRUDEAU, Esq.,

Acting Secretary, Department of Railways and Canals. Ottawa.

APPENDIX No. 14.

ST. LAWRENCE NAVIGATION—TABLE OF DISTANCES—A.

FROM STRAITS OF BELLE-ISLE TO PORT ARTHUR, AT HEAD OF LAKE SUPERIOR, BY WATER.

		a	Statute Miles.	
From.	То	Sections of Navigation.	Inter- mediate.	Total to Straits of Belle-Isle
Straits of Belle-Isle	Cap Whittle	Gulf of St. Lawrence	240	240
				441
spe willine	West Point, Anticosti	Dimon St. Farmones	202	643
			6	649
	Rimouski	do	,	,
	Bic		12	661
	Isle Verte		39	700
sle Verte (opp. Saguenay).	Quebec			826
Quebec	Three Rivers	do to Tide-water	74	900
Chree Rivers	Montreal	do	86	986
Montreal	Lachine	Lachine Canal	83	9941
achine	Beauharnois	Lake St. Louis	151	1,0095
	Ste. Cécile		111	1,021
	Cornwall		323	1,053
	Dickinson's Landing			1,065
Dial-ingon's Tanding	Farran's Point.	Divor St Tayrence	5	1,070
Farran's Point		Formen's Doing	្ន	1,071
rarran s roint	Opper end of Croyle's Island	Diam Ct Tamana	10	
	Williamsburg or Morrisburg	River St. Lawrence	101	1,081
Williamsburg	Rapide Plat	Rapide Plat Canal	4	1,085
Rapide Plat	Point Iroquois Village	River St. Lawrence	41/2	1,090
Point Iroquois Village	Upper end Presqu'Isle	Point Iroquois Canal	3	1,093
${f Presqu'Isle}$	Point Cardinal, Edwardsburg.	Junction Canal	2§	1,095
Point Cardinal	Head of Galops Rapids	Galops Canal	2	1,097
Galoos Rapids	Prescott	River St. Lawrence	78	1,105
Prescott.	Kingston	do	59	1,164
Kingston	Port Dalhousie	Lake Ontario	170	1,334
Port Dalhousie	Port Colborne	Welland Canal	263	1,360
Port Colborne	Amherstburg	Lake Erie	232	1,592
1 mherethurg	Windsor	River Detroit	18	1,610
Windsor	Foot of St. Mary's Island	Lake St Clair	25	1,635
Foot of St. Many's Teland	Sarnia.	River St. Clair	33	1,668
Pour of St. Mary 8 Island	Foot of St. Joseph's Island	it also Usman	270	1,938
Sarnia	Foot of St. Joseph's Island	D'- C M	47	
				1,985
	Head of Sault Ste. Marie			1,986
	Pointe aux Pins			1,993
Pointe aux Pins	Port Arthur	Lake Superior	. 266	2,259
D 4 A 4 A 1 4 . T -1			45	
	ndowan			
Lake Shebandowan to Nort	h-West Angle		. 312	
North-West Angle to Wim	nipeg		. 95	1
			. 390	

Of the 2,259\(^2\) miles from the Straits of Belle-Isle to the head of Lake Superior, 71 miles are artificial navigation, and 2,188\(^2\) open navigation.

Straits of Belle-Isle to Liverpool, 1,942 geographical or 2,234 statute miles.

The total fall from Lake Superior to Tide-water is about 600 feet.

The steam-boat voyage from Collingwood to Port Arthur is 532 miles.

APPENDIX No. 15.

TABLE of distances of Stations between the Cities of Ottawa and Kingston.

No. of Stations.	N. Const.	Distances	Locks.		Dams.			of Arti- Canal at Station in
No. of	Name of Station.	from Ottawa.	No.	Lift at Low Water.	No.	Length.	Heigh.	Length ficial each S miles.
		Miles.		Rise. Ft. in.		Feet.	Feet.	
1	Ottawa	0	8	82 0	3	$\begin{cases} 230 \\ 1,320 \\ 1,616 \end{cases}$	13 33 14	
2	Hartwell's	41	2	22 0	1	100	28	4.00
3	Hogsback		2	13 6	1	320	60 /	1
4	Black Rapids		1 3	10 0 27 0	1 3	300 850	12 68	0.13
5 6	Long IslandBurritt's		1	10 6	1	240	14	1 50
7	'Nicholson's.		î	15 2	i	500	9	0.50
8	Clowes		1	10 0	1	481	16	0 05
9	Merrickville		3	25 0	1	150 270	6 8	0.13
10 11	Maitland	1	1	10 10	1	343	8	0.06
12	Old Sly's	60 \$	2	15 6	1	250	20	0.25
13	Smith's Falls	$61\frac{1}{2}$	4	33 9		600	24	0.13
14	First Rapids or Poonamalie		1	7 9	1	260	5 9	1·25 0·06
15	Narrow		1		- ' -	(AA)	.,	0.00
	Total rise at low water		1	292 3	- '		,	
16	Isthmus	873	1	Fall.	1	ĺ	!	1 25
17	Chaffey's		1	12 6				0.13
18	Davis	$94\frac{1}{2}$	1	9 0	1		15	0.06
19	Jones' Falls		4	60 0			60	0.25
20 21	Brewer's Upper Millsdo Lower Mills	108 1 110	2	19 0 14 2		200	20 12	1 · 75 4 · 25
22	Kingston Mills		4	46 8		6,042	14	0.25
23	Kingston		ļ					.
	Total fall at low water			165 4	-	.	j	
	Total		47		. 24	15,472		16:46

APPENDIX No. 16

TABLE showing the dates of the closing of the Canals in the Autumn of 1891 and of the opening in the Spring of 1892.

Canals.	Closing. Opening.
Lachine Canal	30th November, 1891 1st May, 1892.
Beauharnois Canal	1st December, 1891 30th April, 1892.
Cornwall Canal	5th do 1891 1st May, 1892.
Ste. Anne's Lock and Dam	26th November, 1891 29th April, 1892.
Carillon Canal	28th do 189130th April, 1892.
Grenville Canal	28th do 1891 30th April, 1892.
Culbute Lock and Dam.	
	30th November, 1891 1st May, 1892.
st. Ours Lock	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Chambly Canal	
Williamsburg Canal.	
Welland Canal.	· ·
Erie Canal (New York)	
St. Peter's Canal (Cape Breton)	and the second s
Trent Canal Works	The state of the s
Murray Canal	16th December, 1891 5th April, 1892.

APPENDIX No. 17

STATEMENT of Contracts entered into during the Fiscal Year ended 30th June, 1892.

1. SUBSIDIZED RAILWAYS.

No. of Contracts.	Name of Contract.	Date of Signature.	General Description.
	Winnipeg and Hudson Bay	Not signed, 1891.	From St. Stephens to Milltown.
11012	Montreal and Ottawa Rail-	ĺ	From C. P. Ry., to Hudson Bay (subsidy in land). From end of the 30th mile (subsidized by 50-51 Vic.,
	way co	Not signed, 1631.	c. 24, under contract 9660) 30 miles towards Ottawa.
		1	From west end of contract No. 9666 at Clair's siding to Connor's Station, St. Francis branch.
110/1 11237 11274	Orford Mountain Railway Co. do do Quebec and Lake St. John	16th Dec., 1891. 10th Sept., 1892.	From Eastman to Kingsbury. From Lawrenceville to Kingsbury.
	Railway Co	17th Oct., 1892.	From 30th to 50th mile, Chicoutimi branch 20 miles and to complete first 30 miles, and 4 miles towards Roberval.
11294 11304	Woodstock and Centreville	d .	From end of the 14 miles already built near Trout Brook, for 14 miles to Plaister Rock Island
11396		į.	From Woodstock to Centreville, 20 miles; thence 6 miles to United States boundary. From Gananoque Junction, on company's line, to a
			point connecting with Brockville, Westport and Sault Ste. Marie Railway, the Kingston, Napanee and Western Railway, the Kingston, Smith's Falls and Ottawa Railway, or waters of Rideau Canal and an extension across mouth of Ganano-
11327	Ontario, Belmont and North- ern Railway Co	Not signed	que river. From Belmont iron mines to Junction, in Hastings, of Central Ontario Railway and Canadian Paci-
11328	Ottawa, Arnprior and Parry Sound Railway Co	29th Sept., 1892.	fic Railway. From Renfrew to Eganville, 22 miles, Eganville to
11342		Not signed	Barry's Bay, 30 miles. From Barry's Bay towards the Northern Pacific Junction Railway.
	2.	CAPE BRETO	N RAILWAY.
10983	J. Harris & Co	2nd Sept., 1891.	2 Russell snow-ploughs.
	3. OXFOI	RD AND NEW	GLASGOW RAILWAY.
10985 11054	J. Harris & Co J. K. McDonald	2nd Sept., 1891. 5th Oct., 1891.	2 Russell snow-ploughs. Construct a water supply at Pugwash Junction.
	4.	INTERCOLON	IAL RAILWAY.
10962	Corporation, town of Anti-		Passenger station and freight shed, Kent Junction.
10984 10986	J. Harris & Co	4th do' 2nd Sept., 1891 14th July, 1891	Supply water for engines, &c., Antigonish. Two Russell snow-ploughs. Passenger coach oil.
10987	Bushnell Co. (Limited)	14th do 15	Petroleum, dynamo oil and spindle oil.

APPENDIX No. 17.—Statement of Contracts entered into during the Fiscal Year ended 30th June, 1892—Continued.

4. INTERCOLONIAL RAILWAY-Continued.

No. of Contract.		1	
St. C	3 7 (0)	Date of	
LT3	Name of Contractor.	Signature.	General Description.
,ġ-			
10988	M. Lodge	14th July, 1891	Petroleum, passenger coach oil and engine oil.
10909	ranodes, Curry & Co	26th Aug., 1891	Brick building at Moneton
10990	J. R. Hutchins.	14th July, 1891	Freight car axle oil.
11029	Grant & McIntosh	14th do	Signal oil, cylinder oil and engine oil. Station and shed at New Glasgow.
11030	A. Myles.	22nd do	Waiting-room for hackmen, St. John, N.B.
11031	A. Laberge	23rd do	Snow shed, east of Little Metis station.
11032	A. Laberge	28th do	. Addition to Charlo station.
11053	Paul Roy	28th do	. do to Sayabec do
11057	Canadian Locomotive and En-		
11069	gine Co. (Limited)	30th do	Four ten-wheeled locomotives.
11002	Northern & Western Ry. Co	20th Aug., 1883	Building a railway from St. Mary's to I. C. Rail-
11077	Jas. Brown	3rd Dec 1801	way, thence to Beaubear's Point.
11089	Ed. Foran	llst do	Loading sugar at Richmond and Halifay
11123	W. & A. Moir	15th Jan., 1892	Iron stair at North street station, Halifax.
11124	parrow Hematite Steel Co.	ł.	\
11105	(Limited)	17th Feb., 1891	
11125 11126	do do do do		. do
11136	G. McLeod	17th do	do
11148	Dominion Bridge Co. (Ltd)	26th Feb. 1892	Steel foot bridge, Truro station yard.
11151	J. C. Calhoun	19th do	Fencing.
11152	E. Crossman	20th do	do
11153	J. Lewis.	19th do	do
11154	F. Bellavance & Co	20th do	do
	J. Kelly P. Doucet		do
11194	King Bros	19th do	do Fance poets
11195	King Brothers	26th Dec., 1891	Cedar ties.
11196	F. C. Dubé	∣ do	do
11227	St. Lawrence Steam Naviga-		
	tion Co	30th April, 189	2. Mail, &c., between I.C.R., at Rimouski wharf and
11998	D. Hallisay	10th Fab. da	British Mail Steamers.
11229	Dominion Bridge Co., Limt'd	19th Feb., do 2nd May, do	Fencing. Girder Bridge, Barney's River at Dwear's Mills.
11247	W. Starkay	13th June, do	Transfer lifting bridges, Point Tupper.
	Truro Foundry and Machine		Tupper.
	Co	20th do do	Hoisting machinery for do
11265	Gray & McManus	20th do do	Excavation for ferry do
11200	Acadia Coal Co	20th do do	Supply coal.
	Canada Coal CoBay of Fundy Coal and Rail-		do
	way Co		do
11273	A. Lemieux.	18th July. do.	Transhipping goods at Chaudière Junction.
11275	Gardner Coal Co	20th June. do	Supply coal.
11281	McDonald & Moffatt	27th July, do	1 car barge.
11282	do	18th do do	Excavation and cribwork, Mulgrave.
11283	J. Harris & Co., Limited P. S. McManus	3rd June, do	Car wheels.
11201	1. 15. MCManus	ist August, do	Box culvert, Robinson's Meadow, near Brockville station.
11292	d o	do do	Grading at Eureka Junction.
11296	A. J. Grant & Co	22nd July, do	Oil for 1892.
11297	J. R. Hutchins.	do do	Dynamo oil.
11298	Eastern Oil Co	do do	Passenger coach oil.
11300	J. & S. C. Drury A. Holden	ord August, do	Freight shed at deep water terminus, St. John
11303	J. McIntosh	19th Aug do	Cylinder oil.
11304	General Mining Association.	20th June. do	Station and shed at Eureka Junction. Coal supply.
11308	Imperial Oil Co	22nd Inly do	Axle oil, &c.
11315	S. O'Donoghue	26th Aug., do	Cribwork, Point Tupper.
11330	Smith & Crow	9th Sept., do	Freight shed, Orangedale station.
11339	Jas. Brown	17th do do	do deep water terminus, St. John.
11340	do	17th do do	do Newcastle, N.B.
			1

APPENDIX No. 17.—Statement of Contracts entered into during the Fiscal Year ended 30th June, 1892—Continued.

5. PRINCE EDWARD ISLAND RAILWAY.

No of Contract.	ame of Contractor.	Date of Signature.	General Description.				
11104 D. M 11105 A. M 11106 R. El 11107 W. T 11108 J. R. 11109 S. E. 11110 O. Ha 11111 J. T. 11199 Glace 11202 Paten Lim	oulter .cKenzie .cKinnon. lis, jr .aaylor .Larkins .Gallant .ywoodWindsor .Bay Mining Co .t Nut and Bolt Co., nited .ey.	12th do	do Cedar posts, 3 sleepers, &c. do do Sleepers, &c. Timber and sleepers. Sleepers. do do coal for engines.				
		6. RIDEAU	CANAL.				
11161 J. O''J	waters	28th March, 1892	Works at Hogsback Station. Deepen basin and make slip, Ottawa. Dumping scows and flat scow. Change site of swing bridge, Merrickville. Bridges at Merrickville.				
_	7.	SAULT STE. M	MARIE CANAL.				
11174 Hugh 11193	Ryan & Codo	5th April, 1892. 18th May, 1892.	Changes lock 900 feet long. Dispense with beacon, add 390 feet to pier.				
		8. SOULANG	ES CANAL.				
11165 Geo. (11178 D. O'. 11278 R. Ma 11331 Arch.	Stewart	11th May, 1892 8th April, 1892 24th Sept., 1892 24th do	do 1 and 2, Cascades entrance.				
11203 Wm.	H. Law	30th April, 1892.	Swing bridge, Bobcaygeon.				
		10. WELLAN	VD CANAL.				
11063 Wm. 11277 Arch.	11063 Wm. Hutchinson						

APPENDIX

GENERAL STATE

1st. WATER POWER and other Public Property leased by the Department

	ate of ature.	Term of Lease.	Lessees.	Property leased.	Area of Property leased.
Oct.	17, '92	Pleasure of the Government.		Carillon Canal. Lot at lower entrance of canal Lachine Canal.	50′ x 25′
Dec.	2, '91	Pleasure of the Government.	D. Parizeau	Lots 13, 14, east of St. Gabriel basin No. 3.	14,967′ 16,912′
Dec. Oct.	29, '91 1, '91	do do	R. Ready Standard Agency Co	Lots 7, 8, 9, S.E. of Wellington basin.	16,912'
Nov. May	20, '91 17, '92	Winter 1891-92 Pleasure of the Government.		Space in shed No. 4, St. Gabriel Lot 20, W. of St. Gabriel basin No. 2.	80 feet
	h 9, '92 21, '92	do do	End, Trihey & Co	Lots 1, 2, do do do Water thermometer, 9" pipe, to factory at Ste. Cunégonde.	19,046′
				Welland Canal.	
Oct.	22, '91	Pleasure of the Government.	H. J. Gonder	Pt. lot 26 in 5th con., Crowland, town of Welland, North of Main St., and	0·18 acres
	'91	21 years only.	W. Martin	west of Canal. Lot on west bank of Grand River, Port Maitland.	0.50 acres
Sept.	22, '91	Pleasure of the Government.	D. Dittrick	Pts. lots 16, 17, in 6th con., Grantham	$0.75~\mathrm{acres}\ldots$
Oct.	3, '91	do do	T. F. Brown & Bros	Water from Welland, Raceway for mill on their land.	
Oçt.	3, '91	do	W. H. Crow	Pt. lot 26 in 5th con., Crowland, near	0.79 acres
July	15, '92	10 years only.		north Main St., town of Welland. Lot at St. Catharines, near old lock No. 2.	1
	`92		Lake Erie Glass Work		1.69 acres
		Government.	Co.	Rideau Canal.	
	`92	Pleasure of the	Ag't of Wyoming Park.	Pt. lot K, con. C., Nepean, near swing	0.71 acres
May	18, '92	Government. do	T. H. Hughes	bridge. Pt. lot 17, in 8th con., S. Crosby, at Chaffy's lock.	3 rods, 18 per.
Oct.	'92 1, '92		R. C. Lampman North American Tele-	Pt. lot 35, subd. 5, con. B, Nepean	
JU.	1, 1/2	uo 		Place poles and wires, along canal, Ottawa to Kingston.	:
				Intercolonial Railway.	
	'91	Pleasure of the	Minister of Fisheries	Wharf lot at deep water terminus,	
Mar.	28, '92	Government. Terminate on 6 months' notice.		Halifax. Exchange Passenger traffic, Lévis Station.	
Mar.	9, '92 17, '92	5 years.	Executors of Jas. Hunter (to Government).	Ground floor on lot 132, Hollis Street,	
Aug.	11, 32	i year.	1	Sen newspapers on an trains	

 $N_{\rm O.}$ 18. MENT SHOWING of Railways and Canals, during the Fiscal Year ended 30th June, 1892.

	Amount		ate				Te	rms of Pay				
For what Purpose used.	of Water Power leased.	Le	which ease is oned.	Annual Rental.		Amoun of each instalme	h	When due each year.	When first instal- ment was due.	Remarks.		
Stabling room		Jan.	1, '92		ets. 00	\$ c		Jan. 1	Jan. 1, '92	In advar	ice.	
Storing lumber.		June	8, '91	412	33	412 3	33	June 8	June 8, '91 & on deliv'ry	do		
do do		May	lo 1, '91	. 169 600		169 1 600 (do May 1	do	do do		
Storing salt Storing coal	· · · · · · · · · · · · · · · · · · ·	May	1, '92	10 169	00 12	10 (169 1		May 1	do do	do do		
Storing lumber. Fire protection.	9″ pipe	Jan. July	1, '91 1, '92	380 10	92 00			Jan. 1 July 1		do do		
								:				
Storehouse		Nov.	21, '87	25	00	25 (00	Nov. 21	On delivery of lease:	do		
Club house and		Apri	1 1, '91	50	00	50 (00	April 1		do		
wharf. Wood and coal	 	Sept.	1, '91	10	00	10 (00	Sept. 1	do	do		
yard. Grist-mill	40 horse power.		do	240	00	240	00	do ,	do	\$6 per 20 h. j	nce, also h. p. for p. if req.	
Piling lumber		July	1, '88	50	00	50 (00	July 1	do	hereaf do	ter.	
Wharf, &c		July	1, '92	15	00	15	00	do	do	do		
Glass factory		Aug.	1, '92	50	00	50 (00	Aug. 1	do	do		
Boat house and		Dec.	1, 91	10	00	10	00	Dec. 1	do	do		
Park. Grist-mill	water to		1, '91	5	00	5	00	July 1	do	do	(cancels 7,816).	
	pass thro		1, '92	2	00	1	00	Jan. 1	do	do	(cancels	
Telegraph		Aug.	1, '92	1	00	1	00	Aug. 1	Aug. 1, '92		9,919).	
Wharfage	l 	Sept	. 1, '91	100	00	100	00	Sept. 1.	Sept. 1, '91	do		
•••••				Ra	ates			Monthly.	. do			
I.C.Ry		May	1, '92	400	00	100	00	Aug. Nov Feb. May	Aug. 1, '92	2		
		Aug	. 1, '92	2,500	00	208	34	Monthly.		do		

Remarks.	Remarks.			e 10:
Amount paid.		ee cts.	2888328 1,2855282 28882882828388 2,2866282828388 2,2866288888888888888888888888888888888	200 00
Area of Land.		Астен.	\$25500000000000000000000000000000000000	
	County.		Annapolis do do do do do do do do do do do do do d	go
Her Majesty. Sould June, 1925. Area of Amount Remark:	District, &c.	Annapolis and Digby Railway.	ting on St. George street, olis of mortgage). E. of railway.	Beauharnois Canal. St. Timothée, bridge. do fences, ditches, dis-
	Lot.		Damage by bri dge abut Annal	181
Who sold to Her Majesty.			Geo. McLaughlin Trustees Methodist Chur Rev. J. J. Ritchie Annie R. McKay Wm. Malcolm E. B. Gavazza, et "! E. Hunt. B. Taylor F. J. Winchester (guardia W. F. Turnbull G. Starking, et el. J. Woodman, et el. T. Woodman, et e	28, 1891. F. Poirier, fils
	Signature.		Nov. 2, 1891 do 2, 1881 do 2, 1881 April 12, 1881 April 15, 1882 July 14, 1880 Dec. 23, 1889 Dec. 24, 1889 do 23, 1889 do 24, 1889 do 24, 1889 do 24, 1889 do 24, 1889 do 24, 1889 do 25, 1889 do 25, 1889 do 25, 1889 do 25, 1889 do 25, 1889 do 25, 1889 do 25, 1889 do 25, 1889 do 25, 1889 do 27, 1889 do 28, 1889 do 28, 1889 do 28, 1889 do 28, 1889 do 28, 1889 do 28, 1889 do 28, 1889	Oct. 28, 1891.

•	287 00 Release damages. 530 53 Land 239 47 Land 241 00 Release. 354 00 do		1,279 50 Gypeum.		1,020 20					0 903 77	o, 240 oo				**************************************		20 30 Indemnity bond	•	34 571 64	15 00 Damages.	1	26,000 00 Bond of G. Fraser et	135,000 00	1,500 00	40,000 00
	2.82 2.93 3.54 3.54 54		90.7	3.15	0.02	88	1.62	0 0 8 6	88	 & % ⊕ •	# 6	8 9 9 0	0.023	2 %	17:0	1.77	80.0			0.00				:	:
	Stormont do do do do do do do do do do		Victoria	\$1, debt of costs	Richmond	op	3.6°		•	90 90	•	9. op	ං දි		ල් 		Inverness							. Miramichi	
Cornwall Canal.	do do do do do do do do do do do do do d	Cape Breton Railway.	164,165,168,169 Jamesville and Grand Narrows Victoria	dgment by Wn. Stairs for lo C. H. Harvey	ı plot, Guern	do do do do	- O- C- C- C- C- C- C- C- C- C- C- C- C- C-	g.e.	00 00 00 00 00 00 00 00 00 00 00 00 00	g-g-	00 00 00 00 00 00 00 00 00 00 00 00 00	9-	op op op	.	do do do	: :		Carillon & Grenville Canals.	Interest on amounts awarded	180 Coll., Fast Hawkesbury	Intercolonial Railway.	1,300 tons rails sold to Company. Land, &c., St. John, N.B.	:		of St. John Branch Railroad
	W. ‡ 13 F. ‡ 13 S. pt W. ‡ 16 E. ± 16 W. ‡ 15		164,165,168,169	Release to him of ju	2a, 2b, 2c	4, 70,	3c. 4l.	· 6	13	32	18	18	18	61	186	Road 108			W 1 19	2			Use of lot		Carleton, City
	(c. E. Robertson W. J. & H. Wood W. J. Wood G. E. Robertson W. W. Robertson		10, 1891 W. F. McCurdy et al	6, 1891. H. N. Paint.					-	3					•	13, 1890. Julia McNeil et al		;	19, 1891 Geo. Goodwin. 20, 1891 H. Hughes & al		6, 1891 New Glasgow Iron, Coal	J. Harris & Co. (Limited).	Hon. P. Mitchell.	N. R. and C. D. B. John,	with mid Oil ill CO
	Dec. 23, 1891 March 8, 1812 do 1812 Sept. 26, 1892 Oct. 1, 1892		Nov. 16, 1891	Aug. 10, 1891 do 6, 1891					15°	Liniay 20, 1852.						July 13, 1890.			Vet. 19, 1891 Feb. 20, 1891		Oct. 6, 1891	Jan. 25, 1892J. Harris & Co. (1 March 21, 1899	June 28, 1892	Not dated	

2ND. PROPERTY purchased, or damaged, &c.—Continued.

Remarks		cts. 50 00 Release.		151 00 Release damages, 40 00 Damages, Tay Canal.
Amount paid.		36 Cts.	18	151 00 40 00 1,250 00
Area of Land.		Acres. 30.50	2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2	3,765 ft.
	County.		Cumberland do	Frontenac do Lenark
Property purchased, &c.	District, &c.	Ottawa River, danuges by Danss. Westmeath.	Oxford & New Glassjon Railway. Doberty Creek ugh his farm, Doberty Creek do do River John. Dufferin Road Scotch Hill. Hardwood Hill. River John. Wallace Oxford Station do do do do do	Sth Con. Pittsburg. 3rd do do do HarveyNt., Perth.
	Lot.	æ	Farm do 20 20 20 31 119 132 16 & C 30 & E 686 80 & C 80 & E 80 & E 80 & E 80 & E 80 & E 80 & E 80 & E 80 & E 80 & E 80 & E	40, 41 W ½ 5
Who sold to Her Majesty.		23, 1892 C. Carswell, adm'trix	J. Berry A. R. Dickey. J. Williams D. Tattrie. T. Dunn H. D. Denson. H. D. Denson. H. McDonald. C. W. Thompson et al. J. D. Henderson E. Thompson. E. Wood et al. J. W. Wood e	16, 1891 J. Claxton et al. 19, 1892 M. J. Barner. 18, 1892 M. J. Oliver.
Date of Signature.	0	Jan. 23, 1892.	Sept. 1, 1891 2	Dec. 16, 1891

	Reserve of right of way. Right of way reserved.	Right of way reserved in patent. do	Release do do do do do do do do do do do do do	310 00 Damage by hydraulicrace. 100 00 Bridge. 457 00 Beease damages. 290 00 do do 275 00 do do 225 00 Release damages.
	26 28 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		28	310 00 1, 100 00 30 00 2,457 00 275 00 275 00 275 00 84 00
	20 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	24.40 24.40	\$6.50 \$6.50	
	Northern Ext'n do Penulina Branch do Northern Ext'n Penulina Branch do	East of Selkirk	Victoria Peterlorough Victoria Victoria do do do do do do do do do do do do do	Lincoln
Canadian Pacific Bailway.	72 St. Paul, O. Q. M. 65 do do do NE 4 1 Tp. 9, r. 3 E 66 St. Paul, O. Q. M NE 4 12 Tp. 3, r. 3 E SE 4 13 / Tp. 7, r. 3 E 22 R. Ng SE Tp. 6, r. 3 E 23 Tr. 3, r.	St. John do Trent Valley ('anal.	Penelon Falls Village. 8th c. Emily. 10th c. Emily. 8th and 9th c. Emily. 7th and 8th c. Emily. 7th and 8th c. Emily. 12th c. Emily. 10th c. do 10th c. Arnish. 10th c. Emily. 10th c. Emily. 10th c. Emily. 10th c. Emily. 10th c. Emily. 10th c. Emily. 10th c. Emily. 10th c. Emily. 10th c. Ao 10th c. God 10th c. Emily. 10th c. Emily.	Helland Canal. 13.14 Th c. Grantham 15 5th c. 26 26 Crowland. Roads, &c. Dunnville rs. Property Gov. lot 283 Thoold, Port Robinson Mill, &c. Moulton Moulton
		\$ \$ 2	29, 31 18, 13 18, 13 18, 13 17, 13 20 20 20 20 20 20 20 20 20 20 20 20 20	114 115 26 6 6 12 12 13 14 15 15 16 16 17 17 17 17 17 17 17 17 17 17 17 17 17
		March 18, 1891 A. A. V. Andrews, adm'tr H. G. Chubbuck.	Executors of R. C. Smith. E. E. & W. R. McCracken D. Morrissey P. O'Leary R. Lowes R. Perdue J. T. Flaherty N. Nichols C. Armstrong H. Fürgerald D. Traviss M. & M. Gannon. M. P. Cadigan M. P. Cadigan W. Franks W. Franks	P. Caffrey et al. J. Gilleland. J. Gilleland. Sorporation of Dunnville. W. Hutchinson. Port Robinson Dry Dock. W. Waltho. M. A. Smith. Jas. Ferguson.
	Oct. 13, 1891 April 17, 1878 Oct. 30, 1891 Sept. 5, 1891 Jan. 25, 1896 March 28, 1892 June 17, 1892	March 18, 1891	Oct. 3, 1891. Dec. 16, 1881. do 18, 1892. Feb. 1, 1892. Feb. 22, 1892. Go 22, 1892. do 19, 1892. do 19, 1892. do 21, 1892. do 21, 1892. do 24, 1892. April 5, 1892. do 24, 1892. do 26, 1892. do 27, 1892. do 28, 1892. do 29, 1892.	Oct. 31, 1891 Dec. 2, 1881 do 12, 1881 do 31, 1891 Jan. 25, 1892 do 39, 1892 do 39, 1892

2nd. Property purchased, or damaged, &c.—Continued.

Remarks.		Release damages. do do do do do do do do do do do do do d
Amount paid.		# c
Area of Land.		Acres
	County.	H H H H H H H H H H H H H H H H H H H
Property purchased, &c.	District, &c.	Welland Canal—Continued. Canal St. E., Dunnville. N. Canal St. E. do Canal St. E. Dunnville. St. A. Canal St. Cayuga. Lock St., Dunnville. Lock St., Dunnville. Lock St., Dunnville. Lock St., Dunnville. Lock St., Dunnville. Canal St. E., Dunnville. Broad St., Dunnville. do do do do Broad St. E. do Canal St. E. do do do do do Canal St. E. do do do do do do do do do do do do do d
•	Lot.	9, 10, 21 Cordwood, 37 Cordwood, 6, 28 7, 88 7, 88 7, 88 1, 28 1, 28 1, 28 1, 28 1, 28 1, 28 1, 28 1, 28 1, 36 1,
Who sold to Her Majesty.		3, 1892. J. Norris. 14, 1892. J. Hewitt. 18, 1892. J. T. Johnson. 18, 1892. J. Wade et al. 2, 1892. Hon. L. McCallum et al. 2, 1892. Hon. L. McCallum et al. 2, 1892. J. Taylor. 28, 1892. J. Taylor. 28, 1892. J. Taylor. 28, 1892. J. Taylor. 28, 1892. R. May. 28, 1892. J. C. Harris et al. 11, 1892. J. C. Harris et al. 11, 1892. J. C. Harris et al. 11, 1892. Exceutor J. Aikens. 15, 1892. Exceutor J. Aikens. 15, 1892. Exceutor J. Aikens. 15, 1892. H. Penny. 28, 1892. Adm. W. Ward et al. 28, 1892. Adm. W. Ward et al. 28, 1892. Admix. H. T. Johnson. 16, 1892. Admix. H. T. Johnson. 28, 1892. Admix. R. Chambers. 28, 1892. Admix. N. Wandeque. 3, 1892. Admix. J. McDonald. 3, 1892. Admix. J. Stewart. 21, 1892. W. W. Montague. 22, 1892. Exceutor J. Stewart. 24, 1892. Exceutor J. Stewart. 27, 1892. G. A. S. Wallage et al.
Date of Signature.		Feb. 3, 1892. March 14, 1882. Feb. 40, 1882. April 83, 1882. April 83, 1882. April 83, 1882. April 83, 1882. April 83, 1882. April 83, 1882. April 83, 1882. April 83, 1882. April 83, 1882. April 83, 1882. April 83, 1882. April 83, 1882. April 83, 1882. April 83, 1882. April 84, 1882. April 85, 1882. April 86, 1882. April 86, 1882. April 86, 1882. April 86, 1882. April 86, 1882. April 86, 1882. April 86, 1882. April 87, 1882. April 87, 1882. April 87, 1882. April 87, 1882. April 87, 1882. April 87, 1882.

225 00 Release damages. 225 00 do do 70 00 do	qo
200 00 225 00 1,200 00 70 00	100 00
imand	cDonald 19, 20, 21 Main St. do do 100 00
Ganal St. W., Dunnville Halc Broad St. E. do O Main St. do O Canal St. W. do O	ор
Canal St. W Broad St. E. Main St. Canal St. W Canal St. W	Main St.
5 19 21, 22, 23 B&A, sub lot 4	19, 20, 21
Sept. 3, 1892. Executor E. McNeal. Aug. 23, 1892. Admtx. W. White. Sept. 12, 1892. H. Amsden et al. Inly 9 1899. Administrator D. Lewhurst	Sept. 21, 1892. Admtx. A. McDonald
Sepi Aug Sept	Sept 2

3rd. Agreements respecting Subsidies in aid of construction of

ture.			A net	Amount o	of Subsidy.
Date of Signature.	Name of Railway Company,	Lines of Railways to be constructed.	Acts of Canada granting Subsidy.	Per Mile.	Not more in all than
1891.				*	1 \$
Notsigned	St. Stephen & Mill- town.	From St. Stephen to Milltown	53 V. c. 2	3,200	11,200
Sept. 18		From C. P. Ry. to Hudson Bay	47 V.c.25&70	{ac.6,400 "12,800	Manitoba. N. W. T.
Notsigned	Montreal & Ottawa.	From end of 30 miles of 50-51 V., c. 24, towards Ottawa	53 V. c. 2	3,200	96,000
Oct. 20	Témiscouata Ry. Co.	From Clair's Siding to Connor's Sta-	53 V. c. 2	3,200	51,200
Dec. 16	Orford Mountain	tion, St. Francis branch. From Eastman to Kingsbury, P.Q	53 V. c. 2	3,200	99,200
1892.		•		,	,
Sept. 10	do do	From Lawrenceville to do	53 V. c. 2	3,200	99,200
Oct. 17	Quebec & Lake St. John.	and 4 towards Roberval	52 V. c. 3 55-56 V. c. 5	} 3,200	{ 64,000 } 12,800 }
Sept. 27	Tobique Valley	From Trout Brook 11 miles to- wards, and thence 3 miles to, Plaister Rock Island	53 V. c. 2 55-56 V. c. 5	} 3,200	35,200 9,600
do 16	Woodstock & Centre- ville.	From Woodstock to Centreville, thence to U. S. boundary	55-56 V. c. 5	3,200	{ 64,000 19,200
Nov. 30	Thousand Islands	From Gananoque Junction to a point on Brockville, Westport & S. Ste. M. Ry., the Kingston, Napanee & W. Ry., the Kingston, Smith's Falls & O. Ry., on Rideau Canal waters; also extension across mouth of river, Gananoque		in all	44,000
Not signed	Ontario, Belmont & Northern.	From Belmont Iron Mines to junction of Central Ontario Ry. and C. P. Ry.		3,200	32,000
Sept. 29	Ottawa, Amprior & Parry Sound.	From Renfrew on C.P.Ry. to Egan- ville, Eganville to Barry's Bay.	55-56 V. c. 5	3,200	₹ 70,400
Nov. 8	do do	From Barry's Bay towards North- ern Pacific Junction Ry	55-56 V. c. 5	{ 6,400 3,200	96,000 176,000 88,000

Ottawa, 2nd December, 1892.

Railways, entered into during the fiscal year ended 30th June, 1892.

No. of Miles subsidized.	Maximum Grade, Feet per mile.	Radius of Curvature not less than	Width of Clearing each side.	Width of Cuttings.	Embankments.	Steel Rails, lbs. per lineal yard.	When to be completed.	Remarks.
No.	Feet.	Feet.	Feet.	Feet.	Ft.	Lbs.		
$3\frac{1}{2}$	80	$\left\{\begin{array}{c}955^{1}\\716^{1}\end{array}\right\}$	15	20	15	56	July 1, 1893	
} 250	65	955	$\begin{cases} 50 \\ 100 \text{ at start-} \\ \text{ing each side} \end{cases}$	} 20	14	56	June 1, 1894	Land subsidy.
30	53	1,910	50	20	15	56	Dec. 31, 1892	
12	70	818	50	20	15	56	Aug. 1, 1892	
31	69	882	33	20	15	56		Colonization road.
16½ 20	74 80	$ \left\{ \begin{array}{c} 818 \\ 955 \\ 818 \\ 1,146 \end{array} \right\} $	33 50	20 20	14 15	56 56	Aug. 1, 1893 Aug. 1, 1893	do do
$\left\{ egin{array}{c} 11 \ 3 \end{array} ight\}$	80	819	50	20	15	56	Dec. 1, 1893	
$\left\{ egin{array}{c} 20 \\ 6 \end{array} \right\}$	80	955	50	20	15	56	Jan. 1, 1894	
••••••	53	955	50	` 20	15	56	Aug. 1, 1896	1st part \$30,000 2nd do 14,000
10	130	716	. 33	16	14	56	Oct. 31, 1893	
22 30	40 80	2,865) 1,433)	50	20	15	56	Aug. 1, 1896.	
27 \\ 27 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	} 60	1,433	50	20	15	56	Nov. 1, 1894.	

H. A. FISSIAULT.

APPENDIX No. 19.

No. 1-ALPHABETICAL List of Railways subsidized by the Parliament of Canada.

Total of Subsidy Grant Mileage to each Company.	No. of Miles sub- sidized.	\$ cts. 16 51,200 00 70 620,000 00 30 96,000 00 7 22,400 00 96,000 00 15 48,000 00 18 57,600 00 192,000 00	32 102,400 00
Tota	No. of Miles sul sidized.		
rant.	Not to exceed.	\$ cts. 51,200 00 320,000 00 320,000 00 11,500 00 11,500 00 128,000 00 128,000 00	96,000 00 6,400 00
Details of Grant.	Estimated Number of Miles.	16 16 30 15 15 18 18 18	
	Rate per Mile.	\$, 200 3,200 1,500 1,700 1,700 3,200 3,200 3,200	3,200
	Company or Work subsidized.	Albert Southern Ry. Co., Hopew Raie des Chaleurs Ry. Co. Beauharnois Junction Ry. Co., S Belleville and North Hastings R. Bracebridge and Baysville Ry. C Brantford, Waterloo and Lake Waterford, or some intermed Brockville, Westport and Sault Ste. Marie Ry. Co. Poin	Buctouche Ry. Co
Authority for Grant.	Designation of Act.	1889 52 Vic., c. 8	1892 55-56 Vic., c. 5) 1886 49 Vic., c. 10) 1887 50 51 Vic., c. 24. 1892 55-56 Vic., c. 5)
Aut	A. D.	164 164 164	1892 1886 1887 1892

				~~	r			(•		~44	•••	~., ~			<u> </u>	~~.		~~						
	314,400 00	1,525,250 00	25,000,000 00	1,500,000 00	38,400 00	64,000 00	224,000 00	142,400 00		156,800 00	44,800 00	112,000 00	44,800 00	22,400 00	201,920 00				750,000 00	30,000,000	00 000 00	48,000 00		229.500 00	
	æ	130	1,905	160	12	8	67	5:		64	14	뚕	14	ı -	63.10	(77	25	C &	3 -	5	12		8	
00 000'96	38,400 00			340,000 00 340,000 00 200,000 00	38,400 00	64,000 00	76,800 00	128,000 00	14,400 00		3 200 00	112,000 00	44,800 00	8,48 8,68 8,68 8,68	14,400 00	76,800 00 14,720 00	88,89 89,89 89,89		750,000 00	See also loan.	86,88	48,000 00	32,000 00	96,000 00	64,000 00 37,500 00
	53.	120	1,905	160	. 12	700	24 67	40 7 44 50	41,	⊋ ⊋	13	· 8	14	<u></u>	4 4 63·10	24 410	-	25.	58	:		15	10)	30 }00	- So
1,600	3,200	15% on cost. 12,000		000	3,200	3,200	8,8,8 8,00 8,00 8,00 8,00 8,00 8,00 8,0	3,200	3,200	9 8 8 8 8 8	3,200	98,8	3,200	986	3,200	600 600 600 600 600	2,500 2,000 3,000 3,000	3,200	3 900		0000	3,200	3,200	3,200	3,200
I Vall	Tacolle. Terminus, Ottawa, to Chaudière Falls Canada Atlantic Railway. Clarke's Island to Valleyfield Lacolle to International Boundary	Canada Central Railway, Per	Canadian Pacific Ry. Co., Ca	St. Martin's Junction to Quebec. For extension of C.P.R Connecting Jacques Cartier Union June, with	Cap Rouge and St. Lawrence	For a line, Cap Tourmente to	Caraquet Railway Co	(Central Ry. Co. N.B. Sussex, N.B.		(Cobourg, Northumberland Cobourg to Ontario and Quebec Railway.	Cornwallis Valley Ry. Co	Columbia and Kootenay Ry.	Cumberland 1	Dominion Lime Co., from po	duarnes.			Erie and Huron Ry. Co Petrolea vid Oil Springs to Dresden		For a line, I received the Counce of the Counce of the St. John River at fredericton and St. Mary's Bridge Co., for a bridge over the St. John River at	Frederict	Grand Trunk, Georgian Baylan	Tara and Hepworth to the Town of Owen Sound (Yamaska to River St. Francis	Greet Bestern Ry Co St. Francis to St. Grégoire	
1885 48 49 Vic., c. 59.	1886 49 Vic., c. 10	1887 50-51 Vic., c. 24	1883 46 Vic., c 2	1884 47 Vic., c. 8 1885 48-49 Vic., c. 58.		1892 55-56 Vic., c. 5.	1883 46 Vic., c. 25 1884 47 Vic., c. 8	1889 52 Vic., c. 3.	1890 53 Vic., c. 2	1890 53 Vic., c. 2. 1892 55-56 Vic., c. 5.	1987 50-51 Vic., c. 24.	189053 Vic., c. 2.	1887 50-51 Vic., c. 24	1887 50-51 Vic., c. 24	1887 50–51 Vic., c. 24. 1889 52 Vic., c. 3	1892 55-56 Vic., c. 5	1883 46 Vic., c. 25		1884 47 Vic., c. 6.	1889 59 Vic., C. 2	1000	1889 52 Vic., c. 3	1886 49 Vic., c. 10	1887 50-51 Vic., c. 24)	1889 52 Vic., c. 3 1890 53 Vic., c. 2

No. 1-Alphabetical List of Railways subsidized by the Parliament of Canada-Continued.

				··P												
48,000-00	342,400 00	240,200 00		51,200 00	102,400 00	48,000 00	96,000 00	80,000 00	96,000 00	112,000 00	103,600 00	361,270 00 42,200 00	192,000 00	67,200 00 118,400 00 80,000 00 40,000 00	320,000 00	
15	38	0£.89		16	33	15	8	52	≋.	3	83	70 13·50	38	21 25 12:50	100	
48,000 00	160,000 00	12,400 00		44,800 00		48,000 00	96,000 00	32,000 00 48,000 00	48,000 00		9,600 00 9,600 00	$ \begin{array}{c c} 361,270 & 00 \\ 32,000 & 00 \\ 10,200 & 00 \end{array} $	96,000 00	67,200 00 118,400 00 80,000 00 40,000 00		140,800 00
15	\$ & & & & & & & & & & & & & & & & & & &	689 50 50 50 50 50 50 50 50 50 50 50 50 50	10 1		16 16	15	8	83	515		60	$\begin{array}{c} \cdots & 70 \\ 10 \\ 3_{\frac{1}{2}} \end{array} $	30 eo	ន្តមនុ	40 6 10 10	#
3,200	3,200	3,200	3,200 3,200 3,200	. 8 . 8 . 8 . 8 . 8 . 8 . 8 . 8 . 8 . 8	000 000 000 000 000 000 000	3,200	3,200	3,200 3,200	3,200	1,000	3,200	3,200	3,200	6,8,8,8,8 00,82,8 00,008,8	0086	3,200
For a line, Lachine Bank on G. T. Railway to Rivière des Prairies	Lake Erie and Detroit River Railway Co.	(LA Lake Temiscamingue Col-	onization R	Leamington and St. Clair	Lindsay, Bobcaygeon and C Pontynool Rv. Co.	Lotbinière and	Manitoulin and North Shore Railway Co., Little Current to Algoma Branch of C. P. R.	Massawippi Jun	Maskinonge and Nipis-	Montreal and Sorel Rail-	way Co. Montreal and Champlain Junction Railway Co.		_≥	Montfort Colonization Ra New Brunswick and Princ Nicola Valley Railway Co	:	T
1890[53 Vic. c. 2	1887 50 -51 Vic., c. 24. 1890 53 Vic., c. 2. 1892 55 -56 Vic., c. 5.	1887 50-51 Vic., c. 24.	1887 50-51 Vic., c. 24. 1892 55-56 Vic., c. 5	1885 48-49 Vic., c. 59.	1887 50-51 Vic., c. 24. 1890 53 Vic., c. 2.	1892 55-56 Vic., c. 5.	1890 53 Vic., c. 2	1888 51 Vic., c. 3	29188952 Vic., c. 3.	1890 53 Vic., c. 2 1885 48-49 Vic., c. 59.	189053 Vic., c. 2	1892 55-56 Vic., c. 5. 1890 53 Vic., c. 2. 1886 49 Vic., c. 10.	1887 50-51 Vic., c. 24 1890 53 Vic., c. 2.	1891 54-55 Vic., c. 8) 1892 55-56 Vic., c. 5 1885 48-49 Vic., c. 59 1882 55-56 Vic., c. 59	1892 550-56 Vic., c. 5 1884 47 Vic., c. 8 1885 48 - 49 Vic., c. 59 1886 49 Vic., c. 10	

No. 1-Alphabetical List of Railways subsidized by the Parliament of Canada-Continued.

Total of Subsidy Grant Mileage to each Company.	Not No. of to Miles sub- Amount. exceed. sidized.	% cts.	660,000 00 110 1,320,000 00 660,000 00	108,800 00) 80 256,000 00 147,200 00)	72,400 00 53.87 172,400 00	32,000 00 10 32,000 00 99,200 00 31 99,200 00	22,400 00 7 22,400 00	320,000 00 62 320,000 00	70.400 00 96,000 00 107 430,400 00 284,000 00	166, 400 00 52 166, 400 00 128, 000 00 979, 000 00 128, 000 00	24,000 00 337,100 00 31,500 00 337,100 00
Details of Grant.	Rate Number of Miles.		6,000	3,200 34 1 3,200 46 1	3,200 25 3,200 53·87 1	3,200 10 3,200 31	3,200	62	27.1 3.8 25.	-22 40	3 7½ > 92·50
	Company or Work subsidized.	•	(Gravenhurst to Callander Northern and Pacific (Additional).	Nova Scotia Central Rail- Lunenburg to a point in district of New Germany, way Co.	Nipissing and James Bay Ry., from at or near North Bay, C.P.R., towards James Bay. Ontario and Pacific Railway Co., Cornwall to Ottawa.		Oshawa Railway and Navigation Co., Port Oshawa towards Raglan	Ottawa and Gatineau Valley Railway Co., Hull Station towards Le Désert	Ottawa, Arnprior and Egansville to Barry's Bay. Parry Sound Ry. Co. Romey's Ray to Northern Pacific Railway Innetion	ori e	1884 7 Vic., c. 8 Pontiac Pacific Junction From 3 miles east of Pembroke to Pembroke. 1888 1 Vic., c. 3 Railway Co. Railway Co.
Authority for Grant.	Designation of Act.			8 1887 50-51 Vie., c. 24.)	1892 55-56 Vic., c. 5 1889 52 Vic., c. 3.		1887 50-51 Vic., c. 24.)	1885 48-49 Vic., c. 59.		1890 53 Vic., c. 2 1889 52 Vic., c. 3	1884 47 Vic., c. 8 1888 51 Vic., c. 3

							_	_	1.	 _								- , ,	~~	, ~	_	-						-							
19,200 00	287,200 00	00 340 00	(M) 24C (M)					1 009 408 00	1,005,455 00					96.000 00		80,000 00	940 600 00			158,400 00	38,400 00	38,400 00	90 90 95	16,000	375,000 00	00 000 210	217,000 00	82,624 00		102,400 00	22,400 00		188,800 00		25,600 00
. 9	22.68	<u> </u>	3					376	c ti					8	15	1 8	15	15	<u>-</u>	\$	12	27	 	<u>.</u>	25.50	30.00	€ 8	25.82		32	t~		6 6		- oc
19.200 00	271,200 00	16,000 342 80,342 80	384,000 00	80,000 00	96,000 00	180 905 00	100, 500, 6001	28,800 00	96,000 00	64,000 00	30 000 00	, , , , , , , , , , , , , , , , , , ,	38,400 000	96,000	48,000 00	80,000 00	940 000 00	163,200 00		158,400 00	38,400 00	38,400 00	12,600 00	16,080 93	375,000 00	000 000	57.600 00		25,024 00	102,400 00	22,400 00	70,400 00	70,400 00	48,000 00	25,600 00
9	843 893	- - -		120		(65)	(0,1)	9 248	30 Ç	 <u>ور</u>	6	-	<u> </u>	98	15	£	į.	2.5	12	- 64	12	- 12	<u>~</u>	 8 1:5	50.20		· æ	, n		35	ı -	22	£3	15	 œ
3,200	3,200	···		9,200	3,200		:	3,200	3,200	 3,200	3 900		:	3.200	3,200	3,200	3 900	3,200	3,200	3,200	3,200	3,200		9,50	5	. 6	3,200		:		:	3,200	3,200	3,200	-:
188952 Vic., c. 3 Pontiac and Renfrew Railway Co., opposite Braeside or Bristol to Pontiac Pacific Junction Railway, near Onion River.	3) Port Arthur, Duluth and f Po	\			1885 49 Vic., c. 59.	•	1887 50-51 Vic. 25 Onebec to Lake St. John—being tortion uncovered	Ouebec and Lake St.	John Railway Co.	1890 53 Vic., c. 2)		1892 55-56 Vic., c. 5.	_	1889/52 Vic., c. 3	1892[55-56 Vic., c. 5 Restigouche and Victoria Railway Co., Campbelltown towards Grand Lake	For a line, Revelstoke to the head of Arrow Lake.	255-26 Vic., c. 3 For a line, Sandpoint, Shelburne tharbour to Annapoins Koyat, and to a Junction of the same	nand Okanagon Bailway	orfol	1889 52 Vic. c. 3 South Ontario Pacific Railway Co., Woodstock to Hamilton	harine	55-56 Vic., c. 5 St. Eustache to a point on C. P. R., Isle Jesus	35-56 Vic., c. 5 St. Eustache and St. Placide.	1892 Dr. C. G. D. St. Ribarte and Little Metis to Matched.	r Fron	ټـ.	154-55 Vic., c. 8) 154-55 Vic., c. 8) St. Lawrence and Adiion. (Valleyfield to Huntingdon.	dack Railway Co.		it, John's to S	t. Louis and	ey, Fredericton to Village of Prince William	it. John Valley and Ri-	1892 55-56 Vic., c. 5 Co. Transfer teaming Extension from north end of line subsidized towards	1892/55-56 Vic., c. 5 St. Placide to St. Andrews

No. 1-ALPHABETICAL List of Railways subsidized by the Parliament of Canada-Concluded.

v ictor ta.		COSSIGI	lai	Lat	CI	ъ (.	NO.	ð.j				4	.	103
Total of Subsidy Grant Mileage to each Company.	Amount.	e cts.	38,400 00 11,200 00	236,800 00	89,600 00	9	670,860 00	54,400 00	51,200 00	134,400 00	16,000 00 35,200 00	500,000 00	256,000 00	83,200 00
Total of S to each	No. of Miles sub- sidized.		12 3.50	# <u>1</u>	°88	· ·	6II	18	91	88	, 11	20	₹	
ant.	Not to exceed.	& cts.	38,400 00 11,200 00	80,00C 156,800 00 00 00 00 00 00 00 00 00 00 00 00	89,600 00 89,600 00	240,000 00 258,000 00	100,000 00 51,000 00	21,600 00 54,400 00	. 51,200 00	86.86 86 86 86 86.86 86 86 86 86 86 86 86 86 86 86 86 86 8	35,200 00 35,200 00	500,000 00	256,000 00	64,000 00 19,200 00
Details of Grant.	Estimated Number of Miles.		12			88	20 -119 16 -		16	28	4) 11	8	€	8 æ
	Rate per mile.	99				for 75 ms. for 75 ms. for 8 ms.	3,200 16	3,200	- :		3,200		3,200	3,200
	Company or Work subsidized.		St. Rémi to St. Cyprien St. Stenhan and Milltown	,	For a line, Summerside to relemined bay, F. E.1.	Rivière du Loup to Edmundston	Témiscouata Railway Co. Stranch from Edmundston towards St. Francis In extension of 29 miles subsidized		way Co. Tilsonburg, Lake Erie and	Pobique Valley Ry. Co. In extension of 14 miles.	Toronto, Grey and Bruce Railway Co, Glenannan to Wingham Waterloo Junction Railway, Waterloo to Elinira	Western Counties Railway, Digby to Annapolis	For a line, Woodstock vid London to Chatham, Ont. (See Ontario and Pacific	Woodstock and Centre-(Woodstock and Centreville ville Railway Co. (To International Boundary
Authority for Grant.	Designation of Act.		1892 55-56 Vic., c. 5	1892 55-56 Vic., c. 5	01892 55 Vic., c. 2. 1890 55 56 Vic., c. 5	45 Vic., c. 14	1888 51 Vic., c. 3. 1830 53 Vic., c. 2.	1892 55-56 Vic., c. 5 1889 52 Vic., c. 3	1890 55-56 Vic., c. 5 1892 55-56 Vic., c. 5	53 Vic., c. 2 54-55 Vic., c. 8	1892 55–56 V1c., c. 5) 1886 49 Vic., c. 10 890 53 Vic., c. 2.	1887 50-51 Vic., c. 25.	1890 53 Vic., c. 2	1892 55-56 Vic., c. 5
Aut	A.D.		1892	6817	0 1890 0	1882	288 288 30 30 30 30 30 30 30 30 30 30 30 30 30	1892	1890	1890	1886	1887	1890	1892

No. 2.—Statement showing Railways receiving Cash Subsidies (not included in Statement No. 1), of fixed amounts, payable Annually or Semi-annually for fixed periods of years, or Interest in place of or until the Capital granted be paid.

jį . †	e cts.	8					: 1
Total paid.	\$\$	558	Z	op	qo	do	
Date and Number of Instalment paid.		30th June (6)	Nil.	op	op	op	do 15
		93,300 00 per ½ year for 20 years 30th June (6)	. 20 do	21 do	ob 02	20 do	:
Amount of Instalment.		er 4 year	do .	op	qo	op	
Amount	e cts.	93,300 00 p	85,301 00	3,136 00	10,595 77	1,890 00	*59,850 00
Amount of Subsidy voted.	ee cts.	:	:	179,200 00	288,000 00	34 +108,000 00	279 2,394,000 00
Miles subsi- dized.		252	16.85	95	8		} 279
Description of Lines subsidized.		International Railway Co. (Atlantic and North-western), Montreal to Harbours of St. John and Halifax	Chignecto Marine Transport Ry. Co., Ship Kallway—Culf of St. Lawrence to Bay of Fundy	Kingston, Smith's Falls and Ottawa Ry. Co.	Quebec Central Railway Co	1 1889 52 Vic., c. 3)	Provincial Govt. of Quebec, Montreal to Quebecdo
Designation of Act.		1885 48-49 Vic., c. 58. International Montreal to	15 Vic., c. 55}	33 Vic., c. 2	51 Vic., c. 3	52 Vic., c. 3 53 Vic., c. 2	1884 47 Vic., c. 8
Year.		1885	1882	1890	1888 1890 1890	6881 1890	1884

+\$800 short voted in amount specified under the Acts 52 and 53 Vic., as being replaced by the Act 55-56 Vic., c. 5. * Annual interest at rate of 5 per cent; interest only paid, subsidy still due.

No. 3.—Statement showing Railways subsidized by the Grant of Loans.

Year.	Designation of Act.			Amount of Loan paid to the Company.	Loan	
1889	52 Vic., c. 3	LOANS. Albert Railway Company, Salisbury to Hopewell. Fredericton and St. Mary's Bridge Company St. John Bridge and Railway Extension Company	\$ 15,000 300,000 500,000	\$ cts. 14,725 56 300,000 00 433,900 00		

No. 4.—Statement showing Railways subsidized by the Grant of certain used Iron Rails valued at the amount set forth.

Year.	Designation of Act.		Tons of used Rails.	Standing in Public Accounts as an Asset.	Paid.	Still due, 30th June, 1892.
1888	51 Vic., c. 3.	Central Ry. Co. of New Brunswick. Elgin, Petitoodiac and Havelock Ry Kent Northern Ry. of New Brunswick Halifax Cotton Company Siding. Steel Company of Canada. Albert Railway Company. Chatham Branch Railway.	233 597 726 958	\$ cts. 83,612 54 44,252 82 58,334 27 4,335 00 11,964 66 14,665 45 24,439 84 241,604 58	\$ cts. 83,612 54 44,252 82 	\$ cts. 58,334 27 4,335 00 11,964 66 14,665 45 89,299 38

of Land.	
\dashv	
o	
œ	
l by Grants	
Ç	
S.	
_	
ŽΦ	
5	
Ē	
-STATEMENT showing Railways subsidized	
78	
₩ W	
Ξ	
≈.	
~	
8	
7	
5	
Bh	
Ħ	
E	
EM	
5	
E	
S	
. 5.—S	
٠.	
Š	
-	

Total Grant. Acres.	320,000 1,920,000 2,176,000 25,000,000 384,000 1,508,000 1,900,000 2,880,000 2,880,000 2,918,400 2,918,400 2,918,400 2,918,400 2,918,400 2,918,400 2,918,400 386,500 1,306,500 704,000 3,300,000 3,300,000 1,089,180 3,900,000 3,300,000 3,300,000 1,089,180 9peration.
Estimated Number of Miles.	$\begin{array}{c} 50 \\ 300 \\ 2,005 \\ 2,005 \\ 2,005 \\ 2,005 \\ 100 \\ 245 \\ 25 \\ 110 \\ 245 \\ 125 \\$
Acres per Mile.	6,400 6,400 6,400 8,400 6,400
Line subsidized.	1889 22 Vic., c. 4. 1889 22 Vic., c. 3. 1889 22 Vic., c. 3. 1889 23 Vic., c. 3. 1889 24 Vic., c. 3. 1889 25 Vic., c. 3. 1889 25 Vic., c. 3. 1889 25 Vic., c. 3. 1889 25 Vic., c. 3. 1889 25 Vic., c. 4. 1889 26 Vic., c. 3. 1889 26 Vic., c. 4. 1889 26 Vic., c. 4. 1889 27 Vic., c. 4. 1889 27 Vic., c. 4. 1889 27 Vic., c. 4. 1889 28 Vic., c. 4. 1889 28 Vic., c. 4. 1889 28 Vic., c. 4. 1889 29 Vic., c. 4. 1889 29 Vic., c. 4. 1889 20 Vic., c. 4. 1889 20 Vic., c. 4. 1889 20 Vic., c. 4. 1889 27 Vic., c. 4. 1889 27 Vic., c. 4. 1889 28 Vic., c. 4. 1889 29 Vic., c. 4. 1889 29 Vic., c. 4. 1889 20 V
- Act.	1889 52 Vic., c. 4 1890 53 Vic., c. 3. 1890 53 Vic., c. 4 1890 53 Vic., c. 4 and c. 5. 1881 44 Vic., c. 1 1891 54 55 Vic., c. 4 1894 7 Vic., c. 6 1895 52 Vic., c. 4 1896 53 Vic., c. 4 1896 54 Vic., c. 11 1896 55 Vic., c. 4 1896 55 Vic., c. 4 1896 54 Vic., c. 4 1896 55 Vic., c. 4 1897 56 Vic., c. 4 1897 56 Vic., c. 4 1885 48 49 Vic., c. 4 1885 48 49 Vic., c. 4 1885 48 49 Vic., c. 4 1885 48 49 Vic., c. 4 1885 48 49 Vic., c. 4 1885 55 Vic., c. 4 1887 56 51 Vic., c. 23. 1889 52 Vic., c. 4 1887 56 51 Vic., c. 23. 1889 52 Vic., c. 4 1887 56 51 Vic., c. 23. 1889 52 Vic., c. 4 1887 56 51 Vic., c. 23. 1889 52 Vic., c. 4
Year.	9881 9881 9881 173 1888 188 1888 1888 1888 1888 1888 1888 1888 1888 1888 1888 18

No. 5.—Statement showing Railways subsidized by Grants of Land—Concluded.

V 10001100	coordinar rup
	2,229,333 248 miles com- pleted and in 352,000 operation. 1,536,000
Estimated Total Grant. Number Of Acres. Miles.	2,229,333
Estimated Number of Miles.	234 3484 325 55 No dis- tance named 240
Acres per Mile.	6,400 234 6,400 325 6,400 a.cres in/Manicoba. 12,800 acres in/N.W.T. (nam.
Line subsidized.	1885 48-49 Vic., c. 60) Qu'Appelle, Long Lake and Regina to Long Lake. Saskatchewan Railway and Long Laketon to near Elbow North Saskatchewan, with Saskan-boat Co. 1887 50-51 Vic., c. 23) Red Deer Valley and Coal Co., from Town of Calgary to point on Township 29, Range 23, west 4th Meridian. 1884 47 Vic., c. 25 Winnipeg and Hudson Bay Railway Co., Winnipeg to Hudson Bay and Fort Qu'Appelle Railway Co., from Wood Mountain vid Qu'Appelle and Fort Qu'Appelle to the Manitoba and North-western Railway.
. Act.	48-49 Vic., c. 60) 50-51 Vic., c. 23) 54-55 Vic., c. 9 47 Vic., c. 25
Year.	1887 1887 1891 1884

* Name changed by 52 Vic., c. 65, to the North-western Railway of Canada.

APPENDIX No. 20.

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 Act 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 \$660,000
2. For a railway from St. Raymond to Lake St. John, both in the Pro-
vince of Quebec, a subsidy not exceeding \$3,200 per mile, nor ex-
ceeding in the whole
3. For a railway from a point on the Intercolonial Railway at Rivière
du 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 240,000
4. For a railway from Oxford to New Glasgow, both in the Province
of Nova Scotia, a subsidy not exceeding \$3,200 per mile, nor exceed-
ing in the whole 224,000
"The said subsidies to be granted to such companies as shall be approved by the

"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 Government, across the Isthmus of Chignecto, from the Gulf of St. Lawrence to the Bay of Fundy, per year, for twenty-five years.... \$150,000

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 railway, from Matapediac, on the Intercolonial Railway, to Pashebiac, in the Province of Quebec, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole......

320,000

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	
	whole	\$115.200
8.	To the Gatineau Valley Railway Company, for the first 50-mile section	* y = 0 · 2
	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 80 miles of their railway from Canso to Louisburg or Sydney in	
	the Province of Nova Scotia, a subsidy not exceeding \$3,200 per	
10	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 exceeding in the whole	120000
11	To the Northern and Western Railway Company, for 32 miles of their	156 ,800
11.	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	102,410
12.	To the Montreal and Western Railway Company, for the first 50-mile	102,410
	section of their railway, out of St. Jeiôme, in the Province of	
	Quebec, a subsidy not exceeding \$3,200 per mile, nor exceeding in	
4.0	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	
1.4	the whole	89,600
7.4.	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	
		20.000
	In addition to the subsidy granted by the Act forty-fifth Victoria,	80,000
	chapter fourteen.	
15.	For a railway from the International Railway at Petitcodiac to Have-	
	lock Corner, in the Province of New Brunswick, 12 miles, a subsidy	
4.0	not exceeding \$3,200 per mile, nor exceeding in the whole	38,400
16.	For a railway from Gravenhurst to Callender, 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,	
	chapter 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 granted

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."

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 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 coats via the Inter colonial 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......1,440,000 20. For the construction of a line of railway connecting Montreal with the harbours of St. John and Halifax by the shortest and best practicable route, after the report of competent engineers, a subsidy not exceeding \$170,000 per annum, for fifteen years, or a guarantee of a like sum for a like period as interest on bonds of the company undertaking the work. 21. 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. 22. To the Quebec Central Railway Company, for a line of railway from Beauce Junction to the International boundary line, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole. 211,200 23. For the extension of the Canadian Pacific Railway, from its terminus 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 24. 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 Township of Dungannon, County of Hastings, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole..... 160,000 25. To the Pontiac Pacific Junction Railway, for a line of railway from Hull or Aylmer to Pembroke, provided the Ottawa River is crossed at some point not east of Lapasse, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole..... 272,000 26. To the Gatineau Railway Company, for a line of railway from Kazuabazua to Le Désert, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole...... 160,000

27. To the Napanee, Tamworth and Quebec Railway Company, for a	
line of railway from Tamworth to Bogart and Bridgewater, a sub-	* * 0.400
sidy not 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	
Dayliamout towards Lo Désart a subsidir not arreading \$2.000 nor	
Parliament, towards Le Désert, a subsidy not exceeding \$3,200 per	100 000
mile, nor exceeding in the whole.	160,000
29. To the Northern and Western Railway Company, for a line of railway	
from Fredericton to the Miramichi River, a subsidy not exceeding	
\$3,200 per mile, nor exceeding in the whole (instead of the sub-	100 000
sidy proposed in 1883)	128,000
Wellesham to Service a subsiderant exceeding \$2,900 mer with	
Wallaceburg to Sarnia, a subsidy not exceeding \$3,200 per mile,	00.000
nor exceeding in the whole	96,000
31. To the Ontario and Pacific Railway Company, for a line of railway	
from Cornwall to Perth, a subsidy not exceeding \$3,200 per mile,	000 400
nor exceeding in the whole	262,400
32. To the Kingston and Pembroke Railway Company, for a line of rail-	
way from Mississippi to Renfrew, a subsidy not exceeding \$3,200	40 000
per mile, nor exceeding in the whole	48,000
33. To the Great Northern Railway Company, for that portion of their	•
railway between St. Jérôme and New Glasgow, in the County of	
Terrebonne, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	99 000
ing in the whole	32,000
34. For a line of railway and bridge between the Jacques Cartier Union	
Railway Junction with the Canadian Pacific Railway and St.	
Martin's Junction, connecting the Jacques Cartier Union Railway with the North Shore Railway proper, a subsidy not exceeding in	
the whole	200,000
35. For a line of railway from Richibucto to St. Louis, a subsidy not ex-	200,000
ceeding \$3,200 per mile, nor exceeding in the whole	22,400
36. For a line of railway from Hopewell to Alma, in the Province of New	22,400
Brunswick, a subsidy not exceeding \$3,200 per mile, nor exceed-	
ing in the whole	51,200
37. For a line of railway from St. Andrews to Lachute, in the County of	31,200
Argenteuil, a subsidy not exceeding \$3,200 per mile, nor exceeding	
in the whole.	22,400
38. For a line of railway from the Grand Piles, on the River St. Maurice,	22,100
to Lake Edward, a subsidy not exceeding \$3,200 per mile, nor ex-	
ceeding in the whole	217,600
39. For a line of railway from Annapolis to Digby, in the Province of	-11,000
Nova Scotia, a subsidy not exceeding \$3,200 per mile, nor exceed-	
ing in the whole	64,000
40. For a line of the Central Railway, from the head of Grand Lake to	-,
the Intercolonial Railway, between Sussex and St. John, a subsidy	
not exceeding \$3,200 per mile, nor exceeding in the whole	128,000
41. To the Caraquet Railway Company, for the extension of their line of	. ,
railway from Caraquet to Shippegan Harbour, in the Province of	
New Brunswick, a subsidy not exceeding \$3,200 per mile, nor ex-	
ceeding in the whole	76,800
42. For a branch of the Intercolonial Railway, from Metapediac eastward	•
towards Paspebiac, twenty miles, in the Province of Quebec, a sum	
not exceeding in the whole	300,000
43. For a branch of the Intercolonial Railway, from Derby Station to	•
Indiantown, fourteen miles, a sum not exceeding in the whole	140,000
"The subsidies hereinbefore mentioned as to be granted to companies	named
for that purpose shall be granted to such companies, respectively; the other s	ubsidies
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 comp	lete the
178	

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 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 Canada 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.

By the special Act 47 Vic., cap. 6 (1884). (Assented to 19th April, 1884):--

44.	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 con-
	struction 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

By the Act 48-49 Vic., cap. 59 (1885). (Assented to 20th July, 1885):— To the Ottown Weddington and New Youls Daily

166,400

118,400

72,000

128,000

96,000

Æ0.	To the Ottawa, waddington and New York Ranway 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
4 6.	To the New Brunswick and Prince Edward Island Railway Company,

for a line of railway from Sackville to the Straits of Northumberland, at or near Cape Tormentine, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole.....

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.....

48. To the Brockville, Westport and Sault Ste. Marie Railway Company, for a line of railway from Brockville to Westport, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole.....

49. To the Quebec and Lake St. John Railway Company, for a line of railway 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, nor exceeding in the whole.....

50. To the Northern and Western Railway Company, for a line of rail-

way from the northern end of the 40 miles subsidized between Fredericton and the Miramichi River by 47 Victoria, chapter 8, to *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 at Quebec. $9-12\frac{1}{3}$

Boiestown, a subsidy not exceeding \$3,200 per mile, nor exceeding	
in the whole	\$19,200
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
\$500 per mile, nor exceeding in the whole	, ,
railway from the Murillo station of the Canadian Pacific Railway	
to the east end of Whitefish Lake, a subsidy not exceeding \$3,200	09 000
per mile, nor exceeding in the whole	92,000
Coe 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	10 500
mile, nor exceeding in the whole	10,500
mingue, a subsidy not exceeding \$3,200 per mile, nor exceeding in	
the whole	25,600
56. For a line of railway from a point on the Canada Southern Railway	·
near Comber, to Lake Erie, at or near the village of Leamington,	
a subsidy not exceeding \$3,200 per mile, nor exceeding in the	44,800
whole	44,000
of railway from Tamworth towards Bogart and Bridgewater, 16	
miles, in lieu of the subsidy granted by 47 Vic., chapter 8, a sub-	
sidy of	70,000
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 sub-	
sidy ofsidy of	320,000
59. For a line of railway from the Grand Piles, on the River St. Maurice,	0=0,000
to its junction with Lake St. John Railway, a distance of about 50 miles, in lieu of the subsidy granted by 47 Vic., chap. 8, for a line	
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	915 600
Edward, a subsidy of	217,600
Valleyfield to a point one and a-half miles west of Johnston's, a	
subsidy 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 Chaudière Falls, a subsidy not exceeding \$3,200	00.000
per mile, nor exceeding in the whole	96,000
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 n	amed for
that purpose shall be granted to such companies, respectively; the other	ubsidies
shall be granted to such companies as shall be approved by the Governor in	

"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-fith 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. Andrews, 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 extention 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."

By the Act 49 Vic., cap. 10 (1886.) (Assented to 2nd June, 1886) :
65. For a railway from a point at or near Moneton, to Buctouche, in the	
Province 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	250,000
railway, intervening between the termini of the portions of their	
railway for which subsidies are already granted, the one from	
Fredericton 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	
Shippegan, 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	32,000
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	150 000
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	
Sandridge, 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 or near	
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	100 000
subsidy not exceeding \$3,200 per mile, nor exceeding in the whole. 74. For a railway from St. Félix to Lake Maskinongé, Parish of St.	108,800
Gabriel, in the Province of Quebec, ten miles, a subsidy not exceed-	
ing \$3,200 per mile, nor exceeding in the whole	32,000
182	2-,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	•
Intercolonial 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	50,100
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	11,200
their reilway from St. Isrême north meeterly towards. Desert in	
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	001.000
exceeding in the whole	361,270
79. For a railway from St. Andrews to the Canadian Pacific Railway at	
or at any point east of the Town of Lachute, in the County of Ar-	
genteuil, in the Province of Quebec, seven miles, in lieu of the	
subsidy granted by 47 Vic., chap. 8, a subsidy not exceeding \$3,200	
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 exceeding \$3,200 per mile, nor exceeding in the whole	38,400
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	
exceeding in the whole	156,800
exceeding in the whole	200,000
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 exceed-	
ing \$1,961 per mile, nor exceeding in the whole (in addition to the	
subsidy granted by 45 Victoria, chapter 14, and 46 Victoria, chapter	
25 of \$2.200 non mile)	196 905
25, of \$3,200 per mile)	186,29 5
miles of their reilmore from Lengths wid Con Donne to Oughts in	
miles of their railway from Lorette via Cap Rouge to Quebec, in	
the Province of Quebec, a subsidy not exceeding \$3,200 per mile,	00.400
nor exceeding in the whole	38 ,400
84. For the construction of wharves and landing stages on the line of the	
railway from Long Sault to the foot of Lake Temiscamingue, a	
subsidy of	6,000
85. To the Gananoque, Perth and James Bay Railway Company, seven-	
teen miles, a subsidy not exceeding \$3,200 per mile, nor exceeding	
in the whole	54,400
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 com-	
munication with the Iron Mines, Spring Side, Upper Stewiacke	
and Musquodoboit settlements, twenty-five miles, a subsidy not	
exceeding \$3,200 per mile, nor exceeding in the whole	80,000
88. For a railway from Yamaska to the River St. Francis, in the Province	~,,,,,,,,
of Quebec, ten miles, a subsidy not exceeding \$3,200 per mile, nor	
exceeding in the whole	32,000
89. For a railway from Perth Centre station, on the New Brunswick Rail-	55,000
way, to a point near Plaister Rock Island, in the Province of New	
Brunswick, twenty-eight miles, a subsidy not exceeding \$3,200 per	00.000
mile, nor exceeding in the whole	89, 600

90. For a railway from Fredericton to the village of Prince William, in the Province of New Brunswick, twenty-two miles, a subsidy not	
exceeding \$3,200 per mile, nor exceeding in the whole	
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	
mile, nor exceeding in the whole	
teen miles of their railway from Tamworth to Tweed, in lieu of the	
subsidy granted by 48-49 Victoria, chapter 59, a subsidy of	
"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.

98.	To	the Richmond Hill Junction Railway Company, for five miles of	
		their railway from Richmond Hill Junction, on the Northern Rail-	
		way of Canada, to Richmond Hill village, a subsidy not exceeding	10.000
00	m.	\$3,200 per mile, nor exceeding in the whole	16,000
99.	10	the Drummond County Railway Company, for thirty miles of their	
		railway from Drummondville towards Nicolet, a subsidy not ex-	00.000
100	m	ceeding \$3,200 per mile, nor exceeding in the whole	96,000
TOO.	To	the Joggins Railway Company, for one and a quarter miles of	
		their railway extending from the southern end of the portion sub-	
		sidized by the Act 49 Victoria, chapter 10, to the wharves, a sub-	
404	m	sidy not exceeding \$3,200 per mile, nor exceeding in the whole	4,000
101.	То	the Moncton and Buctouche Railway Company, for two miles of	
		their railway from the west end of the portion subsidized by the	
		Act 49 Victoria, chapter 10, to Moneton, a subsidy not exceeding	
		\$3,200 per mile, nor exceeding in the whole	6,400
102.	To	the Beauharnois Junction Railway Company, for thirty miles of	
		their railway from St. Martin's towards St. Anicet, a subsidy not	,
		exceeding \$3,200 per mile, nor exceeding in the whole	96,000
103	\mathbf{T}_{0}	the Harvey Branch Railway Company, for three miles of their	
•		railway from the southern terminus of the Albert Railway to	
		Harvey Bank, a subsidy not exceeding \$3,200 per mile, nor ex-	,
		ceeding in the whole	9,600
104	. 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 inter-	
		mediate point on the Canada Southern Railway, a subsidy not ex-	
		eeding \$3,200 per mile, nor exceeding in the whole	57,600
105	\mathbf{T}	the Guelph Junction Railway Company, for sixteen miles of their	•
		railway from its junction with the Canadian Pacific Railway to the	
		town of Guelph, a subsidy not exceeding \$3,200 per mile, nor ex-	
		ceeding in the whole	51,200
106	. To	the Massawippi Railway Company, for ten miles of their railway	•
		fron a point on the Atlantic and North-western Railway, near the	
	•	village of Magog, to Ayer's Flat station, on the Massawippi Valley	
		Railvay, a subsidy not exceeding \$3,200 per mile, nor exceeding	
		in the whole	32,000
107	. To	the Napanee, Tamworth and Quebec Railway Company, for four	,
		miles of their railway from the north end of the section subsidized	
		by the Act passed in the session held in the forty-eighth and forty-	
		ninth years of Her Majesty's reign, chapter 59, to Tweed, a	
		subsidy not exceeding \$3,200 per mile, nor exceeding in the whole.	12,800
108.	\mathbf{T}	the Dominion Lime Company, for seven miles of their railway	,
		from a point on the Quebec Central Railway, in the township of	
		Dudswell to the Dudswell Lime Company's quarries, a subsidy	
		not exceeding \$3,200 per mile, nor exceeding in the whole	22,400
109	. Te	o the South Norfolk Railway Company, for seventeen miles of their	,
		railway from Port Rowan to the town of Simcoe, a subsidy not	
		exceeding \$3,200 per mile, nor exceeding in the whole	54,400
110.	To	the Jacques Cartier Union Railway Company, extending and com-	,
		pleting their railway, a subsidy of.	20,000
111.	Fo	ra line of railway from Mount Forest to Walkerton, twenty-four	,,,,,,
	_ •	miles in length, a subsidy not exceeding \$3,200 per mile, nor ex-	
		ceeding in the whole	76,800
112	T_0	the Oshawa Railway and Navigation Company, for seven miles of	. 0,000
~.		their railway from Port Oshawa towards Raglan, a subsidy not ex-	
		ceeding \$3,200 per mile, nor exceeding in the whole	22,400
119	T_{C}	the Saguenay and Lake St. John Railway Company, for thirty	, 400
0.	_	miles of their railway from Lake St. John towards Chicoutimi, or	
		mand of the control o	

	from	n Chicoutimi towards Lake St. John, a subsidy not exceeding	
114.	\$3,20 To the 0	00 per mile, nor exceeding in the whole \$ Great Eastern Railway Company, for thirty miles of their rail-	96,000
	Grég	from the River St. Francis to the Arthabaska Railway, at St. goire station, a subsidy not exceeding \$3,200 per mile, nor ex-	
115.	ceedi To the (Ontario and Pacific Railway Company, for six miles of their	96,000
	railv	way from the northern end of the portion subsidized by the Act Victoria, chapter 8, to the town of Perth, a subsidy not exceed-	
110	ing {	\$3,200 per mile, nor exceeding in the whole	19,200
110.	from	Caraquet Railway Company, for seven miles of their railway a Lower Caraquet to Shippegan, in lieu of the subsidy granted by	
117.	the A To the S	Act 49 Victoria, chapter 10, a subsidy not exceeding in the whole St. Lawrence and Lower Laurentian and Saguenay Railway	32,000
	Com	npany, for the section of this railway from Grand Piles, on the Maurice River, to its junction with the Quebec and Lake St.	
	Johr	n Railway, in lieu of the subsidy granted by the Act passed in	
	Maje	session held in the forty-eighth and forty-ninth years of Heresty's reign, chapter 59, for a line of railway from Grand Piles,	
	on the way.	the St. Maurice River, to its junction with the Lake St. John Rail- r, a distance of about fifty miles, a subsidy of	217,600
118.	To the S	St. John Valley and River du Loup Railway Company, for nty-two miles of their railway from the village of Prince	,
	Will	liam towards the town of Woodstock, a subsidy not exceeding	- 0.400
119.	33,20 To the	200 per mile, nor exceeding in the whole	70,400
	tions	as of railway, in all about two miles in length, to overcome the ids of the Ottawa River, known as "La Mi-Charge," "La Cave,"	
	" Le	es Erables," and "La Montagne," and for the construction of	
	dian	arves and landing stages at these rapids, to connect the Cana- n Pacific Railway at Mattawa with Lake Temiscamingue by	
	stear mile	m-boats, railways and other works (in lieu of a portion two es in length, out of the eight miles of railway subsidized by the	
	\mathbf{Act}	passed in the session held in the forty-eighth and forty-ninth rs of Her Majesty's reign, chapter 59, under which about six miles	
	of ra	ailway have already been built from the foot of Long Saultproper	
	gran	he foot of Lake Temiscamingue, and in lieu also of the subsidy need by the Act 49 Victoria, chapter 10), a subsidy of	12,400
120	To the their	Carillon and Grenville Railway Company, for twelve miles of ir railway from St. Eustache to Sault au Récollet, a suosidy not	
191	exce	eeding \$3,200 per mile, nor exceeding in the whole	38,400
121.	their	ir railway from its junction with the Joggins Railway, near the	
	not	er Hébert railway bridge, to the village of Minudie a subsidy exceeding \$3,200 per mile, nor exceeding in the whole	17,600
122	To the ten a	Lake Temiscamingue Colonization and Railway Company, for and a half miles of their railway from the Long Sault to Lake	
	Kip	pewa, a subsidy not exceeding \$3,200 per mile, nor exceeding he whole	33,600
123	To the	Leamington and St. Clair Railway Company, for two miles of	00,000
	pass	ir railway from the north end of the section subsidized by the Act sed in the session held in the forty-eighth and forty-ninth years of	
	Her	Majesty's reign, chapter 59, to the village of Comber, a sidy not exceeding \$3,200 per mile, nor exceeding in the whole	6,400
124	To the	Cumberland Railway and Coal Company, for fourteer miles of	.,200
	way	ir railway from a point on the Spring Hill and Parrsboro Rail- 7, near Spring Hill, to a point on the railway between Oxford	
	and ing	New Glasgow, near Oxford village, a subsidy no: exceed- \$3,200 per mile, nor exceeding in the whole	44,800
	. –	- · · · · · · · · · · · · · · · · · · ·	•

125. To the Montreal and Champlain Junction Railway Company, a subsidy 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 subsidy
not exceeding \$3.200 per mile, nor exceeding in the whole 28,800
127. To the Temiscouata Railway Company, for thirty miles of a branch of their railway from Edmundston towards the St. Francis River, a
subsidy not exceeding \$3,200 per mile, nor exceeding in the whole 96,000 128. To the Cornwallis Valley Railway Company, for thirteen miles of their
railway from Kentville to Kingsport, a subsidy not exceeding
\$3,200 per mile, nor exceeding in the whole
their railway, a subsidy not exceeding \$3,200 per mile, not exceed-
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
Railway, 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
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 nor exceeding 118,400
"For the purpose of granting corporate powers to persons or companies undertaking the construction of railways or parts of railways, mentioned in the next
preceding section, for the construction of which no corporate powers exist at the time of the passing of this Act, the Governor in Council 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, as the Governor in

Council 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

"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 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-six 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."

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 \$70,400 00 exceeding in the whole...... 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 in the whole.... 9,600 00 137. 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 Vic-32,000 00 toria, chapter 24, a subsidy of...... 138. To the Pontiac Pacific Junction Railway Company, for bridging 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

139. To the Port Arthur, Duluth and Western Railway Company, for 843 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....

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

271,200 00

41,100 00

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	100,000	00
ceeding \$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	00
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 fasten-		
ings 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	83,612	54
Railway, which rails and fastenings stand in the Public Accounts as an asset for	44,252	82
loaned to the company, which rails and fastenings stand in the Public Accounts as an asset for	5 8,33 4	27
Accounts as an asset for	4,335	00
as an asset for	11,964	66
the Public Accounts as an asset for 189	1 4 ,66 5	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., cap. 3 (1889). (Assented to 2nd May, 1	889) :—
150. To the Ontario and Pacific Railway Company, for a line of railway from Cornwall to Ottawa, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	\$172,400 0 0
151. To the Ottawa and Gatineau Railway Company, for a line of railway from Hull station towards Le Désert, a distance of sixty-two miles, a subsidy not exceeding in the whole	320,000 00
152. To the Cap Rouge and St. Lawrence Railway Company, for 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	· · · · · · · · · · · · · · · · · · ·
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 in the whole	128,000 00
of Argenteuil, in the Province of Quebec, seven miles, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole 155. For a railway from Truro, or a point between Truro and Stewiake,	22,400 00
to Newport or to Windsor, in the Province of Nova Scotia, forty-nine miles, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	156,800 00
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
unpaid of the subsidy granted by the Act 47th Victoria, chapter 8, nor exceeding in the whole	31,771 43
ing unpaid of the subsidy mentioned in the Act 49th Victoria chapter 17, not exceeding in the whole	244,5 00 00

·		
way 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
160. 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 45th Victoria, about a 14 and 46th Victoria charter 25 not available in the	·	
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,	30,000	UU
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	10,000	00
Sarnia, to a point at or near Port Huron, a subsidy not exceed-		
ing in the whole	375,000	00
their railway from the north bank of the Ottawa River, oppo-		
site Braeside, or from Bristol Iron Mines, to the Pontiac Pacific		
Junction Railway, near the Quion River, in the Province of	•	
Quebec, a subsidy not exceeding \$3,200 per mile, and not exceeding in the whole	10 200	00
164. To the Quebec, Montmorency and Charlevoix Railway Company,	19,200	vv
for thirty miles of their railway, from the east bank of the St.		
Charles River, to or near to Cap Tourmente, in the Province		
of Quebec, a subsidy not exceeding \$3,200 per mile, and not exceeding in the whole	96,000	00
165. To the Fredericton and St. Mary's Bridge Company, for a bridge	30,000	UU
over the St. John River, at Fredericton, in the Province of		
New Brunswick, a subsidy not exceeding in the whole	30,000	00
seven miles of their railway, from a point at or near Yarker		
to a point at or near Harrowsmith, and to a company for three		
miles of railway from a point at or near Harrowsmith to a		-
point at or near Sydenham, a subsidy not exceeding \$3,200 per mile, and not exceeding in the whole	20 000	00
167. For a railway from a point near Sicamous, on the Canadian	32,000	00
Pacific Railway, to a point on Lake Okanagan for fifty-one		
miles of such railway, a subsidy not exceeding \$3,200 per mile, and not exceeding in the whole	140.000	
168. To the Cornwallis Valley Railway Company, for one mile of their	163,200	00
railway, from the end of the line subsidized by the Act 50-51		
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
169. To the Lake Temiscamingue Colonization and Railway Company,	3,200	vv
for fitteen 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 Pro-		
vince of Quebec, a subsidy not exceeding \$3,200 per mile, nor		
exceeding in the whole	48,000	00
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 Quebec, a subsidy not exceeding \$3,200 per	40.00	
mile, nor exceeding in the whole	48,000	00
for twenty miles of their railway, from the city of Kingston		
191		

172.	towards Smith's Falls, in the Province of Ontario, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole 'To the South Ontario Pacific Railway Company, for forty-nine and one-half miles of their railway, from Woodstock to Hamilton, in the Province of Ontario, a subsidy not exceeding \$3,200	\$ 64,000 00
173.	per mile, nor exceeding in the whole	158,000 00
174 .	Province of Quebec, five miles, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	
175.	dière Junction station on the Intercolonial Railway, in the Province of Quebcc, a subsidy not exceeding \$3,200 per annum, nor exceeding in the whole	64,000 00
176 .	by the Act 50-51 Victoria, chapter 24, to Ball's Wharf, on the St. Lawrence River, in the Province of Quebec, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole To the St. Catharines and Niagara Central Railway Company, for twenty miles of their railway, from the end of the line subsi-	14,400 00
	dized by the Act 50-51 Victoria, chapter 24, at St. Catharines, towards the city of Hamilton, in the Province of Ontario, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	64,000 00
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,	·
178.	nor exceeding in the whole	64,000 00
179.	ing \$3,200 per mile, nor exceeding in the whole	48,000 00
180	exceeding \$3,200 per mile, nor exceeding in the whole 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
181.	ing in the whole	48,000 00
182.	Ontario, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	64,000 00
	in the Province of Ontario, a subsidy not exceeding \$3,200 per mile, nor exceeding 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 secondly 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 and 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 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 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 30 miles of	,
their railway, from the western end of the 30 miles subsidized	
by the Act 50-51 Victoria, chapter 24, towards Ottawa, a sub-	
sidy not exceeding \$3,200 per mile, and not exceeding in the	
whole	\$ 96,000
187. To the Waterloo Junction Railway Company, for 11 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 Callendar, 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, 80 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	950 000
mile, nor exceeding in the whole	256,000
of their railway, from the end of the 20 miles subsidized by	
the Act 52 Victoria, chapter 3, to Hamilton, a subidy not	
exceeding \$3,200 per mile, nor exceeding in the whole.	44,800
191. To a railway from Ottawa to Morrisburg, 52 miles, a subsidy not	44,000
exceeding \$3,200 per mile, nor exceeding in the whole	166,400
192. To the Erie and Huron Railway Company, for 22 miles of their	100,100
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 Com-	e ,
pany, for a railway from Brockville to Westport, the balance	
remaining unpaid of the subsidy granted by the Act 48-49	
Victoria, chapter 59, not exceeding in the whole	83,000
194. To the Manitoulin and North Shore Railway Company, for 30	
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	96,000
195. To the Port Arthur, Duluth and Western Railway Company, for	
5 miles of their railway, being a branch from the main line of	
railway to the Kakabeka Falls, a subsidy not exceeding \$3,200	10.000
per mile, nor exceeding in the whole	16,000
196. To the Lake Erie and Detroit River Railway Company, for 50 miles of their railway, on a line to be fixed by the Governor	
in Council, a subsidy not exceeding \$3,200 per mile, nor exceed-	
ing in the whole	160 000
194	160,000
101	

 197. To the Lindsay, Bobcaygeon and Pontypool Railway Company for 16 miles of their railway, from Bobcaygeon to the Milland Railway, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	\$ 51,200
Smith's Falls, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	115,200
exceeding \$3,200 per mile, nor exceeding in the whole 200. To the Belleville and Lake Nipissing Railway Company, for 30 miles of their railway, from Belleville to Tweed and thence to	96,000
Bridgewater, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	96,000
Quebec Railway, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	96,000
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 6 miles of their railway, from the western end of the 20 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 exceeding in the whole	19,200
and Gagetown, to a point on the New Brunswick Railway west of Westfield station, for 30 miles thereof, a subsidy not exceed- ing \$3,200 per mile, nor exceeding in the whole	96,000
205. To the Central Railway Company of New Brunswick, for 4½ miles of their railway, the distance which the previous subsidy granted is short of covering, from the head of Grand Luke to	
the Intercolonial Railway, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole. 206. To the Montreal and Western Railway Company, for 70 miles of their railway, from St. Jérôme, north-westerly towards Désert,	14,400
in the Province of Quebec, in lieu of the subsidy granted by the Act 49 Vic., chap. 10, a susidy not exceeding \$5,161 per mile, nor exceeding in the whole	361,270

"Provided, that the subsidy hereby granted to the Montreal and Western Railway Company may be paid by instalments on the completion of each section of the railway as follows, that is to say:—

SECTIONS.	Approximate
SECTIONS.	in miles.
St. Jérôme to Shawbridge	
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	. 14
St. Faustin to St. Jovite	$7\frac{1}{2}$
St. Jovite to Summit Lake	8
Summit Lake to La Chute aux Iroquois	
La Chute aux Iroquis towards Désert	. 3
$9-13\frac{1}{2}$ 195	

"Such instalments to be proportionate to the value of the portion so comparison with that of the whole work undertaken, to be established a		
207. For 75 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 whole	\$	240,000
208. To the Inverness and Richmond Railway Company for 50 miles of their railway from Port Hawkesbury to Broadcove, a subsidy not exceeding \$1,000 per mile, nor exceeding in the	₩	240,000
whole		50,000
209. To the International Railway Company, for a railway from Sher- brooke to the International boundary, the balance remaining unpaid of the subsidy granted by the Act 46 Vic., ch. 25, not		
exceeding in the whole		3,840
to Sorel		40,000
211. To the Pontiac Pacific Junction Railway Company, for 7½ miles of their railway, from Hull to Aylmer, a subsidy not exceed-		
ing \$3,200 per mile, nor exceeding in the whole		24,000
by the Act 29 Vic., ch. 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 213. To the Great Eastern Railway Company, for a bridge over the		10,200
Nicolet River, and also a bridge on the St. Francis River, a subsidy of 15 per cent on the value of the structures, not to		
exceed		37,500
Province of Quebec, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole		76,800
215. To the Great Northern Railway Company, for 15 miles of their railway, from, at or near Montcalm to the Canadian Pacific Railway, between Joliette and St. Félix de Valois, a subsidy		ŕ
not exceeding \$3,200 per mile, nor exceeding in the whole 216. To the Lake Temiscamingue Colonization Railway Company, for 20 miles of their railway, from the northern end of the 15 miles subsidized by the Act 52 Victoria, chapter 3, to the		48,000
Long Sault, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole		64,000
217. To the Maskinongé and Nipissing Railway Company, for 15 miles of their railway, from the northern end of the 15 miles 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 ex-		48.000
218. To the St. Lawrence and Adirondack Railway Company, for 18 miles of their railway, from Valleyfield to Huntingdon, on the		48,000
Montreal and Champlain Junction Railway, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole		57,600
near Moose River, or from a point on the Quebec Central Rail- way 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
way 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 12 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	68,400
vince of Prince Edward Island, 3 miles, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	9,600
of the Kootenay and Columbia Rivers, a subsidy not exceeding \$3,200 per mile, nor to exceed in the whole	112,000
communication with the Iron Mines, Springside, Upper Stewiacke and Mosquodoboit settlements, 25 miles, in lieu of the subsidy granted by the Act 49 Victoria, chapter 10, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole.	80,000
224. For a railway from Fredericton to the village of Prince William, in the Province of New Brunswick, 22 miles, in lieu of the subsidy granted by the Act 49 Victoria, chapter 10, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	70,400
for 22 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 exceeding	
3 200 per mile, nor exceeding in the whole	70,400
ing \$3,200 per mile, nor exceeding in the whole	51,200
exceeding \$3,200 per mile, nor exceeding in the whole 228. To the Orford Mountain Railway Company, for 31 miles of their railway, between Eastman and Kingsbury, a subsidy not ex-	35,200
229. 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 15 miles, a subsidy not exceeding \$3,200 per mile, nor ex-	99,200
ceeding in the whole	48,000
"The subsidies hereinbefore mentioned as to be granted to companie that purpose, shall be granted to such companies respectively; the other states of the subsidies hereinbefore mentioned as to be granted to companies."	

"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 its 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 Eric 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 rail-ways 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, nor exceeding in the whole

232. To the Quebec and Lake St. John Railway Company, for the railway bridge over the St. Charles River to give access to the

\$28,100 00

City of Quebec, the difference between the amount already paid to the Company and the sum of \$30,000 mentioned as not to be exceeded by the Act fifty-third Victoria, chapter two, a subsidy not exceeding	\$ 5,250 00
233. To the Oshawa Railway Company, for seven miles of their railway from Port Oshawa towards Raglan, in lieu of the subsidy for a like amount granted by the Act passed in the session held in the fiftieth and fifty-first years of Her Majesty's reign,	v 0, 20 0 00
chapter twenty-four, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	22,400 00
Company, for the section of their railway from Grand Piles, on the St. Maurice River to its junction with the Quebec and Lake St. John Railway, the balance remaining unpaid of the subsidy granted by the Act passed in the session held in the fiftieth and fifty-first years of Her Majesty's reign, chapter	
235. To the Great Eastern Railway Company, for thirty miles of their railway, from the River St. Francis to the Arthabaska Railway at St. Grégoire station, the balance remaining unpaid of the subsidy, not exceeding \$3,200 per mile, granted by the Act passed in the session held in the fiftieth and fifty-first years of Her Majesty's reign, chapter twenty-four, not exceeding	92,784 00
in the whole	79,700 00
and one-half miles of their railway from Woodstock to Hamilton, in the Province of Ontario, in lieu of the subsidy for a like amount granted by the Act fifty-second Victoria, chapter three, a subsidy not exceeding \$3,200 per mile, nor exceeding in the	150 400 00
whole	158,400 00
whole	46,040 00
7, not exceeding \$6,400 per mile, nor exceeding in the whole 239. 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 fifty-second Victoria, chapter	89,600 00
three, and 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 in	
cash of	179,200 00
"Provided, that upon the completion of twenty-eight miles of the a semi-annual subsidy may be paid proportionate to the value of the po	said railway
pleted in comparison with that of the whole fifty-six miles; Provided	also, that the

pleted 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 Sault 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.		ngth niles.
From at or near Newboro' to Westport	• • •	4
From Westport towards Palmer's Rapids		$1\overline{6}$

"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.

"3. 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 payments have been recommended, and copies of all contracts between the Government and the Company under which the said subsidies are authorized to be paid.

"4. 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, ch. 5 (1892). (Assented to 9th July, 1892):—
241. To the Lake Erie and Detroit River Railway Company, for 58
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	•	
242 . To	53 Victoria, chapter 2, and to the Amherstburg, Lake Shore and Blenheim Railway Company by the Act 52 Victoria, ch. 3. the Ottawa, Amprior and Parry Sound Railway Company,	\$ 224,000	00
	for 55 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 27½ miles out from Barry's Bay and not exceeding \$3,200 per mile on the second 27½ miles, nor exceeding in the whole	264,000	00
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 25 miles of such railway, a subsidy not exceeding \$3,200 per mile, nor exceed-		
244 . To	ing in the whole	80,000	
245 . To	mile, nor exceeding in the whole	9,600	00
246 . To	mile, nor exceeding in the whole	67,200	00
247 . To	wholethe Montreal and Champlain Junction Railway Company, the balance remaining unpaid of the subsidies granted by the Acts	32,000	00
248 . To	50-51 Victoria, chapter 24, and 51 Victoria, chapter 3, a subsidy of	15,100	00
	remaining unpaid of the subsidy, not exceeding \$3,200 per mile, granted by the Acts 49 Victoria, chapter 10, and 50-51 Victoria, chapter 24, not exceeding in the whole	35,480	00
249 . To	the Cobourg, Northumberland and Pacific Railway Company, for 19 miles of their railway from Cobourg to the Ontario and Quebec Railway (in addition to the subsidy granted by the Act 53 Victoria, chapter 2), a subsidy not exceeding \$3,200		
250 . Fo	per mile, nor exceeding in the whole	60,800	00
	such railway, a subsidy not exceeding \$3,200 per mile, nor exceeding in the wholethe Inverness and Richmond Railway Company (or any other	38,400	00
	company undertaking the work), for 25 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 conditions,		
252 . To	not exceeding in the wholethe Nicola Valley Railway Company, for 25 miles of their	80,000	00
	railway from a point on the Canadian Pacific Railway at or near Spence's Bridge towards Nicola Lake	80,000	00

	To the Lotbinière and Megantic Railway Company, for 15 miles of their railway from a point at or near St. Jean Deschaillons towards Glen Lloyd, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	\$ 48,000	00
201	way from a point on the Intercolonial Railway, through the Stewiacke Valley, on a line which will afford facilities of communication with the iron mines at Springside, Upper Stewiacke and Musquodoboit settlements, 25 miles, in lieu of the subsidy granted by the Act 53 Victoria, chapter 2, a sub-		
255.	sidy not exceeding \$3,200 per mile, nor exceeding in the whole. To the Philipsburg Junction Railway and Quarry Company, for $6\frac{7.5}{100}$ miles of their railway from Stanbridge Station to Philipsburg, in the county of Missisquoi, a subsidy not exceeding	80,000	
256 .	\$3,200 per mile, nor exceeding in the whole	21,600	00
257.	For a railway from Cape Tourmente towards Murray Bay, in the Province of Quebec, 20 miles, in lieu of the subsidy granted by the Act 52 Victoria, chapter 3, a subsidy not exceeding	9,600	
258 .	\$3,200 per mile, nor exceeding in the whole	64,0 00	00
259.	per mile, nor exceeding in the whole	156,800	00
260.	whole For a railway from St. John's to Ste. Rosalie, 32 miles, a subsidy	48,000	00
	not exceeding \$3,200 per mile, nor exceeding in the whole For a railway from St. Placide to St. Andrews, 8 miles, a subsidy	102,400	00
	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 28 miles of such railway, a subsidy not exceeding \$3,200 per mile, nor exceed-	25,600	00
263.	ing in the whole	89,600	00
264.	nor exceeding in the whole	96,000	
	the amount of such subsidies so granted, to be paid in semi- annual instalments for such period not exceeding 21 years, as		
"	the Company may elect, which represents a grant in cash of. Provided, that upon the completion of 28 miles of the said rai	179,200	
•••	LIUVIUUU. UUSU UUUU UUU COMDIOTION OT 28 MILOS OF TEE SSIA TSI	IWAV A PA	mı*

"Provided, that upon the completion of 28 miles of the said railway a semiannual subsidy may be paid proportionate to the value of the portion so completed

in comparison with that of the whole 56 miles: Provided also, that the Company may deposit with the Minister of Finance and Receiver-General, a sum not exceed-\$1,170,000, in consideration whereof there shall be paid to the Company for such period not exceeding 20 years as the Company may elect, a semi-annual annuity calculated on a basis of $3\frac{1}{2}$ 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 34 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 31 per cent on the amount of the said subsidies, to be paid in semiannual 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 10 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 34 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 20 years, as the Company may elect, a semi-annual annuity, calculated on a basis of $3\frac{1}{2}$ 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 iess. 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 railway from Woodstock towards Centreville, 20 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....

269. To the Thousand Island Railway Company, for an extension of their railway to connect with the Brockville, Westport and

\$ 64,000 00

96,800 00

40,000 00

Sault Ste. Marie Railway, the Kingston, Napanec and Western Railway, the Kingston, Smith's Falls and Ottawa Railway, or the waters of the Rideau Canal, and an extension across the mouth of the Gananoque River, the balance remaining unpaid of the subsidy granted by the Act 52 Victoria, chapter 3, not exceeding in the whole.......

\$44,000 00

Payable, \$14,000 on the completion of the last named or southern extension, and the balance of said subsidy, being \$30,000, on the completion of the first named or northern extension of their railway.

270.	To the Manitoulin and North Shore Railway Company, for 30 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			
271 .	exceeding \$3,200 per mile, nor exceeding in the whole To the Lindsay, Bobcaygeon and Pontypool Railway Company, for 16 miles of their railway from the end of the line subsidized by the Act 53 Victoria, chapter 2, at the junction with	\$ 96	,000	00
272.	\$3,200 per mile, nor exceeding in the whole For 75 miles of the railway from Sand Point, Shelburne Harbour, in Nova Scotia, to Annapolis Royal, in the county of Annapolis and to a junction at or near New Germany on the Nova	51	,200	00
	Scotia Central Railway, with a view to future construction to Liverpool, in lieu of the subsidy of a like amount granted by the Act 53 Victoria, chapter 2, for the same length of railway from Shelburne and from Liverpool towards Annapolis, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole.	240	,000	00
273	To the Kingston, Napanee and Western Railway Company, for 20 miles of their railway, being extensions or branches in the counties of Peterborough, Hastings, Addington, Frontenac or Leeds towards iron deposits, a subsidy not exceeding \$3,200	210	,000	
274 .	per mile, payable in instalments regulated by the length of each said extensions, additions or branches, the subsidy not exceeding in the whole	64	,000	00
275.	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	4 8	,000	00
276.	Quebec 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
277.	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
278.	for 22 miles of their railway from a point on the Canadian Pacific Railway to Eganville, in lieu of the subsidy granted by the Act 51 Victoria, chapter 3, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	70	,400	00

35 miles of their railway from Mattawa to the Long Sault, in lieu of the subsidies granted by the Acts 52 Victoria, chapter

3, and 53 Victoria, chapter 2, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	\$ 112,000 0	00
chapter 2, a subsidy not exceeding \$1,800 per mile, in addition to the subsidy already granted, and not exceeding in the whole. 280. To the Tilsonburg, Lake Erie and Pacific Railway Company, for 16 miles of their railway from Port Burwell to Tilsonburg, a subsidy not exceeding \$3,200 per mile, nor exceeding in the	21,600 0	
whole		
nor exceeding in the whole	19,200 0	
ing \$15,000,—nor exceeding in the whole	63,000 (
whole	99,200 0	
285. To the Bracebridge and Baysville Railway Company, for 15 miles of their railway from Bracebridge toward Baysville, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	25,600 0 48,000 0	
286. To the Nipissing and James' Bay Railway Company, for 25 miles of their railway from, at or near North Bay station on the Canadian Pacific Railway towards James' Bay, a subsidy not		
exceeding \$3,200 per mile, nor exceeding in the whole 287. For a railway from a point on the Intercolonial Railway between Ste. Flavie and Little Métis station to Matane, for 50 miles of such railway, a subsidy not exceeding \$3,200 per mile, nor	80,000 0	
exceeding in the whole	160,000 0)0
exceeding \$3,200 per mile, nor exceeding in the whole	172,400 0	00
exceeding \$3,200 per mile, nor exceeding in the whole	38,400 (
not exceeding \$3,200 per mile, nor exceeding in the whole 205	57,600 (00

291. To the Port Arthur, Duluth and Western Railway Company, the balance remaining unpaid of the subsidy granted by the Act 51 Victoria, chapter 3, not exceeding, with the amount already paid, \$3,200 per mile, nor exceeding in the whole.......

\$114,125 00

292. To the Drummond County Railway Company for $4\frac{6}{10}$ miles of their railway from Bull's Wharf, on the St. Lawrence River, near Nicolet, to Ste. Rosalie Junction, an excess of distance by the constructed line over the subsidies heretofore voted for a railway between the said points, \$3,200 per mile, not exceeding in the whole......

14,720 00

293. To the St. Lawrence and Adirondack Railway Company, for $5\frac{4}{100}$ miles of their railway, from Huntingdon towards the International boundary, which, with the distance between Valleyfield and Huntingdon, $12\frac{58}{100}$ miles, makes up the distance of 18 miles named in the 53 Vic., chap. 2, granting a subsidy to this Company, and for $2\frac{40}{100}$ miles from the east end of the 18 miles referred to the International boundary, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole.

25,024 00

"2. 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.

"3. 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.

"4. 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. ■

"5. 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, not-withstanding 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."

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., cap. 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 viā 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.

207

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).

9. 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., cap. 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

208

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's 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' westerly a distance of about sixty miles, to a point on the proposed branch 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-sever, 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 incumbrance 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 Vic., ch. 4, authorizing, in error, the grant of land to the North-Western Coal and Navigation Company, for 50 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 fifty-second Victoria, chapter four, 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 fifty-third Victoria, chapter four, 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."

CANALS REVENUE

CONTENTS.

GENERA	L REPORT OF CANALS REVENUE	Page.
No. of Statement		Page.
1 5 2 3 4 6	CANALS Revenue, collection of—in Account with Revenue. do do Expenditure HYDRAULIC Rents, &c. MINOR Public Works. FINES and Damages. REFUNDS.	2 10 6 7 8 12
	STATISTICS (APPENDIX A).	
25 (A) 22½	QUANTITY of each article transported during two years ended 30th June, 1892, alphabetically arranged COMPARATIVE STATEMENT of Grand Total Freight passed through the undermentioned Canals during the Seasons of Navigation, 1890 and 1891, with the amount of Tolls	78
24	collected on the same, including Tolls on Vessels and Passengers	140 141
24 26 27	STATEMENT showing the Number of Classified Tonnage of all kinds of Vessels passed through the Canals during the Season of Navigation of 1891 TARIFF HYDRAULIC RENTS —Summary Statement of Lessees' Accounts	145 148 162
REPORT	OF H. B. WITTON, Inspector of Canals	178

STATISTICS (APPENDIX A)—Continued.

-sgivaN to no n, 1981,	-7	phabetically. Alphak	Way Traffic arranged Alphabetically.	arranged in Classes.	red in ses.	Traffic under various heads.	ffic zarious ds.	accrued each Month each Cana	on .	the Canals Number, To nage and Nationality	of.	rtv. Passe	of abood.
eses oit	Fiscal Year ender 30th June, 1892 Season of Navigation, 1891.	Fiscal Year ended 30th June, 1892.	Season of Waviga- 1881, noit	Fiscal Year ended 30th June, 1892.	Season of Naviga- 1981, noit	Fiscal Year ended 30th June, 1892.	Season of Maviga- tion, 1891.	Fiscal Year ended 30th June. 1892.	Season of Maviga- tion, 1891.	Fiscal Year ended 30th June, 1892.	Season of Naviga- tion, 1891.	Comparative Statemer movement of Prope and Vessels for for 30th June, 1892.	Comparative Statemen Surface of Vessels and years ended 30th Ju
Page.	!	Page.	Page.	Page.	Page.	Page.	Page.	Page.			Page.	Page.	Page.
88	98 	*	8	92	122	62	128	9 8	134	2	136	74	92
22	32 38	8	102	3 8	122	62	128	38	134	5	136	74	92
106	:	: : :	:	52	123	83	129	8 8	135	12	137	22	72
110			:	98	122	- 62	128	 -	134	17	137	74	92
113	:	:		22	123	88	129	89	135	Ľ	137	7.5	22
116	:		:	22	123	8	129	 98	135	12	137	:	:
117		:	:	57	123	89	129	88	135	22	138	:	:
120			:	22	133	8	123	3 8	135	7.5	138	92 .	. 22
Pa S S S S S S S S S S S S S S S S S S S		Page. 20	Page. Page. 30 × 86	Page. Page. Page. 30 . 86 . 24 . 32 . 98 . 36	Page. Page. Page. Page. 30 \ 86 \ 24 \ 90 \ 32 \ 98 \ 36 \ 102	Page. Page. Page. Page. Page. 20 86 24 90 56 32 98 36 102 56 57 57 57 60 56 57 61 57 57 62 56 57 63 56 57 64 57 57 65 56 57 67 57 57 68 57 57 68 57 57 68 56 57 68 56 57	Page. Page. <th< th=""><th>Page. Page. <th< th=""><th>Page. Page. <th< th=""><th>Page. Page. <th< th=""><th>Page. Page. <th< th=""><th>Page. Page. <th< th=""><th>Page. Page. <th< th=""></th<></th></th<></th></th<></th></th<></th></th<></th></th<></th></th<>	Page. Page. <th< th=""><th>Page. Page. <th< th=""><th>Page. Page. <th< th=""><th>Page. Page. <th< th=""><th>Page. Page. <th< th=""><th>Page. Page. <th< th=""></th<></th></th<></th></th<></th></th<></th></th<></th></th<>	Page. Page. <th< th=""><th>Page. Page. <th< th=""><th>Page. Page. <th< th=""><th>Page. Page. <th< th=""><th>Page. Page. <th< th=""></th<></th></th<></th></th<></th></th<></th></th<>	Page. Page. <th< th=""><th>Page. Page. <th< th=""><th>Page. Page. <th< th=""><th>Page. Page. <th< th=""></th<></th></th<></th></th<></th></th<>	Page. Page. <th< th=""><th>Page. Page. <th< th=""><th>Page. Page. <th< th=""></th<></th></th<></th></th<>	Page. Page. <th< th=""><th>Page. Page. <th< th=""></th<></th></th<>	Page. Page. <th< th=""></th<>

iv

DEPARTMENT OF RAILWAYS AND CANALS, OFFICE OF CHIEF ENGINEER, OTTAWA, 20th December, 1892.

To the Secretary,

Department of Railways and Canals.

SIR,—I have the honour to submit the statement of Canals Revenue collected during the fiscal year ended 30th June, 1892, with the financial statements respecting the source whence the revenues were derived.

The following summary of revenue accrued shows a decrease of \$25,000, after deducting the refunds made under various Orders in Council modifying the tariff:—

•	1890-91.	• 1891-92.	Increase.	Decrease.
Canal tolls, &c. Hydraulic rents. Minor public works.	\$ 345,143 37,995 41	\$ 347,339 40,212 65	Per cent. 6 5 83 58 53	Per cent.
Total	383,179 25,511	387,616 54,948	1.15	
Net revenue	357,668	332,668		

The following is a comparative statement of the revenues accrued on the following divisions of the canals for the year 1891 and 1892, showing the increases or decreases as compared with the previous year:—

	1890-91	1891-92	Increase.	Decrease.
	8	8 '	Per cent.	Per cent.
Welland Canal St. Lawrence Canals Chambly Canal Ottawa Canals. Rideau Canal St. Peter's Canal Trent Valley Canal	188,586 79,919 20,187 47,149 6,153 1,707 731	194,581 85,054 19,338 38,565 6,083 2,320 637	3·15 6·42	4·2 18·2 1·13
Murray Canal Total LESS—Refunds Net revenue.	711 345,143 25,511 319,632	761 347,339 54,948 292,391	7:03	

The following statement will exhibit the increases and decreases upon the Welland Canal, and the classes of articles upon which they arose:—

	1			
	1890-91.	1891-92.	Increase.	Decrease.
	\$	*	Per cent.	Per cent.
Vessels	15,907	17,512	10.08	
Passengers	$354 \\ 20.157$	$\frac{430}{17,050}$	21 47	15.41
do animals	176	282		19 41
do agriculture	94,330	111,755		
Manufactures and merchandise	56,407	46,779		17
Total tolls	187,331	193,808		
Fines and damages	1,255	799		
Total	188,586	, 194,607		
LESS—Refunds	24,914	54,387		
Net revenue	163,672	140,220		

The increase in the amount of tolls refunded, as shown above, is due to the fact that no refunds of tolls on grain were made during the months of May and June, of the previous year in consequence of an Order in Council of the 18th of May, 1891, authorizing such refunds to be made at the close of navigation for that year, instead of during the season as heretofore, and such refunds are included in the amount for the present year.

The total quantity of freight transported on the several divisions of the canals and classified as under, is as follows:—

Canals.	Farm Stock.	Forest Produce of Wood.	Manu- factures.	Merchan- dise.	Agricultural Products.	Total.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Welland	82	109,710	20,739	245,653	568,569	944,753
St. Lawrence	924	118,439	57,527	341,833	476,328	995,051
Chambly	248	123,661	3,267	97,743	8,909	233,828
Ottawa	1,377	542,950	344	9,602	9,359	563,632
Rideau	26	73,588	2,980	20,883	4,574	102,051
St. Peter's		3,420		28,236	11,449	43,105
Murray	→ 64	4,530	669	4,347	2,908	12,518
Trent Valley		21,792	7	134	25	21,958

It will be seen by the following figures that the largest quantity of freight passed through the Welland Canal since 1867 was during the fiscal year of 1874, when the quantity was 1,540,081 tons.

The largest tonnage passed through the Welland Canal between the United States ports for the same period was during the fiscal year 1871, the quantity being 747,756 tons; the quantity for 1892 was 488,113 tons.

The following statement shows the total quantity of freight passed through the Welland Canal, and the quantity passed between United States ports during the fiscal years ended 30th June, 1867 to 1892, inclusive:—

Years.	Total quantity transported on the Welland Canal, Tons.	Quantity from United States ports to United States ports, Tons.
1867	933,260	458,386
1868		641,711
1869	• •	688,700
1870		747,756
1871	* *	772,567
1872		638,039
1873	. ,	634,913
1874	1,540,081	703,185
1875	1,142,853	595,217
1876	1,121,802	524,197
1877	1,126,429	482,878
1878	1,091,898	448,413
1879	918,924	361,304
1880	896,122	248,944
1881	798,809	196,285
1882	644,727	191,817
1883	861,634	337,619
1884	965,830	417,972
1885	839,521	416,825
1886	934,862	443,961
1887	838,587	387,109
1888	827,300	387,555
1889	938,254	464,415
1890	1,104,553	550,844
1891	959,502	563,856
1892	944,753	488,113

The statements of the quantity of grain transhipped at Ports Colborne and Kingston, and comparative statements of the movement of traffic on the different routes competing for the carrying trade from the west to the sea-board will be given in the supplementary report for the season of navigation.

I have the honour to be, sir, Your obedient servant,

COLLINGWOOD SCHREIBER,

Chief Engineer.

CANALS

FINANCIAL STATEMENTS

CANALS,

No. 1.—Collectors of Canal Tolls,

Dr.

(For details, see

Balances due by		CANAL R	EVENUE.		Total	Hydraulic Rents and Revenue	m-4-1
Collectors, &c., 1st July, 1891.	Tolls.	Wharfage and Storage.	Fines and Damages.	Other Receipts.	Canal Revenue accrued.	from Public Works, Vide Statements Nos. 3 and 4.	Total.
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ ets.	\$ cts.	\$ ets.	\$ cts
390 79 	141,745 14 50,410 74 430 77 3 99 618 89		20 00 35 82	177 69	141,765 14 50,446 56 430 77 3 99 796 58	135 48 556 11 615 55	142,291 41 51,002 67 1,164 70 3 99 1,701 23
11 03	552 34 46 58		538 88		1,091 22 46 58	5,043 26	6,134 48 57 61
612 85	193,808 45		594 70	177 69	194,580 84	7,162 40	202,356 09
95 70 1,071 22 10 17	1,285 20 23,361 39 757 14 2,249 12 26,082 20 11,869 46	24 90 4,618 43	5 00 5 00 116 10	1,495 65 13,149 26	1,320 20 23,361 39 762 14 3,774 67 43,965 99 11,869 46	3,206 50 805 00 698 00 19,128 30	4,622 40 25,237 61 1,460 14 3,784 84 63,094 29 12,052 70
1,360 33	65,604 51	4,643 33	161 10	14,644 91	85,053 85	23,837 80	110,251 98
309 89	7,705 41 10,853 75 690 78		13 00	75 30	7,793 71 10,853 75 690 78	70 00 150 00	8,173 60 11,003 75 739 51
358 62	19,249 94		13 00	75 30	19,338 24	220 00	19,916 8
322 47 27 09 135 42	19,631 01 17,246 74 115 78 1,553 42		10 00	. 8 00	19,631 01 17,256 74 123 78 1,553 42	5 00 20 00	19,631 01 17,584 23 170 85 1,688 84
484 98	38,546 95		10 00	8 00	38,564 95	25 00	39,074 9
• • • • • • • • • • • • • • • • • • • •	3,743 93 1,275 08 598 09	131 18	20 00	309 70	4,204 81 1,275 08 603 09	590 75 105 00 53 70	4,795 5 1,380 0 656 7
	5,617 10	131 18	20 00	314 70	6,082 98	749 45	6,832 4
115 08	2,317 03			3 28	2,320 31		2,435 3
46 07	637 01			.	637 01		683 0

1891-92.

in Account with Revenue.

Appendix A.)

Cr.

Appendix A.)				——————————————————————————————————————
		THE CREDIT OF ER-GENERAL.	Balances	
Collection Divisions.	On account of Canal Revenue.	On account of Hydraulic Rents and other Public Works.	due by Collectors, &c., 30th June, 1892.	Total.
Welland Canal.	\$ ets.	\$ cts.	\$ ets.	\$ ets
Port Colborne. Port Dalhousie Dunnville Port Maitland Port Robinson. St. Catharines Chippawa.	141,551 53 50,282 32 493 11 2 23 815 78 1,063 53 51 55	147 98 556 11 615 55 812 00 5,043 26	591 90 164 24 56 04 1 76 73 45 27 69 6 06	142,291 41 51,002 67 1,164 70 3 99 1,701 23 6,134 48 57 61
Totals	194,260 05	7,174 90	921 14	202,356 09
St. Lawrence Canals.				
Beauharnois Cornwall Cardinal Lachine Montreal Kingston Totals	1,340 73 22,810 71 667 54 3,752 50 43,965 99 12,011 23 84,548 70	3,206 50 805 00 698 00 19,128 30 23,837 80	75 17 1,621 90 94 60 32 34 41 47 1,865 48	4,622 40 25,237 61 1,460 14 3,784 84 63,094 29 12,052 70 110,251 98
Chambly Canals.	1			
Chambly St. John's St. Ours Totals	7,891 19 10,853 55 697 12 19,441 86	70 00 150 00 	212 41 0 20 42 39 255 00	8,173 60 11,003 75 739 51 19,916 86
· Ottawa Canals.				
Ottawa. Grenville Carillon. Ste. Anne's Lock.	128 29	5 00 20 00	248 12 22 58 172 92	19,631 01 17,584 21 170 87 1,688 84
Totals	38,606 31	25 00	443 62	39,074 93
Rideau Canal,				
Ottawa Kingston Mills Smith's Falls	1,275 08	590 75 105 00 53 70		4,795 56 1,380 <u>0</u> 8 656 79
	6,082 98	749 45		6,832 43
St. Peter's Canal	. 2,358 21		77 18	2,435 39
Murray Canal—Brighton	613 71		69 37	683 08

CANALS,

No. 1.—Collectors of Canal Tolla,

DR,

(For details, see

Balances due by		CANAL R	evenue.		Total	Hydraulic Rentsand Revenue	
Collectors, &c., 1st July, 1891.	Tolls.	Wharfage and Storage.	Fines and Damages.	Other Receipts.	Canal Revenue accrued.	from Public Works, Vide Statements Nos. 3 and 4.	Total.
\$ cts.	\$ cts.	\$ cts.	\$ ets.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
18 76 51 63 2 25 4 25 21 97 20 75 119 61 3,097 54	101 38 357 68 16 70 32 82 140 56 39 70 688 84 326,469 83	4,774 51	798 80	72 00 72 00 15,295 88	101 38 429 68 16 70 32 82 140 56 39 70 760 84 347,339 02	50 00 40 00 90 00 32,084 65	120 14 481 31 68 95 77 07 162 53 60 45 970 45
3,097 94	320,408 85	4,774 01	180 00	10,250 66	54,948 43	32,004 00	

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th September, 1892. 1891-92-Continued.

in Account with Revenue.

Appendix A.)

CR.

	DEPOSITED THE RECE					Balance due by			
Collection Divisions.	On account Canal Revenue.		Hyd	raul nts oth	ic er	Collectors 30th Ju 1892.	&c.,	Total.	
Trent Valley Canal.	\$ c	ts.		\$	cts.	8	ets.	8	cts.
Burleigh Bobcaygeon. Fenelon Falls Hastings Peterboro' Buckhorn	439 9 11 4 35 1 129 4	98 15 14 12		40	000	33	1 02 1 33 7 50 1 93 3 11 3 90	481 68 77 162	14 31 95 07 53 45
Totals	766 €	36		90	00	113	3 79	970	45
Grand Total		18	32	,097	15	3,74	5 58	382,521	21

B. H. TEAKLES, Chief Clerk, Canals Revenue.

HYDRAULIC AND OTHER RENTS.

:	·	cts. cts. 1193 62 602 50 602 50 921 00 819 93 456 84 456 84 210 00 210 00	3 41
CR.	Total.	8 8,1550 8,193 1,602 8,921 45,819 45,819 2,10 2,10 354	108,856 41
	Balance due 30th June, 1892.	\$ cts. 27,286 83 7,495 62 777 50 5,714 50 23,692 63 23,692 63 7,998 25 94 00	76,630 35
	Paid into hands of Collectors, vide Statement No. 1.	\$ cts. 7,097 46 698 00 805 00 3,206 50 19,127 30 7220 00 749 45 116 00	32,019 71
Accounts. 28.)	Abatement authorized.	86 Cts.	206 35
No. 2.—Summary Statement of Lessee' Accounts. (For details, see Appendix A, No. 28.)	Name of Work.	Welland Canal. Williamsburg Canal. Cornwall do Beauharnois do Chambly do Chambly do Sundry Canals.	
	Total.	\$ 34,550 64 34,550 64 8,193 62 1,602 50 8,591 93 45,819 93 47,677 70 210 00 354 18	108,856 41
	Accrued during the Year ended 30th June, 1892.	\$ cts. 7, 654 90 1, 624 90 1, 624 00 6, 558 90 22, 639 49 1,275 20 1,275 20	40,212 59
DR.	Balance due 1st July, 1891.	\$ cts. 26,895 74 7,169 62 807 50 2,363 00 23,180 44 311 84 7,472 50 89 00	68,643 82

B. H. TEAKLES, Chief Clerk, Canals Revenue.

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th September, 1892.

No. 3.-MINOR PUBLIC WORKS, 1891-92.

Balances due 1st July, 1891.	Accrued Year ended 30th June, 1892.	Total.	Works.	Deposited to the credit of the Receiver- General, vide State- ment No. 1.	Balances due 30th June, 1892.	Total.	
\$ ets.	\$ ets.	\$ cts.	Harbours.	\$ ets.	\$ cts.	\$ ct	ts.
	40 48	40 48	Port Colborne	40 48		40.48	8
	24 46	24 46	Port Dalhousie	24 46		24 46	6
	64 94	64 94		64 94		64 94	<u>-</u>

B. H. TEAKLES,

Chief Clerk, Canals Revenue.

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th September, 1892.

ticular in	Totals.	ه. نځې	594 70		
ng the par	Damages.	\$ cts. 21 95 75 36 19 94 *	242 54 252 54 25 66 25 66 26 66 27 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	22 75 6 00	35 00
ations, givi ne, 1892.	Fines.	% cts.	82 00 00	8888 88	70
«No. 4.—Statement of the Amount of Fines and Damages collected, for violation of the Canal Regulations, giving the particular in each case why the penalty was imposed, during the fiscal year ended 30th June, 1892.	Particulars.	Welland Canal. For excessive speed in harbour at Port Colborne. Damages to Bridge No. 8. do to Locks Nos. 1 and 2, St. Paul street bridge and Plants. Damages to Lock No. 9. do to Lock No. 9.	Damages to foot gates, Lock No. 19 do to Bridge No. 15 do to Lock No. 22 do to Lock No. 10 do to Lock No. 10 do to ferry float and bost at Port Robinson do done to railroad bridge at Thorold Total, Welland Canal.	For violation of Car For violation of a For ges to lower	For violation of section 16, Canal Regulations. For damages done to lock gates, No. 9, Beauharnois Canal. For allowing barge to run into lock gates, No. 24, without checking.
unt of Fines and Damage e why the penalty was in	Name of Owner or other person chargeable.	Hingston & Woods Captain Wigle Captain O. Patenaude Captain A. Lieth Hore excessive speed in horal moderation of the control	G. H. Kimball C. E. Little. R. Hagues W. Fitzgerald Jas. Ewart	H. Dobell & Co. Wade Wade D. Leroux C. Richard J. Malcolmson Montreal Transportation Co. B. St. Denis	G. Gohier
ATEMENT of the Amoench case	Name of Vessel.	Tug "Genevieve" Str. "Lakeside" do "Celtic" Stm. Barge "Ohio"	Str. "Pentagost"	Str. "Greetlands" do "Mixer" Bge. "Brodeur Demers" Schr. "B. Richard" Schr. "A. Addia" Bge. "Star" do do	May 10 Bge. "Bonaventure" lune 7 Str. "Magnus" do 17 Bge. "Duluth"
∞No. 4.—Sr	Date.	Sept. 13 Nov. 19 do 9! Alva do 9! 1892	: : : : : : : : : : : : : : : : : : :	Aug. 28 Sept. 19 Oct. 13 Nov. 5 do 24 do 30 1892.	May 10 June 7

. •											Ī	Д.,		
	161 10				13 00					20 00			10 00	798 80
18 35	82 10			4 00	4 00									
8 :	79 00		88	2 00	00 6		8	2 28	5 50 50 50 50 50 50 50 50 50 50 50 50 50 5	20 00		10 00	10 00	:
For violation of section b, Canal Regulations. For violating Canal Regulations, section 5 Damages by colliding with Wellington Bridge	Total, St. Lawrence Canals	Chambly Canal.	For refusing to obey lock master St. Ours Lock.	For injury to Langelier's Bridge, on Chambly Canal, near St. John's Damages to lock gate, No. 3.	Total, Chambly Canal	. Rideau Canal.	For violating Canal Regulations, section 38, by neglect- ing to report	For violating Canal Regulations, section 38, by neglecting to report.	For not reporting 15 tons salt, 13th July, 1891do	Total, Rideau Canal	Ottava Canal.	Incorrectly reporting quantity of timber	Total, Ottawa Canal	Total, fines and damages
J. Clermont.			Captain R. Graham. Captain J. L. Thatcher	Captain Gibbon Gill			R. O'Neil	W. H. Easton	George A. Harris			W. R. Mackan	•	
do "Gertie"			Aug. 31 Bge. "H. G. Underwood " do 31 do "W. Bennett"	Nov. 10 Bge. "R. W. Cooper".	•		Z Aug. 31 Bge. "Young"	:	Str. "Harry Bate"	(AGE				
do op op	•	1891.	Aug. 31	Nov. 10		1891.	Z Aug. 31	INV S Oct. 19	DAM do 30	(AGE	1893.	Aug. 12 Raft	-	

B. H. TEAKLES, Chief Clerk, Canals Revenue.

DEPARTMENT OF BAILWAYS AND CANALS, OTTAWA, 30th September, 1892.

CANALS,

No. 5.—Collectors of Canal Tolls,

Dr.

(For details, see

cts. 00 00 00	\$ cts.	\$ ets.	
00 00			Welland Canal.
40 00 00 		3,493 31 2,209 52 785 35 600 00 752 79 200 00 130 00	Port Colborne Port Dalhousie Dunnville Port Maitland Port Robinson St. Catharines Chippawa
40		8,170 97	Total
00 00 00 16		1,459 61 1,225 50 2,011 24 1,191 15 2,192 78 8,865 04	St. Lawrence Canals. Beauharnois. Cardinal Cornwall. Kingston Lachine. Montreal
16		16,945 32	Total
25 25 50		1,604 95 1,702 06 622 74 3,927 75	Chambly Canal. Chambly St. John's St. Ours Total
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Ottawa Canals.
00 00 00		849 76 1,183 80 1,028 79	Grenville
00		3,062 35	Total
94		367 97 2,423 27 336 45 3,127 69	-
		240 51 60 12 2,653 85 885 44	Murray Canal Trent Canal. Inspector of Canals Printing and Stationery.
•	9 66	0 00	240 51 60 12 2,653 85 885 44 2,921 85

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th September, 1892. 1891-92.

in Account with Expenditure.

Appendix B.)

CR.

Collectors -				IE DEPARTMENT.		Total.
1890.	Salaries.	Special Assistance.	Rent.	Travelling Expenses.	Sundries.	
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ ets.	\$ cts.	\$ cts
	3,250 00		192 00		51 31	3,493 31
	1,900 00			142 00	167 52 35 35	2,209 52 785 35
• • • • • • • • • • •	750 00 500 00		100 00		30 30	600 00
	720 00			2 40	30 39	752 79
	200 00					200 0
•••••	100 00		25 00		5 00	130 00
•••••	7,420 00		317 00	144 40	289 57	8,170 97
					ļ	
• • • • • • • • • • • • • • • • • • • •	1,350 00				109 61	1,459 6
•••••	1,150 00	207 00	50 00	9 00	16 50 84 24	1,225 5 2,011 2
•••••••	1,600 00 1,100 00	327 00	45 00		46 15	1,191 1
	1,700 00		. 360 00	31 90	100 88	2,192 7
	7,558 27		5 2 5 00		781 77	8,865 0
	14,458 27	327 00	980 00	40 90	1,139 15	16,945 3
	1,500 00			58 50	46 45	1,604 9
•••	1,600 00			36 30	102 06	1,702 0
	600 00				22 74	622 7
	3,700 00			58 50	171 25	3,929 7
	800 00	l			49 76	849 7
	1,000 00		50 00		133 80	1,183 8
	966 66				62 13	1,028 7
	2,766 66		50 00		245 69	3,062 3
	299 97	10 00		25 00	33 00	367 9
	2,200 00	10 00		20 00	223 27	2,423 2
	300 00			8 70	27 75	336 4
	2,799 97	10 00		33 70	284 02	3,127 6
	33 32	155 55	1	25 02	7 47	221 3
•••••	200 00	95 00			40 51	240 5 60 1
••••	2 000 00	25 00		578 58	35 12 75 27	2,653 8
	2,000 00			310 30	885 44	885 4
			1		2,921 85	2,921 8
	33,378 22	517 55	1,347 00	881 10	6,095 34	42,219 2

B. H. TEAKLES, Chief Clerk, Canals Revenue.

No. 6.—REFUNDS, 1891-92.

Canal.	To whom paid.	Date.	ОЖе.	Refun	Refunds of Tolls on	Under what Authority refunded.	Amount.	Total.
		1891.					s cts.	e cts.
Welland	Montreal Transportation Co Dec.	Dec. —	Port Colborne	Grain		Refunded under Revised Statutes,	31 130 66	
op	I. Forward	•				chap. 29, sec. 8 do	33,891 10 10,532 70 745 92	
: : မော် မော်	do do do A. E. D. Mackay's Sons	: : 음운-					1,378 08	
		. : 음.음.	 op op	op op			119 16	
op		::: ।। इ.इ	: : 9-9	90 00		: :	216 00	
	G. E. Jacques & Co	l					1,407 24 106 92	
ор ф	J. B. Fairgrieves &	::: 	 				578 88	
do	K. & M. Forwarding Co John Malcolmson	: : දිදි	ер Ор			eg op op	216 9 4 179 28	
•		1892.						
-	%	April 30		- ဝ ဝ		op op	120 42 3,123 72	
366	op op op	ф %	888	응용	: :	ор ор	410 76 508 04	
	O. A. Thorp & Co. Thomas Myles & Sons.	ф ф ф	ဗို ဗိ	දිදි			52 92 119 26	
		1891.						
ор	Beemer & Sullivan	July 4	op	Sand for canal	Sand for canal construction		102 48	
		1892.						
do ob	H. A. Young	Mar. 24	op	Overpaid tolls on flour	on flour		15 15	
				Total refun	Total refunds, Welland Canal			54,387 73

	19 38 2 66 17 61	77 05 10 00 80 07	206 77 144 00 183 03	26 90		54,948 43
-			114 00			
	Unused portion of pass, 1 section, St. Lawrence Overpaid tolls, 1 sec., St. Lawrence do on barge "Ontario," 1 sec., St. Lawrence	Montreal Transportation Co. Jan. 21. Montreal Cement for canal construction D. Leroux. Mar. 24. do Gornwall Timber for canal construction	Total refunds, St. Lawrence Canals	Total refund, Ottawa Canal Mar. 24 Smith's Falls Overpaid tolls on chemical ore.	Total refund, Rideau Canal	Total refunds
	Kingston	Montreal		Smith's Falls		
1891.	Co. Sept. 7 Kingston do 7 Cornwall Oct. 19 do 1892.	Jan. 21 Mar. 24 June 30	Oct. —	. Mar. 24		
	do Prosper Laplante Oct. 19 do Issue do Prosper Laplante Oct. 19	Montreal Transportation Co D. Leroux Wm. Davis & Son	tawa J. R. Ward. Oct. — . Carillon do Poupore & Fraser June 30 Grenville	Rideau J. P. Tett & Bros		
	ct. Lawrence do	ං : : : . : : : වුණු	Ottawado	Ridean	p.m.	FUNDA

DEPARTMENT OF BAILWATS AND CANALS,
OTTAWA, 30th Soptember, 1892.

TION.	
APITUL/	7"
.92—REC	O 0
1891-	OTION.
6.—REFUNDS, 1891–92—RECAPITULATION.	TAMA
No.	

Total.	\$ cts.	72 908	327 03	26 90 54,948 43
Amount.	\$ cts. 33,958 08 15,758 10 1,378 08 1,378 08 119 16 119 16 119 16 119 16 119 16 119 16 119 16 119 16 119 16 119 26 119 26 119 26 119 26	19 38 2 66 11 61 10 60 8 90 90	183 03	
Under what Authority refunded.	Refunded under R. S. cap. 29, sec. 8 do do do do do do do do do do do do do			H. TEAKLES,
Refund of Tolls on	Grain do do do do do do do do do do do do do d	Unused portion of pass, 1 sec. St. Lawrence. Cement for canal construction Overpaid tolls, 1 sec. St. Lawrence Overpaid tolls, 1 sec. St. Lawrence Refund of fine. Timber for canal construction. Total refunds, St. Lawrence Canals.	Overpaid tolls on saw-logs	Total refunds, Rideau Canal
Óffice.			Carillon	ILWAYS AND CANALS,
To whom paid.	Montreal Transportation Co. Port Colborne. K. & M. Forwarding Co. do Go. For D. Mackay's Sons. do Go. Fred Elliott. do Go. A. M. Robertson. do Go. B. Miller. do Go. B. Jacques & Co. do Go. A. Thorp & Co. do Go. A. Thorp & Co. do Go. Go. A. Thorp & Co. do Go. Go. Beemer & Sonlivan. do Go. Beemer & Sonlivan. do Go. H. A. Young.	Lawrence Montreal Transportation Co. Kingston do do Capt. D. W. Salvail. do Prosper Laplante. do D. Leroux. do Wm. Davis & Son.	J. R. Ward. Poupore & Fraser	RA RA
Canal.	Welland	St. LawrenceI	Ottawa	DEPARTMENT OF

CANAL STATISTICS

APPENDIX A-CANALS.

No. 7.—General Statement showing the Quantity of each Article transported on the Welland Canal, and the Amount of Revenue collected, during the Fiscal Year ended 30th June, 1892.

ARTICLES.	Fr Cans Cans Po	Fron Canadian to Canadian Ports.	From Canadian to United States Ports.	om dian States ts.	From United States to United States Ports.	States States States ts.	From United States to Canadian Ports.	om States o dian	Tons.		Total Tons.	Amount of Tolls, Up.	Amount of Tolls,	Total Amount of Tolls.
	Up.	Домп.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.				
A Apples		1,101	91		: 19			88 :	110	36		s cts.	\$ cts. 7 20 27 55	\$ cts. 7 20 32 18
merated, vegetables.		6	:	400		42	:	<u>-63</u>		453	453	:	29 00	90 83
or merated, animal Agricultural implements Barley Bricks	225					8,108			225	8,108	8,108 225	0 15	1,621 60	0 15 1,621 60 31 01
Brimstone.	: . oc		: :4		: 9 6						: : 	. 6 . 6 . 6 		96 90
r Clay, lime and sand s Coal, Corn		20			147,850		14,083	18,491	161,933	$\frac{70}{19,142}$	181,075 171,892	32,386	3,828 40 34,378 40	5 25 36,215 00 34,378 40
Cotton, raw		-		: :			: :			- : :			70 O	70 07 0 0 07
Dye wood and dye stuffs.					82	H			304	i r	305	40.36	0.20	40 56
Flax and hemp Flour Furniture		4,151	.00		1	8,811		2,048	2 10	15,010	15,012	0 30 1 50	2,275 63	2,275 93 2 72
Glass, all kinds Hay, pressed	180	22: :2	16			-		T				. 5 10 15 00	0 40	19 20
Hogs. Horses Hides and skins, horns and	: : :18	16	en .		. 6N	:01	: :	· erc	3 8	21	81.		1 36	
hoofs. Ice Iron, railway.	127		350		2				350		350	10 80 11 50 19 05		10 85 17 50 19 05

	Sessional	Papers	(No.	9A.)	
--	-----------	--------	------	------	--

6 V	lete	ori	а.					S	es	si	on	al	P	ap	er	3	(N	0.	94	A .)						A.	189
172 02		5,889 30				10,269 20		128 80			7 35 50 60			. 25. 28.		51 6 51 40	98.9		8 8 8 8 8		2 8 88 88	43.319.99		215 10	6,899 81	22 10	1 75
110 90	116 35			: 1	96 -	10,269 20		128 80	14.60	30 FT		13,718 20		75.	: -	51.40			4.4 8.8			43 282 24		214 20	348 72	3 98	382 23
61 12	:		561	26.85	O 4	'	7 45		:	330	t-		. 30			70 21			1 38		38	37. 75		06.0	6,551 09	18 12	49.26
66	2,327	29,447	3.745	179	₹ 5	51,346	32	764	:	283	649	99,266	1.804	3,774	4 6	25.25 25.25	49	8,420	23.3		258	219.797		1,077	46,653	109	9,321
. 269	2,327	29,447	8	: :8	**	51,346	-	192	:	Q	00	68,566	1 689	3,774	:	257			នុត្ត	:	-	217 717		1,071	2,053	:22	7,656
424	:		:	179	N 16	:	쬬		:	:83	64		139	:	9 8	202 :	49	8,420	878 10	100	328	010 6	; ;	9	44,600	: 88	1,665
£64	25° ∞	120	To :	: :8	₹		:	: :	:	: :	:	68,566	:	3,523			:		49			143 986	:		245	: -	
: 6	:						:		:	: :	:				:	: :				:		:			:		
01	1,773	29,428	3		18	51,210	-	: :	ot .	e, :		3 :	767	:	:	255	:		25 149 149	:0	0	96 951		1,071	1,454	&	
194	:		3.745	179	:	: :	47		:		49		191	1 :	:		49	8,420	8,11	100	122	:		9	43,123		
			:		:			240	:		:				:	: :			:			1 070	· ·		:	: :	
168				: :	N G	`	7		:	. S3 :	:		-		7		:		ж ©	:		:			308	÷₹:	705
559	: :	:		: :	:	136	:	524	:			: :	1 188	251	:		:			:		46.410			354		7,656
22				: :	: %	3	<u>.c.</u>		:	: :	:		:			202			282	:		9.010	f :		1,169	: :	: :96 : :6
do pig do all other do ore.	Kryolite, chemical ore and other ore, except iron	Meal, all kinds.	Meats, other than jork Marble		Molasses	Oats	Oil, in barrels	Oil cake		Fork Paint	Pitch and tar	Kags. Rve	Rosin.	Stone intended for cutting	do wrongntdo not suitable for cutting,	unwrought			Sugar Spirits, beer, &c.	Tobacco, raw	Tin.	Turpentine	White lead		All other goods and merchan- dise not enumerated	Barrels, empty	Boat knees Floats Firewood, in vessels.

No. 7.—General Statement showing the Quantity of each Article transported, &c.—Concluded.

				0	0	•	•			•				
ARTICLES.	From Canadian . to Canadian Ports.	rom nadian to nadian orts.	From Canadian to United States	dian dian States ts.	From United States to United States Ports.	om States States ts.	From United States to Canadian Ports.	m States lian	Tons.	si	Total Tons.	Amount of Tolls, Up.	Amount of Tolls, Down.	Total Amount of Tolls.
	Up.	Down.	Up.	Down.	Up.	Down	Up.	Down.	Up.	Down.				
											1	e cts.	e cts.	e cts.
		1,955	1,641	22,005		41,154		3,367	1,641	68,481	70,122	295 37	12,241 58	12,536 95
Masts, spars and telegraph poles, in rafts. Railway ties, in vessels		127		114	: :	::				241	241	: :	13 78	13 78
	129	1,875		1,186				: : :8	129	3,061 155 96			122 76 12 40 17 60	128 64 12 40 17 60
		13						132		19	19			7 81
	319	3,696						22,056	319	25,752	25,752	13 89	3,859 56	3,859 56 15 58
Traverses Woodenware and wood partly manufactured	: 67				13				15		15	9		9 9
Total freight paying tolls	5,752	70,399	3,461	25,015	204,669	283,444	14,118	323,320	228,000	702,178	930,178	41,575 40	41,575 40 134,290 81	175,866 21
Free Articles having paid Full Tolls on the St. Lavrence Canals.						•								
Ashes, pot and pearl Agricultural products, &c.,	:	:	# 6	:					ਲ 8		ã €			
vegetatore			107											

BAILWAYS AND CANALS.

CANAL STATISTICS.

Chief Clerk, Canals Revenue.

8

50,631

Total revenue, exclusive of hydraulic rents.

OTTAWA, 30th September, 1872. DEPARTMENT OF RAILWAYS AND CANALS,

The second secon			٥	6					
A RTICLES.	From Canadian to Canadian Doctor	From Canadian to United States	From United States to United States	From United States to Canadian	Tons.	Total	Amount	Amount of Tolls.	Total
	Up. Down.	Up. Down.	Up. Down.	T _p	Up. Down.	· STOT	Tolls, Up.	Down.	Tolls.
Ashes, pot and pearl			19	88	19	36	\$ cts.	\$ cts.	20 cts
Agricultural products not en- umerated, vegetable. Agricultural products not en-	:		:	42 2	:	44		08 8	98 8
M. Agricultural implements. M. Barley. G. Bricks. G. Bricks.	204		8,108	- 90	204 8,108	8,108 204	0 15	1,621 60	0 15 1,621 60 30 60
Brinstone. Coment and water lime					 	: 35 81 : :	: :e: 4 :8:8		9.90
Cool Style			147,850 651 111,636	1 14,083 18,491 6 60,256	161,933 19,142	181,075	32,386 60	3,828 40 34,378 40	36,215 00 34,378 40
Cotton, raw. Crockery and earthenware. Dye wood and dye stuffs. Fish.			234		788		35 10	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33.
Flax and hemp Flour. Furniture.		: A C	8,811	1 2,048 5 1	2 10,859 10 6	10,	0 8 8 8 8	2,171 80	2,172 10
Gypsum Glass, all kinds. Hay, pressed	18	16		1	34 2 21	36	5 10	0 40	5 50 19 20
Horses Hides and skins horns and			. 63	2	2 2	10	0.75	1 80	1 75
hoofs. Ice. Iron, railway. do pig.	127	350	23		350 127	350 127 127	10 95 17 50 19 05	: : &	10 95 11 50 19 65 80 65

110 60 166 10	116 35 116 3 40 3 5,889 20 5,889 16 00 16	7 60 10,242 00 10,99	104 80 104	60 14 3 7 00 12 20 13,713	336 40 354 70 754 80 754 80 0 30	51 40 51	1,263 00 4 00 16 90 43 80 45 15	3 40 18 70 38 25	42,902 20 42,972 20	338	
923 55 50		3,745 561 75 179 26 85 40 0 30 27 4 05 51,210		73 3 30 22 3 30 49 7 35 68,566	3,774 18 30 3,774 0 30		8,420 1,263 00 106 12 90 228 1 35	119 15 30 255 38 25	,511	1,077 0 90 45,198 6,525 60	
553	2,327 2, 17 29,446 29, 80		524	73 60 68,566	3,774 3,	257	20 8,	17	214,511 214,	1,071 1, 1,694 45,	
370	82 82 12 83 12	3,745 20 179 27	2	99	523 2	57	8,420 86 49	9 102		6 235 43,504	
	1G			992'89	. : es :				142,8	61	<u>:</u>
10	1,773 29,428 29	18 51,210	-	8	494	255	200	.00	26,951	3 1,454	:
194		3,745	# : :	34	<u>121</u>		8,420 78 1	102		43,123	
168		845	89								:
8 543			524		1,188		5		44,700	73	
	ore and iron				ag					: : : :	
do all other	olite, chemical are ore, except and lard oil. all kinds	Marila Manila Molasses Nails	Oil, in barrels Oil cake	Fordaves Point Pritch and tar Rags Rye	Kosin Salt Ssolt Stone intended for cutting do wrought do not suitable for cutting,	unwrought Seeds, all kinds	Sods ash Steel Sugar Spirits, beer, &c	Tobacco, raw Tallow Tin		W niting Wool All other goods and merchandise not enumerated.	Bark

				-							_	_		
	From Canadian to	rom nadian to	From Canadian to	lian Tian	From United States to	States	From United States to	States	Tons.	 8i	Total	Amount	Amount	Total
ARTICLES.	Canadian Ports.	dian ts.	United States Ports.	States ts.	Onited St.	States ts.	Ports.	15 E			Tons.	of Tolls, Up.	of Tolls, Down.	Amount of Tolls.
:	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.				
												s cts.	es GES	e cts.
Hop poles Lumber, sawn, in vessels		096	1,641	21,955	::	41,154	: :	3,367	1,641	67,436	220,69	295 37	12,128 53	12,423 90
do do in rafts Masts, spars and telegraph	:	:	:	:										
Masts, spars and telegraph		:	:											
Railway ties, in vessels														
					<u> </u>		:	:						
raves and neadings, parrel do pipe								96		8.5	8.5		17 60	17 60
do West India						: :		701		701			3	
Shingles. Split posts and fence rails. in	_ :	;	:		:	:	:	:	:	: :			:	
vesselsSplit rosts and fence rails in		:	:		:	:	:	:	:	:	:			
rafts	:	000	:	:	:	:	:	950 66	:	95,716	25.716		3,856 18	3.856 18
Timber, square, in vessels do do in rafts	: :	, 000, 6	: :	: :				: :			:			:
Traverses. Woodenware and wood partly manufactured.	. 63		:	: :	13				15		15	00 9		9
Total freight paying tolls.	553	51,873	2,617	21,955	204,669	283,444	14,083	322,884	221,922	680,156	902,078	41,407 84	133,032 92	174,440 76
Free Articles having paid full Tolls on the St. Lawrence Canals.	D 9)	*				•			•					
d pearl		:	3	- : : :	:	:	:	:	33	:	31			:
Agricultural products not enumerated, vegetable Bricks			828			: :		: :	315	: :	315			

16,750 02 134 05	8,301 40	8,448 62 63 20	\$2,092 40					vessels passengers free goods	s on vesse passe free	Total tolls on vessels do passengers do free goods.	,			
			916,390	680,156	236,234	322,884	14,083	283,444	204,669	21,955	11,353	51,873	6,129	Grand total, freight
:		:	544		544				:		5 4 4			naving paid colls on the Rideau Canal—free
													•	olite, chemical ore, &c.,
		: :	3		2			:	:	:	486	:	28	Merchandise, &c
-		::	C)	-	67	:	:	:	:	:	C3			Wool
:	: :::		92		28			•					2	Whiting
			့		င္ ရ		:	:	:	:	. 1	:	_	10 Joseph
:		:	3	:	(S)	:		:	:::::::::::::::::::::::::::::::::::::::	:	193°	:	£`	ts, beer, &c
:	:	:	8	:	88	:	:	•			524		5	Sugar
	:	:::::::::::::::::::::::::::::::::::::::	9		9						9		} :	Copies Committee
			, 8	: :	324						988 •		7 95 7 95 7 95 7 95	Solt Sola och
	:	:	12 6	<u>:</u>	17 6	:		-	:::::::::::::::::::::::::::::::::::::::		:	•	= E	Pitch and tar
		: :	3 8 8	:	8			-	:	:	8	:	∞	Paint.
:::::::::::::::::::::::::::::::::::::::		:	4.	:	4	:	:	:			6.		83	in barrels.
			570		570						323		247	Lard and lard off
			16	:	16	:	 : :	:			200	:	243	do all other
:	:	:	92		200	:		- - -	: :		92		}	pig.
			3,028		3.028						3		3 0.08	Crisss, all kinds
			3.		31	:	:	<u>.</u> :	:	:::::::::::::::::::::::::::::::::::::::		:	-	Furniture
		:	- 1	:	55-	 : :		-	:	:	3	:	-	Fish
			667	-										

CANAL STATISTICS.

B. H. TEAKLIES, Chief Clerk, Canals Revenue.

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th September, 1892.

APPENDIX A-Continued-CANALS.

No. 9.—Statement showing the Quantity of each Article of Way Freight transported on the Welland Canal, and the Amount of Tolls collected during the Fiscal Year ended 30th June, 1892.

A PATOT BG	Can	From anadian to anadian	From Canadian to United States		From United St.	From United States United States		From United States to Canadian	Tons.		Total	Amount	Amount	Total Amount
	Up.	Forts. Down.	Up.		Up.	Down.		Down.	Up.	Down.	8 0 D B	Tolls, Up.	Tolls, Up. Tolls, Down.	Tolls.
							ŀ					e cts.	cts	es cts.
A Apples.		1,101	91	::	: :			: :	91	1,101	1,192	1 78	27 55	29 33
merated, vegetable	:	6	:	400	:			:	:	409	409		20 20	20 S
Agricultural implements					: :		: :	: :		: :				
d Bricks.	5	: :					: : : : :		21		21	0.41		0 41
V Brinstone V Gement and water line			13							70	: : : : : : : : : : : : : : : : : : :	1 97	5 25	5 1 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Corn												: :		
Cattle Cotton, raw.		- :							::	- :	-		80 0 	20 0
Crockery and earthenware Dye wood and dye stuffs Fish	: : %		:::8 :::						22		0.2	5.26		5.26
Flax and hemp.,	: :	4,151								4,151	4,151		103 83 0 02	103 83
Gypsum Glass, all kinds.		1 : .												
Hogs.									· · · · · · · · · · · · · · · · · · ·	16		9	96 V	77
Hides and skins, horns and	8	9			:		<u>. </u>		3	3	•	2	3	-
hoofs					: :									
				-	_									-

46 48 48 6 10 0 10 46 136 48 0 90 27 20 5 136 136 0 10 24 00 24 00 6 240 240 24 00 24 00 7 240 24 00 24 00 8 287 5 40 0 25 0 27 8 2 97 5 40 0 25 0 27 8 3 201 5 216 37 75 380 04 417 79 498 2 010 3 206 5 216 37 75 380 04 417 79 10 1,096 356 1,465 25 49 9 92 35 41 1,665 7,656 9,321 49 26 382 23 431 49				16
48 48 0 90 27 20 5 240 240 27 20 203 2340 2340 24 24 204 2340 24 24 24 205 2340 24 24 24 206 2340 24 24 24 207 208 12 67 12 287 287 5 40 0 25 0 2,010 3,206 5,216 37 75 380 04 1,096 356 1,455 25 49 99 25 1,665 7,656 9,321 49 24 417 1,665 7,656 382 23				
48 136 48 0 90 27 20 5 240 240 240 24 24 203 220 24 24 24 203 204 24 24 205 207 24 24 207 24 24 24 208 24 24 24 209 26 26 26 200 26 26 6 201 25 26 6 201 35 1,455 25 49 201 3,206 46 36 36 36 1,665 7,656 9,321 49 382 23				
48 136 48 0 90 27 20 27 5 240 240 24 27 20 203 234 240 24 24 24 204 24 24 24 24 24 205 206 20 24 24 24 24 207 208 12 67 67 67 67 208 287 5 40 6 60 60 60 2,010 3,206 5,216 37 75 380 04 417 1,096 356 1,455 25 49 99 25 431 1,665 7,656 9,321 49 26 382 23				
240		•	:::	
240 240 24 00 24 00 24 203 203 12 67 12 287 287 5 40 0 25 0 3 3 0 06 0 25 0 2,010 3,206 5,216 37 75 380 04 417 1,096 353 1,455 25 49 9 92 35 1,665 7,656 9,321 49 26 382 23 431		1.		136
287 287 287 287 287 287 2 887 2 80 6 7 6 40 2 90 6 8 9 9 9 9 9 9 9 1 75 1 965 7 656 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9			240	240
203 287 293 12 67 12 287 287 5 40 0 25 0 25 0 0 25 0 0 25 0 0 2 2 0 1,096 359 1,455 25 49 9 9 9 2 35 1,665 7,656 9,321 49 26 382 23 431				
203				
287 287 5 40 0 25 0 25 0 0 2 0 2 0 0 0 0 0 0 0 0 0				
203 203 12 67 12 287 287 5 40 0 25 0 3 3 0 06 0 25 0 2,010 3,206 5,216 37 75 380 04 417 1,096 355 1,455 25 49 9 9 2 35 1,665 7,656 9,321 49 26 382 23 431				
287 287 5 40 0 25 0 5 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0				
2,010 3,206 5,216 37 75 380 04 417 1,665 7,656 9,321 49 26 382 23 431		•		
287 3 387 5 40 0 25 0 3 3 0 02 0 25 0 2,010 3,206 5,216 37 75 380 04 417 1,096 359 1,455 25 49 9 92 35 1,665 7,656 9,321 49 26 382 23 431				
287 287 5 40 0 25 0 3 3 0 02 0 02 0 2,010 3,206 5,216 37 75 380 04 417 1,096 359 1,455 25 49 9 92 35 1,665 7,656 9,321 49 26 382 23 431	:			
3 3 0 06 0 2,010 3,206 5,216 37 75 380 04 417 1,096 359 1,455 25 49 9 92 35 1,665 7,656 9,321 49 26 382 23				
2,010 3,206 5,216 37.75 380 04 417 1,096 354 1,455 25 49 9 92 35 1,665 7,656 9,321 49 26 382 23 431		÷÷		
1,096 354 1,455 25 49 9 92 35 1,665 46 40 40 40 40 41 75 1,665 7,656 9,321 49 26 382 23 431		• • •	1,070	1,710 1,070
1,096 359 1,455 25 49 9 9 9 35 40 40 40 175 1,665 7,656 9,321 49 26 382 23 431				
40 40 175 7,656 9,321 49.26 382.23				349
7,656 9,321 49.26 382.23				
			:	7 656 705

	Total Amount of Tolls		es cts.	113 05		13 78	128 64 12 40	18 2	88 % 88 %		1,425 45		
rcluded.	Amount Amount of of Tolls, Up. Tolls, Down.		ee cts.	113 05		13 78	122 76 12 40	7 81	: 88 69		1,257 89		
Way Freight transported, &c.—Concluded.	Amount of Tolls, Up.		e cts.				2 88		8.7	: :	167 56		
ported,	Total Tons.			1,045		241	3,190	19	38		28,100	263	28,363
t trans	us.	Down.	***************************************	1,045		241	3,061	19	: : : : : : : : : : : : : : : : : : :	3 . :	22,022	263	22,285
Freigh	Tons.	Up.					129		310		6,078		6,078
	om States dian	Down.							: ::		984		436
rticle o	From United States to Canadian Ports.	Up.				: :					- SE		33.
each A	From United States to United States Ports.	Down.									:	:	:
tity of	From United States to United States Ports.	Up.									:		:
e Quan	om dian States	Down.				114	1,186				3,060		3,060
ring th	From Canadian to United States Ports.	Up.		• :							844		844
NT show	From anadian to to anadian Ports.	Down.		- : : 66 : : : : : : : : : : : : : : : :		127	1,875		: : : : : : : : : : : : : : : : : : :	3 : :	18,526	263	18,789
TATEME	From Canadia to Canadia Ports.	Up.		: : :			129		533		5,199	:	5,199
No. 9.—STATEMENT showing the Quantity of each Article of	ARTICLES.			Hoops Hop poles Lumber, sawn, in vessels	do rafts Masts, spars and telegraph poles, in vessels Masts, spars and telegraph	poles, in rafts	10 raft 8	do do W. India Staves, salt barrel. Shingles. Split posts and fence rails, in	Vessels, Split posts and fence rails, in rafts. Timber, square, in vessels.	Traverses Woodenware and wood partly manufactured.	Total freight paying tolls	land to Port Robinson	Grand total, freight

RAILWAYS AND CANALS.

56 V10	ctor
762 41 295 76	2,483 62
401 83 360 58 762 41 142 88 152 88 295 76	1,771 35
401 83	712 27
Total tolls on vessels do passengers do free goods . \$ 12 00	Total way tolls

B. H. TEAKLES, Chief Clerk, Canals Revenue.

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th September, 1892.

APPENDIX A-Continued-CANALS.

No. 10.—General Statement		showing the Quantity of each Revenue collected during th	the Qu re colle	owing the Quantity of each Article Revenue collected during the Fiscal	of each ring th	Article e Fisca	.		on the St. 30th June,		rence (Lawrence Canals, and 1892.	the	Amount of
ARTICLES.	From Canadian to Canadiar Ports.	From Janadian to Canadian Ports.	Fr Cans t United	From Canadian to to to Duited States	From United State to Canadia Ports.	From United States to Canadian Ports.	From United Stal to Canadian Ports.	From United States to Canadian Ports.	Tons.	. *81	Total Tons.	Amount of Tolls, Up.	Amount of Tolls, Dewn.	Total Amount of Tolls.
	Up.	Down.	Up.	Down.	do.	Down.	Up.	Down.	Up.	Down.				
Ashes, pot and pearl	9 64	5.045	31		9				£ 15	5,045	5,100	5 cts.	\$ cts. 12 00 722 95	\$ cts. 19 69 727 82
Agricultural products not enu-	296	2,102	23	:	:	:		:	325	2,102	2,427	44 68	133 39	178 07
A Agricultural products not enumerated, animal	7.25	1,144					1	: :	3 28 25	1,144	1,199		167 57 0 95	
W Barley O Bricks O Rones	12,365	20,982 76 121	315				147		12,827 13,13	20;:02 76 121	12,903 12,903 134	523	5 2 5 5 2 5 5 2 5 5 2 6	
D Brinstone Ne Cement and water lime To Clay, lime and sand. S Corn	3,160 19,382	215 8,618 42,684 859	1,574	62		935	9 3,227	128,040 5,670	22,800 22,800 8	8,618 171,721 6,553	291 4,949 31,418 171,721 6,561	27 86 667 46 883 81 0 72	8 10 23,696 02 889 20	27 86 675 56 1,434 82 23,696 02 889 92 98
Cattle		* 51 1 4	136						323 76 717	245 113 13 13 14	339	61 92 4 70 92 71		
Flax and hemp. Flour Furniture Gypeum Glass, all kinds Hav. messed	589 331 1,779 342 936	3,710 141 91 455			:-:::::::::::::::::::::::::::::::::::::				1,779 332 1,779 373 979	3,784 775 141 91 455	1,380 1,107 1,920 1,434	24 65 55 65 65 65 65 65 65 65 65 65 65 65	553 36 133 14 5 33 10 55 27 46	58888 175 28888 288888
Hogs. Horses Hides and skins, horns and hoofs.	.: 133	1289 1289 149 149 149 149 149 149 149 149 149 14							133	12% £	= £ ±	8 40		
Ice Iron, railway do pig.	3,318		:::::::::::::::::::::::::::::::::::::::						3,318	9.11	3,324	495 84 492 66	0 54 0 42	496 38 493 08

Figure Comparison Compari	do all other	12,846	989	. 883		:	·		÷	13,229	.989	13,915	727 20	29 34	756 54
Linds	Iron ore Kryolite, chemical ore and		:			: : :	:	· ; ·	•	:	. 8		:		
Linda Lind	other ore, except iron.	101	1,285 88.	16		: :		: :		117	808 808	1, 8,8,8 8,5,6		3 15 27 28 30 30 30 30 30 30 30 30 30 30 30 30 30	
Particular Par	Meal, all kinds	72.8	25 25 26 26 26 26 26 26 26 26 26 26 26 26 26	:	:	:	:	: :	:	2. 8.	689 689	3 %		₹ 85 % ©	
arrels 1778 418 27	Meats, other than pork	3 12	9						: : : : : :		· :	2			
The control of the co	Manilla	:	:	:		:	:	:	:	100					
arrela 1,151 20,225 1,157 1,151 1,15	Molasses	200	₹;	:	: :	:	:	7	<u>.</u>	028	4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	5 6 6			
arreis 7.58 1.57 4.1 6.1 4.4 6.1 1.5 1.5 1.1 1.	Nails	1,974	90 00 00 00 00 00 00 00 00 00 00 00 00 0	27(:	:	: :	:	:	759	20 595	25.6			
12 12 13 15 15 15 15 15 15 15	Oats	750	157	17	:			- 4	: :		161	993			_
1,000, 1	Out, in parrels	3.5	3	1						12	:	12			
d clar 49 139 149 139 149 139 148 149 139 148 149 139 148 149 139 149 139 149 139 148 211 506 54 30 44 50 14 30 14 50 14 30 14 50 14 30 14 50 14 30 14 50 14 30 14 50 30 34 15 30 35 30 35 30 36 30 36 30 36 30 36 30 36 30 36 30 36 <t< th=""><th>Ull Carke</th><th>£</th><th>46.939</th><th></th><th></th><th></th><th></th><th></th><th></th><th>3</th><th>46,939</th><th>47,799</th><th></th><th>_</th><th></th></t<>	Ull Carke	£	46.939							3	46,939	47,799		_	
448 211 448 211 669 448 211 508 448 211 508 448 211 508 448 211 508 448 211 508 448 211 508 448 218 508 548 144 708 257 38 276 38 276 38	Potatoes	6	139			-	:	:	:	6	139	148	-		Ξ.
d uar 283 219 224 222 327 219 254 31 356 244 35	Pork	448	211			:	:	:	: :	448	211	629			
Color of the col	Paint	263	219	24	:	•	:	:	:	287	219	906	-		
1,000 1,00	Pitch and tar.	68	33	21		:	:	2i 	<u> </u>	335	3	9			
tended for cutting 386 1,576 1,577 1,570 1		9	3	:::::::::::::::::::::::::::::::::::::::		:	:	:	:		200	600			
transite description of the countring and the countring are described for cutting and countring are described for cutting and countring are described for cutting and countring are described for cutting and countring are described for cutting are descri	Rye.	<u>2</u>	1,978	•			:		:	# S	1,978	2,075			-
tended for cutting 388 1,587 2,148 2,1418 2 0,1418 1,586 1,168 1,168 1,189 1,1	K Rosin	154	113		:		:	Į,		1,000		1,910			
the containing 328 1,385 1,485 145	I Salt.	4,182	8	2,786	:	:	:			2000	14.	,,003			
or suitable for cutting, 388 2,028 2,028 2,028 1,098 2,028 1,008 1,00 1,00 1,00 1,00 1,00 1,00 1,	Stone	328	1,585	145		:	:	2,41		2,031	1,000	4,470			
of soutable for cutking, or cutking, or cutking,	ဝှ	358	:			•	:	·		8	-	8		:	
History Hist	ဓ	-	0 190			:					9 138	9 138			
Kinds Color Colo		0 0 0	0,100	: .	:	:	:	:	<u>:</u> :-	× 058	2,023	10,081			
482 30 213 697 30 727 132 71 5 10 137 beer, &c 3.257 28 61 485 475 1,158 123 71 5 10 116 beer, &c 3.257 28 615 38,98 475 1,158 123 80 116 42 5 10 116 beer, &c 3.81 475 1,158 128 97 60 15 740 31 740 31 740 31 740 31 740 31 740 31 740 31 740 31 740 31 740 31 740 31 740 31 32 34	Legeda, all Kinds.	'n	300		:	:	:				100	100			
856 14 29 615 28 855 14 885 116 42 0 56 116 42 0 56 116 42 0 56 116 42 0 56 116 42 0 56 116 4 115 116	Olember 10 State of the control of t		S	273					22	. 697	8:	727			
beer, &c 3,257 26 615 3,257 26 615 3,872 26 3,889 740 3,872 789 740 742 742 742 742 742 742 742 742 742 742 742 742 743 745 746 20 70 70 150 742 743 745 745 746 20 70 70 150 70	Stock as us.	8	4	8					:	. 855	14	698			
beer, &c. 381 475 302	Sugar.	3.257	8	615	:	•	:	:	:	3,872	88	3,898			
y, raw 7 1 3 6 4 5 6 4 8 9 7 6 10	Spirits, beer, &c	88	475	305	:	:	:	:	:	889	475	1,158			
ine 458 45 4	Tobacco, raw	7	5	:	:	:	:	:	:		-	ळड			
ine 113 2458 43 44 14 15 14 15 14 15 16 <th< th=""><th>Tallow</th><th>က</th><th>•</th><th></th><th>:</th><th>:</th><th>:</th><th>_</th><th>· ·</th><th>8 8</th><th>:</th><th>97</th><th></th><th>6</th><th></th></th<>	Tallow	က	•		:	:	:	_	· ·	8 8	:	97		6	
me 4,113 28,152 8 7,824 4,113 35,976 40,089 92 03 2,060 34 2,182 and 146 36 156 36 156 30 2,060 34 2,182 and 146 36 2 2 2 2 36 3,165 3,	Tin	458	57	\$:	:	:		:		2.5	02		90	
ad 4,113 20,122 8 354 7156 36 36 30 63 71	Turpentine	1;	47 62	:	:	:	:	-			35 976	40 080		2 000 34	,
and matches 354 354 354 71 50 <th< th=""><th>W heat.</th><th>4,110</th><th>201,00</th><th></th><th>:</th><th>:</th><th>:</th><th><u>:</u></th><th></th><th>_</th><th>2</th><th>156</th><th></th><th></th><th></th></th<>	W heat.	4,110	201,00		:	:	:	<u>:</u>		_	2	156			
r goods and unerchan 6,157 2,924 763 454 522 212 7 7,586 3,453 11,039 1,165 43 472 05 1,637 3 75 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	:	20.6		2	:	:	: : : :	:		_		354			
r goods and merchan 6,157 2,924 763 464 522 212 7 7,586 3,453 11,039 1,165 43 472 05 1,637 3 empty. empty 181 20 12 2 40 283 22 233 22 255 32 15 2 16 34 empty 1,065 87 3,072 8,601 11,673 51 26 264 62 315 rafts	Whiting	5		30	:		:	: : :		;;;	2	13		0 30	
ot enumerated. 6,157 2,924 763 454 522 212 7 7,586 3,453 11,039 1,165 43 472 05 1,637 3 empty. 181 20 12 2 40 233 22 255 32 15 2 16 34 empty. 260 3,944 4,204 3 90 70 42 74 6 in vessels. 2,985 7,536 1,065 87 8 7 3,072 8,601 11,673 51 26 264 62 315 rafts.	A 11 other goods and morehan	,	1	•	: :	: :	: : :		: : :		1				
empty. 181 20 12 2 40 233 23 22 255 35 15 34 empty. 4.204 3.944 4.204 3 90 70 42 74 d in vessels. 2,985 7,536 1,065 87 3,072 8,601 11,673 51 26 264 62 315 rafts.	dise not enumerated	6.157	2.924	763	:	2			2	7 7,586	3,453	11,039	1,165 43		-
empty	Rark		13			:	•	•	:	:	13	13			-
968 3,944 4,204 3 90 70 42 74 d in vessels 2,985 7,536 1,065 87 3,072 8,601 11,673 51 26 264 62 315 rafts	Barrels, empty,	181	ଛ	12	7		:	:	:	233	22	2 <u>2</u> 2	32 15		
260 3,944 1,065 87 3,072 8,601 11,673 51.26 264 62 315	Boat knees			:	:	:	:	:	: ::			700 7	8		•
d in vessels 2,986 7,036	Floats	98	ω, 4, 6		100	:	:	:	:	2020	0,0	11,672	. 13		
	Firewood in vessels	2,985	7,536	:::::::::::::::::::::::::::::::::::::::	1,000		: :	:	:	710% ·	o, co.	11,010	3		
		<u>:</u> ::	:	:::::	:		:	:	: :		:	:	:	<u>. </u>	: :
	•														

	unt Amount Total Total Of Tolls, Of Tolls, Of Tolls, Of Tolls, Tolls.		cts. Se cts. Se cts.	01 497 56 1,429 57 0 15 0 15	22 92 92 92 92 92 92 92 92 92 92 92 92 9	90 00 00 00 00 00 00 00 00 00 00 00 00 0		080 080	50 0 75 1 25	95 17 49 90	20 121 80 218 00 (90 0 90 16 80	76 35,152 09 45,449 85		A. 18	893
c.—Concl	Amo of Tolls,		66	42,385 932 4	19,068		- : :	30	10 0	:	8,242 9,376	50 15	533 10,297		36.	156 357
STATEMENT showing the Quantity of each Article transported, &c.—Concluded	s. Total	Down.		15,601 42,	19,068 19,	:	•	∞	9	:	4,510 8,376 9,376	8	427,223 575,533		7 9g F	57,156 57, 3,357 3,
icle tran	Tons.	Up.		26,784					4		3,732	42	148,310			
ach Art	From United States to Canadian Ports.	Down.				: :							141,543			
ity of e		. Up.		: : : : : : : : :		: : : : : :				<u>:</u>		:	9 7,558		::	
ie Quant	From United States to United States Ports.	Down.			: : : :	: :				<u>.</u>		:	613 1,559			
wing th		T. C.		16	: :	: :						<u>:</u> .			::	
vr shov	From Canadian to United States Ports.	Down.		789	: :	<u>:</u> :							1,545	•	: :	
TATEME	Ca Unite	up.		.€4	90.9	: : : :::		80	9	<u> </u>	909	; ;	9,030	•	36	1915
	From Canadian to Canadian Ports.	Down.		5 15,16		17.8			-	9 000			9 282,576			3,35
-GENE	Car Can Can P.	Up.		25,995		\$ 			`	7	ຕົ : :		131,109			
No. 10.—General	ARTICLES.				Masts, givers and telegraph polics, in vessels. Masts, spars and telegraph polics, in rafts.		X Staves and headings, barrel.	do do Steves	N Shingles T Split posts and fence rails, in		Ilmoer, square, in vesseus do rafts	Woodenware and wood, partly manufactured	Total freight, aying tells	Free Articles, having paid full Tolls on the Welland Canal.	All other vegetables	Corn Flour

4,643 33 161 10 14,644 91			00 207.004	07		ts,	iree goods. I storage nages. sin dues and other receipt	rous ge se and oth	nd storaș amages. basin due	Wharfage and storage Fines and damages. Winterage, basin dues and other receipts,	WEW			
17,118 11 3,036 55	7,538 94 2,334 36	9,579 17 702 19		:				gers	n vessels	Total tolls on vessels	To			
			995,051	746,838	248,213	142,386	31,622	1,559	613	1,545	9,330	601,348	206,648	Grand total, freight
			1,629	1,629				:			:	1,629		toll on the Rideau Canal
:	:	:	724	:	724	:		:		:	:			Stone for cutting.
			99 139 139	469 443	483 483 98,696		24.064				: :00 : :	469	483	Cement Clay
														Articles Free, per Order in Council.
			1,820 3,738	1,820 3,738		400			* : :			1,820 3,338		Timber, square, in vessels do rafts Timber, sawn, in vessels
			120 182,087	120 182,087								120 182,087		do do W. India
			್ಷ	៰ឨ៰								220	: :	Seeds, all kinds. Spirits, beer, &c.
			67.	524 67.335	: :							524 67.335		986
			- 69	38								32.8		Meats, other than pork
	· : :	:	41	1,			:	_	:	:		•	:	Trons on coner

B. H. TEAKLES, Chief Clerk, Canals Revenue.

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th September, 1892.

APPENDIX A—Continued—CANALS.

No. 11.—Statement showing the Quantity of each Article of Through Freight transported on the St. Lawrence Canals, and the Amount of Tolls collected, during the Fiscal Year ended 30th June, 1892.

استقبيبهم	From Canadian to Canadian Ports.	From Canadian to United States Ports.	From Canadian to to nited States Ports.	Fr United Po Po	From United States to United States Ports.	Fr United Can Po	From United States to Canadian Ports.	Tons.	. B.	Total Tons.	Amount of Tolls,	Amount of Tolls, Down.	Total Amount of Tolls.
П	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.				
											ets.	e cts.	♣ cts.
	60,736	*	: :					₹ :	96. 98.	94,736	98 9	12 00 710 40	18 80 710 40
	1,886	8 7 :						260 8	1,886	2,146 1,100	39 00 1 20	125 163	
. 12	12,263	315						362	12,263 93	12,263 362 93	54 30	352	352 77 352 77 54 30 13 95
::⁻≈	1,982	1,574					107,263	3,888	1,982	3,888 2,228 145,851	583 36 90	21.877	583 20 334 20 21.877 65
7	2 21						5,670	:	6,515 12	6,515 13	0 15	Î	82
	: 5 E	136						242	15	257 15 530		00 8 8 8 8	51 40 3 00 79 50
. es	3,631	· ;=						 82	3.631	3,631	17 00	544 65	544 65 140 40
:	37	 					: :	321	37	358	64 20	7 40	71 60
:	:18								=8	39	1.50	1 65 4 35	 1 65 5 85
	3	:	:	:	:	:	•	:	7	42	:	6 30	08 9

	:882		8888						8888	7	25 34	: :8
60 16 11 11	16 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	:#2 :#2 :	. 2 5 8 8.	67.5 256 0	∞ స్ట	. 21 22	281 280 0	-8-	2222	1,077	: £3	
8040 :		•		34 75				: 8 : 1	8 : 8 5 : 0	46 80	1 70	- 08
<u> </u>	:			<u> </u>				: :'	-î : <u>:</u> 		:	
. 675 276 1 05	16 80 363 20 70 40									09 08.2	8	
110 110 9 9 9	84 1,829 2,673 459	2,840	249 178 643	4,494 1,710 3	251 251	7888	2,838 900 1,1	2.44 2.00	5,412 135 135 13 135 135 137	5,387	142	
	:										:	
:	: :	:		::::			4 ,		16,	1,7		
: :कै	84 1,816 352		211 46 3	4,494 145 3		629	2,835	440 6.	135 293 11	3,653	128	
									7,824	:		
		: :	<u>: : . : :</u>	<u>: : : '</u> : : : : :	::	: : :	<u>: : :</u> : : :	<u>: </u>	: : :	<u>:</u>	: : :	:
										:		
		: : :			: :	: : :	: : :	· : : :	<u> </u>	:	: :	:
				<u>: : : : : : : : : : : : : : : : : : : </u>	::			<u> </u>		<u>:</u>		
16	327		ៈតីត : : : : : : :	2,786		: 213 29	615 302	: \$4 :	.∞ © ∞	757		
1,205 65 27 27 27 37	2,673 107	12,840	38 175 643	1,565	100 1351	. <u>2</u> 2.	458		\$: :31 \$: :31 \$: :	1,734	14	
81 - 6 81 - 6	311		187 25 3	1,708			2,220 140	392 9	243 243 9	2,899	127	
			· · · · · ·	: : : b		: : :		: : :		han :		
<u> </u>				tting.						merc J		
il. il. en por				for cu	ight.		; ; ; ; ;			s and erate		Floats. Firewood, in vessels.
ard o sinds.	rels		tar	inded ught	nwrou kinds		er, &	: :		good	npty 8.	in ve
and land; , all k.s. oth	sses n bar	toes .	t n and	e inte	s, shu	ash.	Sugar Spirits, be Tobacco, r	entin	te lest ting	other ie not	els, ei knee	ts.
0	<u> </u>	ب و يو	6 28 6 1	g +; g c c	7	8 8 8	S.H. de	i - E	\$ E E 8	All of dise	ÉE#	£ 5
	29 65 16 60 25 18 27 45 67 10 67 9 75 7 2 7 45 27 40 65 10 67 9 75 40 67 9 75 76 40 65 10 67 9 75 40 75 40 75 40 75 9 10 65 9 <t< td=""><td>29 65 16 60 25 18 27 45 27 9 7 7 2 9 1 0 30 84 1,489 13 387 45 2 7 405 9 1 9 9 1 80 0 30 1,489 13 387 1,816 1,816 1,829 363 2 60 311 107 41 459 70 40 21 40</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>29 65 11,205 1,205 1,205 60,25 18 27 10 67 9,75 7 2 45 270 405 9 9 1,81 1,81 1,82 1,80 2,60 1,489 13 327 36 2,60 2,60 1,1,840 13 1,816 1,816 1,829 363 2,60 1,1,840 10 41 1,816 1,829 363 2,60 1,1,840 10 45 10 4,60 7,0 4,0 1,2,840 10 4,60 7,0 4,0 7,0 14,0 1,840 10 12,840 7,0 40 21 40 1,840 10 12,840 7,0 40 21 40 1,87 38 24 12,840 7,0 40 7,0 1,87 38 24 42 20 7,0 7,0 1,87 38 24 42 20 7,0 7,0 1,87 30 30 30 140 30 140 1,87 30 30 30 30 30 10<</td><td>29 65 16 60 25 18 27 110 67 9 75 19 1 2 9 1 0 30 1</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>29 65 116 67 9 75 18 77 2 45 65 110 67 9 75 18 7 2 9 1 60 9 90</td><td>29 1,205 1,</td><td>29 1,205 16 60 25 18 27 16 65 110 6775 4 675 18 27 2 9 1 05 0 39 19 2 9 1 05 0 39 1,489 13 327 4 1 05 0 39 1,489 13 327 4 1 05 0 39 1,489 13 327 4 1 05 0 39 1,489 13 4 4 4 4 4 1,489 13 4 4 4 4 4 4 1,489 13 16 8 6 2 6 1 2 6 6 3 1 6 3 1 6 1 9 1 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td>29 1,206 16 1,206</td><td>23 1,265 16 1,265 1,265 16 270 1,265 16 270 1,270</td><td>28 1,200 1,</td></t<>	29 65 16 60 25 18 27 45 27 9 7 7 2 9 1 0 30 84 1,489 13 387 45 2 7 405 9 1 9 9 1 80 0 30 1,489 13 387 1,816 1,816 1,829 363 2 60 311 107 41 459 70 40 21 40	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	29 65 11,205 1,205 1,205 60,25 18 27 10 67 9,75 7 2 45 270 405 9 9 1,81 1,81 1,82 1,80 2,60 1,489 13 327 36 2,60 2,60 1,1,840 13 1,816 1,816 1,829 363 2,60 1,1,840 10 41 1,816 1,829 363 2,60 1,1,840 10 45 10 4,60 7,0 4,0 1,2,840 10 4,60 7,0 4,0 7,0 14,0 1,840 10 12,840 7,0 40 21 40 1,840 10 12,840 7,0 40 21 40 1,87 38 24 12,840 7,0 40 7,0 1,87 38 24 42 20 7,0 7,0 1,87 38 24 42 20 7,0 7,0 1,87 30 30 30 140 30 140 1,87 30 30 30 30 30 10<	29 65 16 60 25 18 27 110 67 9 75 19 1 2 9 1 0 30 1	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	29 65 116 67 9 75 18 77 2 45 65 110 67 9 75 18 7 2 9 1 60 9 90	29 1,205 1,	29 1,205 16 60 25 18 27 16 65 110 6775 4 675 18 27 2 9 1 05 0 39 19 2 9 1 05 0 39 1,489 13 327 4 1 05 0 39 1,489 13 327 4 1 05 0 39 1,489 13 327 4 1 05 0 39 1,489 13 4 4 4 4 4 1,489 13 4 4 4 4 4 4 1,489 13 16 8 6 2 6 1 2 6 6 3 1 6 3 1 6 1 9 1 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	29 1,206 16 1,206	23 1,265 16 1,265 1,265 16 270 1,265 16 270 1,270	28 1,200 1,

ARTICLES.														
1	From Canadian	n. 1811	Fr	From Canadian	From United States	om States	Fr	From United States	Tong	<u></u>		•	•	Total
Th.	to Canadian Porta	ian a.	to United States Ports.	States ts.	United Pol	United States Ports.	Can	Canadian Ports.			Total Tons.	Amount of Tolls, Up.	Amount of Tolls, Down.	Amount of Tolls.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		,		
						-						* cts.	e cts.	•• cts.
:		·	:											
u.	243	843							245	843	1,086	21 75	 36. 35.	102 00
do rafts	:	:	:	:	:	:	:	:	:	:			:	
poles, in vessels. Masts, spars and telegraph	<u>:</u>	<u>:</u> : :	:	:	:		:							
poles, in ratts	: : : :													
do rafts	· :	· · ·											:	
l headings,	:		:								: :			
do do W. India.	: :	· •				:				<i>i</i> :				
Shingles										:	:	:	:	:
Split posts and fence rails, in vessels		:	:	:	:	•	:	:	:				:	
Split posts and fence rails, in			:				:		:	:	:	:	:	
Timber, square, in vessels.			::					: :		: :				
Traverses Woodenware and wood partly manufactured	 								8		- 86 : :	15 60		15 60
Total freight paying tolls 22,	2,729	97,852	8,186					120,757	30,915	218,609	249,524	5,218 19	28,809 46	34,027 65
Free Articles having paid full Tolls on the Welland Canul.														
All other, vegetable	. :	67 %	:		-: : :	•	:			91 K	8,00			

-0	, 100	OI 100.					z wpor.	٠ (
							11,527 49 1,999 95	47,555 09
						:	5,840 12	36,355 98
::						:	5,687 37 293 55	11,199 11
3,357	371	22.22.23.24.11.22.24.21.12.22.22.22.11.22.22.22.22.11.22.22.	2 21 181,211	3,738 1,820	5,861 1,629	571,447	8,210 95	
3,357	. 371 18	228 224 524 68.211	21 21 181,211	3,738 1,820	120	534,671		
					5,861	36,776		
						121,157		
. : :							g ngers oods	gh tolls
							on vessels passengers free goods	Total through tolls
:::::::::::::::::::::::::::::::::::::::							Total through tolls on vessels do do passenger do do free good	To
:::						:	Fotal thre	
					8 :	8,486		
3,35	371	8. 8. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	2 2 181,21	3,338 1,820	. 120 . 1,629	413,514		
					5,561	8,290 28,290		
Corn.	Triass Horses Iron, pig Meal, all kinds	Meats, other than pork Merchandise Pease Rve	Seeds, all kinds. Spirits, beer, &c.	Lumber, sawn, in vessels Timber, square, in rafts	down West India. Cosl, per Order in Council 5,561 Kryolite.	Grand total, freight		
SE SE	Hors Iron,	Meat Merc Pease Rve	Spirit A		Condo Kryo			

B. H. TEAKLES, Chief Clerk, Canals Revenue.

> DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th September, 1892.

CANAL STATISTICS.

APPENDIX A—Continued—CANALS.

No. 12.—Statement showing the Quantity of each Article of Way Freight transported on the St. Lawrence Canals, and the Amount of Tolls collected during the Fiscal Year ended 30th June, 1892.

ARTICLES.	From Sanadia to Canadia Ports.	From anadian to anadian Ports.	Fr Cana t United Poi	From Canadian to United States Ports.	From United States to United States Ports.	States States States ts.	From United States to Canadian Ports.	States States dian ts.	Tons.	ź	Total Tons.	Amount of Tolls, Up.	Amount of Tolls, Down.	Total Amount of Tolls.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.				
·												es cts.	es cts.	cts.
A Apples	. ge 9	309			- မ မ				- 632	308	e 46	0 89 4 87	12 55	0 89 17 42
Agricultural products not enu-	33	216	:			:	:	:	1 33	219	281	2 68	. 7 40	13 08
Agricultural products not enu-	35		:	:	:	:	-	:	74.8	52	8.8		3 77	7 89
Agricultural implements. Barley Bricks	220 12.318	8,719 76					147		220 12,465	8,719	8,939 12,541	469 64	191 28 98 38 98	195 46 472 50
Bones	686				:	:	13 0	:	£1.5	8	4 5		2 15	\$ 65 57 58 58 58
T Cement and water lime.	\$ \$ 6	•		: :			3 007		3 846 354	215	1,061		8 10 253 71	19.38 19.38 19.38
Coal	120,61			62		935	: : :	20,777	, .	25,870	25,870			1,818 37
Corn. Cattle.	∞ 4	±8€			: :	₹ :			× 4	8 8	37.7 37.7	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	24 14 35 14 35	8 98 1 88 2 88
Cotton, raw Crockery and earthenware	:28	1							 87.	-		13	0 00	
Dye wood and dye stuffs	187	9							187	: - - - -	227	. EZ C	2 70	
Flax and hemp	286	79			2	74			596	153	18:5	4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	8 71 8 74	45.8 25.8 25.8
Gypsum.	1,779	3 7 3							1,779	<u>4</u> 2	1,920	1 <u>2</u> 6		
Hay, pressed.	986	455		: :	x				979	55	1,434	8	27 46	
Horses Hides and skins, horns and hoofs	123	260							123	260	383	6 90 0 05	14 0 88 88	21 71 0 13
Ice Iron, railway	36	2		: :				-:::::		5	11,	3 54	- CS	3 93

56	17:	ata	ria.
im	V 10		111111

Sessional Papers (No. 9a.)

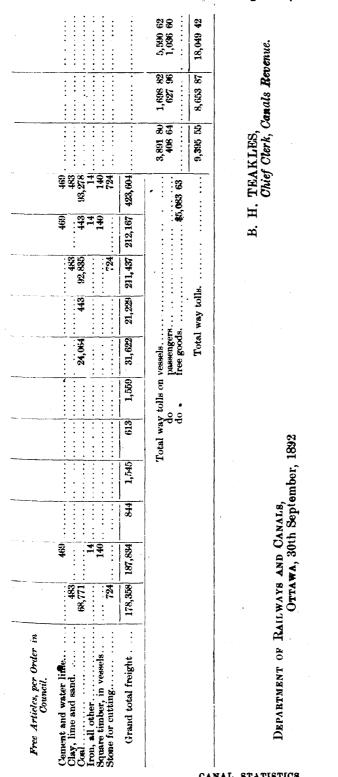
A. 1893

mad other 72 143 66 668 66 668 66 668 67 125 741 485 67 148 740 740 740 740 741 740 741 741	658 694 684 684 684 684 684 684 684 684 684 68	で 2 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	25. 12. 28. 25. 25. 25. 25. 25. 25. 25. 25. 25. 25	
7.2 143 8.6 658 26 6 6 6 6.6 6 6.6 6 6.6 6 486 601 486 601 486 601 12 47 800 34,099 9 44 181 44 181 44 181 5 76 183 181 1,049 182 2474 440 113 182 2,474 441 39 182 2,474 443 35 183 30 184 38 185 38 186 38 187 34 188 30 189 34 180 38 180 38 180 38 180 38 1813 41 1813 41 1813 41 1813 41 1813 41 1813 41 1813 41 <				
616 24 48 748 748 748 748 748 748 748 748 748	<u> </u>			
6116 24 485 741 745 741 742 742 743 744 745 745 745 745 745 745 745 745 745	:	25888-170-2522-0-8888888888888888888888888888888		
485 765 785 765 487 489 480 34,094 860 34,094 9 134 440 153 76 181 76 181 76 181 76 183 8 26 113 1,049 124 1,049 138 2,474 140 1,604 140 1,801 140 1,801 140 1,801 138 2,474 140 1,801 141 39 141 1,604 141 1,801 141 1,801 141 1,604 141 1,801 141 1,604 141 1,604 141 1,604 141 1,604 141 1,604 141 1,604 141 1,604 141 1,604 141 1,604 141 1,604 141 1,704 141 1,704 141 1,704 141 1,		\$24.20.00.00.00.00.00.00.00.00.00.00.00.00.		
12 12 15 15 16 18 18 18 18 18 18 18		484-7-0 2550 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
Holo 34,059 810 810 810 810 810 810 810 810 810 810		171 0 2 2 2 2 2 2 2 2 2 2 3 2 3 3 3 3 3 3 3		
440 134 440 76 181 76 84 26 286 94 1,35 2,474 94 1,35 3,474 118 2,474 39 118 2,474 39 118 2,474 36 118 2,474 36 118 3,038 3,038 11,037 23 8,058 11,037 23 1,037 11,037 23 1,037 118 1,13 19,564 4,113 118 21 4,113 118 21 21 118 21 21 118 21 4,113 118 21 21 118 21 4,113		222 0 0 19 19 19 19 18 0 18 18 18 18 18 18 18 18 18 18 18 18 18		
7440 153 746 181 747 181 8 4 1,835 8 4 1,835 8 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		220 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
64 26 3 3 94 1,355 94 1,355 94 1,801 1,801 1,801 1,801 2,474 328 20 2,474 3,746 2,474 3,746 355 1,772 80 6 2,80 8,058 1,637 23 2,418 2,474 2,474 3,656 8,058 1,672 1,037 23 1,037 24 1,1 17 2,413 1,13 1,13 19,564 4,113 19,564 4,113 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 22 32 4,113 4,113 4,113 4,113 4,113 4,113 4,11		19 10 10 10 10 10 10 10		
outting 2474 39 44 1,335		103 22 30 3 C		
ting. 2,474 ting. 328 20 328 20 329 20 320 cutting, 9,038 8,058 1,772 8,068 1,782 1,037 23 1,037 23 2,418 2,448 8,058 8,058 8,058 1,772 2,80 1,037 2,413 1,037 1,037 1,037 1,037 1,037 1,137 2,41 1,137 1,13		222 103 183 184		
ting 2,414 35 2,746 38 2,746 38 38 38 38 38 38 38 38 38 38 38 38 38		183		
cutting, 355 8 363 cutting, 9,038 8,068 1,772 228 1,037 241 1,037 241 1,037 241 241 241 241 241 241 241 241 241 241		18		
cuttung, 9,038 8,068 1,772 8,068 1,072 228 14 228 2 228 82 228 2 228 2 228 2 228 2 228 2 228 2 228 2 228 2 228 2 228 2 228 2 228 2 24 1,037 2 24 1,037 2 24 1,13 19,564 24 113 19,564 24 113 19,564 25 14 113 19,564 26 69 69 66 69 66 66 66 66 66 66 66 66 66				-
8,058 1,772 8,058		: :		
20 6 1,037 23 241 17 241 17 241 13 13 13 13 13 14 13 14 66 14 66 14 4,113 12 4,113 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 41 61 61 61 61 61 62 64 61 61 61 61 61 61		301	5 5 5 6 6 6 7	
eer, &c 226 14 236 raw 241 17 241 raw 66 38 13 13 ne 66 38 66 66 ne 4,113 19,564 4,113 ad 21 4,113 ad 61 61 61 61 61 62 63 64 63 64 65 64 61 61 84 61 61 61 61 61 62 61 61		. G		_
eer, &cc 1921 17 241 77 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		82		_
raw 7 13 13 13 13 14 164 66 69 69 64 4,113 19,564 4,113 19,564 61 61 61 61 61 61 61 61 61 61 61 61 61			_	
ne 66 38 69 69 69 69 69 69 69 69 69 69 69 69 69	13.	0 0 0 49 : .	: :	9
ne 4,113 19,564 4,113 ad 21 61 61 61		<i>o</i> •	1 30	
21 21 21 21 21 21 21 21 21 21 21 21 21 2		25.		
		က္		_
		77		
1.190 9 454 522 212 7				
133	~	:	3 75	
2 TI 0	:	o : :		
Floats	3,944 4,204 8,166 11,238	19 45	27 55 88 83	¥ \$ \$ \$ \$

No. 12.—Statement showing the Quantity of each Article of Way Freight transported, &c.—Concluded.

an Canadian Canadian to to to to to to to to to to to to to t		From United States to United States Ports	From United States	States						
7 L89	<u> </u>	ŝ	Canadia Ports.	Canadian Ports.	Tons.	18.	Total Tons.	Amount of Tolls, Up.	Amount of Tolls, Down.	Total Amount of Tolls.
		Down.	Up.	Down.	Up.	Down.				
								e cts.	e cts.	e cts.
	416			· : :	26,541	14,758	41,299	910 26	417 31	1,327,57
	:	:	:	:	:	4	4	:	CT A	er o
						19,068	19,068		:	476 70
					496	8	25			10 49
					197	14,380	14,577	4 30	328 72	333 22
						90	· 000		08.0	08 0
					4	: 9	10	0 50	0 75	1.25
:	:	:	:	:	:	:	:		:	:
2,093 4,510					434	2.093	2,527	7 13 96 20	:8 :8 :3	42 30 218 90
:	:		:	:	:	9,376	9,376	: •	24 25 26 26 26	24 40
844	1,545 613	1,559	7,558	20,786	117,395	208,614	326,009			11,422 20
	•									
2,487			:		:	2,487	2,487			
180 180		:::::::::::::::::::::::::::::::::::::::		1,559	1,559 7,558	1,559 7,558 20,786	496 4 4 4 434 3,732 3,732 3,732 3,732 3,732 3,732 3,732 3,732	19,068 486 197 14,380 8 434 434 4,510 3,732 4,510 9,376 1,559 7,558 20,786 117,395 208,614 3	19,068 19,068 30 12,268 197 14,380 14,577 4 6 10 434 2,093 2,527 3,732 4,510 8,242 9,376 9,376 1,559 7,558 20,786 117,395 208,614 326,009 5,09 2,487 2,487	19,068 19,068 990 30 14,380 14,577 4 50 4 6 10 0 50 3,732 4,510 8,242 96 3,732 4,510 8,242 96 20 1,559 7,558 20,786 117,395 208,614 326,009 5,095 11 6,

CANAL STATISTICS.



APPENDIX A—Continued—CANALS.

No. 13.—General Statement showing the Quantity of each Article transported on the Ottawa Canals and the Amount of Revenue

	Fr	From Canadian	Can	From Canadian	F. Unite	From United States		From United States	Tons	7		Total
ARTICLES.	Cana Po	to Canadian Ports.	Unite Pe	to United States Ports.	Unite	United States Ports.		Canadian Ports.		i	Total Tons.	Amount of Tolls.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	[Up.	Down.		
A Ashes, pot and pearl		8										
Apples Agricultural products, not enumerated, vegetable Agricultural implements	18 1 18	26 440 1,449 10							3	1,449 10,449	44,1 81,5	1262: 1282: 1283:
A Aktronoma imprements. B Barley P Bricks. Z Pomes		150								150	921	
Definition of the control of the con	400	7,302								7,302	7,702	1 97 211 49 93 78
Varie Scattle	: :-	648 4 759	: : :							759		3 28
Cotton, raw Crockery and earthenware Dye wood and dye stuffs											7	99 0
FISA and hemp Flax and hemp Flumitume	• : • • • • :) 							: e	:	: 52	6 60 4 18
Gypsum Glass, all kinds. Hay, pressed.		208								208	2002	0 19 19 17 0 72
Hogs. Horses. Hides and skins, horne and hoofs.	24	173 16								173		90
Iron, railway do pilother	: : :∞								; ; xc	: :82	: :95 : : : :	2 60
Iron ore		:::::::::::::::::::::::::::::::::::::::			:	:	:	· -: -:	: : : :	:	:	:

ALL POLICE CONTRACTOR								-		
Lard and lard oil	27		: :			: :	· : :	27.	22	2 47
2-5								8 :	8 ;	77.6
Marilla.	76						24	: :	. 42	1 42
Molasses Nails	:						10	9 001	1106	0 5.0%
Oats	2,901 13 2,901	: :					13	12,12	25	2 70
Oil cake.	:	:	:	:	-:-	•		3.141	3.141	. 214 62
		<u>:</u> :						654	55	57 14
Potatoes.	25 18						32	18	2	35
Ork		:	:		:	:	:	_	Ĩ	6T O
itch and tar	:	:	:	<u>:</u> :	:	<u>:</u>	:	: '		95.0
Rags		:	<u>:</u>					2	2	4 42
							-	:	-	
Kosin.	121	:		-	:		12	:	12	- -
tone intended for cutting.		- - -	: : : :	: :: ::	:	:	:			8
Z do wrought.	:	:	: : :	-	:	:	:	•	•	1
do not suitable for cutting, unwrought	: 6	:	:			<u>:</u>			8	22
eeds, all kinds		· : : :	:					411	411	31 0
neep	:						:		-	
Oda ash	16		:			:	16	-	17	
Wettl	128			: : :	:		3;	•	38	₹ 2 •
La Spirits, beer, &c.	17	:	:	÷ -	:		21	4	17	
Obacco, raw		:	:	:	:	:			8	20
Tallow	· c	<u>:</u> :: :	<u>:</u>				. 67		2	0 15
Tin	3						:	- :	:	
Turpentine	22					<u>:</u>	:	77.	42.	200
White load						:	:	٦,	- -	000
Whiting				:	:	:	:	→ b	-1 t·	
Wool.				:	:	:	: S	206	386	25
All other goods and merchandise not enumerated	R E	:	<u>:</u> : : :	:			•	1	3	
Bark,	8							33	35	÷
Sarrels, empty.	1			:	:	:	-		1 00	0 5
Lyder Allece	ළ _			:	::::::::::::::::::::::::::::::::::::::	:		36,480	£4,68	989
Firewood, in vessels.	165 39,548		759	<u>:</u> :	:	: : : : :	001	19,00	4,4	1,000
do rafts		:::::::::::::::::::::::::::::::::::::::	:	:	:	:		3 7	4	10
Hoops Hoops		:- :: :: :: *	:	:						
Hop poles	5 711		88.079				325,711	88,079	413,790	30,707 2
Lumber, sawn in Vessels	9			:	:	:	:	: E	S	_ •
Masta snars and telegraph poles, in vessels.	4			: :		:	:	4	₽	ė o
The state of the s		-			-	_				

RAILWAYS AND CANALS.

APPENDIX A—Continued—CANAIS.

No. 14.—GENERAL STATEMENT showing the Quantity of each Article transported on the Chambly Canal, and the Amount of Revenue :4%% 265 Total Amount Down. Tons. 383 \mathbf{Up} Down. From . United States Canadian Ports. collected during the Fiscal Year ended 30th June, 1892. Up. Down. From United States United States Ports. Up. Down. United States From Canadian Ports. Down. From Canadian Canadian Ports. Up. Agricultural products not enumerated, vegetable Ashes, pot and pearl.... Hides and skins, horns and hoofs... ARTICLES. wood and dye stuffs.. Hass, all kinds..... Horses Flax and hemp lour [ogs.....go] Prockery and urniture... ron, railway lay, pressed. ypsum 43 CANAL

No. 14.—General Statement showing the Quantity of each Article transported, &c.—Concluded.

ARTICLES.	Cana t Cana Po	Trom Sanadian to Sanadian Ports.	Cans t United Po	From Canadian to United States Ports.	United United Po	From United States to United States Ports.	Fron United Stat to Canadinn Ports.	Fron United States to Canadinn Ports.		Tons	Total Tolls.	Total Amount of
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		Tolls.
												se cts.
Kryolite, chemical ore and other ore, except iron		:	:									
Il kinds												
Meats, other than pork	: :											
**************************************	: :	::	: :	: :				120	: :	120	120	12 00
		1,391	484					: .8	 484	1,391	1,875	92 e
VOI, in carreis. Voi cake Voi cake		1,513						3 : .		1,513	1,513	÷
320	er. :								ຕ :		හ : :	0.24
V Pant V Piant V Pich and tar								118		118	118	0 40 11 86
	:	:			:							
Rosin	F61	: :		: :				2,042		2,042	2,042	8.
Stone intended for cutting	1,012	: :				: :		: :S	1,012		1,012	.01 .01 .02 .03 .03 .03
do not suitable for cutting, unwrought	2 : 5 : 							426	:		426	42
ll kinds	: 6	176		: ;					: **	176	179	5 97
Steel								£1			C# :	
Sugar. Spirits, beer, &c.												
Tobacco, raw	: :	: : : : . :					: :	: :			: :	
Tin	: :	:		::							:4	4 20
Wheat	:		:					: ;			: :	
Whiting												

B. H. TEAKLES, Chief Clerk, Canals Revenue.

DEPARTMENT OF RAILWAYS AND CANALS,
OTTAWA, 30th September, 1892.

APPENDIX A - Continued - CANATIS

ALLENDIA A-Continued-Canado.	TATEMENT showing the Quantity of each Article transported on the Rideau Canal, and the Amount of Rovonue	collected during the Fiscal Year ended 30th June. 1892.
	. 15.—General Statement sho	

ARTICLES.	From Canadian to Canadian Ports.	ian ian ian 8.	From Canadia to United St. Ports.	From Canadian to to United States Ports.	Fr United Po	From United States to United States Ports.	Fr United Cans	From United States to Canadian Ports.	Tons.	ns.	Total Tons.	Total Amount of
	 i i	Down.	Up	Down.	Up.	Down.	Up.	Down.	Up.	Down.		,
											,	60
Ashes, pot and pearl Apples Agricultural products not enumerated, vegetable do do do animal.	: : 8 8 4 :	8814								8813	2511 252 252 253 253 253 253 253 253 253 253	2025
do implements Barley Bricks Bricks Bricks	\$ <u>8</u> 8 = 1	8-8=							368 82 = 1	•	48.	
brimstone Cement and water lime Clay, lime and sand Coal Coal Coal Coal		88. 9,319 84. 84.							: :81 :82 :44	9,319 9,319 8	9,319 9,319 7	
Crotton, raw Crockery and earthenware Dye wood and dye stuffs Fish	8 11 27	: 820 20							. 43 11 74	30 13 9	: : :57.22.88	: 120
Flax and hemp Flour Frumiture Gyvenm	110 13								110		39	
Gfass, all kinds Hay, pressed	506	0 4							506	5 4	510	- 23 :
Horese Hides and skins, horns and boofs	2	ဘာသာ							11	<u>အထ</u>	14	00
Iron, railway do pig do all other	228								38 85 85	13	10 17 19	081

Water, all brinds, and brinds,	Most all binds			:	:		:			-		Ì	č	
Fig. 6. 1	at an Arma	:	: :22	<u>:</u>	:		:	:	:	:	:=	g 3 .	88	-0
tring. 1.7. 27.5 1.8. 1.8. 1.8. 1.8. 1.8. 1.8. 1.8. 1.8	ats, other than pork	14	D 69							: :	4	67	9	
140 770 910 140 770 910 140 770 910 140 770 910 140 770 910 140 770 910 140 770 910 140 770 910 140 770 910 140 770 910 140 770 910 140 770 910 140 770 910 140 770 910 140 770 910 140 770 910 140 770 910 140 770 910 140 770 910 140 910	nilla		:	•	:	:	:	<u>:</u> :	<u>:</u> :	· :	. 2	-	<u>.</u> :≅:	
140 770 410	lasses	6.2		<u>. </u>		:	:	:		:	98	21.0	311	8
tring. 227	:	96		:						-:	140	770	910	ಷ
tring 227 227 227 288 289 289 289 289 289 289 289 289 289	:	177						:	<u>:</u> :	:	121	27.0	452	₹.
121 227 228 227 228	III Udireits						:	:	- <u>:</u> - <u>:</u> - <u>:</u>	:	•	က	,	٠,
Tig 277	CORKE	121					: :	:	<u>:</u> <u>:</u> ::	-	13	3	149	4. r
tenumerated 77		19						: :	:	:	16	27.7	S :	.~!
25 1 25 1 25 26 26 14 25 15 15 27 25 4 25 16 25 28 37 25 4 24 24 29 37 38 36 36 20 4 36 36 36 20 4 36 36 36 30 4 34 34 34 31 4 4 4 4 32 4 4 4 4 33 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 5 4 4 4 4 4 6 4 4 4 4 4 7 7 7 7 7 7 8 8 8 8 16 7 7 8 8 8 16 17 8 8 8 14 14 14 14 9 8 16<		14.							-	-:	227	22	<u>\$</u>	•
1,781 1,781 1,781 1,187	· · · · · · · · · · · · · · · · · · ·	3 6		:					-	- (33	_	8	••
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	10	3 8		<u>:</u>			:	: 			08		20	
137 25 162 1,781 176 1,97 1,781 176 1,97 20 4 24 20 4 24 31 280 280 280 645 280 280 645 645 281 6 645 281 6 645 282 14 14 283 14 14 284 14 14 284 15 14 384 15 14 440 300 14 440 300 10 284 3,066 10 440 3,066 10 440 3,066 10 164 10 10 164 3,066 10 164 3,066 10 164 3,066 10 164 3,066 10 164 3,066 10 164 3,066 10 164 3,066 3,066 164 3,066 3,066 164 3,066 3,066 164 3,066 3,066 <	and tar	83	:	:			:		: : :	-) 00	•	14	
1,781 1,781 1,781 1,781 1,646 29 37 34 34 29 34 34 34 29 34 34 34 14 8 8 16 580 65 65 64 67 16 67 16 67 16 64 77 482 1,25 77 482 1,25 70 24 440 390 77 24,508 3,066 27,564 8 80 24,508 3,066 27,564 94 10 10 10 10 10 10 10 10 10 10 10 10		æ į		:	:	:	<u>:</u>	: : :	: :	:	187	.6	169	
unght 20 1,781 176 1,967 20 20 37 26 20 20 37 28 30 37 36 58 8 8 8 58 65 16 58 65 16 58 65 16 67 16 645 67 16 645 70 24 14 70 24 14 70 24 14 8 8 8 8 8 8 9 10 30 10 10 30 10 24,508 3,066 10 10 30 10 30 30 10 30 30 10 30 30 10 30 30 10 30 30 10 30 30 10 30 30 10 30 30 10 30 30 10 30 30 10 30 30 10 30 30		137		:	:		:	•	: :	.	5	3	3 14	
1,781 176 1,781 176 1,781 1,781 29 37 1,581 1,581 1,581 1,14 1,14 1,14 1,14 1,14 1,14 1,14 1,14 1,14 1,14 1,14 1,14 1,14 1,14 1,14 1,14 1,14 1,14 1,14 1,14 1,14 1,14 1,14 1,14 1,14 1,14 1,14 1,14 1,14 1,14 1,14 1,14 1,14 1,14 1,14 2,1,14 2,1,14 2,1,14 2,1,14 2,1,14 2,1,14 2,1,14 2,1,14 2,1,14 2,1,14 2,1,14 2,1,14 2,1,14 2,1,14	E		:	:	:		:	:::	<u>:</u> :	:	:	100	100	14
ought 20 57 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		1.781		:	:		:	:	:	:	1,781	9/1	706,1	ž.
unght 20 4 2940 2940 1 14 8 8 16 16 1 280 65 64 16 16 1 14 14 14 14 14 1 14 14 14 14 14 2 1 146 170 22 146 170 2 2 1 146 170 23 14 170 2 2 1 146 170 23 14 170 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	to the second se	8				:		:	:	 :	ઢા	Š	8	•
uught 280 440<	re intended for cauting	i 8		-						_	ଛ	4	<u>4</u>	•
0ugnt 8 8 16 5 8 8 16 5 14 14 14 14 13 1 14 14 14 14 15 6 645 645 6 7 15 11 14 14 14 14 14 14 15 24 146 23 23 23 440 300 53 1255 102 77 24 440 300 740 740 76 440 300 740 740 740 84 306 83,656 87,508 87,508 87,508 17,564 76 440 300 80 77,40 740 84 34 10,126 83,529 13 76 440 34 34 34 34 84 34 34 34 34 34	:	3		:							-	80	98 83	
5 6 5 6 14 1	ಕ	:		:	:		:	: : :	: -	 :	οx	œ	16	
tenumersked 777 482 536 6,934 14,10 10,126 6,934 16,10 10,126 16,934 16,10 10,126 16,10 10,126 16,10 10,126 16,10 10,126 16,10 10,126 16,10 10,126 16,10 10,126 10,126 11,10 10,126 11,10 10,10	ls, all kinds	×C :	: xo	:		:	:	: :	<u>:</u> :	:	10	,	15	
14 14 15 15 16 16 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	de	2	:	:		:	:	:	: :	:	7	:	. 4	
580 65 67 15 67 15 82 146 28 146 28 146 28 146 28 146 28 146 29 146 20 148 30 1255 440 300 70 24,508 3,056 3,056 16,469 10,126 6,934 10,126 83 34 10 10 10 10 10 10 10 30 10 10 10 3	B. B. B.	14.	:	:	•	: : :	:	: :- :	<u>:</u> :	:	7 6	:	16	
best books in vessels. 580 65 15 15 17 18 82 14 14 14 14 14 11 14 14		31	:	•	:	:	:	:	:	<u>:</u>	: S		645	
1		286	.:	:		:	:	:	:	•	<u> </u>	3 =	3	5
nerchandise not enumerated 773 482 1.255 2.25 1.255 2.25 2.25 1.255 2.25 2.2	its heer &c	29	15	:	:	:	:	:	:	:	ŏ'	3	8-	
t enumerated 773 482 234 146 170 23 23 24 146 170 23 24 146 170 23 24 146 170 23 24 146 170 23 24 146 170 23 24 146 170 24 24,508 3,056 27,564 24,508 3,056 27,564 340 10,126 6,934 34 34 34 34 34 34 34 34 34 34 34 34 3			•	:	:	:	:	:	:	:	-	:	-	
t enumerated 7773 482 1,255 1,		-	:	:		:	:	: :	:	<u>:</u> ::	:	:	· · · · · · · · · · · · · · · · · · ·	:
t enumerated 773 482 23 146 23 23 25 24 25 25 25 25 25 25 25 25 25 25 25 25 25		14	:	:	:	:	:	:	:	:	41	:	*	
t enumerated 773 482 1255				:	:	:	:	:	:	:		•	•	:
t enumerated 773 482 1,255 1,2	too	24	146	-		:	:	:	:	 :	35	146	28	
t enumerated 773 482 1,255 6 6 934		8					-	:	:	:	3	:	3	
t enumerated 773 482 1,255 50 50 50 50 50 50 50 50 50 50 50 50 5	ite lead		:	-					-:		31	:	,	
t enumerated 773 482 1,255 53 73 75 54 50 53 77 55 54 50 55 55 55 55 55 55 55 55 55 55 55 55	ting grant and a second	5 -	:	:	:		:				_	1C	9	
t enumerasked (7.13 482 73 73 73 75 75 75 75 75 75 75 75 75 75 75 75 75	[c	1	: ō g	:		:	:	<u>:</u>	: - :	:	773	482	255	14
24 300 775 27 102 24,508 3,056 3,056 27,564 16,469 10,126 6,934 33,629 1,0126 10 34 34 34 34 34 34	other goods and merchandise not enumerated	(13	482	:	:	:	:	<u>:</u> :-	: :	:	8	53	2	
75 27 75 27 70 24 440 300 740 300 740 300 7740 3		3	: ??	:		:	:	:	:	-	3 6	3 &	2	
440 300 740 24,508 3,056 27,564 16,469 10,126 6,934 10 10 10 34,508 10 33,529 10 34 34 34	rels empty	15	27	:	:	:::::::::::::::::::::::::::::::::::::::	:	:	<u>:</u> :	-	3	7	701	
24,440 300 27,756 3,056 27,756 3,056 27,756 3,056 27,756 3,056 27,756 3,056 27,756 3,056 27,756 3,056 27,756 3,056 27,756 3,056 27,756 3,056 27,756 3,056 3,	+ Iranos	-		:		:::	:	:	: - :	<u>:</u> ::	::			:
24,508 3,056 27,564 27,564 10,126 6,934 10,126 10,126 33,529 1, wessels, 34 34 34	th Alloco.	4	300	-	:	:	-	<u>:</u>	:	<u>:</u>	440	200	£ 1	٦!
7,500 10,126 6,934 10,126 83,529 1, 16,469 10,126 33,529 1, 34 essels, 34	200	94 508	3 056					-		- :	24,508	3,006	27,564	4
16,469 10,126 6,934 23,403 10,126 33,529 1, 10,126 33,529 1, 34 34 34	swood, in vessels	77,000	2006	:	:	:			_			-		:
16,469 10,126 6,934 23,403 10,126 33,529 1, 10 10 10 10 10 10 10 10 10 10 10 10 10	lo do rafts	<u>.</u>	:	:		:	:	<u>:</u> :	<u>:</u> :	<u>:</u> :	<u>-</u>		_	
16,469 10,126 6,934 23,403 10,126 33,529 1, 10 10 10 10 10 10 10 10 10 10 10 10 10			:	:	:	:		: -	<u>:</u> <u>:</u> :	· :	:	: :		
Vessels. 16,469 10,126 6,934	Doles	:	:		:	:	:	: -	:	<u>.</u>	607 66	10.108	22 500	-
10 10 10 10 34 vessels. 34	lor court in vegaels	16,469	10,126	6.934		:	:	-	<u>:</u>	:	?,±05	0,170	6,00	3,
Verseels. 94.	Illust, samily ill vessels		=					-:	:	<u>:</u>	:::	2	3	
Vessels.		:	:	:	:	:	_	: 			-	25	\$	•
	•		1								:			

123

firewood, free.....

88888

passengers.

Total tolls on vessel.....

æ.

285

No. 15.—General Statement showing the Quantity of each Article transported, &c.—Concluded.

ARTICLES.	Fr. Cans t Cans Por	From Canadian to Canadian Ports.	Fr. Cana t United Por	From Canadian to United States Ports.	Fr United t United Po	From United States to United States Ports.	Fr Cans t United Pol	From Canadian to United States Ports.	Tons.	ž	Total Tons.	Amount of Toll.
	Up.	Down	Up.	Down.	n L	Up. Down.	Up.	Down.	Up.	Down.		
Railway ties, in vessels. do do rafts Saw logs Shingles. Bolit posts and fence rails, in vessels do do do do	5,365 815 61 77 5	66 187 61							5,365 815 61 77 77	66 187 61	5,431 815 248 138 14	571 27 571 27 86 69 6 69 22 19 22 19
mber, square, in vessels do do rafts verses oodenware and wood partly manufactured	495 83 7	20 14 16									515 97	21.77 8.26 25.55
Total freight paying tolls. Z Coal, free, per Order in Council. F Firewood do do do Skone, free, for canal construction. Z Chemical ore, free, having paid full tolls on Welland Canal.	57,570 4,275 4,380 350	27,988	6,934						64,504 4,275 4,380 350	22	92,492 4,275 4,380 350	3,677 93
Grand total freight.	66,575	8	6,934						73,509	28.542	102,051	:

Total revenue, exclusive of hydraulic rents 6,082 B. H. TEAKLES,

Chief Clerk, Canals Revenue.

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th September, 1892.

APPENDIX A—Continued—CANAIS.

		;		F		F					
ARTICLES.	From Canadian to Canadian Ports.	From Canadian to United States Ports.	lian States ts.	From United States to United States Ports.	m States States	From United State to Canadian Ports.	From United States to Canadian Ports.	Tons.	js:	Total Tons.	Amount of Tolls.
Up	. Down.	Up.	Up, Down.	Up.	Down.	Up.	Down.	Up.	Down.		
			1							_	ects.
	20 636 1,839 68 390 85 300	: :						1,839 88,8	95 95 39 39 39 39 39	1,907 1,907	6 19 55 19 07 10 05
V Cost Lumber P Other agricultural products								2,376 3,945 1,461	1,044 5,597 509	3,420 9,542 1,970	2835 825
folls.	9,861 33,244	:						9,861	33,244	43,105	431 05
	-	Tolls on vesselsOther receipts	essels								1,885 98 3 28

B. H. TEAKLES, Chief Clerk, Canals Revenue A. 1893

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th September, 1892.

No. 17.—General Statement showing the Quantity of each Article transported on the Trent Valley Canals and the Amount of Revenue collected during the Fiscal Year ended 30th June, 1892. APPENDIX A-Continued-CANALS.

	From Canadia	From	From Canadian	om disn	Fr United	From United States		rom 1 States	E			
Arteles.	to Canadian Ports.	dian ts.	United Por	to United States Ports.	United Por	to United States Ports.		Canadian Ports.) 	Tons.	Total Tons.	Amount of Tolls.
	Up.	Down.	Up	Down.	Up.	Down.	Up.	Down.	Up.	Down.		
												s cts.
and pearlral products not enumerated,												
tto do implemente do animas. Barley Bricks Bricks		7									, t-	
Brinstone Cement and water lime Clay, lime and sand												
Coal. Corn. Cattle												
are												
Fish Flax and hemp Flour Furniture Gypsum Glass, all kinds									8 : : :		8	0 52
Hasy, pressed Hasy Horses Horses Hides and skins, horns and hoofs												
Iron, railway do pig. , do all other												

Mool of kinds									: : : : : :			
Meats, other than pork									:			
									<u>:</u> :			
:	:	:		:		:	:	:	-	: : :	:	:
	:	:		:								
Oaks										:	:	:
		:		:		:	:	· · ·	:	:	:	
Реаве	:	:	:	:	<u></u> -	:	:	:	:	: :	:	
Potatoes		:	:	:	:	:	:	:	:			
Fork	.,		:	:	:							
Falls.										· -	:	:
				-:	:	:	:	: : :		:	:	:
:		:	-:	:	:	:	:	:	:	: :-	:::::::::::::::::::::::::::::::::::::::	:
Rosin	: ::::	:	:	:	:	:	:	:	:	: :	:	
		:	:	:	:	:	:					
Stone intended for cutting		:		:	:	:						
work suitable for cutting, unwrought								:	:	: ::	:	: : :
Seeds, all kinds		:		:	:	:		:	:	: :	:	:
				:	:	:	:	:	:			
										•	:	:
						:	•	:	:	:	:	:
	:	:	:	:		:	:	:	:	: :	:	
	•:	:	:	:	:	:		:	:	:		
:		:	:									
								:	:	:		
Wheat					· :	:	:	:		: :-	:	
:		:	:	:	:	:	:	:		-		
All other goods and merchandise not enumerated.	57	77	:	- - -	:			:	in 6	27	\$ & &	4 C
		:	:		:				•	•	3	
Bost knees.												0 7 0 7
:	10.01	1,127	:	:	:	:	:	:	19.91	1,12	14.204	14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5
:	C16,21	1,269							:	· · · · · · · · · · · · · · · · · · ·		
Hoops			-			- - - - -	:		· · ·	<u>:</u>	-	
	ŀ	: L			<u>.</u>	:	:	<u>:</u>	: [:	15 63
Lumber, sawn, in vessels do rafts	1991	42				: :			160		42 202	3 60
h poles, in	-	:	-			:			: :	: ::	:	
THE TABLE DOICES, III VESSCIS		:										

No. 17.—General Statement showing the Quantity of each Article transported, &c.—Concluded.

 Amount of Tolls.		2 39 7 46 25 54	14 83	0 75 15 38 4 50	264 09	323 10 95 65 72 0.	Į Ž
Total Tons.		115 180 3,214	171	1,233	21,958		:
<u>z</u>	Down.	125	6:	1,143	4,241		:
Toms.	Up.	115	162		17,717		:
From United States to Canadian Ports.	Down.						nic rein
Fr United to Cana Por	Up.						n nyaran
From United States to United States Ports.	Down.						Local revenue exclusive of hydraunc rent
Fr United United Po	Up.					ressels	revenue e
From Canadian to United States Ports.	Down.					Total tolls on vessels do passengers Other receipts	TOM
Fr Cans t United Po	Up.				:	Total tolls on v do lother receipts	
From Canadian to Canadian Ports.	Down.	125	:6 : ::	1,143	4,241		
Fr Cans t Cans Po	Up.	115 170 3,089	162	 8.8	17,717		
- ARTICLES.		Railways ties, in vessels do Saw logs. Staves and headings, barrel	A Staves, salt barrel. A Shingles Split posts and fence rails, in vessels.	Timber, square, in vessels rafts. Traverses Z Woodenware and wood partly manufactured.	Total freight paying tolls		

B. H. TEAKLES, Chief Clerk, Canals Revenue.

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th September, 1892.

APPENDIX A—Continued—CANALS.

No. 18,—General Statement showing the Quantity of each Article transported on the Murray Canal and the Amount of Revenue collected during the Fiscal Year ended 30th June, 1892.

Amount of Tolls,		ets.	3 03 5 12	0 35 18 04	0 04 1 90	: 88 0 0 0 10	0 05 0 05 0 12	0 18 2 41 0 32	0 98 0 02 3 75	0.82
Total Tons.			158 265	12 961	101	1,559	12619	93		£3
ns.	Down.		255	565	67	1,559		F	173	. —
Tons.	Up.			10	101		11 2 2 9		37	42
From United States to Canadian Ports.	Down.					186				
Fr United t Can	ď.									
From United States to United States Ports.	Down.									
Fr United United Po	Up.									
From Canadian to United States Ports.	Down.									
From Canadia to to United St. Ports.	Up.			360				10		
From Canadian to Canadian Ports.	Down.			565	63	572		**************************************		:=
From Canadian to Canadian Ports.	Up.		 104 10		101	: : m m	11	72	34 1 150	42
ARTICLES.			Ashes, pot and pearl. Apples Agricultural products not enumerated, vegetable	do do animal do implements Barley	E Bricks P Bones I Brinstone I Cement and water lime	Clay, lime and sand Coal Coal Cattle	Cotton, raw Crockery and earthenware Crockery and dye stuffs Fish.	Flax and hemp. Flour. Flour. Gypsum. Gypsum.	Hogs. Horses Hides and skins, horns and hoofs. Ion, railway.	do pigdo all other

No. 18.—General Statement showing the Quantity of each Article transported, &c.—Concluded.

ARTICLES.	Fron Canadian to Canadian Ports.	lian lian S.	From Canadian to United State Ports.	From Canadian to United States Ports.	United United True True True True True True True True	From United States to United States Ports.	Fron United S to Canad Ports	From United States to Canadian Ports.	Tons.	ns.	Total Tons.	Amount of Tolls.
	Up.	Down.	up.	Down.	Up.	Down.	Up.	Down.	ďp.	Down.		
								1				<u> </u>
Kryolite, chemical ore and other ore, except iron.	===			: :		: :		: :	:-			<u>:</u>
Meal, all kinds	:	:	:	:	:	:	:	:	:			:
Meacs, other than pork	æ								. oo		œ	:
Manilla			:	:	:	:		:	44	:		<u>:</u>
Molasses	‡ &	<u>.</u> :	:	:			12		E 3		8	
Oats	72	11	: :				:		17	17	ਲ	
Oil, in barrels.	18	57	:	:	:	:	:	:	81	22	2	
	3	2	:	:	:		12		- 98	641	102	
Potatoes	į t-	;			:		:		7	:		
	6)C	:	:		:				<u>.</u>		:
Pitch and tar	1											_:
Rags	202	: :							202		202	:
			:			:	:	: 8	:			<u>:</u>
Salt Stone intended for cutting	7	88 :	: :					§ :	-	1c	7G	:
do wrought	- 12	S	:	:	:	:			75		1.52	<u>:</u>
Seeds, all kinds	11067	152							:	152	152	
Sheep	25	:	:	:		:	:::::::::::::::::::::::::::::::::::::::	:	10	:	10	
:	<u>.</u>	:	:	:	:						3	
Sugar	110			. :					110		110	:
&c	<u>∞</u>		:	:	:::::::::::::::::::::::::::::::::::::::	:			э́о ¯	:	ж с	
Tobacco, raw.	:	20	:	:::::::::::::::::::::::::::::::::::::::		:	:	:		7	N	
Tin						- - -						_
	:8	- 300	:	:		:	:	:	06			:
Wheat	2	8		:	:			:::::::::::::::::::::::::::::::::::::::	8 9	200	77.	_

Bark Bark Barkels empty Barrels, empty Boat knees 150 192 Filoats 150 192 Firewood, in vessels 80 463 309 Hoops 10 10 10 Hoops 10 10 10 10 Masts, spars, and telegraph poles, in vessels 27 27 10 <	88. 88	862 852 27 27 27 27 27 27 27 27 27 27 27 27 27
· · · · · · · · · · · · · · · · · · ·		
· · · · · · · · · · · · · · · · · · ·		
S		
S	<u>:::`:::::::::::::::::::::::::::::::::</u>	
· · · · · · · · · · · · · · · · · · ·		
6		
	,	
	· , · · · · · · · · · · · · ·	
	,	
	: : : : :	:
	5	7
ils, in vessels. rafts els 2 2005		•
els		
20.80%		908 9 908
50		0,000
	-	1
]
Total freight paying tolls	4,861	7,657 12,518
Total tolls on vessels do nassengers		
		1

CANAL STATISTICS.

B. H. TEAKLES, Chief Clerk, Canals Revenue.

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th September, 1892.

APPENDIX A---

No. 19.—Statement of Traffic on the undermentioned Canals, and the

•	Welland	l Canal.	St. Lawren	ce Canals.	Chambly	Canal.
Articles.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
Class No. 1.		\$ cts.		\$ cts.		\$ cts
Canadian vessels, steam Jnited States vessels, steam Zanadian vessels, sail United States vessels, sail	370,883 470,308 192,981 108,348	4,150 94 7,062 68 3,893 09 2,405 72	21,030 1,165,469	3,888 03 166 50 12,546 61 516 97	68,558 378 44,488 115,086	226 70 5 29 580 30 1,491 20
Total, Class No. 1	1,142,520	17,512 43	1,924,765	17,118 11	228,510	2,303 6
Class No. 2.	No.		No.		No.	
Passengers	33,996	429 81	64,671	3,036 55	4,298	75 1
Class No. 3.	Tons.		Tons.		Tons.	
Bricks	225 66	31 01 9 90	291	526 80 27 86	666	38 7
Cement and water lime	50 70 305	6 32 5 25 40 56	31,418	675 56 1,434 82 95 41	31 4,747	3 1 471 8
Sypsum	127	19 05	1,920 3,324	29 94 496 38		
do pigdo all otherSteel	499 993 8,420	99 80 172 02 1,263 00	13,915	493 08 756 54 116 98	25	0 8
Salt Stone, for cutting	1,804 3,774	354 70 754 80	7,009 4,476	898 23 360 81	124 1,012	5 1 101 2
ApplesBarley	1,211 8,108 171,892	32 18 1,621 60 34,378 40	21,202	727 82 548 23 889 92	958 842	61 8
Cotton, raw		2,275 98	1 1 200	0 04		
Hay, pressed	121 29,447	19 20 5,889 30	1,434	594 43 66 62 39 04		9 138 (
Oil cake Oats Pease	51,346 764	10,269 20 128 80		1 10 730 62 1,527 11	1,875 1,513	94 8 50
Potatoes Rye Seeds, all kinds	68,566	13,713 20	148 2,072	10 09 87 71	3	0 :
l'obacco, raw	219,727	51 40 43,319 99	8	0 85 2,182 37	• • • • • • • • • •	
All other agricultural products, vegetable. Bones	453	29 00		178 07 16 59	1 341	0 34
Cattle Hogs	1	0 0	134 390 11	28 25	60	
Hides and skins, horns and hoofs Horses Lard and lard oil			422	27 56	9	0
Meats, other than pork	80 73	16 00	35	3 99 58 44		
Sheep	119	18 70	100 26	7 82 2 44		
Wool All other agricultural products, animal.	1,077	215 10	1 100			
Total, Class No. 3	584,758	114,766 59	252,225	14,257 39	15,762	1,062

Continued—CANALS.

Amount of Tolls collected during the Fiscal Year ended 30th June, 1892.

Murray	Canal.	Ottawa	Canals.	Rideau	Canal.	St. Peter	's Canal.	Trent Vall	ey Canals.
Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
`	\$ cts.		\$ cts.		\$ cts.		\$ ets.		\$ cts.
139,696 168 11,345 92	209 76 0 50 43 58 2 00	163,388 186 158,129 24,817	656 17 2 29 - 2,200 92 573 55	84,809 626 81,735 12,831	768 38 15 08 831 78 183 51	31,556 62,743	631 12 1,254 86	28	229 87 0 75 98 48
151,301	255 84	346,520	3,432 93	180,001	1,798 75	94,299	1,885 98	53,776	329 10
No.	150 05	No.	150.05	No.	,	No.		No.	05.05
14,939	179 87	12,426	158 65	5,958	140 42			10,374	95 65
Tons.		Tons.		Tons.		Tons.		Tons.	
·····i	0 02			44	1 26			7	0 68
101 6	$\cdots \frac{1}{0} \frac{90}{12}$	$7,702 \\ 7$	1 97 211 49 0 66	224 92 83	6 01 2 16 2 16		6 56		
	• • • • • • •			10	0 24				
43	0 82	66	2 60	75 419	2 25 11 59				
52	0 99	· 17	0 50 1 39	31 1,957	1 04 55 14				
158 961 3	3 03 18 04 0 06	44 150 4	1 93 11 22 0 39	66 113 375 28	3 00 3 88 8 94 0 75				•••••
9	0 18	77 208 27	6 60 19 17 2 47	576 510 35	14 70 12 05 0 83	1,907		25	0 25
1 34	0 02 0 64	2,901	221 38	3 910	0 11 26 28				
701	13 17 0 14	3,141 654	214 62 57 14	149 293	4 57 7 97				
202	3 80	48	4 42	162	4 11				
152 2	2 86 0 04	33	1	16 1	0 51 0 03				
410	7 71	24	2 19	170	5 03	· · · · · · · · · · · · · · · · · · ·			
265 2	5 12 0 04	441 8	42 02 0 80	374 22	17 78 0 88		95 42	i	
5	0 10	760 9	50 54 0 72	7	0 20				
1	0 02	16	1 56	19	0 73	1			
49 1	0 98 0 02	197	9 87	49	0 50 1 36		·		
•••••	• • • • • • •	55 43	2.04	20 284	0 55 7 44				
10	0 02	411 29	31 00 2 52	5	0 14				
	• • • • • • • • • • • • • • • • • • • •	7	31 00 2 52 0 70 120 29	6 462	0 24 15 16				
3,176		1,449	([
9. I76i	59 84	18,563	1,030 23	7,604	219 59	12,105	121 05	32	0 93

APPENDIX A-

No. 19.—STATEMENT of the Traffic on the undermentioned

Approxima	Welland	Canal.	St. Lawren	ce Canals.	Chambly	y Canal.
Articles.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
Class No. 4.		\$ ets.		\$ ets.		\$ ct/s.
Ashes, pot and pearl	36	7 20	103	19 69		
Agricultural implements	1	0 15		13 92		
Crockery and earthenware			339	64 97	15	1 50
Dye woods and dye stuffs			89	7 30		6 20
furniture	17	2 72		171 69		0 58
Glass, all kinds	36	5 50		84 49	••••	• • • • • • • • •
Marble	3,745	561 75		2 94		• • • • • • •
Manilla Molasses	179 40	26 85 7 90		82 55	120	12 00
Nails.	75	4 95		478 3 5		12 00
Oil, in barrels	55	7 65		142 67	35	3 4
Paint	22	3 30		71 04		0 40
Pitch and tar	49	7 35		31 43		11 80
Rags	60	12 00		36 40		
Rosin			1,916	96 94	2,042	204 20
Soda ash	42	6 30		137 81	149	9, 9;
Sugar	393	22 30		742 28		
Stone, wrought	2	0 30		18 75		102 43
<u> </u>	258	38 31		100 56		
Turpentine		• • • • • • • • •	89	5 81	42	4 20
White lead			156	30 63		
Whiting Whiskey and all other spirits	231	45 42	354 1.158	71 50 216 40		
Merchandise, not enumerated	46,653	6,899 81	11,039	1,637 48	3,851	288 3
Total, Class No. 4	51,894	7,659 76	28,326	4,265 60	7,713	645 08
Class No. 5.						
BarkBarrels, empty	109	22 10	13 255	375 34 31		1 6-
Boat knees	40 9,321	1 75 431 49		74 32 315 88	3 24,629	810 08
do in rafts	70,122	12,536 95		1,429 57	97,012	5,749 7
do in rafts			4	0 15		5 0
Hoops						
Hoops	241	13 78	526	10 49	1,919	153 1
Railway ties, in vessels. do in rafts Masts, spars and telegraph poles, in vessels	241	13 78				
Railway ties, in vessels	241		19,068	476 70		
Railway ties, in vessels	241 25,752	3,859 56	19,068	476 70 42 30		
Railway ties, in vessels. do in rafts Masts, spars and telegraph poles, in vessels do do in rafts Square timber, in vessels do in rafts Woodenware and wood partly manufac-	241 25,752 379	3,859 56 15 58	19,068 2,527 8,242	476 70 42 30 218 00		
Railway ties, in vessels. do in rafts Masts, spars and telegraph poles, in vessels do do in rafts Square timber, in vessels do in rafts Woodenware and wood partly manufactured.	241 25,752 25,752 379	3,859 56 15 58 6 00	19,068 2,527 8,242	476 70 42 30 218 00 16 80		
Railway ties, in vessels. do in rafts Masts, spars and telegraph poles, in vessels do in rafts Square timber, in vessels do in rafts Woodenware and wood partly manufactured Shingles	241 25,752 379	3,859 56 15 58	19,068 2,527 8,242	476 70 42 30 218 00		
Railway ties, in vessels. do in rafts Masts, spars and telegraph poles, in vessels do do in rafts. Square timber, in vessels do in rafts Woodenware and wood partly manufactured Shingles Split posts and fence rails, in vessels	241 25,752 25,752 379	3,859 56 15 58 6 00	19,068 2,527 8,242	476 70 42 30 218 00 16 80		
Railway ties, in vessels. do in rafts Masts, spars and telegraph poles, in vessels do do in rafts Square timber, in vessels do in rafts Woodenware and wood partly manufactured Shingles. Split posts and fence rails, in vessels do do in rafts.	25,752 379 15	3,859 56 15 58 6 00 7 81	19,068 2,527 8,242 50	476 70 42 30 218 00 16 80 1 25		
Railway ties, in vessels. do in rafts do in rafts Masts, spars and telegraph poles, in vessels do in rafts Square timber, in vessels do in rafts Woodenware and wood partly manufactured Shingles. Split posts and fence rails, in vessels do do in rafts. Saw logs.	241 25,752 25,752 379	3,859 56 15 58 6 00	19,068 2,527 8,242 50 10	476 70 42 30 218 00 16 80		
Railway ties, in vessels. do in rafts Masts, spars and telegraph poles, in vessels do do in rafts. Square timber, in vessels do in rafts Woodenware and wood partly manufactured Shingles. Split posts and fence rails, in vessels do do in rafts. Saw logs. Staves and headings, barrel do do pipe	25,752 379 15 19	3,859 56 15 58 6 00 7 81	19,068 2,527 8,242 50 10	476 70 42 30 218 00 16 80 1 25		
Railway ties, in vessels. do in rafts Masts, spars and telegraph poles, in vessels do in rafts Square timber, in vessels do in rafts Woodenware and wood partly manufactured Shingles. Split posts and fence rails, in vessels do do in rafts. Saw logs. Staves and headings, barrel do do West India	25,752 379 15 19	3,859 56 15 58 6 00 7 81 128 64 12 40	19,068 2,527 8,242 50 10	476 70 42 30 218 00 16 80 1 25		
Railway ties, in vessels. do in rafts Masts, spars and telegraph poles, in vessels do do in rafts. Square timber, in vessels do in rafts Woodenware and wood partly manufactured Shingles. Split posts and fence rails, in vessels do do in rafts. Saw logs. Staves and headings, barrel do do pipe do do West India do do salt barrel	25,752 379 15 19 3,190 155 96	3,859 56 15 58 6 00 7 81 	19,068 2,527 8,242 50 10 	476 70 42 30 218 00 16 80 1 25		
Railway ties, in vessels. do in rafts Masts, spars and telegraph poles, in vessels do do in rafts Square timber, in vessels do in rafts Woodenware and wood partly manufactured Shingles Split posts and fence rails, in vessels do do in rafts. Staves and headings, barrel do do pipe do do West India do do salt barrel Traverses	25,752 379 15 19 3,190 155 96 132	3,859 56 15 58 6 00 7 81 128 64 12 40 17 60 24 68	19,068 2,527 8,242 50 10	476 70 42 30 218 00 16 80 1 25		
Railway ties, in vessels. do in rafts Masts, spars and telegraph poles, in vessels do in rafts. Square timber, in vessels do in rafts Woodenware and wood partly manufactured. Shingles. Split posts and fence rails, in vessels do do in rafts. Saw logs. Staves and headings, barrel do do pipe do do West India do do salt barrel	25,752 379 15 19 3,190 155 96 132	3,859 56 15 58 6 00 7 81 128 64 12 40 17 60 24 68	19,068 2,527 8,242 50 10 	476 70 42 30 218 00 16 80 1 25		
Railway ties, in vessels. do in rafts Masts, spars and telegraph poles, in vessels do do in rafts. Square timber, in vessels do in rafts Woodenware and wood partly manufactured Shingles Split posts and fence rails, in vessels do do in rafts Saw logs. Staves and headings, barrel do do pipe do do West India do do salt barrel Traverses	25,752 379 15 19 3,190 155 96 132	3,859 56 15 58 6 00 7 81 128 64 12 40 17 60 24 68	19,068 2,527 8,242 50 10 	476 70 42 30 218 00 16 80 1 25		

Continued—CANALS.

Canals, and the Amount of Tolls collected, &c.-Continued.

Murray	Canal.	Ottawa (Canals.	Rideau (Canal.	St. Peter	's Canal.	Trent Valle	ey Canals.
Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
	\$ cts.		\$ cts.		\$ cts.		\$ cts.		\$ cts.
12 11 2 93 12 8	0 35 0 28 0 05 2 41 0 32 0 21	20 13 34 1	3 80 2 05 4 18 0 19	22 152 73 24 39 57 6	2 64 17 56 7 95 2 16 4 10 5 67 0 54				S
44 94 75 7	1 10 2 88 1 92 0 18	, 24 11 25 1	1 42 0 75 2 70 0 19	80 311 452 26 20	7 36 28 35 42 53 2 57 1 86				
13 110	0 33 2 79	53 3 2	0 96 10 84 0 29 0 15	14 5 14 645 24 14	1 54 0 45 1 85 63 00 2 91 1 25				
43 8 1,028	1 08 0 21 25 57	1 1 21 386		23 34 82 1,255	2 04 3 00 7 43 142 07		19 70		4 02
1,561	39 71	602	79 58	3,372	348 83	1,970	19 70	134	4 02
		32 1	0 03	73 102 740	2 95 7 57	'			0 94
342 852	2 85 9 60	30,480 40,472 120 413,790 95	$\begin{array}{c} 1,606 \ 47 \\ 120 \\ 30,707 \ 22 \\ 1 \ 11 \end{array}$	27,564 33,529	479 90 1,337 59 0 38	3,420	34 20	. 14,204 868 202	145 86 15 63
******		4 435		5,431 815				. 115	
3,305	41 25	2,804 3,080	76 30	34 515				. 171	0.75
1			517 31 1 72	23 138 14		9		171	14 83
27	30	17,838	410 54	248	6 00	0		3,214	25 54
••••••		220	0 55	97	8 20	6		225	4 50
4,531	54 26	510,051	33,780 03	69,333	2,563 2	3,420	34 2	21,792	259 1

APPENDIX A-

No. 19.—Statement of the Traffic on the undermentioned

Articles.	Welland	Canal.	St. Lawren	ce Canals.	Chambly	Canal.
ARTICLES.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
Special Class.		\$ cts.		\$ cts.		\$ cts
Coal	181,075 2,327	36,215 00 116 35			85,903	
Stone, unwrought, not suitable for cutting	203 350		9,138			42 6
Total, Special Class	183,955	36,361 52	182,064	23,945 42	86,329	8,429 2
Total freight and tolls Timber and other wood, free Wheat, corn, flour, iron, salt, coal, &c.,	930,178 263	193,808 45 12 00		65,604 51 668 64		19,249 9
&c., free	14,312	2,092 40	413,691	12,625 94	345	30 3
vessels not included	944,753	195,912 85	995,051	78,899 09	233,828	19,280 2

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th September, 1892.

Continued-CANALS.

Canals, and the Amount of Tolls collected, &c .- Concluded.

Murray	Canal.	Ottawa	Canals.	Rideau	Canal.	St. Peter	's Canal.	Trent Val	ley Canals.
Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
	\$ cts.		\$ cts.		\$ cts.		* cts.		\$ cts.
1,559	28 33			9,319 2,584	410 79 128 90	25,610			
1,541	15 41			280	6 61			•••••	•••••
150	3 75								
3,250	47 49	1,483	65 53	12,183	546 30	25,610	256 10		
12,518		530,699 32,933		92,492 4,380	5,617 10 73 00	43,105	2,317 03	21,958	688 84
				5,179	149 99				
12,518	637 01	563,632	39,010 51	102,051	5,840 09	43,105	2,317 03	21,958	688 84

B. H. TEAKLES, Chief Clerk, Canals Revenue.

APPENDIX A-

No. 20.—Summary Statement of Traffic on the undermentioned Canals during the of Property passed through and the

A	Welland	d Canal.	St. Lawren	nce Canals.	Chambl	ly Canal.
Articles.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
		\$ cts.		\$ cts.		\$ ets.
Vessels of all kinds	1,142,520	17,512 43	1,924,765	17,118 11	228,510	2,303 63
Passengers	No. 33,996	429 81	No. 64,671	3,036 55	No. 4,298	75 19
Forest, Produce of Wood.	TT	•	T.		m	
Bark	Tons.		Tons. 13	3 75	Tons.	
Boat knees	40		4,204	74 32	3	0 25
Firewood Free.	9,321	431 49	11,673	315 88	24,629	810 05
Hoops and hop poles Lumber, sawed Free.	70,122	12,536 95	42,389 3,738	1,429 72	97,075	5,754 70
Masts, spars, &c			19,068	476 70		
Railway ties		13 78 128 64	526 14,577	10 49 333 22	1,919	153 16
do Free.	263					
Staves, all kindsFree.	383	54 68	. 8 128	0 30		
Shingles	19	7 81	10	1 25	35	14 21
Split posts and rails Timber, square	26,131		10,769	260 30	• • • • • • • • • • • • • • • • • • •	
doFree. Traverses			1,960 9,376	24 40		
Total	109,710	17,050 24	118,439	2,930 33	123,661	6,732 37
Farm Stock.						
Cattle	1	0 02	390	28 25	60	2 00
Hogs	81	3 21	11 422	1 65 27 56	9	0 30
doFree. SheepFree.			1			<u></u> .
•	i	ļ	100	7 82	179	5 97
Total	82	3 23	924	65 28	248	8 27
_						
Bones		:	134	16 59	341	34 10
rawLard and lard cil		10 95 3 40	44 325	6 43 27 95		
do Free	16					
Meats other than pork	80	16 00	35 94	3 99	 	
Pork	73	14 60	659	58 44		
Tallow Wool	119	18 70 215 10	26 13	2 44 1 95	1	
do Free Agricultural products not enumer	2		·····			
ated, animal			1,199	172 89		
Total	1,457	278 75	2,529	290 68	341	34 10
			_,000	200	J	01 10

Continued—CANALS.

Fiscal Year ended 30th June, 1892, showing the Total Quantity of each Description Amount of Tolls collected thereon.

Murray	Canal.	Ottawa	Canals.	Rideau	Canal.	St. Pete	er's Canal.	Trent Valle	ey Canals.
Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
	\$ cts.		\$ cts.				\$ cts.		\$ cts.
151,301	255 84	346,520	3,432 93	180,001	1,798 75	94,299	1,885 98	53,776	329 10
No. 14,939	179 87	No. 12,426	158 65	No. 5,958	140_42	No.		No. 10,374	95 65
Tons.		Tons.		Tons.	2 95	Tons.		Tons.	0 94
		30,480	$\begin{array}{c} 0 & 03 \\ 323 & 75 \end{array}$	740	11 90			1,127	12 16
		15,020			479 90				·
342	2 85	40,592 3,180	1,607 67	27,564 4,380	419 90			14,204	145 86
852	9 60	413,885	30,708 33	33,539	1,337 97	3,420	34 20	1,070	19 23
· · · · · · · · · · · · · · · · · · ·		587 40	3 31	34	1 68			171	10 10
27	0 30	435 17,838	71 97 410 54	6,246 248	657 96 6 00			295 3,214	9 85 25 54
		11,986							
4	0 21	634	517 31	138	22 19			171	14 83
		4	1 72	14	2 51 21 77			j	16 13
3,305	41 25	5,884 2,160	129 94	515				1,283	
• • • • • • • • • • • • • • • • • • • •		220	0 55	97	8 26			225	4 50
4,530	54 21	542,950	33,775 53	73,588	2,553 09	3,420	34 20	21,792	259 14
5	0 10	760	50 54	7	0 20				
49	0 98	197	0 72 9 87	14	0 50				
10	0 02	411	31 00	5	0 14				
64	1 10	1,377	92 13	26	0 84				
								-	
2	0 04	8	0 80	22	0 88				
1	0 02	16	1 56	19	0 73				
	0 02		:••••• •	49	1 36	····			
• • • • • • • • • • • • • • • • • • •		55	5 27	20	0 55				
• • • • • • • • • • • • • • • • • • • •	•••••	43 29	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	284	7 44				
· · · · · · · · · · · · · · · · · · ·		7	0 70	6	0 24				
	' • • • • • • • • • • • • • • • • • • •								
		1,449	120 29	462	15 16				

APPENDIX A-

No. 20.—Summary Statement of Traffic on the undermentioned

A 1989-2019	Wellar	nd Canal.	St. Lawre	nce Canals.	Chaml	oly Canal.
Articles.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
Agricultural Products.		\$ ets.		\$ ets.		\$ cts
Agricultural products not enumer-					1	
ated, vegetable	453 29	29 00	2,427	178 07	1	0 10
Apples.	1,211	32 18	5,100	727 82	958	61 84
Barley	8,108 $171,892$	1,621 60 34,378 40	21,202 6,561	548 23 889 92	842	44 92
do Free			57,156	• • • • • • • • • • • • •		••••••
Clax and hemp	15,012	2,275 93	4,380	0 04 594 43	273	
do Free			3,357			9 10
Hay, pressed	$121 \\ 29,447$	19 20 5,889 30	1,434 739	66 62 39 04	3,103	138 06
do Free			18			
Manilla	179 51 ,34 6	26 85 10,269 20	21,277	790.60	1 075	
Pease	764	128 80	47,799	$73062 \\ 1,52711$	1,875 $1,513$	94 80 50 50
doFree	• • • • • • • • • •	••••	524			
tye	68,566	13,713 20	$\begin{array}{c} 148 \\ 2,072 \end{array}$	10 09 87 71	3	0 24
do Free eds, all kinds			67,335			
doFree	257	51 40	10,081	405 00		
obacco, raw:		10.010.00	$\bar{8}$	0 85	••••	
VheatFree		43,319 99	40,089 182,087	2,182 37		
Total	567,112	111,755 05	473,799	7,987 92	0 500	900 50
Manafactures.			110,100	1,561 32	8,568	399 56
shes, pot and pearl	36	7 20	103	19 69		
do Free gricultural implements	31	0 15	36 93	12 00		•••••
Sarrels, empty	109	22 10	255	13 92 34 31	18	1 64
doFree	225	31 01	$\frac{1}{12,903}$.	526 80		
do Free	315		12,505		666	38 70
ement and water lime do Free	50 2,939	6 32	4,949	675 56	31	3 10
rockery and earthenware	2,909	• • • • • • • • • • • • • • • • • • • •	469 . 339	64 97	15	1 50
doFree	141	0.70	1.105	,		,.,
doFree	17	2 72	1,107	171 69		0 58
lass, all kinds.	36	5 50	464	84 49		
doFree	$\begin{array}{c} 31 \\ 127 \end{array}$	19 05	$\frac{1}{3,324}$.	496 38	• • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·
do Free	3,028					
on, pig Free.	499 56	99 80	$\frac{3,706}{371}$	493 08	• • • • • • • • •	• • • • • • •
o all other	993	172 02	13,915	756 54	25	84
o doFree.	452 40	7 90	$egin{array}{ccc} 14 & . \ 849 & . \end{array}$	82 55	190	
ails	75	4 95	2,965	478 35	120	12 00
lo Free.	570 55	7 65	993		95	
Free.	41			142 67	35	3 49
il cake	22	2 20	12	1 10		*********
do Free.	28	3 30	506	71 04	4	40
tch and tar	49	7 35	365	31 43	118	11 80
lo doFree.	21		1,916	96 94	2,042	204 20
1	,	VAYS AND				40± 40

Continued—CANALS.

Canals, and the amount of Tolls collected thereon, &c.—Continued.

\$ cts. \$ cts.<	Canal	lle	Trent Val	8.	s Canals	er	St. Pete		Canal	Rideau		3.	Canals	Ottawa	d.	y Cans	Murra
266 5 12 441 42 02 374 17 78 9,542 95 42 156 3 03 44 1 93 113 3 88 3 0 06 4 0 39 28 0 75 9 0 18 77 6 60 576 14 70 1,907 19 07 25 0 208 19 17 510 12 06 27 2 47 35 0 83 208 19 17 510 12 06 27 2 47 35 0 83 27 2 47 36 0 83 27 2 47 36 0 83 20 13 80 910 26 28 797 14 664 2,801 221 38 910 2 2 86 33 2 76 16 0 51 152 2 86 33 2 76 16 0 51 2 0 04 4 17 2 19 170 5 03 2 0 35 13 3 3,712 107 43 11,449 114 49 25 0<	Tolls.		Tons.		Tolls.		Tons.	s.	Tol	Fons.		ls.	Toll	Tons.	3.	Toll	Tons.
156 3 03 44 1 98 113 3 88 <td< th=""><th>\$ ct</th><th>- -</th><th></th><th>ts.</th><th>\$ ct</th><th>- -</th><th></th><th>cts.</th><th>8</th><th></th><th></th><th>cts.</th><th>*</th><th></th><th>cts.</th><th>*</th><th></th></td<>	\$ ct	- -		ts.	\$ ct	- -		cts.	8			cts.	*		cts.	*	
1568 18 04 100 11 22 375 8 94		. .		2	95 4		9,542	78	17	374		02	42	441	12	5	265
208			• • • • • • • • • • • • • • • • • • • •					94	8	375		22	11	150	04	18	961
208	0 2		25	7	19 0		1,907	70·	14	576		60	6		18		·····9
701 13 17 3,141 214 62 149 4 57 27 0 14 654 57 14 298 7 97 202 3 80 48 4 42 162 4 11 152 2 86 33 2 76 16 0 51 2 0 04 1 1 0 03 170 5 03 2,904 54 79 7,752 586 31 3,712 107 43 11,449 114 49 25 0 20 3 80 22 2 64 <td></td> <td></td> <td>•••••</td> <td></td> <td></td> <td>. . : .</td> <td></td> <td>05</td> <td>12</td> <td>510</td> <td></td> <td>17</td> <td>19</td> <td>208</td> <td></td> <td></td> <td>••••••</td>			•••••			. . : .		05	12	510		17	19	208			••••••
202 3 80 48 4 42 162 4 11 <td< td=""><td>· · · · · · · · · · · · · · · · · · ·</td><td></td><td>· · · · · · · · · · · · · · · · · · ·</td><td></td><td>•••••</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		•••••												
152 2 86 33 2 76 16 0 51 2 0 04 24 2 19 170 5 03 2,904 54 79 7,752 586 31 3,712 107 43 11,449 114 49 25 0 29 3 80 22 2 64 2 64 2 64 2 7 57 2 8 7 57 2 8 7 57 2 8 7 57 2 8 7 7 57 2 8 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	• • • • • • •			• •										48			
410 7 71 24 2 19 170 5 03 <td< td=""><td>• • • • • •</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>ļ</td><td>76 </td><td></td><td>33</td><td></td><td> .</td><td>• • • • • •</td></td<>	• • • • • •										ļ	76 		33		.	• • • • • •
20 3 80 22 2 64 12 0 35 13 2 05 152 17 56 32 4 03 102 7 57 44 1 26 7 101 1 90 20 1 97 224 6 01 11 0 28 73 7 95 93 2 41 34 4 18 39 4 10 12 0 32 1 0 19 57 5 67 10 0 24 75 2 25 - 43 0 82 66 2 60 419 11 59 44 1 10 24 1 42 80 7 36 94 2 88 11 75 311 28 35 75 1 92 25 2 70 452 42 53 1 0 02 3 11 0 19 26 2 57 20 1 86 20 1 86	· · · · · · · · · · · · · · · · · · ·					: :					ļ.,	19	2	24			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 28	- -	25	9	114 4		11,449	43	107	3,712	_	31	586	7,752	79	54	2,904
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$								64	. 2	22		80	3	20		·	• • • • • •
101 1 90 20 1 97 224 6 01 <td< td=""><td></td><td></td><td></td><td></td><td></td><td>- 1</td><td>I.</td><td>56</td><td><u>.</u></td><td>152 102</td><td></td><td>05</td><td>·····2</td><td>13</td><td>35</td><td>o</td><td>12</td></td<>						- 1	I.	56	<u>.</u>	152 102		05	·····2	13	35	o	12
11 0 28 73' 7 95 93 2 41 34 4 18 39 4 10 12 0 32 1 0 19 57 5 67 10 0 24 75 2 25 .	0 68		7		•••••	: :		26	···· i				• • • • •		:	• • , • •	• • • • • • • • • • • • • • • • • • • •
93 2 41 34 4 18 39 4 10 12 0 32 1 0 19 57 5 67 10 0 24 75 2 25						: : :						97	i	20		· • • • · ·	• • • • • • • • •
		· .	••••••••••••••••••••••••••••••••••••••		· · · · · · · · · · · · · · · · · · ·	. .						18	4	34			••••
			••••••••••••••••••••••••••••••••••••••		• • • • • •			67	5	57		19	· · · · · · · · · · · · · · · · · · ·	i	32	ö	12
43 0 82 66 2 60 419 11 59 44 1 10 24 1 42 80 7 36 94 2 88 11 75 311 28 35 75 1 92 25 2 70 452 42 53 1 0 02 3 11 7 0 18 1 0 19 26 2 57 20 1 86		. .		• •	•••••	. .					ļ.,		· • • • • • • • • • • • • • • • • • • •			· · · · · ·	••••••
94 2 88 11 75 311 28 35 75 1 92 25 2 70 452 42 53 1 0 02 7 0 18 1 0 19 26 2 57 20 1 86		1	· · · · · · · · · · · · · · · · · · ·		••••••					· · · · · · ·		60	····· ₂	66	82	0	• 43
1 0 02 7 0 18 1 0 19 26 2 57 20 1 86	• • • • • • • • • • • • • • • • • • •				• • • • • • • • • • • • • • • • • • • •			35	28			42 75	i		10 88	1 2	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	• • • • • • • • • • • • • • • • • • •	-			••••	:							· · · · · · · · · · · ·				••• •••
	· · · · · · · · · · · · · · · · · · ·						• • • • • • • •	11 57	2	26		19	0		02 18	0	
5 0 45						•						, .				• • • • • •	••••••

APPENDIX A—No. 20.—Summary Statement of Traffic on the undermentioned

Articles.	Wella	nd Canal.	St. Lawre	ence Canals.	Chamb	ly Canal.
ARTICLES.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
Manufactures—Concluded.		\$ cts.		\$ cts.		\$ cts.
Soda ash	42	6 30	727	137 81	149	9 93
do Free.	324 231	45 42	1.158	216 40	•••	
do do Free.	330		21			
do	8,420 6	1,263 00	869	116 98		• • • • · · • • • • • · · · ·
doFree.	393	22 30	3,898	742 28		
doFree.	628					
do Free.	258 48	38 31	549	100 56		
Turpentine			89	5 81	42	4 20
White lead			. 156	30 63		
do Free. Whiting	6		354	71 50		••••
do Free.	50					
Woodenware	15	6 00	50	16 80		
Total	20,739	1,778 35	57,527	5,680 28	3,267	292 38
Merchandisc.						*
Brimstone, crude	66	9 90	291	27 86		
Clay, lime and sand	70	5 25	31,418	1,434 82	4,747	471 87
\mathbf{do} \mathbf{do} Free.	191	90 915 00	483	69 606 00	05 009	0.900.01
do Free.	181,075	36,215 00	171,721 99,139	23,696 02	85,903 345	8,386 61
Dye woods and dye stuffs			89	7 30	62	6 20
FishFree.	305 433	40 56	757	95 41		
Gypsum	400		1,920	29 94		
Ores, all kinds	2,327	116 35	1,205	60 25		
do do Free. Marble	544 3,745	561 75	1,629 15	2 94	·····	
Rags	60	12 00	186	36 40		
Salt	1,804	354 70	7,009	898 23	124	5 18
doFree. Stone, all kinds	3,367 3,979	767 77	13,980	568 71	2,711	246 25
do do			724	300 /1	2,111	240 20
All other goods and merchandise,	47 000	0.015 01		1 005 10	0.071	200
not enumerated	47,003 684	6,917 31	11,039 228	1,637 48	3,851	288 33
Total	245,653	45 000 50	ļ	00 405 90	07.749	0.404.44
10tal	240,003	45,000 59	341,833	28,495 36	97,743	9,404 44
Grand totals, passengers and ton-						

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th September 1892.

Continued-CANALS.

Canals, and the Amount of Tolls collected thereon, &c.—Concluded.

Murray	Canal.	Ottawa	Canals.	Rideau	Canal.	St. Pete	er's Canal.	Trent Vall	ey Canals.
Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
	\$ cts.		\$ cts.		* cts.		\$ ets.		\$ cts.
13	0 33			14	1 85] 		
····8	0 21	21	1 53	82	7 43		•••		
•••••									
• • • • • • • • • • • • • • • • • • • •		17	0 50	31	1 04				
110	2 79	53	10 84	645	63 00				
1	0 03	2	0 15	14	1 25		ļ		
• • • • • • • • • • • • • • • • • • • •					2 04				
43	1 08	1	0 19	23	2 04				• • • • • • •
		1	0 05	34	3 00				
i	0 05	· · · · · · · · · · · · · · · · · · ·	0 47	23	2 55				
669	16 67	314	37 61	2,980	232 23			7	0 68
							ļ -		
,	0.00							İ	
1	0 02	7,702	211 49	92	2 16				
1,559	28 33	648	23 78	9,319	410 79	25,610	256 10		
•• ••••				4,275	i				
2 6	0 05 0 12	···· ·· 7	0 66	· 24 83	2 16 2 16	456	6 56	· · · · · · · · · · · · · · · · · · ·	
••••••		· • • • • • • • • • • • • • • • • • • •							
••••	· · · · · · · · · · · · · · · · · · ·	835	41 75	2,584	128 90				
8	0 21			554	0 54				
····52	0 99	6	0 96	14	1 54				
		15	1 39	1,957	55 14				
1,541	15 41	3	0 29	370 350	12 52				
1,178	29 32	386	E0 00	1	149.07	1.070	10.70	104	4 02
-,110	29 32	360	50 29	1,255	142 07	1,970	19 70	134	4 02
4,347	74 45	9,602	330 61	20,883	757 98	28,236	282. 36	134	4 02
12,518	637 01	563,632	38,546 95	102,051	5,617 10	43,105	2,317 03	21,958	688 84

B. H. TEAKLES, Chief Clerk, Canals Revenue.

APPENDIX A-

No. 21.—STATEMENT showing the Amount of Tolls accrued

CANALS AND OFFICES.				1891.	
	July.	August.	September.	October.	November.
WELLAND CANAL.	\$ cts.	\$ cts.	\$ ets.	\$ cts.	\$ cts.
Chippewa.	3 79	11 84		6 02	5 30 10,127 52
Colborne	19,048 57 6,407 44	24,780 58 6,852 84		18,785 94 10,952 98	3,694 07
Dunnville	40 95	52 81		106 43	116 57
MaitlandRobinson	1 23 32 81	64 99	8 78	1 00 95 91	107 08
St. Catharines	87 48	109 84		65 47	41 48
Total Welland Canal	25,622 27	31,872 90	33,165 02	29,963 75	14,092 02
Sr. Lawrence Canals.					
Beauharnois	237 38	235 03		177 72	115 0
Cardinal	211 59	24 04		91 82	9 506 66
Cornwall Kingston	4,866 31 1,909 78	3,160 57 1,242 03		3,108 80 1,681 84	2,506 68 1,169 74
Lachine	330 29	273 96	457 25	451 94	270 5
Montreal	4,371 38	4,605 41	3,961 51	3,146 65	2,622 0
Total St. Lawrence Canals	11,926 73	9,541 04	8,410 52	8,658 77	6,732 6
CHAMBLY CANAL.	1 100 00	1 001 10	885 01	1 511 40	927 8
Chambly	1,196 00 1,875 41	1,281 19 1,401 14		1,511 46 1,353 25	864 5
St. Ours	79 38	60 16		178 20	160 8
Total Chambly Canal	3,150 79	2,742 49	2,180 91	2,042 91	1,893 20
OTTAWA CANALS.		0.000.04	0.000 50	0.477.00	1 500 5
Ottawa Carillon	8,597 40 8 98	2,629 84 6 10		2,457 39 24 82	1,520 5 32 1
Grenville	3,017 00	2,542 39	2,078 88	1,863 28	1,697 1
Ste Anne	274 81	234 00	245 07	304 48	94 1
Total Ottawa Canals	6,898 19	5,412 33	4,598 07	4,649 97	3,343 8
RIDEAU CANAL. Kingston Mills	32 9 49	257 00	178 89	153 16	112 9
Ottawa.	620 32	600 07		681 64	348 1
Smith's Falls	175 69	102 81	85 27	52 56	31 8
Total Rideau Canal	1,125 50	959 88	803 42	887 36	492 8
St. Peter's Canal.		:			
St. Peter's Canal	102 35	111 36	282 77	438 40	383 3
NEWCASTLE DISTRICT CANALS.					
Burleigh	18 60	11 39		19 93	1 7
Bobcaygeon	70 56			57 03 16 54	10 2 6 5
Peterborough	21 35 8 00	18 74 6 25		10 34	0.0
Fenelon Falls	0 50	0 50	3 70		1 2
Buckhorn' Total Nowgastle District	10 85	9 40	8 75	0 30	
Total Newcastle District	129 86	137 60	125 24	95 05	19 8
MURRAY CANAL.				,	
Brighton	146 09	178 74	63 85	46 05	31 2
Grand Total	49,101 78	50,956 3	49,629 80	47,782 26	26,989 0

DEPARTMENT OF RAILWAYS AND CANALS,

OTTAWA, 30th September, 1892.

Continued—CANALS. each month during the Fiscal Year, ended 30th June, 1892.

			1892.			Trake 1
December.	January.	March.	April.	May.	June.	Total.
\$ cts.	\$ cts.	\$ cts.	\$ ots.	\$ cts.	\$ cts.	\$ ets.
840 43 24 35			6,505 16 4,878 01	3 79 20,211 65 4,581 77 29 17	6 06 16,662 95 4,819 45 56 04	46 58 141,745 14 50,410 74 430 77
13 39 3 24			71 01 30 88	151 52 65 84	1 76 73 45 62 57	3 99 618 89 552 34
881 41			11,485 06	25,043 74	21,682 28	193,808 45
1 45 66 89 4 92	•		127 84 442 91	49 85 61 22 2,859 13 1,159 46 198 51 3,321 64	96: 01 115 88 4,063 72 3,450 13 261 67 4,053 61	1,285 20 757 14 23,361 36 11,869 46 2,249 12 26,082 20
73 26			570 75	7,649 80	12,041 02	65,604 51
**************************************			19 45	883 85 2,507 86 71 44 3,463 15	1,020 07 1,659 42 77 55	7,705 45 10,853 75 690 78
1 00			281 28 1 28 156 65 5 36	3,548 14 23 90 2,839 98 114 46	/ 3,347 92 13 03 3,051 44 280 15	19,631 01 115 76 17,246 74 1,558 42
1 00			424 50	6,526 48	6,692-54	\$8,546 98
***************************************				157 02 406 19 41 86	86 56 548 34 108 08	1,275 06 3,743 93 598 09
• • • • • • • • • • • • • • • • • • • •				605 07	742 98	5,617 10
163 66	30 92	1 06	180 32	254 58	368 24	2,317 03
			2 36 6 14 1 00 1 00	4 76 19 81 16 54 13 14 2 25 0 50	21 02 41 33 33 11 1 93 7 50 8 90	101 38 357 68 140 56 32 82 16 70 39 70
			10 50	57 00	113 79	688 84
· ··· · · · · · · · · · · · · · · · ·			24 39	66 32	80 29	637 01
1,119 33	30 92	1 06	12,714 97	43,666 14	44,478 18	326,469 8

B. H. TEAKLES,

Chief Clerk, Canals Revenue.

APPENDIX A-Continued-CANALS.

; the	
during	
Canals	
II the	
through al	
ssols passed th	
Vessols	
õ	å
to and Nationality	Inna 1
Nal	204
and	707
umber, Tonnage and Nationality of Ye	Voor on
	Lino
the N	
ENT showing the N	ı
ATEMENT	
L ST	
NER	
GE	
22	
No.	

Vessels.	Total Number	From Canadian to Canadian Ports.	m dian dian ts.	From Canadian to United States Ports.	dian dian States ts.	From United States to United States Ports.	States States States	From United States to Canadian Ports.	m States dian ts.	Tons.	s.	Total Tons.	Amount of Tolls.
		Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		
WELLAND CANAL.											,		es cts.
Canadian vessels, steam do do sail.	1,175	101,036 36,437	90,213 33,133	79,027	3,661 6,452	307	`::	6,905	89,065	187,944 98,622	182,939 94,359	370,882 192,981	4,150 94 3,893 09
Total Canadian	1,839	137,473	123,346	134,305	10,113	309	:	14,479	143,839	286,566	277,298	563,864	8,044 03
O United States vessels, steam	502 267	666	87	16,631	3,026	218,678 41,556	183,056 31,497	186	51,566	235,496 53,763	234,812 54,585	470,308 108,348	7,962 68 2,405 72
Total United States.	692	299	21	25,595	3,215	260,234	214,553	2,763	71,608	289,259	289,397	578,656	9,468 40
Grand Total, Welland Canal	2,608	138,140	123,367	159,900	13,328	260,543	214,553]7,242	215,447	575,825	566,695	1,142,520	17,512 43
ST. LAWRENCE CANALS.							<u> </u>	ings /					,
Canadian vessels, steamdo	3,073 5,968	348,559 594,878	297,246 451,422	16,912 47,839	908 320		•	: :	5,871	365,471 642,717	303,725 522,752	669,196 1,165,469	3,888 03 12,546 61
Total Canadian	9,041	943,437	748,668	64,751	928			::	76,881	1,008,188	826,477	1,834,665	16,434 64
United States vessels, steamdo	508	15. 96.	302 15,989	4,007 8,366	1,681	7,194	6,892	28,722	2,540 11,532	11,276 39,163	9,754 29,907	21,030 69,070	166 50 516 97
Total United States	1,117	1,023	16,291	12,373	1,701	8,301	7,697	28,742	14,072	50,439	39,661	90,100	683 47
(frand Total, St. Lawrence Canals	10,158	944,460	764,959	77,124	2,629	8,301	7,597	28,742	90,953	90,953 1,058,627	866,138	1,924,765	11,118 11
	<u>.</u>				Ĩ		1						

70	TT	•
56	Victor	oria.

Sessional Papers (No. 9A.)

A. 1893

CHAMBLY CANAL.			•					-	•			•		
Canadian vessels, steamdo	514 585	34,159 11,107	33,722 10,308	7,798		: :			583 15,275	34,253 18,905	34,305 25,583	68,558 44,488	226 70 580 36	
Total Canadian	1,099	45,266	44,030	7,892	:	:			15,858	53,158	59,888	113,046	807 06	
United States vessels, steamdo	1,094	969	3,029	160 43,574					67,514	215 44,543	163 70,543	378 115,086	5 29 1,491 28	
Total United States	1,108	1,024	3,121	13,734	:				67,585	44,758	70,706	115,464	1,496 57	
Grand Total, Chambly Canal	2,207	46,290	47,151	51,626					83,443	97,916	130,594	228,510	2,303 63	
OTTAWA CANALS.														
Canadian vessels, steamdo	997 1,194	51,772 8,407	109,386		2,230 15,093	: :				51,772 8,407	111,616 149,722	163,388 158,129	2,200 92	
Total Canadian	2,191	60,179	244,015		17,323					60,179	261,338	321,517	2,857 09	
United States vessels, steamdo	251	3,237	751		20,424			405		3,642	84 21,175	186 24,817	2 29 573 55	
Total United States.	255	.3,339	787		20,475			405		3,744	21,259	25,003	575 84	-
Grand Total, Ottawa Canals	2,446	63,518	244,799		37,798	•:		405		63,923	282,597	346,520	3,432 93	
RIDEAU CANAL.								•						`
Canadian vessels, steam do	1,344	40,047	44,609	153 318	; :	: :		::		40,200	44,609	84,809	768 38 831 78	
Total Canadian	2,369	79,954	86,119	471		:				80,425	86,119	166,544	1,600 16	•
United States vessels, steam do do sail	145	2,012	348	2,965						278 4,977	348 7,854	626 $12,831$	15 08 183 51	
Total United States	207	2,290	8,202	2,965		:				5,255	8,202	13,457	198 59	
Grand Total, Rideau Canal	2,576	82,244	94,321	3,436						85,680	94,321	180,001	1,798 75	
ST. PETER'S CANAL.														
Canadian vessels, steam	168 1,259	16,014 31,744	15,542 30,549				: :	450		16,014 32,194	15,542 30,549	31,556	1,254 86	
Total Canadian	1,427	47,758	46,091			:	:	450		48,208	46,091	94,299	1,885 98	
7	<u> </u>		Ī	- -	Ī				Ī	Ī				

		Cana	From Canadian	Cana	From Canadian	Fr	From United States	Fr. United	From United States	É			
Vesels.	Total Number		to Canadian Ports.	United Po	to United States Ports.	United Po	United States Ports.	to Canadian Ports.	to nadian orta.	Tons	ns.	Total Tons.	Amount of Tolls.
		Up	Down.	Пp	Down.	Up,	Down.	Up	Down.	υp	Down.		
Sr. Perun's Canal—Concluded.													\$ cts.
United States vessels, steam do do sail		, ; ;		:					: :			::	
Total United States													
Grant Total, St. Peter's Canals.	1,427	47,758	46,091	:				450		48,208	46,091	94,299	1,885 98
TRENT VALLEY CANALS.						•					i 		
Canadian vessels, steam	.: 761 869	14,667	15,088		: :	: :	: :			14,657 12,306	15,088	22,636 24,636	250 28 28 36 37
Total Canadian	1,160	26,968	26,786					:	:	26,963	26,786	53,748	328 35
V United States vessels, steam	:	-	8		:			:			24	88	0 75
do do sail													
Total United States	:	*	ጃ የ		:		:			4	7	88	0 75
Grant Total, Trent Valley Canals.	s. 1,163	26,967	26,808							26,967	26,809	58,776	329 10
MURRAY CANAL.								,					
Canadian vessels, steam do eail	798	87,292 4,408	31,625	9,678 557	: :			: :	11,101	98,790 4,945	42,726 6,400	139,696	209 76 43 58
Total Canadian	973	91,700	36,702	10,215					12,424	101,915	49,126	151,041	253 34
United States vessels, steamdo	44.00	163	22	,						163	579	168	28
Total United States		138	8						:	136	8	200	2 50
Grant Total, Murray Canal	981	91,898	36.764	10.215					12,424	102.113	49.188	151.301	255 84

RECAPITULATION.

CANADIAN VESSEIS. Steam and Sail.		,	•										
Welland St. Lawrence Chambly Ottawa Rideau Rideau Trent Valley Murray.	2.6.4.2.4.1.1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	137,473 943,437 45,266 60,179 79,954 47,758 91,700	748,346 44,030 244,015 86,119 46,091 26,785 36,702	134,305 64,751 7,892 471	17,323	608		14, 47 9	143,839 76,881 15,858	286,566 1,008,188 53,158 60,179 80,425 48,208 26,963 101,915	277,298 826,477 69,886 261,338 86,119 46,091 26,785	563,864 1,834,665 113,046 321,517 166,544 94,299 53,748 151,041	8,044 03 16,434 64 16,434 64 2,857 09 1,600 16 1,885 38 328 35 253 34
Total Canadian	20,099	1,432,730	1,355,756	217,634	28,364	8		14,929	249,002	1,665,602	1,638,122	3,298,724	32,210 65
UNITED STATES VESSELS. Steam and Suil.		,											
TWelland St. Lawrence Chambly GRAWE	769 1,116 1,106 255 202	1,083 1,083 3,389 2,290	16,291 3,121 8,202 8,202	25,595 12,373 43,734 2,965	3,215	8,301	214,553 7,587	2,763 28,742 406	71,606 14,072 67,585	289,259 50,489 44,758 8,744 5,255	289,397 39,661 70,706 21,359 8,202	578,656 96,100 15,464 28,063 13,467	9,468 40 683 47 1,496 57 575 84 198 59
St. Peter's. Trent Valley. Murray.	. m ec	.4.86	. % 3							#	. 7. 2		0 75 2 80
Total United States	3,467	8,546	28,505	84,667	26,301	266,536	222, 150	31,910	153,265	393,657	429,311	822,968	12,426 12
Grand Total, Canadian and United	23,58	25,566 1,441,275 1,394,281	1,584,281	302,301	53,755	268,844	222, 150	46,839	402,267	2,009,259	2,059,259 2,062,433	4, 121, 692	44,636 77
	-		_		-	-	-		В. Н.	TEAKLES Chief Clerk,	KLES, Clerk, C	TEAKLES, Chief Clerk, Canals Revenue.	enue.

DEPARTMENT OF BAILWAYS AND CANALS,
OTTAWA, 30th September, 1892.

APPENDIX A—Continued—CANALS.

No. 23.—Comparative Statement of the Total Movement of Property, Passengers and Vessels on the undermentioned Canals for the There Fiscal Year ended 30th June, 1892, and the three preceding Years.

Goods, Wares and		Wellan	Welland Canal.			St. Lawren	St. Lawrence Canals.	·		Chambly Canal.	/ Canal.	
M ERCHANDISE.	1889.	1890.	1891.	1892.	1889.	1890.	1891.	1892.	1889.	1890.	1891.	1892.
	9 156,771 23,621 288,740	25 194,144 29,082 317,150	54 138,205 23,104 317,044	82 1 6 9,710 20,739 245,653	840 159,430 67,173 323,099	981 144,461 81,745 312,337	1,107 126,128 67,280 348,696	924 118,439 57,527 341,833	102,102 13,763 129,174	226 88,955 7,225 91,785	234 98,868 3,218 118,830	248 123,661 3,267 97,743
A cultural products	469,113	564,152	481,095	568,569	292,674	370,577	286,093	476,328	5,423	4,594	3,914	8,909
s Total tons	938,254	1,104,553	959,502	944,753	843,216	910,101	829,304	995,051	250,645	192,785	225,064	233,828
IN Passengers.	3,071	9,599	24,089	33,996	48,242	51,519	61,614	64,671	3,713	4,983	3,360	4,298
Number of vessels of all kinds	2,839	3,057	2,547	2,608	9,358	11,188	10,476	10,158	2,305	2,018	2,104	2,207
Total tonnage of vessels of all kinds	939,035	1,144,117	1,030,899	1,142,520	1,575,938	1,750,414	1,720,331	1,924,765	249,367	224,562	240,015	228,510
		Welland Canal	l Canal.		J .	št. Lawrei	: St. Lawrence Canals.		·	Chambly Ganal.	' Canal.	
	Percentage of decrease of 186 compared with 1891, is	Percentage decrease of 1892, compared with 1891, is	Percentage of increase of 1892, compared with 1889, is	reentage rease of 1892, pared with 1889, is	Percentage of increase of 1892, compared with 1891, is	ntage e of 1892, d with , is	Percentage of increase of 1892, compared with 1889, is	ntage e of 1892, ed with	Percentage of increase of 1892, compared with 1891, is	ntage of 1892, d with is:	Percentage of decrease of 1892, compared with 1889, is	tage of 1892, d with is
,		1.53		69.	19.98	86	18.		3.74	4.	2.9	1

Goods, Warrs and		Murray Canal.	Canal.			Ottawa Canals.	Canals.	/		Rideau Canal.	Canal.	
Merchandise.	1889.	1890.	1891.	1892.	1889.	1890.	1891.	1892.	. 1889.	1890.	1891.	1892.
Farm stock Forest. Manufactures Merchandise.		6,832 34 3,085	25 4,124 1,659 4,205	64 4,530 669 4,347	1,294 687,353 425 10,009	1,028 698,978 360 7,636	1,167 622,329 844 • 11,483	1,377 542,950 344 9,602	23 91,693 2,566 19,647	25 105,237 2,424 19,311	38 74,530 2,336 20,728	26 73,588 2,980 20 ,883
Vegetable food and other agri- cultural products		621	3,572	2,908	6,051	4,382	5,155	9,359	2,442	2,393	3,055	4,574
Total tons.		10,594	13,585	12,518	705,132	112,384	12,683	12,426	3,527	2,535	4,376	5,958
Number of vessels of all kinds		167	966	186	3,166	3,066	2,830	2,446	2,752	2,407	2,252	2,576
Total tonnage of vessels of all kinds		22,102	118,436	151,301	430,698	410,534	393,525	346,520	184,575	159,559	144,510	180,001
		Murray Canal.	Canal.			Ottawa Canals	Canals.	:		Rideau Canal.	Canal.	
	Percentage of decrease of 1 compared wit 1891, is	Percentage decrease of 1892, compared with 1891, is	Percentage of	ntage	Percentage of decrease of 1892, compared with 1891, is	itage e of 1892, d with	Percentage of decrease of 1892, compared with 1889, is	itage s of 1892, d with , is	Percentage of increase of 1892, compared with 1891, is	itage of 1892, d with	Percentage of decrease of 1892, compared with 1889, is	tage of 1892, d with is
,	.2	7.85			12.06	98	20.06	96	1.35	88	1.23	83

CANAL STATISTICS.

B. H. TEAKLES, Chief Clerk, Canals Revenue.

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th September, 1892,

APPENDIX A-Continued-CANALS.

No. 24.—Comparative Statement of the Tonnage of Vessels and Goods passed through the Canals, during the Fiscal Years ended 30th June, 1889, 1891, 1892.

Drawnmy Ann Vaccaro		Welland Canal	i Canal.			St. Lawre	St. Lawrence Canals.			Chambly Canal	y Canal.	
I NOFERITI AND VESSRIES.	1889.	1890.	1891.	1892.	1889.	1890.	1891.	1892.	1889.	1890.	1891.	1892.
Tonnage of property, up	296,090	315,726 788,827	313,480	242,312	280,075	299,367	258,594	248,213	91,226	91,668	101,722	128,758
Total tonnage of property, up and down.	938,254	1,104,553	959,502	944,753	843,216	910,101	829,304	995,051	250,645	192,785	225,064	233,828
D Tonnage of vessels, up	469,884	564,536	508,144	575,825 566,895	915,314	1,009,119	971,281	1,058,627	81,109	84,888	86,934	97,916
	939,035	1,144,117	1,030,899	1,142,520	1,575,936	1,750,414	1,750,414 1,720,331	1,924,765	249,367	294, 562	240,015	228,510
property and vessels, up	s, up 1,877,289	2,248,670	1,990,461	2,087,273	2,419,154	2,660,515	\$ 549,635	2,919,816	500,012	417,347	465, 079	462,336

No. 24.—Comparative Statement of the Tonnage of Vessels and Goods passed through the Canals during the Fiscal Years ended 30th June, 1889, 1890, 1891, 1892.—Concluded.

		Murray Canal	Canal.			Ottawa Canal.	Canal.			Rideau Canal	Canal.	
FROPERTY AND VESSELS.	1889.	1890.	1891.	1892.	1889.	1890.	1891.	1892.	1889.	1890.	1891.	1892.
Tonnage of property, up do down		3,941	9,108	4,861	172	10,416	639	326,608	86,245	114,513	75,122	73,509
Total tonnage of property, up and down		10,594	13,585	12,518	705,132	712,384	640,978	563,632	116,371	129,390	100,687	102,051
Tonnage of vessels, up		11,242	72,863	102,113	77,419	68,222	70,886	63,923	88,721	79,787	67,612	86,680 94,321
Total tonnage of vessels, up and down.		22,102	118,436	151,301	430,698	410,534	393,525	346,590	184,575	159,559	144,010	180,001
Grand total tonnage of property and vessels, up		32,696	132,021	163,819	1,135,830	1,122,918	1,034,503	910,152	300,946	288,949	244,697	282,052

CANAL STATISTICS.

B. H. TEAKLES, Chief Clerk, Canals Revenue.

DEPARTMENT OF RILWAYS AND CANALS, OTTAWA, 30th September, 1892.

APPENDIX A-Continued-CANALS.

No. 25.—Comparative Statement showing the Quantity of each Article transported on the Canals during the Fiscal Years ending 30th June, 1891 and 1892, and the Amount of Tolls collected thereon.

	189	91.	189	92.
Articles.	Tons.	Tolls.	Tons.	Tolls.
		\$ cts.		\$ cts.
Ashes, pot and pearl	176	32 07	181	33 33
Apples	55 4,280 8,122 24	434 47 228 91	7,584 13,503	830 68 367 51
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2,527 14	196 18	3,110	308 34
Agricultural implements	278	33 09	271	34 03
Barley Bricks Free. Bones	12,549 13,453 398 186	1,674 43 609 76 19 35	31,638 13,845 315 507	2,252 95 598 45 52 41
Brimstone, crude	1,061	151 15	358	37 78
Cement and water limedo Free.	3,435 1,217 44,804	459 10 2,176 86	5,375 3,408 44,029	694 86 2,125 59
do Free.	730 532,838	79,821 01	674 475,835	69,016 63
doFree. Corn doFree.	98,621 264,351 85,527	50,858 47	103,759 178,488 57,156	35,269 52
Cattle. Cotton, raw Crockery and earthenware do Free.	1,285 3 476 124	85 78 0 32 81 72	1,223 438 141	81 11 74 70
Dye woods and dye stuffs	358	26 53	177	15 71
Fish.	1,398	85 52	1,814	145 47
do Free.	69 5	0 65	433 · 1	0 04
doFree.	22,896	2,958 83	22,259	2,920 26
do Free. Furniture Free.	1,233 897 2	136 18	3,357 1,292 1	185 68
Gypsum do crude.	839 205	17 78 2 56	1,920	29 94
Glass, all kinds	715 17	124 48	32	96 17
Hay, pressed	4,357 59 628	202 08 6 80 41 91	5,376 20 772	255 10 2 37 42 42
do Free. Hides and skins, horns and hoofs.	3 146	17 67	153	19 69
IceIron, railway	15,325 14,934	1,015 33 2,163 05	500 3,461	21 25 515 67
do	14,186 3,577	419 87	3,028 4,280	595 13
do Free. Iron, all other	$12,729 \\ 708$	949 85	427 15,461 466	944 41

No. 25.—Comparative Statement showing the Quantity of each Article transported on the Canals, &c.—Continued.

	189	91.	189	02.
Articles.	Tons.	"Tolls.	Tons.	Tolls.
•				\$ ets
Kryolite or chemical ore, and other ore except iron do do Free.	12,272 917	613 25	6,951 2,727	347 25
Lard and lard oil	473 172	55 42	392 16	32 73
Meal, all kindsFree.	27,340 233	5,322 87	30,248 18	5,931 64
Meats, other than pork	106 1 4,972	11 71 746 70	190 94 3,774	25 81 565 44
Manilla	141 1,490	20 65 177 10	179 1,157	26 85 112 33
Nails	4,974 457	697 46	3,456 570	515 2 8
Oats	32,865 9	5,919 53	78,343	11,342 92
Oil do Free. Oil cake	2,189 38 7	258 27 0 66	1,6 3 5 41 16	200 96
doFree.	26,198	665 10	54,067	1,938 77
doFree. Potatoes Pork	390 1,052 1,004	75 14 124 79	524 1,105 1,059	75 58 82 52
do Free. Paint Free.	322 791 62	111 68	566 28	77 68
Pitch and tardo	1,219 17	148 02	552 21	52 44
Rags	155 3,102	27 24 169 20	266 71,050	50 90 13,813 24
do Free. do Free.	4,554 1	336 44	67,335 3,963	301 59
Salt	15,618 7,220	1,984 94	10,961 3,367	1,315 63
Stone, intended for cutting	15,723 450 706	2,136 97 67 65	9,328 1,074 1,668	1,219 81 124 70
do not suitable for cutting, unwrought	$egin{array}{c} 22,374 \ 1,470 \ 4,431 \ \end{array}$	1,042 06	11,588	266 44 462 53
do Free. Sheep. Soda ash	101 650 2,739	41 42 472 65	2 705 945	44 95 156 22
do Free. Steel	523 412	56 84	324 9,337	1,381 52
Sugar do Free.	4,693 175	760 83	5,099 628	841 21
do Free. Tobacco, raw	1,663 335	285 68	1,500 351	270 99
	34	3 16	11	0 92

No. 25.—Comparative Statement showing the Quantity of each Article transported on the Canals, &c.—Continued.

	189	91.	189	2.
Articles.	Tons.	Tolls.	Tons.	Tolls.
		\$ cts.		**************************************
Tin	669	111 92	824	140 3
do Free.	37		48	
Turpentine	$\frac{220}{1}$	17 55	131	10 0
in the second second second second second second second second second second second second second second second		90 510 05		,
Wheat	177,501 108,468	30,518 87	260,420 182,087	45,517 2
White lead	225	34 07	223	33 9
do Free. Whiting	$\begin{array}{c} 11 \\ 794 \end{array}$	141 38	389	74 5
doFree.	52 195	95.70	1 102	
do	199	35 79	1,103 2	217 9
All other goods and merchandise, not enumerated	56,158	8,002 98	66,316	9,067 2
do do Free.	1,147		912	
Bark	63	3 57	118	7 6
Barrels, empty	702	79 90	516	69 6
do Free. Boat-knees			1	0 0
		040 11		
floats	20,166 11,340	246 11	36,594 15,020	424 1
Firewood, in vessels	109,200	3,362 76	128,205	3,792 5
do doFree.	13,680 480	25 47	4,380 126	1 2
do do	10,166 247	29 00	3,180	0 4
			•	· .
	725 207	57 991 94	661 070	E1 000 4
	$735,327 \\ 2,430$	57,331 34	661,978 3,738	51,820 4
Lumber, sawn, in vessels	2,430 490	32 04	3,738 374	51,820 4
Lumber, sawn, in vessels do do Free do in rafts do do Free	2,430		3,738	
Lumber, sawn, in vessels	2,430 490 1,802	32 04	3,738 374	
Lumber, sawn, in vessels do do do in rafts do do Free	2,430 490 1,802	32 04	3,738 374 587	10 2
Lumber, sawn, in vessels do do Free do in rafts do do Free Masts, spars and telegraph poles, in vessels do do Free do do in rafts	2,430 490 1,802 771 10 18,669	32 04 15 52 476 49	3,738 374 587 19,313	491 73
Lumber, sawn, in vessels do do Free do in rafts do do Free Masts, spars and telegraph poles, in vessels do do Free do do in rafts Railway ties, in vessels do do Free	2,430 490 1,802 771 10 18,669 11,334 25	32 04 15 52 476 49 1,136 54	3,738 374 587 19,313	10 2- 491 73 823 00
Lumber, sawn, in vessels do do Free do in rafts do do Free Masts, spars and telegraph poles, in vessels do do Free do do in rafts Railway ties, in vessels	2,430 490 1,802 771 10 18,669 11,334 25 1,021	32 04 15 52 476 49	3,738 374 587 19,313	491 73
Lumber, sawn, in vessels Go Go Free do in rafts Free Masts, spars and telegraph poles, in vessels Go Free do do in rafts do do Free do do Free do do Free do do Free	2,430 490 1,802 771 10 18,669 11,334 25 1,021 11,025	32 04 15 52 476 49 1,136 54 91 32	3,738 374 587 19,313 8,667	10 2 491 73 823 00 94 1
Lumber, sawn, in vessels do do Free do in rafts. do do Free Masts, spars and telegraph poles, in vessels do do Free do do in rafts And the spars and telegraph poles, in vessels do do Free do do Free do do Free do in rafts Free Saw logs.	2,430 490 1,802 771 10 18,669 11,334 25 1,021	32 04 15 52 476 49 1,136 54 91 32 749 63	3,738 374 587 19,313 8,667 995	10 2- 491 73 823 00
Lumber, sawn, in vessels do do Free do in rafts Free Masts, spars and telegraph poles, in vessels Free <t< td=""><td>2,430 490 1,802 771 10 18,669 11,334 25 1,021 11,025 28,178 13,629</td><td>32 04 15 52 476 49 1,136 54 91 32 749 63</td><td>3,738 374 587 19,313 8,667 995 39,094 12,249 155</td><td>10 2 491 75 823 00 94 1 904 2</td></t<>	2,430 490 1,802 771 10 18,669 11,334 25 1,021 11,025 28,178 13,629	32 04 15 52 476 49 1,136 54 91 32 749 63	3,738 374 587 19,313 8,667 995 39,094 12,249 155	10 2 491 75 823 00 94 1 904 2
Lumber, sawn, in vessels Free do do Free do do Free Masts, spars and telegraph poles, in vessels 60 Free do do in rafts Railway ties, in vessels Free Free do do Free do do Free Saw logs Free do Free	2,430 490 1,802 771 10 18,669 11,334 25 1,021 11,025 28,178 13,629	32 04 15 52 476 49 1,136 54 91 32 749 63	3,738 374 587 19,313 8,667 995	10 2 491 73 823 0 94 1 904 2
Lumber, sawn, in vessels Free do do Free do do Free Masts, spars and telegraph poles, in vessels Free do do Free do do in rafts do do Free Saw logs Free Free Staves and headings, barrel Go Free do do Free do Go Free	2,430 490 1,802 771 10 18,669 11,334 25 1,021 11,025 28,178 13,629	32 04 15 52 476 49 1,136 54 91 32 749 63	3,738 374 587 19,313 	10 2 491 7 823 0 94 1 904 2 12 44 17 6
Lumber, sawn, in vessels Free do do Free do do Free Masts, spars and telegraph poles, in vessels	2,430 490 1,802 771 10 18,669 11,334 25 1,021 11,025 28,178 13,629 	32 04 15 52 476 49 1,136 54 91 32 749 63 21 31	3,738 374 587 19,313 8,667 995 39,094 12,249 155 96 8	10 2 491 73 823 0 94 1 904 2 12 44 17 6
Lumber, sawn, in vessels Free do do Free do do Free Masts, spars and telegraph poles, in vessels Free do do Free do do in rafts do in rafts Free do do Free Saw logs Free Free Staves and headings, barrel Go Free do West India Go do salt barrel Go Shingles Shingles Free	2,430 490 1,802 771 10 18,669 11,334 25 1,021 11,025 28,178 13,629 	32 04 15 52 476 49 1,136 54 91 32 749 63 21 31 6 75 0 17 451 51	3,738 374 587 19,313 8,667 995 39,094 12,249 155 96 8 140 120	10 2 491 73 823 0 94 1 904 2 12 44 17 6
Lumber, sawn, in vessels do do do Free do in rafts do do Free Masts, spars and telegraph poles, in vessels do do in rafts. Railway ties, in vessels do do free do in rafts do do Free do do Free do Grand free do Free do Grand free free do Free do Grand free free free free do Grand free free free free free free free fre	2,430 490 1,802 771 10 18,669 11,334 25 1,021 11,025 28,178 13,629 	32 04 15 52 476 49 1,136 54 91 32 749 63 21 31 6 75 0 17	3,738 374 587 19,313 	10 2 491 7 823 0 94 1 904 2 12 4 17 6
Lumber, sawn, in vessels Go Go Free do in rafts Free Masts, spars and telegraph poles, in vessels Free do do Free do do in rafts do do Free Saw logs Free Free Staves and headings, barrel Go Free do do Free Shingles Split posts and fence rails, in vessels Split posts and fence rails, in vessels	2,430 490 1,802 771 10 18,669 11,334 25 1,021 11,025 28,178 13,629 114 9 1,019 44	32 04 15 52 476 49 1,136 54 91 32 749 63 21 31 6 75 0 17 451 51 6 93	3,738 374 587 19,313 8,667 995 39,094 12,249 155 96 8 140 120	10 2: 491 7: 823 00 94 1: 904 2: 12 44 17 6: 24 9:
Lumber, sawn, in vessels do do Free do do in rafts Free Masts, spars and telegraph poles, in vessels do Go Free do do in rafts Free do do in rafts Free do do Free Saw logs Free Free do do Free do do Free do do Free do do Free Shingles. Split posts and fence rails, in vessels do do do in rafts do do free	2,430 490 1,802 771 10 18,669 11,334 25 1,021 11,025 28,178 13,629 36 9 1,019 44 410 66,119	32 04 15 52 476 49 1,136 54 91 32 749 63 21 31 6 75 0 17 451 51 6 93	3,738 374 587 19,313 	10 2: 491 7: 823 00 94 1: 904 2: 12 44 17 6: 24 9:
Lumber, sawn, in vessels do do do Free do in rafts. do do Free Masts, spars and telegraph poles, in vessels do do Free do do in rafts. do do Free do in rafts do do Free do in rafts do do Free do in rafts Free do Free Free	2,430 490 1,802 771 10 18,669 11,334 25 1,021 11,025 28,178 13,629 	32 04 15 52 476 49 1,136 54 91 32 749 63 21 31 6 75 0 17 451 51 6 93 13 9,609 17	3,738 374 587 19,313 	10 2 491 7 823 0 94 1 904 2 12 4 17 6 24 9 577 8 4 2 3,978 9
Lumber, sawn, in vessels do do for Free do in rafts do do for Free Masts, spars and telegraph poles, in vessels do do for rafts. Railway ties, in vessels do do for rafts do do Free do in rafts for do for Free do for Free do for Free do for Free do for Free do for Free do for Free do for Free do for Free do for Free do for Free do for Free do for Free do for Free for Free do for Free f	2,430 490 1,802 771 10 18,669 11,334 25 1,021 11,025 28,178 13,629 36 9 1,019 44 410 66,119	32 04 15 52 476 49 1,136 54 91 32 749 63 21 31 6 75 0 17 451 51 6 93 13 9,609 17 341 84	3,738 374 587 19,313 	10 2 491 7 823 0 94 1 904 2 12 4 17 6 24 9 577 8 4 2

No. 25.—Comparative Statement showing the Quantity of each Article transported on the Canals, &c.—Concluded.

Articles.	189	91.	.189	92.
ARTICLES.	Tons.	Tolls.	Tons.	Tolls.
		\$ cts.		\$ cts.
Woodenware and wood partly manufactured do do Free	$\begin{array}{c} 214 \\ 1,742 \end{array}$	81 13	91	25 87
Total tonnage freight paying tolls	2,425,504 396,810	280,884 18	2,439,966 476,930	277,716 92
Grand total—freight	2,822,314		2,916,896	• • • • • • • • • • • • • • • • • • • •
Passengers—total number	128,560 3,764,922	4,020 73 40,858 18	146,662 4,121,692	4,116 14 44,636 77
Total tolls collected		325,763 09 15,699 53		326,469 83 16,115 87
Gross total tolls		341,462 62		342,585 70

B. H. TEAKLES, Chief Clerk, Canals Revenue.

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th September, 1892.

SUPPLEMENTARY APPENDIX A.

No. (A) 7.—General Statement showing the Quantity of each Article transported on the Welland Canal, and the Amount of Revenue collected during the Season of Navigation in 1891.

Total Amount of Tolls.		s.	90 8 00 55 33 98	28 %	30 1,622 60 5 52	63 62 58 63 62 58 5 25 00 44,928 20 40 37,035 85 0 62	01.0	20 40 56	76 1,911 76 23 3 88	40 4 77 20 19 20	57 3 02	13 05
Amount of Tolls,		* cts.	∞ 72	88	1,622 60	0 4,416 37,035		:• :	1,911	0 4		:
Amount of Tolls, Up.		e cts.	6 43		5 52	99 90 61 95 5 25 40,512 20 0 45 0 02	0. 10	40.36	1.65	4 37 15 00	1 45	13 05
Total Tons.			1,223	444	8,113	224,644 185,180	10	305	13,517	32	67	787
8	Down.		1,101	444	8,113	22,080 185,177		-	13,517	20 20	<u>4</u>	:
Tons.	Up.		122			66 413 70 202,564		304	=	 30 100	:23	1 187
From United States to Canadian Ports.	Down.		£ . ∴	2		20,698			2,191	:	- 	:
From United State to Canadian Ports.	Up.					17,374						:
From United States to United States Ports.	Down.			42	8,113	1,382	: :	: ===	6,802		.es	:
From United States to United States Ports.	Up.		19			66 413 185,190		:# :			: - ::	78
From Canadian to nited States Ports.	Down.			400								:
From Canadian to United States Ports.	Up.		103		31				6	63	.23	950
From snadian to to snadian Ports.	Down.		1,101					: :	4,524	21	<u></u>	:
From Canadian to Canadian Ports.	Up.					70				100		:
, Articles.			nd pearl	Agricultural products, not enumerated vegetable Agricultural products, not enumerated, animal	Agricultural implements Barley Bricks	one t and water lime ime and sand	Cotton, raw	Dye wood and dye stuffs Fish	emp	Glass, all kinds Hay, pressed.	Horses Horses Horse and Rides and skins horns and	hoofs

RAILWAYS AND CANALS.

<u></u>		
282	228	
3,556 139 45	22 3,55	3,555
	2 2	20 20
9	240	
131 182 182		
	480	
211	1 211	
2,813		
6,220	97.	97
303	14 202	9 202
243	60	60
9	3	3 590
46,355	398 46,355	
. 49	43 49	43
	720	7,032 720

No. (A) 7	1 1	T WENT OF THE PARTY OF THE PART			0	- -					,	DIATEMENT SHOTTING SHOTTING OF CHANGE OF CHANG		
ARTOLES.	Fr Cans Cans Cans	From anadian to anadian Ports.	From Canadian to United States Ports.	dian dian States ts.	From United States to United States Ports.	States States States ts.	From United States to Canadian Ports.	States States dian	Tons.	55	Total Tons.	Amount of Tolls, Up.	Amount of Tolls, Down.	Total Amount of Tolls.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.				
												ets.	ee cts.	ee cts.
Hop poles		2,482	1,641	11,002		45,504		4,248	1,641	63,236	64,877	295 37	11,249 66	11,545 03
do rafts Masts, spars and telegraph poles, in vessels Masts, spars and telegraph	: :							: :						
oles, in raitslway ties, in vessels		: :83		264						327	327		28 03	28 03
May logs rafts	343	1,961		1,462					343	3,423 155 8	3,766 155 8	28 61	141 05 12 40 1 50	160 87 12 40 1 50
Staves, salt barrel		19				· · · · · · · · · · · · · · · · · · ·	: : :			110	19		7 81	18.2
Yessels. Split posts and fence rails, in rafts. Timber, square, in vessels do rafts	245	2,116						18,238	245	20,354	20,354	14 13	3,049 94 2 36	3,049 94 16 49
Traverses. Woodenware and wood partly manufactured.		: :										4 40	: :	4 40
Total freight paying tolls. Articles having paid full tolls on the St. Lawrence Canals, Free	6,453	58,170	4,203	13,963	247,543	306,257	17,409	306,022	275,608	684,412	960,020	1	50,457 41 131,027 27	181,484 68
Ashes, pot and pearl		:	31					: :	31	: : : : : :	31			

90	V 10	COF	ıa.				De	33.	ıOI	121	LI	aj	961.8	(11	ΙΟ.	ga.j		
													:	:		16,905 54 433 66	198,823 88 1,338 22 241 20	200,403 30
									:				:			8,479 50 229 64	139,736 41	59,087 47 139,736 41
													:	:	:	8,426 04	59,087 47	59,087 47
469	206 251		2,855	595	260	558	4,391				<u> </u>	810	75	389	975,013	\$2,153 96		
									:		:			389	684,801		Fines and damages. Other receipts.	Total revenue, exclusive of Hydraulic Rents.
2,380			2,855	595	260	5 5 8	4,391	412	294		25°	810	544		2 290,212	essels Assengers. ree goods.		of Hydrau
				: : : : : :							: : :			<u>:</u>	306,022	- <u>%</u> %		exclusive
-						: :				: : : : : :	: : :				57 17,409	vessels lassengers.	nages	revenue,
							::			<u>: :</u> :	:				306,257	Total tolls on vessels do lasseng do free god	Fines and dam Other receipts	Total
-			<u>:</u> :	<u>:</u> :			: : : :	:		: : : :	:	<u>:</u> :			13,963 247,543	Tota	Fine Othe	
469	206 174	: ;	; ;;	292	333	23.55	16 1064	33.9 	219	7 6	64	583	45	- <u>:</u>	13,845 13,	-		
		:	:	: :	::	::	: : : :	:				· :		389	58,559 13	_		
989	77	: :: : :=	2.855	303	227	: : N 00	327	: 88 8	75		-	227		:	11,415 5	_		
:	vare		:	:	:	: :		:				<u>:</u> <u>:</u> :,	having Rideau	Velland	1	_		
Bricks	Clay, lime and sand	Fish Flax and hemp Furniture	Flass, all kinds Iron, railway	pig all other	Meats other than pork	Oil, in barrels Paint	Pitch and tar.	Soda ash	its, beer, &c	te lead	Whiting.	Wool Merchandise	Kryolite, &c., free, having paid full tolls on Rideau Canal	Timber, free, from Welland to Port Robinson	Grand total freight			
Bri.		Fla:	Gla. Iron	පි පි	Mes Nail	Pai,	Pitc Salt	Sod Sod	Spir	CA	E NAI	ĕĕ K K ST	ÈãĈ ≰ ATIS	TICS.				

B. H. TEAKLES, Chief Clerk, Canals Revenue.

APPENDIX A-Continued.

No. (A) 8.—General Statement showing the Quantity of each Article of Through Freight transported on the Welland Canal, and the Amount of Tolls collected thereon, during the Season of Navigation in 1891.

ARTICLES.	Fr Cans Cans Por	From Canadian to Canadian Ports.	From Canadian to United States	om dian States ts.	From United States to United States Ports.	From United States to United States Ports.	Fr United t Can Po	From United States to Canadian Ports.	Τr	Tons.	Total Tons.	Amount of Tolls, Up.	Amount of Tolls, Down.	Total Amount of Tolls.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.				
Ashes, not and near!		10					:	35		9	40	66	* cts.	& cts.
			12		100	42		. 67	:	: : : #	e 4	4 65	08 8	8 8 8 8
ਨ ਜ਼ਿੰ∷	***		31			8,113			: : : %	8,113	8,113	5 25	1,622 60	1,622 60
Bones Brimstone Cement and water lime					66 413						 66 413	9 90 61 95		9 90
Clay, lime and sand.					185,190	1,382	17,368	20,698	202,558	22,080	224,638 185,180	40,511 60 0 45	4,416 00 37,035 40	44,927 60 37,035 85
Cotton, raw Crockery and earthenware Dye woods and dye stuffs									23.	: : -	235	35 10	0.20	
Flax and hemp. Flour Furniture.			6		: : 6N	6,802		2,191		8,993 11	8,993	1 65	1,798 60	1,798 60
Gypsum. Glass, all kinds. Hay, pressed	130	22	- & :						88.83	21		4 35 15 00	0.40	4 75 19 20
Horses.		: :	6	: :	-	. m		4		t- :	10	0.45	1.40	1.85
Hides and skins, horns and hoofs.	:	:		:	\$ 8		:		1.150		1.150	13 05 57 50		13 05 57 50

56	***		ria.
ヘに	- V 1	ヘナハ	min
uu	V 1	LZLAJ	и на.

Sessional Papers (No. 9A.)

A	1009	
Α.	1893	Þ

1,006							:	25	459			
1,000, and other 1,000, and			28	83	10		510	1,046	1,556	76 50	806 806	285 70
16 16 16 17 18 18 18 18 18 18 18					1,773	1,098		2.871	2.871			
13 16 16 16 16 17 18 18 18 18 18 18 18		:		-	10	. 116		126	138			
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,			:	:	26,096	. 67	:	26,163	26,163			_
13 6.3		:	· · · · · · · · · · · · · · · · · ·	9 886	:	-	16	~	5			_
13 13 14 15 15 15 15 15 15 15				6	:	:	93	:	9,00		:	
13 14 15 15 15 15 15 15 15	:	:	2	45	18	8	47	8	**		2 60	_
390 12 47 52,823 1,564 73 10,564 <th< td=""><td></td><td>:</td><td></td><td>:</td><td>:</td><td>:</td><td>92</td><td>: :</td><td>92</td><td></td><td></td><td></td></th<>		:		:	:	:	92	: :	92			
3990 12 73 73 73 73 73 73 76 77 78 7		:	:		52,823	- <u>:</u> - <u>:</u>	:	52,823	52,823		10,564 60	
3300 112 73 73 73 74 76 78 76 78 77 73 73 73 74 77 73 73 74 77 74 76 78 76 78 76 78 76		:		47	<u>1</u>	:	64		20.	7 35	0 20	-
330 12 73 201 12 274 180 78 <th< td=""><td></td><td></td><td></td><td>•</td><td>:: :: :: :: ::</td><td></td><td>:</td><td>-</td><td>:</td><td>:</td><td></td><td></td></th<>				•	:: :: :: :: ::		:	-	:	:		
12 12 13 13 13 13 13 13		:	:	•			:	330	330			
2 131 73 201 136 274 276 0 30 54 80 55 30 337 480 60 65,071 324 66 67 126 39 60 65 30 12 30 12 30 12 30 12 30 12 30 12 12 30 12 13 </td <td>•</td> <td>:</td> <td></td> <td>:</td> <td></td> <td></td> <td>12</td> <td></td> <td>12</td> <td></td> <td></td> <td></td>	•	:		:			12		12			
367 131 138 136 204 20 40 20 40 20 40 20 40 20 40 20 40 20 40 121 00 00 00 121 00		:	2		73	201	67	27.4	276			
387 480 264 66, 071 264 66, 071 36 66, 071 36 67 36 67 36 122 56 122 56 13,142 13,143 13,144			10	131		!	3	i	1.06			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				25.5		:	284	:	186		:	
387 480 211 494 65,071 817 65,071 65,888 122 55 13,014 20 13,136 2561 2561 21 2,385 2,567 31 80 471 00 502 2561 2561 31 471 00 502 1,320 40 1,440 40 1,440 40 1,440 40 1,440 40 1,440 40 1,440 40 1,440 40 1,440 40 1,440 40 1,440 40 1,440 40 1,440 40 1,440 40 1,440 40 1,440 40				<u>-</u>		- : : :		8	100			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		-	· :	:	3	65.071	- 10	20 49	000 40			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	-	.	:	<u>.</u> : :	:		110	110,00	000,000			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	<u>. </u>	- 8	:	911	104	:	910	9 9 9 8	0 567		•	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		1.56	:			. 92.	919	30,0	00,00			
2,813 2,813 281 2,813 281 381 382 3		1	:	: :	: : :		: °	700	700,0			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	for cutting	:		<u>:</u> :	:	-	3	-	•			0.1
32,163 36,250 256 256 27,27 51,60 5				9.813			9 212		9 919			
97 97 97 14 55 91		: : :	<u> </u>		956	: 6	2,010		2,010		•	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$:	:	COO.	•	- :	200	2007	•		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$:	:		::		į	:	:		:	
119 9 b, 220 202 167 43 2 11 2 14 6,220 33 933 32 10 658 0 658 0 8 9 660 60 17 77 9 00 3 40 12 3 8 243 32,097 128,710 3 192,970 192,970 192,970 346 56 36 6 6 1,237 1,243 0 0 241 0 0 248 0 0 0 36 56 0		<u>:</u>	:	1600		:	36	•	5			
119 14 202 16 43 2 11 329 341 316 65 8 31 31 65 67 17 9 67 19 20 10 20 67 10 20 10 20 6 10 20 0 10 20 0 0 0 20 0 10 20 0 0 0 20 0 0 20 0 0 20 0 0 20 0 0 20 20 0 0 0 0 20 20 0		:	:	0,220	<u> </u>	:::::::::::::::::::::::::::::::::::::::	6,220	•	6,220		:	
119		:	6	202	:		2 11	:	211			
1 60 8 60 17 7 9 00 3 40 12 32,163 3 32,097 128,710 3 192,970 192,970 36 45 36 45 36 6 1,237 6 1,237 6 1,243 0 90 247 40 248 99 5 398 46,355 1,779 46,852 2,063 48,915 7,027 80 412 60 7,440 43 49 4 92 4 96 18 78 0 78 19		119			167	43	14	329	343		£ 8	
99 60 17 77 9 00 3 40 12 32,163 3 32,097 123,770 192,970 192,970 3 45,94 38,594 00 38,594 00 38,594 00 38,594 00 38,594 00 247,40 248 0 0 247,40 248 0 247,40 248		-		-			-	_	_		080	
32,163 3 32,163 3 30,163 3 30,163 3 30,163 3 40,153 1,237 43,163 46,355 43,163 46,355 44,355 1,779 45,355 1,779 46,852 2,063 48,915 7,027 49 4 43 4 43 4 43 4 43 4 43 4 44 4 45 4 46,857 4 46,857 4 46,857 4 46,857 4 40 7 44 6 45 4 46,857 8 46,857 8 47 8 48 4 48 4 48 4 48 4 48 4 48 4 48 4 48 4 48 4 48 4 48 4 48 4				8	30	5.	9	17	77		8	
32,163 3 32,097 128,710 3 192,970 182,970 38,594 00 38,594 00 99 5 398 46,355 1,779 46,852 2,063 48,915 7,027 80 412,60 7,440 43 49 4 92 4 96 18,78 0.78 19				243			243		243		,	
32,163 3 32,097 128,710 3 192,970 192,970 6 38,594 00 38,594 00 38,594 00 38,594 00 38,594 00 38,594 00 38,594 00 38,594 00 38,594 00 38,594 00 38,594 00 38,594 00 30 247,40 248 00 247,40 248			:	:				-	1			
3 3 6 45 7 6 1,237 1,243 0 90 247 40 248 99 5 398 46,355 1,779 46,852 2,063 48,915 7,027 80 412 60 7,440 43 49 4 96 18 78 19		32,163	-	-	32.097	128.710	-	109 970	199.970		38 594 00	
99 5 398 46,355 1,779 46,852 2,063 48,915 7,027 80 247 40 248 43 49 4 92 4 96 18 78 0 78 19			8		·		Cr.	2	6		200	
99 5 398 46,355 1,779 46,852 2,063 48,915 7,027 80 412 60 7,440 43 49 4 92 4 96 18 78 0 78 19		-	: : :	<u>-</u> -	: : : :	:	<u>.</u>	:	•		:	2
99 5 398 46,355 1,779 46,852 2,063 48,915 7,027 80 412.60 7,440 43 49 4 92 4 96 18.78 0.78 19		: : : :	<u> </u>	<u>.</u> 	2007	:	:		::			
99 5 398 46,355 1,779 279 46,862 2,063 48,915 7,027 80 412 60 7,440 43 49 4 92 4 96 18 78 0 78 19		:	:	0	1,50	:::::::::::::::::::::::::::::::::::::::	0	1,23	1,243	3		
99 5 5386 1,779 279 46,852 2,063 48,915 7,027 80 71,440 7 43 49 4 96 18 78 0 78 19				1	- (-	-					
43 49 4 96 18 78 0 78 19	:			46,355	1,779	6.27	46,852	2,063	48,915		412 60	7,440 40
43 49 4 96 18 78 0 78 19		: : :		:::::::::::::::::::::::::::::::::::::::		<u>:</u> :: : : :	:			:		
			es	6	4	- :	35	4	8	18 78	0 78	
				:		-: -:			-			
								_				

				_		_				-				
Articles.	Fr Cana t Cana Po	From Canadian to Canadian Ports.	From Canadian to United States Ports.	om dian States ts.	From United States to United States Ports.	States States States	From United State to Canadian Ports.	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.				
						,						es cts.	e cts.	s cts.
		: :096 : : :	1,641	10,952		45,504		4,248	1,641	61,664	63,305	295 37	11,091 15	11,386 52
do do rafts Masts, spars and telegraph poles, in rafts										: :				
Masts, spars and telegraph	:	:	:	:	:	:	:	:		:				
do do in rafts														
Staves and headings, barrel.								:x0 :		: x 0	: x 0		1 50	1 50
do do W.India				::										
Split posts and fence rails, in		:									. :			
Split posts and fence rails, in			, ; ; ; ;											:
Timber, square, in vessels do do in rafts		2,080						18,238		20,318	20,318		3,046 56	3,046 56
Traverses. Woodenware and wood partly manufactured.									: = :	: :		4 40		4 40
Total freight paying tolls	8 8	38,892	3,357	10,952	247,543	306,257	17,368	305,586	268,948	661,687	930,635	٠.	50,271 40 129,647 94	179,919 34
Articles having paid full tolls on the St. Lawrence Canuls, Free.	,													
Ashes, pot and pearl		:	31	:		:		:	31	:	31	:		
Agricultural products, not enumerated, vegetable	:	:	52		-:	_: _:	:		52		52		: : :	

1,694 2,380 2,38)	196 171 71	58 399 75 137 848 96	58 399 75	6/6	Total through tolls	:	gh tolls.	tal throug	To						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ya.	:	8,128	62 30	\$2,136 20				ssels ssengers . e goods .	lls on ves pas fre	Total to de de					
2,386) 2,286 2,286 2,286 2,286 2,287 3,31 2,32 3,33 4,31 2,34 2,34 2,34 2,34 3,33 3,34 4,32 3,34 4,33 4,33	(10.			:	945,239	l		305,586	17,368	306,257	247,543	10,952	12,999	25	38,892	5,642 38,8
2,386 286 2,865 1,12 1,12 1,12 1,12 1,12 1,12 1,13 1,13	pers	:		:	544	<u> </u>	Ţ		:				544	• 1	:	Aryonte, &c., rree, having paid full tolls on Rideau Canal
2,386) 2,286) 2,286) 2,287 2,2					810		8		: :	: :	::	: :	583			227
2,386) 256 257 258 259 259 259 251 259 251 251 251 251 251 251 251 251 251 251	. I.		:	:	56 €		تم. 	:	:	:	:	•	49			1
2,386) 205 205 205 205 205 205 205 205 205 205	na				3 00		3					: : :	3 00		: :	- · · · · · · · · · · · · · · · · · · ·
2,386) 206 206 207 211 211 211 212 212 212 213 211 213 211 213 211 213 211 211	.01	: : : : : : : : : : : : : : : : : : : :		:	₹ ; §		₹; °	:		:	:	:	22 23 3 8		:	75
2,386) 206 206 207 211 211 212 2655 208 200 200 200 201 201 201 201 201 201 201	363				412		4						33.			20
2,386 286 2,865 112 2,855 112 2,855 112 2,22 2,23 2,23 2,23 2,23	<i>/</i> Ci				377		, ko					. :	, 330			38
2,386 286 286 30 112 2,865 596 596 64 64	K.			:	25.5	:	20.00	:	:	:		:	16		:	907
2,380 206 206 206 11 112 112 112 112 112 112 113 114 115 116 117 117 118 118 118 118 118 118 118 118					19	-	, 		: : : :				133			oc
2,380 206 206 2,285 2,285 2,285 2,285 2,285 2,285 2,285		:	:		32	:	3 e	:	:	:		:	3 5			59
2,380 206 206 2,380 1 1 1 1 112 112 595 595				:	1.087		2	:	:	:	:	:	1 1		:	266
2,380 206 201 251 1 1 1 112					292	110	20						292			303
2,380 206 201 251 7 7 1 1 1 30 9	•				112		, :: ::						112	:		
2,380 206 251 7 1	18	:		:	9 25 25 26 26 26 26 26 26 26 26 26 26 26 26 26		- - - - - - - - - - - - - - - - - - -	:	:	:	:	:	8		:	9 855
2,380	,OI					: :		: :					• :			
2,380	•		:			:			:	:	:	:			:	
2,380	10			:	201		§ `	:	:	:	:	:	# / T		:	
2,380	·		:	:	8	9	₹ 			:	:	:	98		:	
			:		2,380		8,3				:		1,694			989

DEPARTMENT OF RAILWAYS AND CANALS.
OTTAWA, 1st March, 1892.

No. (A) 9.—General Statement, showing the Quantity of each Article of Way Freight transported on the Welland Canal and the Amount of Tolls collected during the Season of Navigation in 1891.

	From Canadian	rom nadian	Fr	From Canadian	Fr United	From United States	_	From United States	Ę	E				
ARTICLES.	Cans Pol	to Canadian Ports.	United Po	to United States Ports.	United Por	United States Ports.		Canadian Ports.		é	Total Tons.	Amount of Tolls, Up.	Amount of Tolls, Down.	Total Amount of Tolls.
	U.P.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.				
												s cts.	ee cts.	e cts.
Ashes, pot and pearl		1.101	:							1,101	1,192	1 78	27. 55	29 33
products, not				400						007	400		20 00	20 00
enumerateu, vegetalue gricultural products, not	: -	:	:	3					•		1	,		
enumerated, animal	: :				: :									
BarleyBricks	: 7 1			: :					 		14	Z 0		0 27
		: :	: :	: :	: :		: :			: :				
Cement and water lime	02			, ,					70	G :	<u>. 6</u>	5	20 D	o.r. 58
	2 ::		: :			:	9	:	9	:	9	0	:	09 0
	:			: :	: :						1	0 00		0 02
Cotton, raw							: :		5			0.10	: :	0 10
Dye wood and dye stuffs	25		35.						.:. 70	: :	0.2	5.26		5.26
Flax and hemp.	}	: :	:			:	:		:	4 594	4 594	:	112 16	:
Flour		4,524							: :	1,007	1,047		80 0	0 03
	-	:										0 02	: :	0 02
Hay, pressed	•					:	:	:	:	:	:		:	:
Hogs		<u>.</u>			: :				: 25 : :	2	57	1 00	0 17	1.17
Hides and skins, horns and														

STATEMENT Showing the Quantity of each Article of Way Freight, &c.—Concluded.

•		_		_							_			
ARTICLES.	Fr Can Can T	From Canadian to Canadian Ports.	From Canadian to United States Ports.	om dian States ts.	Fr United t United Pol	From United States to United States Ports.	From Canadia to United St. Ports.	From Canadian to United States Ports.	Tons.	.se	Total Tons.	Amount of Tolls, Up.	Amount of Tolls, Down.	Total Amount of Tolls.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.				
												cts.	& cts.	e cts.
Firewood, in vesselsdo	1,434	7,032	720			: :		: :	2,154	7,032	9,186	60 33	347 11	407 44
es sawn, in vessels		1,522		: :28						1,572	1,572		158 51	158 51
do do rafts Masts, spars and telegraph	: :		: :			: :								
Masts, spars and telegraph Z poles, in rafts. G Railway ties, in vessels.	: :	:33		264		: :				327	327		28 03	. 28 03
Saw logs.	343	6,1		1,462					343	3,423	3,766	19 82	141 05 12 40	160 87 12 40
do do W.India							: :							
Staves, salt barrel. Shingles Split posts and fence rails, in		19						: :		10	19		7 81	7 81
vesselsSplit posts and fence rails, in	<u>:</u>	:	:	:	:	:		:	:	:				
rafts Timber, square, in vessels do do rafts	245	38	: : :						245	82	36 262	14 13	88 88 88 88	3 88 16 49
Traverses. Woodenware and wood partly manufactured		: : : :												
Total freight paying tolls	5,773	19,278	846	3,011			41	436	6,660	22,725	29,385	186 01	1,379 33	1,565 34
Timber passed free from Welland to Port Robinson		389	:	:	:	:		:		389	386		:	
Grand total freight	5,773	19,667	846	3,011			41	436	6,660	23,114	29,774	:		

298 86	2,652 17
350 , 98 157 14	764 72 1,887 45
436 99 141 72	
Total way tolls on vessels	Total way tolls

B. H. TEAKLES, Chief Clerk, Canals Revenue.

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 1st Murch, 1892.

93

Article transported on the St. Lawrence Canals, and the Amount Season of Navigation in 1891.	Total Amount of	Tolls.	s.	40 21 47 45 726 09	0 89 11	137		5 574 16 5 18 38	14 647	1,517		80	S ∞	33	655	161	3₺	æ₹	7 8	3 4 52
ls, and t	40	Down.	sto &	13 4 721 4	40 70		347.9				1,886 1,890 1990 1990		, , , , , , , ,	85 83	605 5	123 19	12.22	æ. æ.⊊	184	4 43
nce Canal	Amount	Tolls, Up.	e cts.	8 07 4 64	48 41	6 26		86.0 0.00	649 446	893	: O	88				% e ≇ 5			8 18	60 0
t. Lawrei 1.	Total Tong	TOTIS:		112 5,088	627	973	17,606	13,710	159 4,609	32,259	12,339	402	100	8%8	4,799	1,013	464	1,599	390	æ
nsported on the St. Navigation in 1891	ns.	Down.		67 5,035	278	895	17,386	135			12,335		13.26		: √	969			266	31
orted o	Tons.	Up.		53	349	8.5	83 -	13,70	159 4,587		4.5	કુ જ	85 78 85 78	287	, 0 <u>0</u>	317	382	1,042	124	61
rticle transporeson of Navi	From United States to Canadian Ports.	Down.		::	:	:			:::	110 184	12,169			:		:		:		:
Article tra	Fr United Can	Up.			:	& 		133	:	3,371		:		:	: :	:		:		
ity of each	From United States to United States Ports.	Down.			:	•		: :		1.040	68		: :	: : :	107	:		:		
antity of	Fr United Po	Up.		99	:	:			: :	:		: :		:	: 1	:		∞		
the Qua	From Canadian to United States Ports.	Down.			: :			: : : :	: :	:	-	: :		:		:		:		
showing the Quanti of Revenue collected	Fr Cana United Po	Up.		31	52			:		8		: :	251	2		1	: ≈ :			
of of	From Canadian to Canadian Ports.	Down.		67 5,035	278	895	17,38	135	:	9,299		:	82		∶ຕົ	969 282			266	3
STATE	Fr Cans t Cans Po	ďΩ		8 17	297	38 2	220	19,091	3,124	19,383	. 4.%	हैं हो	187 49	80	693	316	352	2	124	67
No. (A) 10.—General Statement showing the Quantity of of Revenue collected durin	ARTICLES.			Ashes, pot and pearl	Agricultural products, not enumerated, vegetable	Agricultural products, not en- umerated, animal.	Barley	Bones	Cement and water lime	Clay, lime and sand	Com	. **	Crockery and earthenware Dye wood and dye stuffs	Fish Fish Figure 1	Flour	Furniture	Glass, all kinds	Hay, pressed	Horses	hoofs

RAILWAYS AND CANALS.

-Teneral Statement showing the Quantity of each Article transnorted &.

Artcles.	From Canadian to Canadian Ports.	rom nadian to nadian orts.	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 Cana Pon	From United States to Canadian Ports.	Tons.	ns.	Total Tons.	Amount of Tolls, Up.	Amount of Tolls,	Total Amount of Tolls.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		•		
												e cts.	s cts.	& cts.
Firewood, in rafts Hoops Hop poles Lumber, sawn, in vessels	27,383	15,586	1,025	416					28,408	16,002	44,410	1,032 52	485 93	1,518 45
Masts, spars and telegraph Masts, spars and telegraph Masts, spars and telegraph poles, in rafts.	715	20,986							715	20,986	20,986	14 28	524 65	524 65
do rafts w logsaves and headings, barrel	197	15,401							197	• :	15,598		351 44	355 94
do West India. Staves, salt barrel Shingles. Split posts and fence rails. in	10	. :6 . :									91	2 51	0 17	0 17 3 26
Vessels Split posts and fence rails, in raits Timber, square, in vessels Traverses	3,422	1,933 3,348 10,280							3,422	1,933 3,348 10,280	2,183 6,770 10,280	3 25	33 53 84 00 26 75	36 78 169 70 26 75
Woodenware and wood party manufactured	68 88	1	: 60		. 60			٠ ١	1	١٠	36	1	08 0	12 40
Lotal Ireignt paying toils. Free articles having paid full tolls on the Welland Canal. All other products vecestable	131,022	252,036	10,620	1,040	3	1,701	3,008 3,008	137,013	151,892	392, 2	044,1	10,003 /4	32,303 80	43,513 60
Ashes		1 88	<u> </u>				: ;			10	100			

OF RAILWAYS AND CANALS,	OTTAWA, 1st March, 1892.
EPARTMENT (

Corn		55,264	:		<u>:</u> :: ::	÷ :	÷	÷	:	55,264	26,264		:	
						: :		: :		20	(N)			
		, ,	:	:		:	<u>:</u> ::	· ·	:	 (:		•
Horses		-	:	:	: : :	:	:	=	:	77	ž	:	:	• • • • • • • • • • • • • • • • • • • •
John programme	:	5(1	:	:	:	:	:	: :	:	3/1	2/1	:	:	•
Total dark load oil	:	15	:	:	<u>:</u> ::	:	: : :	: :	:	12	1,5		:	
Moste all binds		20°	:	:	-		<u>:</u> -	8		26	199	:	:	:
Douge	:	8	:	:	:	<u>:</u> : :	:	<u>:</u> _	:	ş	5		:	• • • • • • • • • • • • • • • • • • • •
E cano		200		:	:	:	:::::::::::::::::::::::::::::::::::::::	: : :	:	900	200		:	
FUK	:			:	:	:	:	: : :	:	20070	100			
Cools all binds		076'E	:	:	-	<u>:</u> :	:	<u>:</u>	:	070,40	97.40		:	: : : : :
Tobacco		9-			<u>.</u> : :	<u>:</u> :	<u>:</u> :: ::	<u> </u>	:	9 -	9 7		:	•
TITLE	:	7 400	:	:	:	:	<u> </u>		:	140 404	TO WOL	:		
VI DEST	:	006,801	:	:	-	:	:	-	:	103, (30	103,100		:	
w miskey and otner spirits	:	3	:	:	:	:	<u>:</u> :		:	040	100		:	
Terchandise	:		:	:	:	:	:	· ·	:	0/9	0 50		:::::::::::::::::::::::::::::::::::::::	:::::::::::::::::::::::::::::::::::::::
E	:	2,091	:	:	:	<u>:</u> :: ::	:	3	:	N N	2,991		:	
do ratts	:	917		:	:	: :	· : :	<u>:</u> :: ::	:	212	JI6	:	:::::::::::::::::::::::::::::::::::::::	
Square number, in vessels	:	140	:	:	•	<u>-</u>	:	:	•	140	041	:	:	:::::::::::::::::::::::::::::::::::::::
do do rafts		5,680	:	:	::	:	-			5,680	5,630			: : : : : : : : : : : : : : : : : : : :
Coal, free, per Order in Council	70,276	:	8	:	o o	:	24,306	:	86 35	:	94,690			
Material for Canal Construc- tion.										***************************************				
Cement and water line, free,		262								230	230			
	:	66	:	:	<u>:</u>	<u>.</u> : :	<u> </u>	:	:	3	3			•
Order in Council	568								2563	:	263			
Kryolite free, having paid full		:		:	<u>. </u>	<u>.</u> : :	: : :	:	<u> </u>	:	3	:	: : : : : :	•
tolls on the Rideau Canal	:	1,410	:	:	<u>:</u>	- : : :	<u>:</u>	<u>.</u>	:	1,410	1,410		:	:
Grand total freight	203,211	547,727	10,725	1,545	645	1,701	33,314	137,926	247,895	688,889	936,794			:
		_		Total tolls on vessels	on vessel	- 00	-	-	-	-		9.222 60	6.965	16.188
				දි.	passed	passengers							2,334 68	3,024 63
				op E	tree	free goods	:	: :	:	10	\$13,140 38	200		
				Fines and damages Wherfage and storage	and store			:	:	:	:			4.187.84
				Other receipts	ipts									
					To	tal revent	ae exclusi	ive of hyc	Iraulic re	Total revenue exclusive of hydraulic rents	:	20,516 29	42,210 27	80,653 97
								•		,		.		

APPENDIX A—Continued.

No. (A) 11.—General Statement showing the Quantity of each Article of Through Freight transported on the St. Lawrence Canals, and the Amount of Tolls collected during the Season of Navigation in 1891.

ARTICLES.														
	From Canadian to Canadian Ports.	milian	From Canadian to United States Ports.	m lian States	From United States to United States Ports.	States States States ts.	From United Stat to Canadian Ports.	From United States to Canadian Ports.	Tons.	J.S.	Total Tons.	Amount of Tolls, Up.	Amount of Tolls, Down.	Total Amount of Tolls.
٦	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	· Up.	Down.			·	
	 											e cts.	e cts.	s cts.
Ashes, pot and pearl	က	67	8						₹ :	67 4,726	101	08 9	13 40 708 90	20 20 20 20 30
	236	267	52	:	:	:	:		288	267	555	43 20	40 05	83 25
Agricultural products, not en- umerated, animal	2	853	_ <u>:</u>	:	:	:	:	:	70	853	858	0 75		128 70
Agricultural implements	•	8,871		: :				: :		8,871	8,871		177 42	177 42
Bricks Bones	. 	103	39 4		92		: :		ETG ::	103	103	CR 9/	15 45	76 35 15 45
one	2 950	•	1.463					: :	3,713		3,713	556 95		556 95
: :	8	2,452	306	:				100 800		2,452	2,718	8		407 25,55
							: :	12,169	: : : :	12,253	12,253		1,827 68	1,827 68
Cotton, raw.	.67	:				: :			. 67	: é	1 07 g	•		389 100 100 100 100 100 100 100 100 100 10
y and earthenware	22	<u>8</u> 2				::			§ 20.5	32	18	303 1-1	88	99. 99.
:	6	:		: :					104		\$ -	c 0		0 15 E
Flour Flour Furniture.	::::::::::::::::::::::::::::::::::::	8, 286 286	ा <u>नं</u> :							86 86 86 86 86 86 86 86 86 86 86 86 86 8	3,980 667	17.40	597 00 116 00	597 00 133 40
Glass, all kinds.	. 88	52	: 83 :	: :		: :		: :	314		398	62.80	10.40	73 20
Hay, pressed. Hogs Horses	3 : 3 :	228			: : :				91	23	23	1 -	4 to	4 05 6 75
Hides and skins, horns and hoofs	:	8	:	:	:	:	:	:	:	8	8	:	4 35	4 35
Ice	-	: ::	- <u>:</u>	- 	:			:	:::::::::::::::::::::::::::::::::::::::	- :	:	:		

P 0	T7		
56	- V 1	cto	ria.

Sessional Papers (No. 9a.)

	- 4	200	
Δ	- 13	893	

467 70 0 15 467 85 500 70 500 70 287 25 3 00 290 25	103 25 103 25 2 85 2 70 0 15 2 85 0 90 2 86 0 90 2 86 0 90 0 15 0 90 0 90 0 90 0 90 0 90 0 90	60 395 93 2 00 102		920 920 210 0 8	142 80 142 80 86 70 86 70 455 60 0 20 455 80 91 60 102 00 133 60 0 15 0 45 0 60 1 95 1 95 83 90 0 40 83 40	88 966	803 20 328 20 1,131 40 31 18 2 26 33 44 65 80 65 80
3,119 3,338 1,935	2,065 :: 139 :: 19 6 13	1,977 1,977 140 512	10,367 17 88 343 52 171 171 833	6,135 1,406 3 100	2,279 2,279 2,279 2,279 13 13 4	11,591 100 299 13	5,657
3,118 3,338 1,915 20	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1,969 140 1,222 90	10,367 9 8 10 78 80 63 45 7 1 170 833	:::		: :	166 1,641
			280 280 280 10	6,13	2,278 578 2,278 458 1 1 13 13 145	55,648	4,016
						16	
112 478		363		266 %	<u> </u>	: :: : : : : : : : : : : : : : : : : :	\$
- 8	2,065 111 1	8 140 90	10,367 8 7 63 170 170	<u> </u>		: ::	1,641
3,118 3,226 1,437	28 18 13	109 1,606 357	254 254 233 234 233	2,138	364 555 1,839 177 1 13 392	249 249 9	3,169
fron railway. do pig do all other Iron ore	ज़िस् <u>व</u> : व :	arrels.			Soda ash Soda ash Steel Sugar Sprits, beer, &c. Tobacco, raw Tallow	Turpentine Wheat White lead Whiting Wool All other goods and merchan	dise not enumerated Bark Barrels, empty Boat knees Floats Floats

No. (A) 11.-General Statement showing the Quantity of each Article of Through Freight transported, &c.-Concluded.

ARTICLES.	From Canadia to Canadia Ports.	rom nadian to nadian orts.	From Canadian to United States Ports.	dian Jian States ts.	From United St United St Ports.	From United States to United States Ports.	From United State to Canadian Ports.	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.				
Firewood, in rafts												\$ cts.	e cts.	& cts.
Hoope		:	:	:			:	:	:	:	:	:	:	:
Hop polesLumber, sawn, in vessels	243	843							243	843	1,086	21 75	80 25	102 00
Maste, spers and telegraph									-					
Masts, spars and telegraph	:	:												
Railway ties, in vessels			: :											
do rafta	:	:	:	:	:	:	:		:	:				
staves and headings, barrel.				: :										
op op	:	:	:	:	:	:	:	:		:				
taves, salt barrel								: :						
hingles.	:	:	:	:	:	:	:	:	:	:				
vessels. Split posts and fence rails, in	:	:	:	:	:	:	:			:			:	:
Parts	:	:												
					• :									
Traverses Woodenware and wood partly	: 8	:		:	:	:			8	:	6	11 80		
manufactured	3			:					3		24			3
Total freight paying tolls	22,920	88,729	9,549	:	92	:	:	118,617	32,545	207,346	239,891	5,476 78	27,519 48	32,996 26
Free Articles having paid Full Toils on the Welland Canal.									. ,					
A conjustitional anadropts fro													,	

10,728 2,888 3,888 3,888 1,988	5,364 22	5,359 14 292 90	\$8,444 47			1 :::	-	-		усвае): развелдеть	colls on vessels.	Total through tolls on vessels
apa :	:		541,028	500,532	40,496	10	119,530	119,53	119,53	76 119,53		
:	:	::	1,410	1,410	:	:	÷	: : :	:			
		- <u>:</u>	7,951		7,951	:	:	:			-	
		(8)00	5,690 159,785 105	5,680 159,785 105		: :84 :						
		<u> </u>		07.		: :		_				
			8 8 8	201	: :		::	<u>: :</u> : :				
			67 278	278		800	•					
		5 5	2,891			:64						9
			2	2,991		_: :	•					9
	: : : : : : : : : : : : : : : : : : : :	(6)	371 ₂ 1	371 100 2,991		. 	: ::					9
:		# 03 03	837. 87. 1001	2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2		::::	11111					8

B. H. TEAKLES, Chief Clerk, Canals Revenue,

Total Amount of Tolls.		e cts.	$\begin{array}{c} 1 & 27 \\ 17 & 19 \end{array}$	98 2				14 98 90 62 1.110 19								13 13 13 13 13 13 13 13 13 13 13 13 13 1		0 17
Amount of Tolls. Down.		s cts.	12 55	0 65		170 52 170 52		0 93		25 61	0 05	2 88	•			- 8 8 2		0 08
Amount of Tons, Up.		s cts.	1 27	5 21	.c.	Z 4 S	2°;	\$ 8 8 5 \$ 8 8 8 \$ 8 8 8	0	1 88		4 21	0 9	₹ 5	ន	12 10 37 85		60 0
Total Tons.			11 362	72	115	8,735	19,137 46 170	29,541	22,399 86	888	:85 : :	22.4		818 846	1,718	1,	345	4
ns.	Down.		306	11		8,515		6.847			-	41	:			8 257	:	- 67
Tons.	Up.		11.	61	23	223 S	14,61	22,694 874	: 4	88		188		38	1,531	8 8 3	114	63
From United States to Canadian Ports.	Down.								18,384	:			:	: :			: : : : : : : : :	
Fr United	Up.		: : : : : :		8	: G	13	3.371	` ; ;	:	: :	8 :	:	:				
From United States to to United States Ports.	Down.	······			:				1,040	:	: :) 			: :	<u>:</u>
Fr United United Po	Up.		9	:	:					:			:	•		: %		
From Canadian to to United States Ports.	Down.								62	:			:	:				
Fr Cans United	Up.									:			:		: :	35	: :	
From Canadian to Canadian Ports.	Down.		608	=		8,5	32	:	.અ	353		4	:			55.08 25.08		61
Fr Cans to Cans Po	Up.		47	19	88	1889 1889 1889	14,303	19,323		88	8	183 183	100	983	1,531	8 68 8 68	114	- 83
ARTICLES.		,	nd pearl	Agricultural products not enumerated, vegetable	enumerated, animal	Agricultural implements Barley	Bones	Cement and water lime	Conl		Crockery and earthenware	Dye wood and dye stuffs	Flax and hemp.	Flurniture	Gypsum	Glass, all kinds Hay, pressed	Hogs. Horses	Hides and skins, horns and hoofs

1126 1126 1126 1126 1126 1126 1126 1126	1,126 9,142 624 1,126 1,126 1,246 1,246 1,246 1,246 1,246 1,246 1,537 1,102 1,537 1,102 1,537 1,102 1,537 1,102 1,537 1,102 1,537 1,032 1,537 1,032 1,637 1,63	241, 171, 173, 173, 173, 173, 173, 173, 17
	25, 25, 25, 25, 25, 25, 25, 25, 25, 25,	11 181 46 184 185 184 185 184 185 184 185 184 185 184 185 184 185 185 185 185 185 185 185 185 185 185

From Canadian Canadian Canadian United States Un Canadian Canadian Canadian Canadian Canadian Canadian Canadian Canadian Canadian Canadian Canadian Canadian Canadian Canadian Canadian Canadian Up Corts. Firewood, in vessel Canadian Canadian Canadian Up Corts. Hoppoles Canadian Ca		_					
Ports. Ports. Ports. Up. Down. Up. Up. Down. Up.	From tes United States to to Canadian	ates	Total.	Total	Amount	Amount	Total
Up. Down. Up. Down. Up. Down. 2,256 7,005 1,065 75 27,140 14,743 1,025 416 75 7715 30,966 30,966 1,025 416 10,260 10 6 1,983 3,422 3,346 3,346 7 7 7 7 7 7 7 7				Tons.	or rotas, Up.	Down.	Tolls.
2,256 7,005 1,065 27,140 14,743 1,025 416 775 20,966 716 197 15,401 6 10,280 1,983 3,422 3,348 7 7	ďD	Down.	Up. Down.				
2,256 7,005 1,025 416 27,140 14,743 1,025 416 715 20,966 715,401 197 15,401 9 9 9 10,280 3,422 3,348 7					e cts.	& ots.	ets.
27, 140 14,743 4 4 4 4 4 4 4 4 30 30 10,280 10,280 7 7		<u> </u>	2,331 8,070	10,401	16 88 16 88	225 56	284 47
20,966 715 20,966 715 30 10 6 3,422 3,348 3,422 3,348 7			98 165 15 159	49.894	1.010 77	405 68	1.416.45
177 118 023 623 623 623 623 623 623 623 623 623 6		<u>' : </u>	•		<u> </u>	0 15	0 15
117 101 102 103 103 103 103 103 103 103 103 103 103		<u>: :</u> :	30,986	30,986		524 65	33.
197			:	:	14	• :	14 87
3, 250			197 15,401	15,598	25 25	351 44	355 94
3,482	;	÷ ;	: :	: : : : : : : : : : : : : : : : : : :	:::		
			10	9 16	2 51	0 75	0 n
8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8							
ed partly			3,422 3,422 3,348	2,183 6,770	28 20 20	82 82	36 78 169 70 36 75
			10,1			8 0	
Total freight paying tolls. 108,622 163,307 1,080 1,545 637 1,701 9,	9,008	18,396 11	119,347 184,949	304,296	5,126 96	5,390 38	10,517 34
Free articles having paid full Toleonthe Welland Cand.				Š			

90	v igioria.		Dessi	оцал	rapers	(14)
:		:	5,464 97 1,685 23	17,017 54	venue.	
		:	1,601 51 638 18	7,630 07	B. H. TEAKLES, Chief Clerk, Canals Revenue.	
		395,766	3,863 46	9,887 47	SAKLES F <i>Cler</i> k, C	
85,739	553 241 145 145 145 145	395,766	ssels. passengers free goods.		B. H. TI Chie	
:	539	188,367			7	
86,739	563	18,396 207,399 188,367				
		1				
24,306		33,314				
		1,701	sels passengers	lls		
- 00		645	passels.	Total way tolls	ę	1
		1,545	ty tolls on do	Tota		ren, 10
		1,080	Total way tolls on vesselsdo do passengers do free goods		CANALE	Oftawa, 18t march, 1032.
	539	166,725			8 AND	TTA wa,
62,425	563	172,360			AILWAY)
Coal, free, per Order in Coun-	Free articles for Ganal construction, per Order in Council, 1884. Cancest and water lime. Clay, lime and sand. Iron, all other. Stoone, for cutting. Timber, square, in vessels	Grand total freight 172,360			DEPARTMENT OF RAILWAYS AND CANALS,	
				CAN.	AL STATISTI	C8.

Up	Ports	Fron Canadian to United Sta	From Canadian to United States	From United Sta to United Sta Ports	From United States to United States Ports	From United States to Canadian Ports.	From ted States to anadian Ports.	Tons.	ns.	Total	Amount of
_	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Lons.	1 0118.
Ashes, pot and pearl 18 Apples Agricultural products, vegetable 1 do do animal 6 Agricultural implements 3 Barley	88 88 88 88 150 7.0 1.1 0.0 150 0.0 15							118	28 432 1,407 130	28 444 433 1,413 16 150	\$ cts. 5 32 1 93 40 79 117 02 11 22
Bricks	18			: :					18	18	1.80
Brimstone Cement and water lime Clay, lime and sand	7,689							402	7,689 648	24 8,091 648	22.985 22.9 222 23.78
Corn. Cattle Cotton, raw	750								092	750	
Crockery and earthen ware Dye wood and dye stuffs Fish.										£	0.26
Flax and hemp. Flour Furniture.	106							9	106	112	10 05 4 44
Gypeum Gypeum Glass, all kinds Glass, all kinds Hays Horses Horses Hides and skins, horns and hoofs	263 263 8 166 37							18	263 8 166 37	263 8 184 37	25 23 0 60 10 51 3 33

F A	TT	•		
5 6	V.	ıc	toi	ia.

Sessional Papers (No. 9A.)

A. 1893

Kryolite, chemical ore and other ore, except iron. Lard and lard oil. Meal, all kinds Meats, other than pork.		1,784 4 171 81						1,784 17 81	1,784 4 17 81	- 21 - 21 - 21 - 22 - 23 - 23 - 23 - 23 - 23 - 23 - 23
Marble Manilla Molasses Nails Oats	24.	1,038					24	1,038	1,038	
Oil cake Pease Postoces Portro	25	2,749 451 27				<u> </u>		2,749 451 27	2,749 465 52 1	
Fitch and tar. Rags Rye.	· · · · · · · · · · · · · · · · · · ·							£.	. 47	0.4
Kosin Kana Skone intended for cutting. do wrought.	16						19	: 		_2528 :000 :
do not suitable for cutting, unwrought. Seeds, all kinds Sheep. Soda ash		431						431	431	32 59 32 59
Steel Sugar Spirits, beer, &c		. : : 61 fs -			: : :		16	: : : :		2.6
Toblocco, raw Tallow Tin Turn	. R	22					· (N	22		80
Wheat White lead Whiting		18 10 10 10 10 10 10 10 10 10 10 10 10 10						18	18	
All other goods and merchandse not enumerated. Bark Barrels, empty	3 : ;	 					F : :		88	
Boat knees Floats Firewood, in vessels do rafts.	75	31,600		1,542			12	31,600	31,600 45,466	335 12 1,812 7.
Hop poles Lumber, sawn, in vessels do rafts.		317,923	0 7	5,548				423,471	423,471	32,352 80 9 15

No. (A) 13.-General Statement showing the Quantity of each Article transported, &c.-Concluded.

Amount of Tolls.		e cts.	71 97	292 24	465 49	163 90 55 32 0 50 1 01	36,601 56		
Total. Tons.			436	12,662	597	2,684 3,240 300 200 6	540,431	486 2,220 16,440 10,678 10,000 4,786	585,041
Tons.	Down.		435	12,662	769	3,240 3,240 200 200	1 539,660	386 2,220 16,440 10,678 10,000 4,786	584,170
ŭ	Up.						E	100	871
From United States to Canadian Ports.	Доwп.							•	
Fr United Cans	Up.								
From United States to United States Ports.	Down.								
From United St. To Io Ports.	Up.								
om dian States	Down.	<u> </u>			346	1	107,435		107,435
From Canadian to United States Ports.	Up.								
disn disn tts.	Down.		\$3	12,662	: : : : : : : : : : : : : : : : : : :	2, 8, 8, 9, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	432,226	386 2,220 16,440 10,678 10,000 4,786	476,735
From Canadian to Canadian Ports.	Up.					:	177	100	871
ARTICLES.			Masta, spars and telegraph poles, in rafts	do rafts. Saw logs Staves and headings, harrel	Staves, salt barrel Shingles	Opple posts and lence rails, in vessels do do do Timber, square, in vessels do Fafts Traverses Woodenware and wood narily manufactured	Total freight paying tolls	Articles Free per Order in Council. Lumber, sawn, in rafts Timber square do Floats Railway ties, in rafts Friewood do	Grand total freight

RAILWAYS AND CANALS.

00	A IC	SWI	la.
3,675 92		10 00	40,450 39
Total tolls on vessels	do passengers. do free grods.	Whattage and storage Fines and damages.	Other receipts Total revenue, exclusive of hydraulic rents

B. H. TBAKLES, Chief Clerk, Canals Revenue.

ALFERNAL.—GENERAL STATEMENT showing the Quantity of each Article transported on the Chambly Canal, and the Amount of Raying the Scason of Navigation in 1891.

ARTICLES.	Can Can Po	From Canadian to Canadian Ports.	Fr Cans United	From Canadian to United States Ports.	Fr United Tonited	From United States to United States Ports.	Fr United Can Po	From United States to Canadian Ports.	To	Tons.	Total Tons.	Amount of Tolls.
•	Up.	Домп.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Боwп.		
												ee cts.
Ashes, pot and pearl	•	2	:	:	:	:	:		:	955	958	:
pples	·		:	:	:		:	? -	•	3 -	3-	200
Agricultural products, Vegetable								•		:	' : : :	
Agricultural implements							:	:		:	:::::::::::::::::::::::::::::::::::::::	
Barley		88	205	:		: :	:		204	88	842	4.5
Bricks	<u> </u>		241	:	:	:	:	717	5 5 5 7		₹.	33
bones	<u>:</u>	:	Š		:		:	140	5	140	140	25.
Compart and water lime							: :	8	: :		31	. es
Clay, lime and sand	410		245	:			:	3,948	55	3,948	4,603	
Coal	20	215						85,995	92		86,286	8,455
Corn	:	::	:	:			:	:		. 1		
Cattle	:).c	:	:			:	:				1
Cotton, raw.	:	99		<u>:</u>	:		:	:	:	:83		2
Dye wood and dye stuffs		3	: : : :					:38		55		2 20
ish	:	:	:	:	:	:		:				
Flax and nemp	3	: 6		:					8	72	228	2 60
Furniture		i :						L		L-	t•	-
Gypsum	:	:	:	:	:	:		:	:	:	:'	
Glass, all kinds		:		:		:	:	-			1 0 705	010
Hay, pressed	323	2,323	133	:	:	:	:	:	402	670,7	2,100	err
	: : :	: "	:	:	:	:		:			•	06 0
Hides and skins home and hoofs											' : ! !	
	:	- :	:				:	:		:		:
ilway	<u>:</u>		:		:	:	:	:	:	:	:	
do pig.	: 8	:			:	•	:	: °		:	: 6	1 04
o of other		_							1			

	,			
56	Victoria.	Sessional	Papers	(No.

. 9**i.**) 1893 5,791 ryolite, chemical ore and other ore, except iron... ard and lard oil..... Meal, all kinds..... not suitable for cutting, unwrought..... Stone intended for cutting..... Marble..... All other goods and merchandise not enumerated. Sarrels, empty Hoops ... adoop Luinber, sawn, in vessels.. Manilla, Nocl Soda ash.... Jil cake. Meats, other than pork. 'irewood, in rafts..... Hop poles 'obacco, raw. Soat knees...... Paint. Firewood, in vessels Molasses..... Nails..... Floats..... ork Potatoes Jil, in barrels. urpentine Steel..... .ye.... Pitch and tar ease.... White lead

Sheep

Sosin

	Cans	From	Cana	From Canadian	Fr. United	From United States	Fr United	From United States				
ARTICLES.	C. P. S. S.	to Canadian Ports.	United St.	United States Ports.	United Po	to United States Ports.	Cans Po	to Canadian Ports.	J.	Tons.	Total	Amount of Tolls.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		
		ĺ									•	e cts.
Kallway ties, in vessels do rafts	1,859	189	745						2,604	189	2,793	218 93
rw logs aves and headings, barrel			<u>:</u>	: :								
do do pipe do West India												
aves sate that it.	118		88						146	: :	146	17 35
do do rafts										: :		
do rafte							: :	: :				
Traverses Woodenware and wood partly manufactured		: :										
Total freight paying tolls	56,418	7,547	66,881					98,073	123,299	105,620	228,9T9	16,842 15
Grand total freight.	56,763	7,547	66,881		:			98,073	123,644	105,620	229,264	
		Total to d di Fines a Other r	Total tolls on vessels do passengers do free goods Fines and damages Other receipts	vessels passengers free goods mages							\$30.34	2,437 84 66 59 9 60 75 39
			Total	revenue (xclusive	Total revenue exclusive of hydraulic rents.	ulic rents					19,430 88

112

Amount of Tolls. No. (A) 15.—General Statement showing the Quantity of each Article transported on the Rideau Canal, and the Amount of ့ထ_{ည္လ} Total Tons. Down. Tons. ď. Down. United States Revenue collected during the Season of Navigation in 1891 Canadian Up. Down. From United States to United States Up. Down. to United States From Canadian Ports. Down. to Canadian From Canadian Ports. ď vegetable... Agricultural products not enumerated, Hides and skins, horns and hoofs ARTICLES. Crockery and earthenware. Agricultural implemente ye wood and dye stuffs Ashes, pot and pearl. Fish.... Flax and hemp railway. all other "urniture .. Hay, pressed ypeum 113

Caradian to the conting Caradian to the caradian to the conting Caradian to the caradian	Partial to the control of the contro	Down.	United States To Down. Up. Down.	United to Canad Port Up.	States dian ts. Down.	Tons. Tons. 1,815	B. Down.	Total Tons.	Amount of
Ore and other ore, except iron 1,815 888 19 19 28 19 147 269 147 269 147 269 149 21 26 21 21	Down, Down,			d n	Down.	200	Down.		Tolls.
ore and other ore, except iron 1,815 19 19 10 10 10 10 10 10						1,815	 		
9, except iron. 1,815 1 10 1 0 4 4 4 314 314 314 1131 83 83 83 84 84 149 149 119 110 110						1,815	_		s cts.
10 10 10 10 10 10 10 10						RT	888	2,703	135 15 1 24
4 97 97 91 63 147 178 178 178 178 178 178 149 6 149 6 149 19 10 10						107	⊙ ເ ~	17	0 0 0 8 8 %
97 314 63 147 147 178 33 38 28 83 28 6 6 149 6 149 6 19 10 10						+		,	
63 147 147 178 38 28 28 28 28 28 28 28 28 28 28 28 28 28				:		314	10 TC	102 319	o 8 18 8
147 131 131 131 137 138 238 28 28 28 29 149 5 1,544 cutting, unwrought. 8 10 10 11 15		- : : :				3	. 19	124	e 6
131 83 178 33 38 28 16 149 5 1,544 cutting, unwrought. 8 10 10						7#1	5 e	410 3	80 0 10 10
83 178 33 38 28 28 16 149 5 1,544 5 19 19 19 10 10						131	6.6	140	
33 28 28 6 6 149 5 5 1,544 cutting mwrought. 8 19 10					: :	8 82 82	35	2 <u>8</u>	88 88 9
28 28 149 149 149 1544 25 25 25 25 25 25 25 25 25 25 25 25 25		:	: :		:	88 8	က	9 2 8	4.c
149 5 5 7 7 8 19 10 10 10 10						9 9		ဗ	
1,544 35 19 19 10 10 10		<u>:</u>	: : : : :		:	149 5	22	170	4 0 12 45
35 19 19 10 10 10	:					1,544	139	1,683	47 33
ought		:	-	÷	:	왕 2	678	713	8 8 8
8 10 15 30	;			<u> </u>		3 · :	r :	3 :	3 :
10				:	:	œ ç	2	15	0 8
	10	<u>:</u> : : :	:	· :	:	2 £	:) 	6 ii
3	:					ි ස	 : :	8	1 01
447	447 54					447	Z	501	49 53
&c 62		÷	:	:	:	39	8	€	£ ∞
Tobacco, raw		:::::::::::::::::::::::::::::::::::::::							
Tin	12		· · · · · · · · · · · · · · · · · · ·			12	:	12	1 17
• • • • • • • • • • • • • • • • • • • •	:	: : : :	:	: :: : : : : : : : : : : : : : : : : :	:			006	
77						3 24	3-1	38	3 S

Whiting	88				:	:	- : :	:	88	-:	88	80	00
Wood All other goods and merchandise not enumerated Bark Bark Barels, empty Floats Firewood, in vessels	747 20 64 1,115 14,067	499 313 300 300 9,363 9,113	11,449					<u>:</u>	747 20 20 64 1,115 14,067 29,406	499 31 300 300 9,113	1,246 51 77 1,415 16,430 38,519	146 37 1 92 6 28 24 85 320 85 1,685 15) V 1010116
Masta, spars and telegraph poles, in vessels Railway ties, in vessels saw loge Saw loge Shingles Shill posts and fence rails, in vessels	5,634 815 385 110	34 66 1187 47 9							5,634 815 385 110	. 48.9	5,700 815 815 157 22 22 23	0 19 1 68 601 15 86 69 13 40 31 08 3 74	u.
Timber, square, in vessels do rafts. Traverses Woodenware and wood partly manufactured.		200						::	. : 536 100 100		23. 22. 23.	18 41 5 44 2 55	COBBIOI
Total freight paying tolls Coal, free, per Order in Council. Firewood, free do Stone, free, free Krevitte, free, having paid full tolls on Welland	49,977 4,313 14,520 350	28,142	11,467						61,434 4,313 14,520 350	28,142	89,576 4,313 14,520 350	3,992 86	iai rap
Canal Grand total freight.	69,160	28,696	11,457						80,617	28,696	109,313		51.5 (.
	Total tol do do do do do Wharfag Fines an	ls on ge and d dam oeipts	vessels passenger ree coal do firewood do stone do kryolite storage ages	oo ag						66	242 00 8 18 27 70	1,786 69 130 86 39 98 185 50	2101 0227

CANAL STATISTICS.

B. H. TEAKLES, Chief Clerk, Canals Revenue.

Total revenue exclusive of hydraulic rents.....

mount of	Amount of Tolls.		sts.	286 286 11 16 18 18 18 18 18 18 18 18 18 18 18 18 18	345 20	1,433 28	1,781 76
and the A	Total Tons.			448 1,299 22,601 2,827 6,189 1,156	34,520		:
s Canal, a	Tons.	Down.		413 138 22,071 1,304 3,597 485	28,008		
. Peter'	Ĭ	Up.		1,161 1,523 1,523 2,592 671	6,512		
on the St. in 1891.	From United States to Canadian Ports.	Down.				Tolls on vessels. Other receipts.	Total revenue
orted o	Fr United Can	Up.					otal reve
APPENDIX A—Continued. TEMENT 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 1891.	From United States to United States Ports.	Down.				Tolls on vessels	T
	F Unite Unite P	Up.				Tolls of Other r	
	From Canadian to United States Ports.	Down.					
	F Can Unite	Up.					
wing the enue coll	From Canadian to Canadian Ports.	Down.		413 138 22,071 1,304 3,597 485	28,008		
int sho Rev	F Can Can P	Up.		35 1,161 530 1,523 2,592 671	6,512		
911 No. (A). 16.—General Stateme	ARTICLES.		R	TI Fish M Flour M Coal M Lumber Other agricultural products	Total freight paying tolls	NALS.	

B. H. TEAKLES, Chief Clerk, Canals Revenue.

No. (A) 16.—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 1891.

NAM 10	anua c	nanaario	during	the Sea	aron or	of revenue collected during the Season of Navigation in 1891	ut non	1891.					1
ARTICIES.	Fr. Cans Cans Por	From Canadian to Canadian Ports.	From Canadian to United Stat Ports.	From Canadian to United States Ports.	Frc United United Por	From United States to United States Ports.	From United State to Canadian Ports.	From United States to Canadian Ports.	To	Tons.	Total Tons.	Amount of Tolls.	42
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.			
												99	cts.
Ashes, pot and pearl						: :							: :
Agricultural products not enumerated, vegetable													: :
F. Agricultural implements	:		:	:			:	:	:		:	:	:
LABricks		7						: :		-	2	0	. 89 0
g Brimstone		: :		: :									: :
Cement and water lime													: :
is Clay, time and sand	:	:	:	:	:	:	:	:	:	:	:	:	:
Corn			:							:			: :
Cattle.													: :
Cotton, raw.	:	:		:	:			:	:	:	:	:	:
Dye wood and dye stuffs.								- · · · · · · · · · · · · · · · · · · ·					: :
Fish.		:	:	:	:	:	:	:	:		: : : : : : : : : : : : : : : : : : : :	:	:
Flour	36	:	:	:	<u>:</u>	:	:	:	36	:	46	:	. 6
	1 :				: :				:			· · · · · · · · · · · · · · · · · · ·	:
Cypsum.	:	:	:	:	:	:	:::::::::::::::::::::::::::::::::::::::	:	:::::::::::::::::::::::::::::::::::::::	:	: :	:	:
Hay, pressed.													: :
Hogs			:			:						:	:
Horses Hides and skins, horns and hoofs		:							:	:	:		: :
Ice													: :
Iron, railway.								:				•	:
do pig	:::::::::::::::::::::::::::::::::::::::	:	:	:	:	:	:	:	:	:	:	:	:
on use on 17	. 60								cr			60 0	: 63
	ī				:				i				}

ther ore, except iron	Up. Down.	Up.	Ports.	United States Ports.	States	Cana Poi	United States to Canadian Ports.		Tons.	Total Tons.	Amount	ictoria
sther ore, exce			Down.	Up.	Down.	Up.	Down.	Up.	Down.			L.
Kryolite, chemical ore and other ore, except iron Lard and lard oil Meal, all kinds Meals, other than pork Manila Manila Molasses Mais Oit, in barrels Oil, in barrels Oil, in barrels Pork Pork Pork Rags Rags Rags Rosin Salt Schone intended for cutting do wrought do not suitable for cutting, unwrought Sheds, all kinds											& cts.	
Mests, other than pork Marble Manuels Molasses Nails Noils Noil in barrels Oil cake Pease Pease Port Pich and tar Rags Rye Rags Resin Stone intended for cutting, unwrought do wrought Sheds and kinds		: :										Ses
												sion
war 'Se	- :											al
ı												Pa
ığ, unwro	:	:	:	:	:			:	:	:		ap
di di di di di di di di di di di di di d												ers
g, nnwrc		: :										s (.
ıg, unwrc												No
ıg, unwrc							:		:		:	. 9
g, nnwi	<u>: :</u> : : : : : : : : : : : : : : : : :											9 A
ıg, unwr	:	:	:	:	:		:		:	:	:	.)
ıg, unwr												
	:	:		- <u>;</u> -	:	:	:	:				
daging												
Soda ash	:	:		:	·	:		:				
Sugar												
Spirits, beer, &c	:	:	:	 : : :	- <u>-</u> -	:	:	:	:	:		
Tallow			: :									A.
Tin	:	:		÷	- <u>-</u> -		:	:	:		:	1
Turpentine	: : :	:	:	<u>:</u>	-	:	:	:	:			88
White lead			—: : : : :)3

RAILWAYS AND CANALS.

317 42 88 85 651 73				ers.	Total tolls on vessels do passengers of hydraulic rents	Total tolls on vessel do passen Total revenue, exclusive of hydraulic rents	ue, exclusiv	otal reven	Ţ		
245 46	20,839	4,207	16,632	:				;	4,207	16,632	Total freight paying tolls
6 : 6 :	705	0 7 1 1	265					: :	94	265	Traverses Woodenware and wood partly manufactured.
								: :	: :	: : : : : :	Timber, square, in vesselsdo
	1,188	1,088	100			: :			1,088	100	Split posts and fence rails, in vesselsdo
13 39	155	19	136	•					15	136	Staves, salt barrel Shingles.
						<u>:</u> :		: :			do Dipe. do West India
	71.16	8 :	240°6						:	3,542	Saw logs. Staves and headings, barrel
7 46	165	10	165 170							165	Railway ties, in vessels do ratts
	121	3 10	166				::		2 ·C	33	do raftsMasts, spars and telegraph poles, in ressels
9 67	592	- 25	530								Hoops Lumber, sawn, in vessels.
₩ 121 	12,378	C&O,1				: :		::	:	11,283	Firewood, in vesselsdo rafts
12 12	1,162	1,162							1,162		Datres, emply Boat knees. Floats
0 94 94	: 38 :	22 : :	22 SZ					: :	7.	32	All other goods and merchandise, not enumerated Bark. Bark.
	: : : : : : : : : :				<u>:</u>	-		:::	: :		Whiting Wool

CANAL STATISTICS.

B. H. TEAKLES, Chief Clerk, Canals Revenue.

ount of	Amount of Tolls.		\$ cts.	2 80 5 16	0 11 14 19	0 02 1 92	37 70 0 06 0 06	0 05 0 05 0 12	0 27 1 86	0 35	0 74 0 02 3 75	0 02 1 18
d the An	Total Tons.			146	756	102	2,059	. 679	14	81		61
mal, an	ns.	Down.			360		2,059		10		L	
rray Ca	Tons.	Up.		92	396	102		6	 .4 78	13	30	9
the Mur 891.	From United States to Canadian Ports.	Down.					1,237		: : -			
ted on on in 1	From United Str to Canadia Ports.	Up.										
APPENDIX A—Continued. No. (A) 18.—General Statement showing the Quantity of each Article transported on the Murray Canal, and the Amount of Revenue collected during the Scason of Navigation in 1891.	From United States to United States Ports.	Down.										
	Fr United United Pol	Up.										
	From Canadian to United States Ports.	Down.					250					
	From Canadian to United State Ports.	Up.			360							
	om dian dian ts.	Down.		25.52	360		572		10		: 1	: : -
	From Canadian to Canadian Ports.	Up.			:03 :03 :03 :03 :03 :03 :03 :03 :03 :03	102	· : en en		: -4.88	13	 30 10 150	.T.&
No. (A) 18.—General Statement show	ARTICLES.	,		A Ashes, pot and pearl. A Apples. A Agricultural products not enumerated, vegetable.	do do animal control do do do animal control de Agricultural implements de Barley de Agricultural de Agricultu	D Bones. D Brimstone V Cement and water lime	Clay, time and sand of Coal Coal Corn Cattle	Cotton, raw Crockery and earthenware Dye wood and dye stuffs Fish	Flax and hemp. Flour Furniture	Gypsum Gypsum Hay, pressed	Hogs Horses Hides and skins, horns and hoofs	do pig. do all other

: :		; ; ; ;	,		vesselspassengers	Total tolls on vessels.	Total to				
11,742	5,810	5,932	1,238	234	:	:	250	906	4,322	5,002	Total freight paying tolls
88. 4	1,400	.884 : :							1,400	880 418	Timber, square in vessels do in rafts. Woodenware and wood partly manufactured.
. 22,	.22,	: : :	:						22	•	Saw logs. Shineles
945 825 0	593	25.83° 25.83°				: : : :			. 293	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	z Lunber, sawn, in vessels. Z Lunber, sawn in vessels.
961 50 50	24							E .c	22	878	oods and merchandise not enumerated
816 918	531	285							531	285	
07-		87-	-	:	:	:	:	: : 		C) -	
<u> </u>	8	77 :			: :	<u>:</u> :				2 :	W
38	: :	: : 26;				: : : ·				38.5	Sugar. Surrite beer &c
000	:	0.9	; :	<u>:</u> ::	:	:	:	: :	:	2 2	Soda ash
1,450	::	1,450		::		: :	: :	- 		1,450	Stone intended for cutting. do not suitable for cutting, unwrought
527 28	& &	14							88	4 :	Rye Salt
	::	 								- 11 4	Pork Rags
366	306	81	;	12.			:		306	84.	Pease Potators
7.8	57	: 12 &	:	<u>:</u> :		:	:		:	≥ 83 1	Oal, in barrels
122		: : : ::	: :	. 21			: :			101	Nails,
77	:	- 3	·	:	:	:	:	<u>:</u>	:	-4	Molasses
ı~	_	•			_	_	_	_		-	

B. H. TEAKLES, Chief Clerk, Canals Revenue.

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 1st March, 1892.

APPENDIX

No. (A) 19.—Statement of Traffic on the undermentioned Canals, and

	Welland	Canal.	St. Lawren	ce Canals.	Chambly	Canal.
A RTICLES.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
Class No. 1.		🕏 ets.		\$ cts.		\$ cts.
Canadian vessels, steam. United States vessels, steam. Canadian vessels, sail. United States vessels, sail.	353,971 478,656 173,921 103,608	3,952 11 7,187 03 3,460 34 2,306 06	676,266 23,980 1,075,155 66,228	3,920 31 184 98 11,565 42 517 62	$64,052 \\ 1,025 \\ 44,782 \\ 115,871$	206 74 10 54 632 22 1,588 34
Total, Class No. 1	1,110,156	16,905 54	1,841,629	16,188 33	225,730	2,437 84
Class No. 2.	No.		No.		No.	
Passengers	35,080	433 66	63,283	3,024 63	3,783	66 59
Class No. 3.	T		TT:		T	
Bricks. Brimstone Dement and water lime. Clay, lime and sand. Fish	Tons. 49 66 418 70 305	5 52 9 90 62 58 5 25 40 56	159 4,609 32,259	574 16 14 98 647 57 1,517 89 31 27	Tons, 167 140 31 4,603	30 72 27 65 3 16 462 74
Gypsum. Iron, railway do pig. do all other.	127 499	19 05 99 80 291 31 502 80	1,718 3,300 4,475 11,701	28 65 477 28 547 77 679 62 1,128 66	27 187	1 0
Steel. Stone, for cutting Apples Barley Corn	6,220 6,602 1,223 8,113	933 00 1,320 40 33 98 1,622 60	817 5,129 5,088 17,606	109 32 352 16 726 09 352 34 1,831 35	1,304 958 842	130 4 61 8 44 9
Cotton, raw			2 2	0 30 0 19		
Flour Hay, pressed Meals, all kinds Dil cake	13,517 121 26,164	1,911 76 19 20 5,232 70	1,599	655 09 86 49 39 88 1 08		7 6 113 8
Oats	630 25	2 33	8,923 36,225 127	243 80 748 89 10 15	7	41 3 50 3 0 7
Rye Seeds, all kinds Tobacco Wheat.	198,658	51 60 0 20	9,963 12	39 04 399 84 1 40 1,364 92		
All other agricultural products, vegetable Bones Cattle. Hogs		28 80	149 402	89 11 18 38 29 59	57	
Hogs Hides and skins, horns and hoofs Horses Lard and lard oil	87 67 126	3 02	390	4 05 4 52 26 54 32 42	6	0 2
Meats, other than pork Pork Sheep	19 276	3 00 55 10	33 581 96	3 56 51 34 7 34	3 152	0 10 5 0
Tallow Wool. All other agricultural products, animal.	77 1,243			1 95		· · · · · · · · · · · · · · · · · · ·
Total, Class No. 3	573,610	112,512 67	220,884	13,018 88	14,887	1,025 1

A-Continued.

the Amount of Tolls collected during the Season of Navigation in 1891.

Tons.			Canal.	St. Peter	's Canal.	Trent Valle	ey Canals.	Murray	Canal.
	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
-	* cts.		\$ cts.		\$ cts.		\$ cts.	•	\$ cts.
167,576 186 161,026	682 17 2 29 2,274 15	78,137 711 68,965	762 11 16 83 766 05	23,150 48,514	463 00 970 28	8	223 59 0 50 93 33	134,369 168 13,002	226 93 0 50 51 69
30,939	717 31 3,675 92	164, 457	$\frac{241 70}{1,786 69}$	71,664	1,433 28	52,576	317 42	92	2 00 281 12
No.		No.		No.		No.		No.	
12,569	162 91	5,423	130 86			9,547	88 85	16,651	197 02
Tons.		Tons.	1 20	Tons.		Tons.	0 68	Tons.	0 02
$8,091 \\ 3$	2 36 229 22 0 26	222 92 73	5 90 2 16 1 90	448	4 48			102	1 92 0 12
72 17	3 15 0 50	60 63 295 1,683	1 78 1 96 8 08 47 33					1 61 28	0 02 1 18 0 54
1 44 150	0 02 1 93 11 22	30 713 107 373 22	1 01 33 36 3 60 8 89 0 61		,			1 146 756 3	0 02 2 80 14 19 0 06
112 263 17	10 05 25 23 1 57	690 880 7	17 51 20 72 0 18	1,299	: ;••••••	25	25	14	0 27
1,038 2,749 465 47	82 86 191 78 38 00 4 32	3 124 140 183 170	0 10 3 27 4 20 5 56 4 51					17 366 7 527	0 32 6 87 0 14 9 91
37 18 433 18	3 46 1 76 40 79 1 80	290 360 32	0 48 8 90 17 26 1 26	6,189)		2 816 267	15 32 · 5 16
750 8 37 184 4	48 96 0 60 3 33 10 51 0 39 7 83	22	0 19 0 82 0 33 1 24					3 1 37 3	0 06 0 02 0 74 0 06
81 52 431 24 9	2 85 32 59 2 27 0 90	17 239 10	0 48 6 28 0 29					1 10 2	0 02 0 02
1,413	117 02 877 53	7,416	$\frac{12 \ 60}{224 \ 15}$	7,936	79 36	32	0 93	3,178	59 86

No. (A) 19.—STATEMENT of Traffic on the undermentioned

	Welland	Canal.	St. Lawren	ce Canals.	Chambly	Canal.
Articles.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
Class No. 4.		\$ cts.		\$ cts.		\$ cts.
Ashes, pot and pearl	40	8 00	112	21 47		
Agricultural implements			87	13 14		
Crockery and earthenware		0 10	100 464	90 52 8 40	23 55	2 30 5 50
Furniture	23	3 88		161 63	7	1 08
Glass, all kinds	32	4 77	464	87 10	i	0 10
Marble	3,556	533 40		3 93		
Manilla. Molasses	139	20 85			100	10.00
Nails.	$\begin{array}{c} 85 \\ 129 \end{array}$	14 65 12 40		$\begin{array}{c} 98 & 31 \\ 521 & 13 \end{array}$	120	12 00
Oil, in barrels.	56	7 67		150 79	39	3 8
Paint	144	20 56	632	89 30	1	0 10
Pitch and tar	264	39 60		34 72	114	11 40
Rags		12 00	181 1,949	35 20 98 54	1,978	196 30
Soda ash		14 59			1,310	190 34
Sugar	393	35 08				
Stone, wrought	9	1 70		18 70	1,273	102 43
Pin		3 6 51		96 86		
Furpentine	3	0 4	. 105 5 137	$\begin{array}{c} 6 \ 13 \\ 25 \ 22 \end{array}$	62	6 20
Whiting		V 4.	330			
Whiskey and all other spirits	346	67 90	6 1,215	226 70		
Merchandise, not enumerated	50,202	7,472 07	7 11,213	1,673 86	3,690	279 51
Total, Glass No. 4	55,831	8,306 2	28,597	4,258 47	7,363	620 83
Class No. 5.						
Bark	اييحسنا		. 13		· • • • • • • • • • • • • • • • • • • •	
Barrels, emptyBoat knees	. 96	19 50	6 317	44 94	18	1 64
Floats	40	1 7	4,740	82 30	3	0 2
Floats Firewood, in vessels do rafts	9.186	407 4			19,296	
do rafts					10,200	
Lumber, sawn, in vessels	64,877	11,545 0				
do raits		í	4	0 15	63	5 0
L cama			1	0 10		
Hoops		98.0	745		9 703	918.0
Hoops	327		1		2,793	218 9
Hoops Railway ties, in vesselsdo in rafts Masts, spars and telegraph poles, in	327		745		2,793	218 9
Hoops Railway ties, in vessels do in rafts Masts, spars and telegraph poles, in vessels	327			14 87		
Hoops Railway ties, in vessels do in rafts Masts, spars and telegraph poles, in vessels Masts, spars and telegraph poles, in rafts	327		20,986	14 87 524 65		
Hoops Railway ties, in vessels do in rafts Masts, spars and telegraph poles, in vessels Masts, spars and telegraph poles, in rafts Square, timber, in vessels do rafts.	327 327 20,354 262	3,049 9	20,986 4 2,183	14 87 524 65 36 78		
Hoops Railway ties, in vessels do in rafts Masts, spars and telegraph poles, in vessels Masts, spars and telegraph poles, in rafts Square, timber, in vessels do rafts. Woodenware and wood partly manufac-	327 327 20,354 262	3,049 9	20,986 4 2,183 9 6,770	524 65 36 78 169 70		
Hoops Railway ties, in vessels do in rafts Masts, spars and telegraph poles, in vessels Masts, spars and telegraph poles, in rafts Square, timber, in vessels do rafts, Woodenware and wood partly manufactured	20,354 262	3,049 94 16 49	20,986 4 2,183 9 6,770	524 65 36 78 169 70 12 40		
Hoops Railway ties, in vessels do in rafts Masts, spars and telegraph poles, in vessels. Masts, spars and telegraph poles, in rafts Square, timber, in vessels odo rafts. Woodenware and wood partly manufactured. Shingles	20,354 262 11	3,049 94 16 49	20,986 4 2,183 9 6,770	524 65 36 78 169 70 12 40 3 26		
Hoops Railway ties, in vessels do in rafts Masts, spars and telegraph poles, in vessels Masts, spars and telegraph poles, in rafts Square, timber, in vessels do rafts. Woodenware and wood partly manufactured Shingles Split posts and fence rails, in vessels.	20,354 262 11	3,049 94 16 49	20,986 4 2,183 9 6,770	524 65 36 78 169 70 12 40		
Hoops Railway ties, in vessels do in rafts Masts, spars and telegraph poles, in vessels. Masts, spars and telegraph poles, in rafts Square, timber, in vessels do rafts. Woodenware and wood partly manufactured Shingles Split posts and fence rails, in vessels. Split posts and fence rails, in rafts. Saw logs.	20,354 262 11 19	3,049 9- 16 49 - 4 44 - 7 8:	20,986 4 2,183 9 6,770 0 36 1 16	524 65 36 78 169 70 12 40 3 26	146	
Hoops Railway ties, in vessels do in rafts Masts, spars and telegraph poles, in vessels. Masts, spars and telegraph poles, in rafts Square, timber, in vessels Woodenware and wood partly manufactured. Shingles Split posts and fence rails, in vessels Split posts and fence rails, in rafts Saw logs Staves and headings, barrel	20,354 262 11 19 3,766 155	3,049 9- 16 49 - 4 44 - 7 8 - 160 8' 12 49	20,986 4 2,183 9 6,770 0 36 1 16	524 65 36 78 169 70 12 40 3 26	146	
Hoops Railway ties, in vessels do in rafts Masts, spars and telegraph poles, in vessels. Masts, spars and telegraph poles, in rafts Square, timber, in vessels do rafts. Woodenware and wood partly manufactured. Shingles Split posts and fence rails, in vessels. Split posts and fence rails, in rafts. Saw logs. Staves and headings, barrel do do pipe	327 20,354 262 11 19 3,766 155 8	3,049 9- 16 49 7 8- 160 8- 12 44 1 5-	20,986 4 2,183 9 6,770 0 36 1 16 7 15,598	524 65 36 78 169 70 12 40 3 26	146	
Hoops Railway ties, in vessels do in rafts Masts, spars and telegraph poles, in vessels. Masts, spars and telegraph poles, in rafts Square, timber, in vessels do rafts. Woodenware and wood partly manufactured. Shingles. Split posts and fence rails, in vessels. Split posts and fence rails, in rafts. Saw logs. Staves and headings, barrel do do pipe do do West India	327 20,354 262 11 19 3,766 155 8	3,049 9- 16 49 7 8 160 8 12 44 1 5	20,986 4 2,183 9 6,770 0 36 1 16 	524 65 36 78 169 70 12 40 3 26	146	
Hoops Railway ties, in vessels do in rafts Masts, spars and telegraph poles, in vessels. Masts, spars and telegraph poles, in rafts Square, timber, in vessels do rafts. Woodenware and wood partly manufactured Shingles Split posts and fence rails, in vessels. Split posts and fence rails, in rafts. Saw logs. Staves and headings, barrel do do pipe do do West India. do do salt barrel.	327 20,354 262 11 19 3,766 155 8	3,049 9- 16 49 7 8- 160 8- 12 44 1 5-	20,986 4 2,183 9 6,770 0 36 1 16 	524 65 36 78 169 70 12 40 3 26 355 94	146	17 3
Hoops Railway ties, in vessels do in rafts Masts, spars and telegraph poles, in vessels. Masts, spars and telegraph poles, in rafts Square, timber, in vessels do rafts. Woodenware and wood partly manufactured. Split posts and fence rails, in vessels. Split posts and fence rails, in rafts. Split posts and fence rails, in rafts. Saw logs. Staves and headings, barrel do do pipe do do West India. do do salt barrel. Traverses.	327 20,354 262 11 19 3,766 155 8	3,049 9- 16 49 7 8: 160 8' 12 44 1 5:	20,986 4 2,183 9 6,770 0 36 1 16 	524 65 36 78 169 70 12 40 3 26 355 94	146	17 3
Hoops Railway ties, in vessels do in rafts Masts, spars and telegraph poles, in vessels. Masts, spars and telegraph poles, in rafts Square, timber, in vessels do rafts. Woodenware and wood partly manufactured Shingles Split posts and fence rails, in vessels. Split posts and fence rails, in rafts. Saw logs Staves and headings, barrel do do pipe do do West India. do do salt barrel. Traverses.	327 20,354 262 11 19 3,766 155 8	3,049 9- 16 49 7 8: 160 8' 12 40 1 50	20,986 4 2,183 9 6,770 0 36 1 16 	14 87 524 65 36 78 169 70 12 40 3 26 355 94 0 17 26 75	146	17 3

Canals, and the Amount of Tolls collected, &c .- Continued.

Ottawa	Canals.	Rideau	Canal.	St. Peter	r's Canal.	Trent Val	ley Canals.	Murray	Canal.
Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
	\$ cts.		\$ cts.		\$ cts.		\$ cts.		\$ cts.
28 16 33 4 	5 32 2 62 4 44 0 76 1 42 0 75 2 70 0 19 0 44 1 24 0 29 0 15 1 34 53 30	28 131 67 25 40 78 4 102 319 416 5 5 15 501 23 33 88 1,246 3,228	0 54 0 45 1 94 49 53 2 82 1 17		11 56		3 87	4 9 2 72 13 10 7 44 122 85 5 13 99 25 12 965 965 1,488	0 11 0 23 0 055 1 86 0 35 0 26 0 18 1 10 3 59 2 17 0 13 2 53 0 03 2 53 0 064 0 32 2 4 04 37 92
38 31,60° 45,466 423,471 159 235	335 18 1,812 71 32,352 80 9 15 27 88	51 77 1,415 16,430 38,519	1 92 6 28 			1,162 12,378 592 202	0 94 12 12 121 90 9 67 3 60	5 945 945	0 10
19 2,684 3,240	71 97 	5,700 815 34	601 15 86 69 1 68			165 180 171 1,188	4 39 7 46 10 10 21 25	80 1,480	0 50 18 50
6 597 4 12,662	1 01 465 49 1 72 292 24	22 157 22 572	2 55 31 08 3 74 13 40			155 3 3,742	0 15	41 5 27	0 75 0 31 0 30
200 520,816	0 50 35,536 04	700	2,803 38	2,827	28 27	705 20,675	5 50	3,417	38 18

No. (A) 19.—Statement of Traffic on the undermentioned

ARTICLES.	Welland	Canal.		St. Lawren	ce Canal	s.	Chambly	Canal.	
ARTIULES.	Tons.	Tolls.		Tons.	Tolls.		Tons.	Tolls	
Special Class.		\$ ct	s.		\$ c	ts.		- (ets.
Coal	224,644 2,871						86,286		
Stone, unwrought, not suitable for cutting	2,813 1,150		30 50	11,028	226	95	566		6 0
Total, Special Class	231,478	45,410	55 —	177,211	23,111	87	86,852	8,511	72
Total freight and tolls	960,020 389	198,823 8 17		544,187 9,728			228,919	19,346	5 8
free	14,604	2,136	20	382,879	12,188	40	345	30	34
Grand totals, passengers and ton- nage of vessels not included	975,013	200,977	84	936,794	75,971	94	229,264	19,376	92

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 1st March, 1892. Canals, and the Amount of Tolls collected, &c.—Concluded.

Ottawa	Canals.	Rideau	Canal.	St. Peter	's Canal.	Trent Vall	ey Canals.	Murray	Canal.
Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
	\$ cts.		\$ cts.		\$ ets.		\$ cts.		\$ cts.
648 1,784			483 88 135 15		226 01			2,059	
• • • • • • • • • • •	• • • • • • • •		• • • • • • • • •		· • • • • • • • • • • • • • • • • • • •	3	0 09	• • • • • • • • • • • • • • • • • • • •	• • • • • • • •
								$1,450 \\ 150$	14 50 3 75
2,432	112 98	14.094	619 03	22,601	226 01	3	0 09	3,659	55 95
540,431 44,610	40,440 39 515 72	89,576 14,520	5,910 41 242 00			20,839	651 73	11,742	670 05
		5,217	151 01						
585,041	40,956 11	109,313	6,303.42	34,520	1,778 48	20,839	651 73	11,742	670 05

B. H. TEAKLES, Chief Clerk, Canals Revenue.

APPENDIX

No. (A) 20. SUMMARY STATEMENT of Traffic on the undermentioned Canals during each description of Property passed through

	Welland	Canal.	St. Lawren	ce Canals.	Chambly	y Canal.
Articles.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
		* cts.		* cts.		
Vessels of all kinds	1,110,156	16,905 54	1,841,629	16,188 33	225,730	2,437 84
Passengers	No. 35,080	433 66	No. 63,283	3,024 63	No. 3,783	66 59
Forest-Produce of Wood.	Tons.		Tons.		Tons.	
Bark. Boat knees			13	3 75		
Floats	40	1 75	4,740	82 30		0 25
Firewood Green		407 44	11,388	330 27	19,296	649 54
Hoops and hop polesLumber, saweddo Free	64,877	11,545 03	3,908	1,518 60	97,561	5,796 76
Masts, spars, &c	327	28 03	20,986 745	524 65 14 87	, ,	
do Free	3,766	160 87	15,598	355 94		
do Free Staves, all kinds	389 163	13 90		0 17		
Shingles	19	7 81	16	3 26	146	17 35
Fimber, square	20,616	3,066 43	8,953 5,820	206 48		
Traverses			1	26 75		
Total	99,383	15,231 26	126,870	3,067 04	119,799	6,682 83
Farm Stock.						
Cattle	1	0 02		29 59		1 90
Hogs	67	3 02		4 05 26 54		0 2
do Free			96	7 34	152	5 0
Total	68	3 04	917	67 52	215	7 17
Produce of Animals.						
Bones.		19.05	149	18 38	341	34 10
	87 126	13 05 25 20	336	32 42		
Lard and lard oil			100	3 56		
Lard and lard oil do Free	19	3 00	ા અ			
Lard and lard oil	1					0 1
Lard and lard oil	276	55 10	581 201	51 34	3	0 1
Lard and lard oil	1 276 77 1,243		581 201 26		3	0 1
Meats, other than pork. do Free. Pork. do Free. Fallow. Wool. do Free. Agricultural products not enumerated,	276 77	55 10 12 40	581 201 26 13	51 34 2 44 1 95	3	0 1
Lard and lard oil	1 276 77 1,243	55 10 12 40	581 201 26	51 34 2 44	3	0 1

A-Continued.

the season of Navigation ended 31st December, 1891, showing the Total Quantity of and the amount of Tolls collected thereon.

Ottawa	Canals.	Rideau	Canal.	St. Peter	r's Canal.	Trent Valle	v Canals.	Murray	Canal.
								/	
Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
	\$ cts.		\$ cts.		\$ cts.		\$ ets.		\$ cts.
359,727	3 675 92	164,457	1,786 69	71,664	1,433 28	 -	317 42	147,631	281 12
No. 12,569	162 91	No. 5,423	130 86	No.		No. 9,547	88 85 	No. 16,651	197 02
Tons.		Tons.		Tons.		Tons.		Tons.	Tons.
		51 	1 92	• • • • • • • • • • • • • • • • • • • •		32	0 94	5	0 10
31,600 16,440	335 18	1,415	24 85			1,162	12 12		
45,466 4,786	1,812 71	16,430 14,520	320 85			12,378	121 90	945	7 89
235 423,630	27 88 32,361 95	38,524	1,685 34	2,827	28 27	794	13 27	834	9 83
486 19 435	1 57 71 97	34 6,515	1 68 687 84			171 345	10 10 11 85	• • • • • • • • •	
10,000 12,662 10,678	292 24	572	13 40			3,742	30 10	27	0 30
597	465 49	157	31 08			155	13 39	5	0 31
4 5,924	$\frac{1}{159} \frac{72}{22}$	$\begin{array}{c} 22\\319\end{array}$	3 74 18 41			1,188	$\begin{array}{c} 0 & 15 \\ 21 & 25 \end{array}$	1,560	19 00
2,220 200	0 50	700	5 14			705	5 50		
565,382	35,530 43	79,259	2,794 55	2,827	28 27	20,675	240 57	3,576	37 43
750	48-96	7	0 19	- 				3	0 06
8 184	0 60 10 51	9	0 33					37	0 74
431	32 59	······ io	0 29					10	0 02
1,373	92 66	26	0 81					50	0 82
18 37	1 80 3 33	32 22	1 26 0 82				••••	i	0 02
4	0 39	42	1 24					3	0 06
81	7 83	17	0 48						
52	2 85	239	6 2 8					i	0 02
24	2 27 0 90	6	0 19					2	0 04
							· · · · · · · ·		
1,413	117 02	397	12 60				·· ·· ···		

No. (A) 20.—Summary Statement of Traffic on the undermentioned Canals

	Welland	l Canal.	St. Lawren	ce Canals.	Chambly	y Canal.
Articles.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
Agricultural Products.		\$ cts.		\$ cts.		\$ cts
Agricultural products not enumerated, vegetable	444 52		627	89 11	1	9 10
do Free Apples Barley	1,223 8,113	33 98 1,622 60		726 09 352 34		61 84 44 95
Cotton, raw	185,180	37,035 85	2	0 30 1,831 35		
Plax and hempdo Free	1		2	0 19		
do Free Ay, pressed	13,517	1,911 76	4,799 3,324 1,599	655 09 86 49	228	7 6
Meal, all kindsdo Free	26,164	5,232 70	833 67	39 88		
Manilla	139 52,959 630	20 85 10,591 80 102 00	$8,923 \\ 36,225$	0 19 243 80 748 89	1,239 1,509	41 3 50 3
do Free	25 65,888	2 33 13,136 75	390 127 1,939	10 15 39 04	7	0.7
do - Free Beeds, all kinds	258	51 60	64,978 9,963	399 84		
do Free	1	0 20	12 12	1 40		
do Free	198,658		31,058 159,785	1,364 92	••••	• • • • • • • • • • • • • • • • • • • •
Total	553,373	108,883 26	414,956	6,589 07	7,569	320 6
Manufactures.						
Ashes, pot and pearldo Free	40 31	8 00	112 40	21 47		
Agricultural implements Barrels, empty Bricks	96 49	19 56 5 52	87 317 13,710	13 14 44 94 574 16	18 467	1 6- 30 79
do Free Cement and water lime	469 418 2,380	62 58	4,609 539	647 57	31	3 1
crockery and earthenware	5 251	0 10	464	90 52	23	2 3
'mmitumo	23 1	3 88	1,013 2 464	161 63 87 10	7	1 0
urnituredo Free	32	4 77				· · · · · · ·
do Freedo Freedo Freedo Free	32 30 127	19 05	3,300	477 28		
do Free	32 30 127 2,855 499 112	19 05 99 80	3,300 4,475 371	547 77		
do	32 30 127 2,855 499 112 1,610 595 85	19 05 99 80 291 31 14 65	3,300 4,475 371 11,701 14 991	547 77 679 62 98 31	27	1 0
do	32 30 127 2,855 499 112 1,610 595	19 05 99 80 291 31	3,300 4,475 371 11,701 14	547 77 679 62		

during the Season of Navigation, ended 31st December, 1891, &c.—Continued.

Ottawa	Canals.	Rideau	Canal.	St. Peter	r's Canal.	Trent Vall	ey Canals.	Murray	Canal.
Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
	\$ cts.		\$ cts.	•	\$ cts.		\$ cts.		\$ cts.
433	40 79	360	17 26	6,189	,			267	5 16
44 150	1 93 11 22	107 373	3 60 8 89	•••••				146 756	2 80 14 19
•••••		22	0 61					3	0 06
•••••				• • • • • • • • • • • • • • • • • • • •					
112	10 05	690	17 51		12 99	25	0 25	14	0 27
263	25 23	880	20 72			! • · · • • • • • • • • • • • • • • • •			
17	1 57	7	0 18						
1,038 2,749	82 86 191 78	124 140	3 27 4 20					7 17 366	0 18 0 32 6 87
465 47	38 00 4 32	183 170	5 56 4 51	• • • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·				0 14 9 91
37	3 46	15	0 48		· • · · · • • • • • • • • • • • • • • •				• • • • • • •
••••••								······ <u>2</u>	0 04
18	1 76	290	 8 90					816	15 32
					• • • • • • • • •				
5,373	412 97	3,361	95 69	7,488	74 88	25	0 25	2,928	55 26
28	5 32	28	2 99						
16	2 62	131	15 95					4	0 11
38	4 60	77 40	6 28 1 20	• • • • • • • •		7	0 68		
···· 24	2 36	222	5 90					102	1 92
*****		67	8 68					9	0 23
33	4 44	40	4 56					72	1 86
4	0 76	78	8 55					13	0 35
***********		60	1 78						
		63	1 96					i	0 02
72	3 15	295	8 08					61	1 18
24	1 42		9 55					44	1 10
11	0 75	319	30 06					122	3 59
25	2 70	416	39 12					85	2 17
1	0 19	3	0 10					• • • • • • • • • • • • • • • • • • • •	
	. 0.19	36	4 25						

No. (A) 20.—Summary Statement of Traffic on the undermentioned Canals

Annuan	Welland	Canal.	St. Lawren	ce Canals.	Chambl	y Canal.
Articles.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
Manufactures—Con.		\$ cts.		\$ cts.		\$ cts.
Pitch and tar	264	39 60	390	34 72	114	11 40
do Free	22					
Rosin			1,949	98 54	1,978	196 30
Soda ash	99	14 59		149 97	-,	
do Free	377					
Spirits, whiskey, &c	346	67 96	1,215	226 70		
do Free	294		105	الينيريننيا		
Steel	6,220	933 00		109 32	!	.
Sugar		35 08	3,101	581 34		
do Free	412				· · · · · · · · · · · ·	
Cin	246	36 51	552	96 86	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • •
do Free	23	• • • • • • • • • • • • • • • • • • • •	105	2 19		
Curpentine	3	0 45	105 137	6 13 25 22	62	6 20
do Free	3	0 40	191	20 22	• • • • • • • • •	• • • • • • • • •
Whiting.	3	• • • • • • • • •	330	65 32		• • • • • • • • • • • • • • • • • • • •
do Free	50	• • • • • • • • • •	330		••••	• • • • • • • •
Woodenware	11	4 40	36	12 40		
Total	19,485	1,701 44	56,765	5,612 33	2,888	960 05
Merchandise.	13,100		50,705			269 87
Merchanaise.				į		
Brimstone	66	9 90	159	14 98	140	27 65
Clay, lime and sand	70	5 25	32,259	1,517 89		462 74
do Free	206		563		345	
Coal	224,644	44,928 20	164,100	22,780 77.	86,286	8,455 12
do Free		• • • • • • • • • • • • • • • • • • • •	94,690			
Dye woods and dye stuffs	305	40 56	100	8 40	55	5 50
fish Free	305 7	40 96	328	31 27	••••	
gypsum	4		1,718	28 65		
Ores, all kinds	2,871	143 55		28 65 104 15	· • • · · • • • •	
do Free	544	140 00	1,410	104 19		• • • • • • • • • • • • • • • • • • • •
Marble	3,556	533 40		3 93		• • • • • • • • • • • • • • • • • • • •
Rags	60	12 00		35 20		• • • • • • • • • •
Balt	2,567	502 80		1,128 66	187	7 46
do Free	4,391		5,20,		201	1 30
Stone, all kinds	9,424	1,603 40	16,522	597 81	3,143	289 45
do Free	·		750			200 10
All other goods and merchandise, not						
enumerated	51,352	7,529 57	11,213	1,673 86	3,690	279 51
do Free	810		278	• • • • • • •		
Total	300,873	55,308 63	334,841	27,925 57	98,449	9,527 43
Grand totals (passengers and ton-						

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 1st March, 1892. during the Season of Navigation ended 31st December, 1891, &c.—Concluded.

Ottawa	Canals.	Rideau	Canal.	St. Peter	r's Canal.	Trent Val	ley Canals.	Murray	Canal.
Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
	\$ cts.		\$ cts.		\$ ets.		\$ cts.		\$ cts
		28	2 99		 	••••			
• • • • • • • • • • • • • • • • • • • •		5 15	0 45 1 94		} • • • • • • • • • • • • • • • • • • •			13	0 33
··· 20	1 34		8 86					12	0 32
18	1 24	30 501	1 01 49 53	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	····		99	2 53
2	0 15		i 17		· · · · · · · · · · · · · · · · · · ·			1	0 03
• • • • • • • • • • • • • • • • • • • •		25		• • • • • • • • • • • • • • • • • • • •					
 1	0 05	1	2 31	• • • • • • • • • • • • • • • • • • • •			••••	25	0 64
6	1 01	22	2 55	•••				41	0 75
323	32 10	2,736	222 82			7	0 68	704	17 18
	990 99							1	0 02
8,091 648	229 22 23 78	92	2 16 483 88	22,601	226 01			2,059	37 70
• • • • • • •		4,313	2 25					2,003	0 05
3	0 26		1 9ŏ	448	4 48			6	0 12
1,784	89 2 0	2,703	135 15			3	0 09		
3 17	0 44 0 50		0 36 0 54 47 33					10 5 28	0 26 0 13 0 54
• • • • • • • • • • • • • • • • • • •	0 31	736 350	36 18					1,451	14 52
402	53 30	1,246	146 37	1,156	11 56	129	3 87	1,115	27 7 9
10,952	397 01	23,176	856 12	24,205	242 05	132	3 96	4,677	80 13
585,041	40,440 39	109,313	5,910 41	34,520	1,178 48	20,839	651 73	11,742	670

B. H. TEAKLES, Chief Clerk, Canals Revenue.

STATEMENT showing the Amount of Tolls accrued each month during the Season of Navigation,	
Season	
the	
during	
month	
each	1891.
accrued	ended 31st December, 1891.
Tolls	llst De
of	eg G
Amount	end
he	
ng t)
showi	
FEMENT	
No. (A) 21.—STAT	
21	
(A	
٠.	•
Z	•

Canalis and Opericise April May June July August September Octobe											
Weilland Canal. S cts. Cts. Ct	CANALS AND OFFICES.	April.	Мау.	June.	July.		September	October.	November	November December.	Total Tolls.
Chippewa Chippewa 22 24 st. 11 03 3 77 st. 11 84 9 78 st. 18 st.	WELLAND CANAL.	1	ŀ	1	i	i	i	ets.	s cts.		& cts.
St. Lawrence Canals Chambly Ch	Chippewa Colborne Dalhousie Dumville Maritland Robinson St. Catharines		22 5 5 8 0 5 8 8 0 5 8 8 0 5 8 8 0 5 8 8 0 5 8 8 0 5 8 8 0 5 8 8 0 5 8 8 0 5 8 8 0 5 8 8 0 5 8 8 0 5 8 8 0 5 8	1288 172	821 4 821 4 87 83 1		9 78 8,199 83 8,199 83 28 80 8 73 8 73 8 73	6 02 18,735 94 10,952 98 106 43 1 00 95 91 65 47	5 30 10,127 52 3,694 07 116 57 107 08 41 48	840 43 24 35 113 39 3 24	70 00 138,280 78 58,824 55 494 13 11 63 549 83 559 96
Sr. Lawrence Canals. 1			942		229	31,872 90		29,963 75	14,092 02	881 41	198,823 88
CHAMBLY CANAL. 1 44 45 14 117 04 237 38 236 03 374 20 177 61 21 10 24 21 15 10 24 14 17 10 24 11 11 11 11 11 11 11 11 11 11 11 11 11											
St. Lawrence Canals. 19 19 292 74 386 33 330 29 273 96 457 25 451 451 140 79 2,789 07 3,390 96 4,371 38 4,605 41 3,961 51 3,146 (1988 V ANAL.)						235 03 24 04 3,160 57 1,242 03	374 729 813	. 177 72 91 82 3,108 80 1,681 84	115 01 48 61 2,506 68 1.169 74	1 45	1,302 96 711 92 22,783 30 10,473 41
169 22 6,973 19 10,241 21 11,926 73 9,541 04 8,410 52 8,658 648 74 1,098 87 1,196 00 1,281 19 885 01 1,511 2,613 46 1,856 57 1,875 41 1,401 14 1,192 17 1,353	Langson Langson Montreal					4,605 41	457			4 92	
648 74 1,098 87 1,196 00 1,281 19 885 01 1,511 2,613 46 1,856 57 1,875 41 1,401 14 1,192 17 1,353	Total, St. Lawrence Canals.					1 1		8,658 77	6,732 62	73 26	62,726 56
648 74 1,098 87 1,196 00 1,281 19 885 01 1,511 2,613 46 1,856 57 1,875 41 1,401 14 1,192 17 1,353	CHAMBLY CANAL.		-								
47 87 70 77 79 38 60 16 103 73 178	Chambly. St. John's St. Ours		648 74 2,613 46 47 87	1,098 87 1,856 57 70 77	1,196 00 1,875 41 79 38	1,281 19 1,401 14 60 16	885 01 1,192 17 103 73	1,511 46 1,353 25 178 20	927 83 864 50 10° 87		7,549 10 11,156 50 640 98
3,310 07 3,026 21 3,150 79 2,742 49 2,180 91 3,042	Total, Chambly Canal		310					3,042 91	1,893 20		19,346 58

134

96	v icto	ria	•	5e	remonse	Papers (No.	ga.		
	21,734 65 118 83 17,065 55 1,521 36	40,440 39	1,479 90 3,898 40 532 11	5,910 41	1,778 48	351 67 50 65 36 05 36 70 8 70 23 50 121 81	651 73	670 05	330,348 08
		1 00			163 66				1,119 33
	1,520 54 32 11 1,697 12 94 10	3,343 87	112 96 348 11 31 82	492 89	383 37	10 25 1 75 1 25 6 55	19 80	31 28	26,889 05
	2,457 39 24 82 1,863 28 304 48	4,649 97	153 16 681 64 52 56	887 36	438 40	57 03 0 30 19 93 1 25 1 25 1 54	95 05	46 05	47,882,26
	2,268 53 5 59 2,078 88 245 07	4,598 07	178 89 539 26 85 27	803 42	282 77	67 88 875 875 870 870 870 870 870 870 870 870 870 870	125 24	63 85	49,629 80
	2,629 84 6 10 2,542 39 234 00	5,412 33	257 00 600 07 102 81	959 88	111 36	91 32 9 40 0 5 0 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	137 60	178 74	50,956 34
	3,597 40 8 98 3,017 00 274 81	6,898 19	329 19 620 32 175 69	1,125 50	102 35	70 10 35 18 60 18 60 13 90 13 90 13 90 13 90	129 86	146 09	49,101 78
,	3,941 19 9 64 2,784 31 203 04	6,938 18	282 46 706 02 54 91	1,043 39	112 98	38248 358848	113 95	135 67	49,406 01
	5,129) 73 21 92 2,757 48 147 77	8,056 90	165 94 393 84 29 05	588 83	154 70	9 50 3 93 0 50 1 50 12 10	27 53	54 85	48,108 17
	190 03 9 67 325 09 17 09	541 88	9 14	9 14	28 89	2 70	2 70	13 52	7,255 34
. Ottawa Canales.	Ottawa. Carillon Grenville Ste. Anne's.	Total Ottawa Canals	Ridgston Mills Ottawa Smith's Falls	Total Rideau Canal	St. Peter's.	Newcastle District Canals. Bobcasygeon Buckhorn Burleigh Funclon Falls Hastings. Peterborough.	Total, Newcastle District Canals	Murray Canal. Brighton	Grand total.

B. H. TEAKLES, Chief Clerk, Canals Revenue.

DEPARTMENT OF RAILWAYS AND CANALS,
OTTAWA, 1st March, 1892.

136

3,920 31 11,565 42 cts. 3,952 11 3,460 34 % **%** 7. 3 88 9,493 09 16,905 54 15,485 73 3 æ Amount of Tolls. No. (A) 22.—General Statement showing the Number, Tonnage and Nationality of Vessels passed through all the Canals, during the Season of Navigation ended the 31st December, 1891, and the Amount of Tolls collected thereon. 7,412 7,187 2,306202 16,188 9 2 2 23 21 21 21 64,052676,266 1,075,155 90,208 353,971 173,921 478,656 103,608 23,980 66,228 527,892 582,264 1,110,156 1,751,421 1,841,629 Total Tons. 305,947 478,258 784,205 13,715 27,125 557,315 40,840 31,752 241,522 50,921 292,443 825,045 264,872 Down. Tons. 370,319 596,897 174,963 88,057 237,134 52,687 263,020 967,216 10,265 39,103 49,368 32,300 552,841 1,0l6,584 289,821 Up. 746 45,412 15,300 60,712 203,282 5,347 75,476 5,298 10,497 15,795 142,570 91,271 Down. From United States to Canadian Ports. 17,008 63 30,362 30,425 30,425 9,056 9,056 16,350 658 **5**201 $^{\mathrm{Up}}$ 195,905 35,005 6,969 849 7,908 292 7,908 292 231,202230,910 : Down. to United States Ports. From United States 227,752 48,252 276,004 6,134 7,009 1,000 288 550 276,554 Up. 1,602 2,352 4,835 204 576 7,967 88 88 88 928 1,677 2,605 8 to United States Ports. Down. From Canadian 3,761 74,643 48,708 136,418 63,614 11,110 74,724 3. 123,351 9,180 3,887 13,067 Up. 86,418 28,405 299,992 407,809 1,377 14,08315,460 31,006 114,823 114,864 707,801 723,261 Down. From Canadian to Canadian Ports. 353,192 550,410 32,206 92,764 30,005 903,602 307 92 824 904,426 122,769 _ 2 122,861 Up. 1,788 2,594 464 3,041 5,706 747 1,933 1,147 641 225 284 284 1,186 8 582 604 82 Total Number. Grand total, St. Lawrence Canals. United States vessels, steam..... Welland Canalian vessels, steam

Canadian vessels, steam

or Total Canadian

United States vessels, steam

Total United States

Total United States Canadian vessels, steam..... Grand total, Welland Canal ST. LAWRENCE CANALS. Total United States ... CHAMBLY CANAL. Canadian vessels, steam Total Canadian...

44,782	108,834	1,025 $115,871$	116,896	225,730		167,576 161,026	328,602	30,939	31,125	359,727		78,137 68,965	147,102	16,644	17,355	164,457		23,150 48,514	71,664
27,032	58,784	539 72,525	73,064	131,848	Profession and the second of t	115,096 $152,327$	267,423	84 26,262	26,346	293,769		42,426 35,649	78,075	388 9,851	10,239	88,314		11,983 24,364	36,347
17,750	50,050	486 43,346	43,832	93,882		52,480 8,699	61,179	102	4,779	65,958		35,711 33,316	69,027	323 6,793	7,116	76,143		$\frac{11,167}{24,150}$	35,317
17,240	17,986	230 69,865	70,095	88,081								: :	:		:				
:	:					: :								: :	:				:
			:				:					: :						: :	
:												: :	:		:				
	:					2,312 18,040	20,352	25,219	25,270	45,622									
7,339	7,433	134 41,875	42,009	49,442		: :						126 871	266	4,479	4,479	5,476			
9,792	40,798	309	2,969	43,767		112,784 134,287	247,071	33	1,076	248,147		42, 426 35, 649	78,075	388 9,851	10,239	88,314		11,983 24,364	36,347
10,411	42,617	352	1,823	44,440		52,480 8,699	61,179	4,677	4,779	60,958		35,585 32,445	68,030	323 2,314	2,637	70,677		11,167 24,150	35,317
555	1,019	1,006	1,03	2,053		1,025	2,148	312	316	2,464		1,299	2,244	69	250	2,494		129 992	1,121
do sail	Total Canadian	United States vessels, steam	Total United States	Grand total, Chambly Canal	OTTAWA CANALS.	Canadian vessels, steamdo	Total Canadian	United States vessels, steam do sail	Total United States	Grand total, Ottawa Canals	RIDEAU CANAL.	Canadian vessels, steam do sail	Total Canadian	United States vessels, steamdo	Total United States	Grand total, Rideau Canal	Sr. Peter's Canal.	Canadian vessels, steamdo	Grand total, St. Peter's Canal

No. (A) 22.—General Statement showing the Number, Tonnage and Nationality of Vessels, &c .- Continued.

	•	From Canadian	in dian	From Canadian	From snadian	Fr	From United States	Fr. United	From United States				
· Vesskis.	Number	to Canadian Ports.	dian ts.	to United St Ports.	to United States Ports.	United Po	to United States Ports.	to Canadian Ports.	to adian orts.	Tons.	·ša	Total Tons.	Amount of Tolls.
	Total	Up	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		
TRENT VALLEY CANALS.													e cts.
Canadian vessels, steamdo	, 747 385	14,749 11,904	14,844							14,749	14,844 11,071	29,593 22,975	223 59 93 33
Total Canadian	1,132	26,653	25,915			: :				26,653	25,915	52,568	316 92
United States vessels, steam	2	4	7							4	4	×	26
Total United States	:	- 4	- - - - - - - - - - 							4	: 4	œ	28
Grand total, Trent Valley Canals	1,134	26,657	25,919							26,657	25,919	52,576	317 42
MURRAY CANAL.													
Canadian vessels, steamdo	859 188	90,376 5,975	31,935	5,325	175				6,733	95,701 7,013	38,668 5,989	134,369 13,002	226 93 51 69
Total Canadian	1,047	96,351	36,338	6,363	175		1		8,144	102,714	44,657	147,371	278 62
United States vessels, steamdo	623	163	57							15 15 15 15 15 15 15 15 15 15 15 15 15 1	52	168	0 20
Total United States	[∞]	198	62	1						198	62	260	2 50
Grand total, Murray Canal	1,055	96,549	36,400	6,363	175			:	8,144	102,912	44,719	147,631	281 12
	-												

No. (A) 22.—General Statement showing the Number, Tonnage and Nationality of Vessels, &c.—Concluded. APPENDIX A-Continued.

	ı.	Fr. Cana	From Canadian	From Canadia	From Canadian	From United States	om States	From United States	m States	Tons.	ns.		
Vesels.	equin _N	Cans Por	vo Canadian Ports.	United States Ports.	States rts.	United States Ports.	States ts.	Canadian Ports.	dian ts.			Tons.	Amount of Tolls.
	Total	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		
CANADIAN VESSELS. Steam and Sail.													ee cts.
Welland St. Lawrence Chambly	1,788	- 0.	•	123,351 63,614 7,433	:	550	292	16,350	142,570 75,476 17,986	263,020 967,216 50,050	264,872 784,205 58,784		7,412 15,485 838 956
Ottawa Ridea St. Peter's Trent Valley Murray	2,148 1,121 1,132 1,047	61,179 68,030 35,317 26,653 96,351	247,071 78,075 36,347 25,915 36,338	997	20,352				8,144	91, 179 69, 027 35, 317 26, 653 102, 714	267, 423 78,075 36,347 25,915 44,657	528,602 147,102 71,664 52,568 147,371	2,950 52 1,528 16 1,433 28 316 92 278 62
Total Canadian	11,246	1,356,518	1,287,168	201,758	28,642	550	292	16,350	244,176	1,575,176	1,560,278	3,135,454	30,250 44
United States Vessels. Steam and Sail.							-						
Welland St. Lawrence Chambly Ottawa. Rideau	806 1,186 1,034 316 250	92 824 1,823 4,779 2,637	41 15,460 2,969 1,076 10,239	13,067 11,110 42,009 4,479	780 1,677 25,270	276,004	230,910	30,425	60,712 15,795 70,095	289,821 49,368 43,832 4,779 7,116	292,443 40,840 73,064 26,346 10,239	582,264 90,208 116,896 31,125 17,355	9,493 09 702 60 1,598 88 719 60 258 53
St. Peter's Trent Valley Murray	: : : : : :	198	4 62							198	4	8098	0 50 2 50
Total United States	3,602	10,357	29,851	70,665	27,727	283,013	238,818	31,083	146,602	395,118	442,998	838,116	12,775 70
Grand total, Canadian and United States	14,848	1,366,875	1,317,019	272,423	56,369	283,563	239,110	47,433	390,778	1,970,294	2,003,276	3,973,570	43,026 14

CANAL STATISTICS.

APPENDIX A-Continued.

No. (A) 22½.—Comparative Statement of Grant Total Freight passed through the undermentioned Canals during the Seasons of Navigation of 1890 and 1891, and the Amount of Tolls collected on the same, including Tolls on Vessels and Passengers.

	From Canadian to Canadian Ports.	m lism lism ss.	From Canadian to United States Ports.	dian dian States	From United S to United S Ports	From United States to United States Ports.	From United States to Canadian Ports.	States States dian	Tons.	JS.	Total Tons.	Amount
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		Tolls.
1890.												♣ cts.
anals	30,274 216,557 8,234 81,219 527 22,297 4,606	25, 25, 25, 25, 25, 25, 25, 25, 25, 25,	35,959 11,652 85,113 6,066 6,066 6,190	10,283 3,253 6,085 113,567	215,698	215,688 318,259 17,358 1,115 2,065 41,351	17,358	331,799 102,264 98,867 	299,289 270,075 27,075 87,285 535 5,889 22,237 10,798	716,876 583,778 109,070 26,289 26,342 2,382 2,382 7,985	1,016,165 853,853 202,407 113,574 651,355 32,531 24,679 18,783	194,089 53 60,729 30 18,171 00 6,145 21 48,226 36 1,748 94 707 03
E Welland Canal E Welland Canal St. Lawrence Canals Chambly Canal Rideau Canal Ottawa Canals St. Peter's Canal Trent Valley Canals Murray Canal	11,415 203,211 56,763 69,714 871 6,512 16,632 5,002	56,735 7,737 7,547 7,547 28,008 4,307 4,322	13,845 10,725 66,881 11,457	13,963 1,545 107,435	247,543	306,257	17,409 33,314	306,022 137,926 98,073	290,212 247,805 123,644 81,171 6,512 16,632 5,932	684,801 688,899 105,620 28,142 584,170 28,008 4,207 5,810	975,013 936,734 229,264 109,313 585,041 34,520 20,839	198,823,88 62,726,56 19,346,58 5,910,41 40,440,38 1,778 651,73 670,05

B. H. TEAKLES, Chief (Nerk, Canals Revenue.

Orrawa, 1st March, 1892. DEPARTMENT OF RAILWAYS AND CANALS,

No. 24.—Statement of the Number and Tonnage of all kinds of Vessels passed through the Canals during the season of Navigation in 1891.

WELLAND CANAL.

		Canadian.	•			United	STATES.	
St	team Vessel	s	Sailing	Vessels.	Steam	Vessels.	Sailing	Vessels.
Connage.	Number.	Total Tonnage.	Number.	Total Tonnage.	Number.	Total Tonnage.	Number.	Total Tonnage.
5	7	35	12	60	9	45	4	20
10 15	1 2	10 30	4	40	3 1 4	30 15 80	1 4	15 80
$\begin{array}{c} 20 \\ 25 \end{array}$	2 6	40 150	12 2 2	50			• • • • • • • • • • • • • • • • • • • •	
30	9	270	2	60	1	30 35		
35 40	$^{3}_{2}$	105 80	2	80	i	40	5	200
45			1	45				
50 65	1	50	$\frac{1}{2}$	50 130	1	50		
70	1	70	ĩ	70				
75	, <u>.</u>			160	1	75		
80 85	2	160 85	2	85			1	85
90			3	270				
100	1	100	ļ · · · ·		i	105		
105 110					3	330	· · · · · · · · · · · · · · · · · · ·	220
115						• • • • • • • • • • • • • • • • • • • •	2	230
120 125		١	1 1	120 125			2 2	240 250
130	1	130		120			2	260
135							1	135
145 150	· · · · · · · · · · · · · · · · · · ·	150	2 2	290 300	1	150		
165						1		
170		100	1	170	· · · · · · · · · · · · ·			
175 180	1	175 180	1	175 180				
185	1		1	185				
190	ļ		2	380				
200 210	1	210	2	400 210	1	210		
215	1	215	[1	215		
220	2	440	}······i	225				
225 230			2	460			2	460
235			1	235				
240 245	1	240 245	····· i	245	1		·····i	245
255	1	210	2	. 510				
260							3	780
265 270			1	270			1	265
275			2	550	1	275		
280	1	280	1 5	280 1,425	1	280	1 5	280
285 290	1	290	5 2	580			.l .	1,425
300	1	300					3	900
305	2	610	1 3	305 930			1 2	305
310 315			1	315			3 6	930 1,890
320	1	32 0	5 5	1,600			. 4	1,280
325	1	een	5	1,625			3	978
330 335	. 2	660	3 2	990 670	1		$\frac{1}{2}$	336 676

No. 24.—Statement of the Number and Tonnage of all kinds of Vessels passed through the Canals, &c.—Continued.

WELLAND CANAL-Continued.

		Canadian.	•			UNITED	States.	
St	eam Vessel	8.	Sailing	Vessels.	Steam	Vessels.	Sailing	vessels.
'onnage.	Number.	Total Tonnage	Number.	Total Tonnage.	No.	Total Tonnage.	Number.	Total Tonnage.
340							1	340
355							$\hat{2}$	710
360 365	1	360	1	360	1	360	1	365
300 370							i	370
375			1	375				
380					1	380		
385					1	385 390	1	390
390 395	1	395			1	390	1	390
400	2	800			1	400		1
405	1	405						
410	1	410	1	410				
425	$\frac{1}{2}$	425 880	1	440	• • • • • • • • •		• • • • • •	
440 450		000	1	450				
455	1	455	î	455				
460			1	460				
470	·				2	940	2	940
480	· · · · · · · · · · · · · · · · · · ·	405					1 2	480 970
485 490	1	485	i	490	1	490	1	490
490 495			1	490	1	400	1	495
500	1	500	1	500	1		$\frac{2}{2}$	1,000
510	1	510					2	1,020
515		·					1	515
520 525			1	520			1 2	520 1,050
530	i	530				1		1,000
540	2	1,080			1	54C		
550	· · · · · · · · · · · · · · · · · · ·		1	550				
555	1	555			• • • • • • • • • • • • • • • • • • • •			
565 575	1	575	• • • • • • • • • • • • • • • • • • • •			••••	1	565
580	1	580			,		1	580
590	1	1	1		1	590	1 2	590
600	1	600			1	600	2	1,200
610		\	· · · · · · · · · · · · · · · · · · ·		······································	615	1	610
615 620			• • • • • • • •		1 1	620		1
630			1	630	İ	1,20	1	630
640			1		2	1,280	2	1,280
650		1			1	650		
655					1 1	655 660		
660 695	1				1	000	1	695
695 770 800	1	770	1	1	1	1	·	
800	ļ		1				1	800
805					2		1	805
840				j	2	1,680		
850 870			· · · · · · · · · · · · · · · · · · ·		2	1,700	1	870
880		1			i	880	1	.]
908			1	908	1			
910		.]			1	910		.
915	1	1	1	1	1	915	1	1

No. 24.—Statement of the Number and Tonnage of all kinds of Vessels passed through the Canals, &c.—Concluded.

WELLAND CANAL-Concluded.

		Canadian	•			UNITED	States.	
St	eam Vessel	8.	Sailing	Vessels.	Steam	Vessels.	Sailing	Vessels.
Fonnage.	Number.	Total Tonnage.	Number.	Total Tonnage.	Number.	Total Tonnage.	Number.	Total Tonnage
929	1	929	-					
940	1	34.9			1	940		• • • • • •
950				*********	i	950		• • • • • • • • • • • • • • • • • • • •
930 977	1	977			1 1	300		• • • • • • • • • • • • • • • • • • • •
	, -				1	980	• • • • • • • • •	• • • • • •
980				• • • • • • • • • • • • • • • • • • • •		985	• • • • • • • • • • • • • • • • • • • •	
985					1	980 990		• • • • • • •
990					1	990	[• • • • • •
1,001			1	1,001				• • • • • • •
1,013		l. 			1	1,013		
1,022	: 				1	1,022		
1,024	· · · · · · · · · · · · · · · · · · ·			i	1	1,024		
1.029		l	1		1	1,029		
1,022 1,024 1,029 1,035	l				1	1,035	l	. .
1,038					1	1,038		
1,041			1	1.041				
1,053			_	i -,	1	1,053		
1,054] · · · · · · · · · · · · · · · · · · ·	1	ī	1,054	ļ	• • • • • • • • • • • • • • • • • • • •
1,00%					î	1,075		• • • • •
1,075				· · · · · · · · · · · · · · · · · · ·		, ,	1	1,16
1,168 1,172	1	1,172					+	1,10
1,172	į L	1,172			1	1 909		• • • • • • • •
1,203		1 005			1	1,203		
1,267	1	1,267				4 405		· · · · · · · · · ·
1,425			j		1	1,425		
1,441					1	1,441		
1,547	1			ļ	1	1,547		
1,548		1			1	1,548		,
1,550	1		l		1	1,550		<i></i>
1,553		1			$\bar{2}$	3,106	1	l.
2,004		1			ĩ	2,004	I	
_,501								
otal	81	29,290	113	23,680	80	46,537	97	31,91

No. 24.—Statement of the Number and Tonnage of all kinds of Vessels passed through the Canals, during the Season of Navigation in 1891.

ST. LAWRENCE CANALS.

		Canadian	•			United	STATES.	
s	team Vesse	ls.	Sailing	Vessels.	Steam	Vessels.	Sailing	y Vessels.
Γonnage.	Number.	Total Tonnage.	Number.	Total Tonnage.	Number.	Total Tonnage.	Number.	Total Tonnage
5	37	185	17	85	6	30	1	5
10	8	80	3	30	3	30		
15	6	90	7	165	1	15	1	15
20 25	13 16	260 400	5 3 2 3	100 75	$\frac{3}{2}$	60 50	2	40
30	5	150	2	60		50		
35	13	455	3	105	2	70	4	140
40	6	240	8	320			1	40
45	3	135	5	225				
50 55	4	200 220	8 4	400 220	2	100	• • • • • •	
60	3	180	26	1,560			••••	
65	1	65	1 7	455			1	6
70	2	140	4	280	,			
75	1	75	8	600	1	75	1	78
80 85	$\frac{1}{3}$	80 255	5	640 425			8	200
90	1	90	12	1,080			10	680 900
95	3	285	16	1,520			56	5,320
100	2 8	200	27	2,700	·		52	5,200
105	8	840	16	1,680			16	1,680
110 115	1	115	$\frac{8}{12}$	880 1,381			10	1,540
120	i	120	5	600			$egin{array}{c} 7 \ 2 \end{array}$	805 240
125	$\hat{2}$	250	11	1,375	[ĩ	12
130			8	1,040				
135	1	135	7	945				<i>.</i>
140 145	· · · · · · · · · · · · · · · · · · ·	290	10 11	1,400 1,595		• • • • • • • • • •	· · · · · · · · · · · ·	
150		200	18	2,700			• • • • • • • • • • • • • • • • • • • •	
155	3	465	37	2,635				
160	3	480	11	1,760			2	320
165		• • • • • • • • • • • •	14	2,310	1	165	• • • • • • • • • • • • • • • • • • • •	
$\frac{170}{175}$	• • • • • • • • • • •	• • • • • • • • • • • •	5 3	850 525		• • • • • • • • • • • • • • • • • • • •		
180	• • • • • • • •		4	720				
185			6	1,110	l	• • • • • • • • • • • • • • • • • • • •		
190			1	190				
195			5	975				
200 205	2	400	3 3	600 615		••••••		
200 220	1	220	1	220	1	• • • • • • • • • • • • • • • • • • • •		
230	ī	230	4	920				
235		<i></i>	2	470			1	235
240		· · · · · · · · · · · · · · · · · · ·	1	240	1	240		
250 255		• • • • • • • • • • • • • • • • • • • •	1 1	250 255		• • • • • • • • • • • • • • • • • • • •		
260			2	· 520				
270							1	270
275			1	275				
280							1	280
285		905	1 1	285 295				· · · · · · · · · · ·
295 300	1	295	1	295 300	• • • • • • • • • • • • • • • • • • • •		·····2	BOY
305	2	610	4	1,220				600
310			2	620				
315 4			3	945	۱ :			

No. 24.—Statement of the Number and Tonnage of all kinds of Vessels passed through the Canals, &c.—Continued.

ST. LAWRENCE CANALS-Continued.

		Canadian	ī .	United States.					
Sı	team Vesse	ls.	Sailing	Vessels.	Steam Vessels.		Sailing	Vessels.	
onnage.	Number.	Total Tonnage.	Number.	Total Tonnage.	Number.	Total Tonnage.	Number.	Total Tonnage.	
320		•	3	960			1	320	
325	1	325	. 				1	325	
330		1	330				320	
335	2	670	3	1,005	1	i	1		
340	_	•••	5	1,700			· · · · · · · · · · · · · · · · · · ·		
345		••••	$\begin{smallmatrix}5\\2\\2\\1\end{smallmatrix}$	690	• • • • • • • • • • • • • • • • • • • •	•••••			
350		· · · · · · · · · · · · · · · · · · ·	2	700	••••••	· • • • • • • • • • • • • • • • • • • •		····	
360	1	360	1	360				••••	
			4	1 400				• • • • • • • • •	
365				1,460		• • • • • • • • • •			
370		· · · · · · · · · · · · · · · · · · ·	1	370					
375			2	750		• • • • • • • • • • • •			
385			1	385					
405	1	405		·		 .			
410		<i>.</i> 	1	410					
415			1	415					
435			1	435			1		
440	1	440	$\tilde{2}$	880				•••••••	
450		110	ĩ	450		• • • • • • • • • • • • • • • • • • • •			
455	1	455	1	700		•••••		• • • • • • • • • • •	
	1			100		• • • • • • • • • • • •	•••••	• • • • • • • • • •	
475	· · · · · · · · · ·	· • • • • • • • • • • • • • • • • • • •	1	475	• • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		· · · · · · · · · · · · ·	
485			1	485		• • • • • • • • • •			
500	1	500	1	500					
510	2	1,020							
515			1	515					
520			1	520					
545			$\bar{1}$	545			• • • • • • • • • • • • • • • • • • •		
565			ī	565				• • • • • • • • • •	
575	1	575		0.00					
580	i	580				• • • • • • • • • • • • • • • • • • • •			
	1	960	2	1 170	• • • • • • • • • • • • • • • • • • • •				
585			Z	1,170		• • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • •	
595	1	595							
600	1	600							
615	1	615	1	615				. .	
630			1	630					
675	1	675		! 					
690	1	690					1		
715	1	715						• • • • • • • • • • • • • • • • • • • •	
836	î	836							
910	•	000		· · · · · · · · · · · · · · · · · · ·	1	910			
1,068	1	1,068	• • • • • • • • • • •		i	1 000		• • • • • •	
1 107	1	1,000	• • • •			1,068			
1,167		• • • • • • • • • •		! 			1	1,167	
2,004	• • • • • • • • •	• • • • • • • • • • • • • • • • • • • •			1	2,004		[• • • • • • • • • • • • • • • • • • •	
Cotal	180	19,359	443	60,906	25	4,817	183	20,387	

No. 24.—Statement of the Number and Tonnage of all kinds of Vessels passed through the Canals, &c.—Concluded.

RIDEAU, OTTAWA AND CHAMBLY CANALS.

	Canadian.					United States.						
Si	team Vesse	ls.	Sailing	Vessels.	Steam Vessels. Sailing			Vessels.				
onnage.	Number.	Total Tonnage.	Number.	Total Tonnage.	Number.	Total Tonnage.	Number.	Total Tonnage.				
5	33	165	158	790	8	40	13	65				
10	19	190	25	250	9	90	1	10				
15	9	135	8	120	4	60						
20	5 8	100	3 5 3 7 6	60	1	60		· · · · · · · · · · · · · · · · · · ·				
25 30	6	200 180	9	125 90		• • • • • • • • •						
35	4	130	7	245				•• • • • • • • • • • • • • • • • • • • •				
40	3	120	6	240	i	40	1	46				
45	$\frac{3}{2}$	90	$\mathbf{\hat{2}}$	90				• • • • • • • • • • • • • • • • • • • •				
50	4	200	2 4 2 3	200								
55	5	275	. 2	110								
60	4	240	3	180	1	60	. 3	180				
65	1	65	3	195	1		5	32				
70		905	4	. 280			2	140				
75 80	$\frac{3}{2}$	225	3 6	225 480		• • • • • • • • • •	1	78				
85	2	160	3	255			4	340				
90	i	90	13	1,170			24	2,160				
95		30	15	1,425			57	5,41				
100	3	300	24	2,400			142	14,200				
105	1	105	10	1,000	1	105	39	4,09				
110	i ; • • • • • •	l	. 8	880	1		22	2,420				
115			4	460			20	2,300				
120	2	240	6	720			7	840				
125	1	125	7	875			. 3	37				
130		• • • • • • • • • • • • • • • • • • • •	8	1,040			1	13				
135	1	140	7	135 980	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • •					
140 145	• 2	140 290	10	1,450								
150		200	16	2,400								
155	1	155	30	4,650								
160			14	2,240			1	160				
165		I	13	2,145								
170			5	850								
175			$\begin{smallmatrix}2\\2\\2\\2\end{smallmatrix}$	350								
180		.	2	360		·						
185			2	370								
$\frac{195}{205}$			2	390 205								
210		,	i	210								
230	1	230	i	230			1					
245	l		· î	245			1					
270	1		ī	270			1					
332	2	664					1					
338			2	676		·						
344	1	344				,						
368	2	736						j				
397	1	397	·									
		6,291		·	- 		·					

APPENDIX A—Continued—CANALS.

n of			Tonnage.	29,478 705	1,335 85 315	31,918		2, 235 320	9,530 7,040 240	20,387		24,360 24,360 8,635 115	33,270
easc			No.	ფ ო	11 - 1	97		r03	85°2	35		23. 15. 15.	346
owing the Classified Tonnage of all kinds of Vessels passed through the Canals during the Season of Navigation in 1891.		TES.	Sailing Vessels.	250 to 1,168 tons	150 to 139 " 100 to 149 " 50 to 99 "	Total		250 to 1,167 ton ³ 200 to 249 " 150 to 199 "	100 to 149 " 50 to 99 " Under 50 "	Total		250 to 300 tons 200 to 249 " 150 to 199 " 100 to 149 " 50 to 99 "	Total
င်း	١,	STA	Class.	-01	24700		_	-0.6				H0188470.0	
rough th		UNITED STATES	Tonnage.	45,127 425	150 435 125 275	46,537		3,982 240 165	175 255	4,817		105 60 290	455
1 th			No.		4208	8		e		क्ष	δ.	8-1-1	83
cinds of Vessels passection in 1891.	CANAL.		Steam Vessels.	250 to 2,004 tons	150 to 135 100 to 149 50 to 99 Under 50	Total	CANALS.	250 to 2,004 tons 200 to 249 " 150 to 199 "	100 to 149 " 50 to 99 " Under 50 "	Total	RIDEAU, OTTAWA AND CHAMBLY CANALS	250 to 300 tons 200 to 249 " 150 to 199 " 100 to 149 " 50 to 99 "	Total
nde i i) C		Class.	-3	20 → 10 ⊕		CE		400		0 0	01 to 4 to 6	
Tonnage of all kinds of Ves Navigation in 1891	WELLAND		Tonnage.	18,640	1,88 588 765 755	23,680	LAWRENCE	22,285 3,065 10,975	16,296 7,180 1,105	906,09	LAWA AN	946 890 111,355 12,340 4,520 2,010	32,061
Bage			No.		×458	113	ST.	£ 4.8	83 88 88	443	OTO	3 70 101 56 217	£1
e Classified Ton			Sailing Vessels.	250 to 1,041 tons	150 to 199 100 to 149 50 to 99 o Under 50	Total		: : : : : :	: : :	Total	RIDEAU,	250 to 338 tons 200 to 249 " 150 to 199 " 100 to 149 " 50 to 99 "	Total
g th		MAN.	Class.	-67	w 4 10 0			03 65	4100			01 ca 4 ru co	
r showing		CANADIAN.	Tonnage.	17,120	2888	20,290		12,029 850 945	1,950 1,590 1,995	19,359		2,141 230 1,355 1,255 1,310	6,291
MEN			N. O.	gg မ	a a ro Šž	8		8 4 ъ	10 10 10 10	180		88 kg 1: 16	127
No. 25.—Statement sh			Steam Vessels.	1,267 t	150 to 199 " 100 to 149 " 50 to 99 " Under 50 "	Total		% tons	::::	Total		250 to 397 tons 200 to 249 150 to 199 100 to 149 50 to 99	Total
			Class.	-63	w 4 ro a			-226	400			c1 t0 4 t0 t0	

No. 26.—RATES of Tolls on the Canals WELLAND, ST. LAWRENCE, RIDEAU, OTTAWA AND CHAMBLY CANALS (O.C., 25th April, 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 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. John's, each way.
Class No. 1.	\$ cts.	\$ cts.	\$ ets.	\$ ets.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Vessels, steam per ton. do sail and other do	$\begin{array}{ccc} 0 & 01\frac{1}{2} \\ 0 & 02\frac{1}{4} \end{array}$	$\begin{array}{c} 0 & 01\frac{1}{2} \\ 0 & 02\frac{1}{4} \end{array}$	0 02 1 0 03 3	$\begin{array}{c} 0 & 00\frac{3}{4} \\ 0 & 01\frac{1}{2} \end{array}$	0 003 0 014	$\begin{array}{ccc} 0 & 01\frac{1}{2} \\ 0 & 02\frac{1}{4} \end{array}$	0 00 5 0 01	0 01½ 0 02½
Class No. 2.				l				
Passengers, 21 years of age and upwards	0 10 0 05	0 10 0 05	0 20 0 10	0 10 0 05	0 05 0 02	0 08 0 04	0 02 1 0 01 1	0 09 3 0 04½
Class No. 3.				·	į			
Bricks, cement and water lime Clay, lime and sand Brimstone Corn Flour Iron, railway do pig do all other, including steel (O. C., 1st Feb., 1888) Plaster, gypsum Salt Salt neats or fish in barrels or otherwise Agricultural products, vegetable, not enumerated Agricultural products, animal, not enumerated. Stone, for cutting Wheat	0 15	U 20	0 20	0 15	0 10	0 07	0 06	0 193
Class No. 4.			!					
All other articles, not enumerated.	0 15	0 20	0 20	0 20	0 10	0 26	0 14	0 29

of the Dominion of Canada, 1891.

TRENT VALLEY CANAL (O.C., 25th JULY, 1888.)

1st Section.	2nd Section.	3rd Section.	4TH SECTION.	Тнкоидн.	Whitlaw's	
Fenelon Falls to Bobcaygeon.	Bobcaygeon to Buckhorn.	Buckhorn to Burleigh.	Burleigh to Lakefield.	Fenelon Falls to Lakefield.	to Hastings.	
Tolls chargeable at Fenelon Falls.	Tolls chargeable at Bobcaygeon.	Tolls chargeable at Buckhorn.	Tolls chargeable at Burleigh.	Tolls chargeable at Fenelon Falls.	Tolls chargeable at Whitlaw's.	
\$ cts:	\$ cts.	\$ cts.	\$ ets.	\$ cts.	\$ cts.	
$\begin{array}{ccc} 0 & 00 & \frac{3}{6} \\ 0 & 00 & \frac{1}{4} \end{array}$	$\begin{array}{ccc} 0 & 00\frac{3}{16} \\ 0 & 00\frac{1}{4} \end{array}$	$\begin{array}{ccc} 0 & 00 \frac{3}{16} \\ 0 & 00 \frac{1}{4} \end{array}$	$\begin{array}{c} 0.00\frac{3}{16} \\ 0.00\frac{1}{4} \end{array}$	0 00\$ 0 01	0 00 ³ / ₆	
0 01 0 00½	0 01	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 61	
0 03	0 03	0 03	0 03	0 12	0 03	

No. 26.—Rates of Tolls on the Canals WELLAND, ST. LAWRENCE, RIDEAU, OTTAWA AND CHAMBLY CANALS.

				ray.	Ours		Anne's	Ottawa to St. John's, each way.
	-ei			St. Lawrence Canals, each way	Š.		1	d ≱
	Welland Canal, westward	Welland Canal, castward	-:	680		ay.	St.	еас
	st	st w	Lake Erie to Montreal	ls,	Chambly Canal and Lock, each way.	Rideau Canal, each way.	' 🔻	°æ'
The Rates of Tolls are divided into	×	28	ont	*u	_ ×	ach	Ottawa Canals and Lock, each way.	πą
Six Classes, as under, and are perton, unless otherwise specified.	٦á ا	-Ę	×	రో	wa wa	a l	ls wa	ř
ton, amess etherwise specimen	a.n	an l	3	ice	್ಟ್ ಕ	nal	ch	ž.
	30	0	. <u>e</u> .	Lei	, e	25	Ü 🕏	23
	žuč	ğ	室	3. K	ارة الج الم	3	ķ'ā	87
	- F	ell	ke	1	E S	des	ttawa Canals aı Lock, each way.	ta.
			_ <u>"</u> _		<u>5</u>	<u> </u>	<u> </u>	<u>_</u>
Class No. 5.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Bark	0 20	0 20	0 20	0 15	0 10	0 07	0 06	0 194
Barrels, empty, each.,	0 02 0 05	0 02 0 05	0 02 0 05	$\begin{array}{c} 0 & 02 \\ 0 & 02 \end{array}$	0 02 0 02	0 02	0 01	0 035
Boat knees, each	1 40	1 40	1 40	1 40	1 20	$egin{array}{ccc} 0 & 02 \\ 1 & 05 \\ \end{array}$	0 01 0 50	$\begin{array}{c} 0 & 03 \\ 2 & 05 \end{array}$
Firewood, per cord, in vessels	0 20	0 20	0 20	0 20	0 10	0 15	0 08	0 23
do rafts	0 25 9 25	0 25 0 25	$\begin{array}{c} 0 & 25 \\ 0 & 25 \end{array}$	0 25	0 15	0 19	0 09	0 304
Hoops	9 20	0 25	0 20	0 20	0 15	0 15	0 10	0 30
per ton of 40 cubic ft., in vessels.	0 15	0 15	0 15	0 05	0 05	0 08	0 07	0 134
Masts and spars, telegraph poles, per ton of 40 cubic feet, in rafts.	0 20	0 20	0 20	0 10	0 10	0 15	0 10	0.001
Railway ties, in vessels, each	0 01	0 01	0 01	0 003	0 003	0 003	0 003	0 223 0 01
do rafts, each	0 02	0 02	0 02	0 01	0 01	0 02	0 01	0 02
Sawed stuff, boards, planks, scant-								
ling and sawed timber, per M. feet, board measure, in vessels.	0 30	0 30	0 30	0 15	0 10	0 111	0 063	0 20
Sawed stuff, boards, plank, scant-						**	0 004	· 2·
ling and sawed timber, per M.	0 60	0 60	0 60	0 30	0 20	0 19	0 09	0.001
feet, board measure, in rafts Square timber, per M. cubic feet,	0 00	0 60	0.00	บอบ	0 20	0 19	0 09	0 36
in vessels	3 00	3 00	3 00	1 00	1 00	0 56	0 44	1 69
Square timber, per M. cubic feet,	4 50	4 50	4 50	2 00	2 00	1 10	0.00	0.10
in rafts Wagon stuff, woodenware and	4 50	4 50	4.00	2 00	2 00	1 12	0 63	3 13
wood, partly manufactured, per								
ton of 40 cubic feet	0 40 0 06	0 40	0 40 0 06	0 40	0 25	0 30	0 20	0 55
Shingles, per M	0 00	0 00	0.00	0 06	0 04	$0.04\frac{1}{2}$	$0.02\frac{1}{2}$	0.08
in vessels	0 40	0 40	0 40	0 40	0 20	0 23	0 12	0 42
Split posts and fence rails per M.,	4. 00	0.00	0.00	0.00	0.40	0.00		
in rafts	0 80 0 08	0 80 0 08	0 80 0 08	0 80	0 40 0 05	0 38 0 06	0 17 0 06	0 77
Staves and headings, brls. per M.	0 40	0 40	0 40	0 20	0 15	0 15	0 10	0 30
do pipe do	1 50	1 50	1 50	1 00	1 00	0 75	0 50	1 75
do W.India, perM. do salt barrel, sawn	0 75	0 75	0 75	0 60	0 25	0 45	0 25	0 65
or cut, per M	0 08	0 08	0.08	6 04	0 03	0 03	0 02	0 06
Traverses, per 100 pieces	0 50	0 50	0 50	0 50	0 4?	0 38	0 15	0 67
Hop poles, per 1,000 pieces	2 00	2 00	2 00	2 00	1 50	1 50	0 65	2 65
Special Cluss.								
Gypsum, crude (per O. C., 28th							1	
October, 1882)	0 15 0 20	0 05	0 20	0 05		ward 0 08	0 05	
CoalStone, unwrought, corded and not	0 20	0 20	0 20	0.19	0 10	0 08	0 00	0 17
suitable for cutting, per cord	0 75	0 75	0 75	0 60	$0.37\frac{1}{2}$	0 28	0 24	0 77
Kryolite, iron ore or chemical ore.	0 05	0 05	0 05	0 05	0 05	0 05	0 05	0 05
Ice	0 05	0 05	0 05					

of the Dominion-Continued.

TRENT VALLEY CANAL.

	Тнкоисн.	4TH SECTION.	3rd Section.	2nd Section.	1st Section.
Whitlaw's to					
Hastings.	Fenelon Falls	Burleigh	Buckhorn	Bobcaygeon	Fenelon Falls
	to Lakefield.	to Lakefield.	to Burleigh.	to Buckhorn.	Bobcaygeon.
Tolls Charg	Tolls Charge- able at	Tolls Charge-	Tolls Charge-	Tolls Charge-	Tolls Charge-
able to Whitlaw's	able at Fenelon Falls.	able at Burleigh.	able to Buckhorn.	able to Bobcaygeon.	able at Fenelon Falls.
\$ cts.		\$ cts.	\$ cts.	\$ cts.	\$ cts.
	, i	0.01	0.01	0.01	0 01
0 01 0 00 1	0 04 0 01	0 01	0 01	0 01 0 00‡	0 001
0 001	0 01	0 00 1 0 00 1	0 00½ 0 00½	0 001	0 002
0 13	0 52	0 13	0 13	0 13	0 13
0 03	0 10	0 03	0 03	0 03	0 03
0 04	0 14	0 04	0 04	0 04	0 04
0 02	0 08	0 02	0 02	0 02	, 0 02
0 02	0 08	0 02	0 02	0 02	0 02
0 01	0 04	0 01	0 01	0 01	0 01
0 001	0 00½	. 0 00 1	0 001	0 00 1 0 00 1	0 001
0 00€	0 01	0 004	0 004	0 004	0 004
0 03	0 10	0 03	0 03	0 03	0 03
0 04	0 14	0 04	0 04	0 04	0 04
0 07	0 28	0 07	0 07	0 07	0 07
0 14	0 56	0 14	0 14	0 14	0 14
0 04	0 16	0 04	0 04	0 04	0 04
0 003	0 03	0 00\$	0 003	0 003	0 00\$
0 03	0 12	0 03	0 03	0 03	0 03
0 05	0 20 0 03	0 05	0 05	0 05	0 05
0 003	0 03	0 003	0 003	0 003	0 003
0 02	0 08	0 02	0 02	0 02	0 02
0 10	0 40	0 10	0 10	0 10	0 10 .
0 05½	0 22	0 05½	0 05½	0 051	$0.05\frac{1}{2}$
0 00½ 0 05	0 02 0 20	0 00½ 0 05	0 00½ 0 05	0 00½ 0 05	0 00½ 0 05
0 20	0 80	0 20	0 20	0 20	0 20
		1			
Free.	Free.	Free.	Free.	Free.	Free.
0 01	0 04	0 01	0 01	0 01	0 01
0 031	0 14	0 031	0 031	0 031	0 031
0 00\$	0 03	0 00\$	0 003	0 003	0 00\$
Free.	Free.	Free.	Free.	Free.	Free.

Sec. 76.—Standard for estimating weights, for canal tolls.

	Tons.		Tons,
2,000 lbs. avoirdupois 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 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 Seed, 9 barrels Seed, 9 barrels Sheep, 20		Stone, 12 cubic feet. Stone, 1 cord. Whiskey, 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 40 cubic feet. Shingles, 12 M. or bundles. Split posts and fence rails, 1 Mille. Staves and headings, pipe, 1 Mille. do W. India, 1 Mille. do barrel, 1 Mille. do barrel, 1 Mille. Saw-logs, standard, 1. Square timber, 50 cubic feet. Telegraph poles, 10 or 40 cubic feet. Masts and spars, 40 cubic feet. Railroad ties, 16 or 50 cubic feet. All other woodenware, or partly manufactured wood, 40 cubic feet as per tariff. Traverses, 40 cubic feet or 5 pieces. Floats, 50 lineal feet.	1,1 7,2 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 above named articles are to be estimated by the cental of 100 lbs.

WAY RATES.

Sec. 77. The following way rates are to be levied on vessels and property passing the several subdivisions of the canals:—

WELLAND CANALS.	Rate
1. From Port Maitland, Dunnville and Port Colborne to Port Robinson or Allanburg, not pass-	
ing the lock, each way	2
3. From Dunnville to Port Colborne	5400-151-15600
3. From Dunnville to Port Colborne. 4. From Thorold to St. Catharines or Port Dathousie.	ţ
5. From Maitland, Dunnville, Colboine, or Port Robinson to Marshville and intermediate places.	8
6. From Marshville or intermediate places to Port Maitland, Dunnville, Port Colborne and Port Robinson	3
7. From Port Robinson to Allanburg or Thorold	30300-01-00
8. From Port Robinson to St. Catharines or Port Dalhousie	ı 2
9. From St. Catharines to Port Dalhousie	ŧ
10. From Dunnville to Maitland 11. From Port Robinson through the Lock and Chippawa Cut	4
12. From Port Colborne to Port Maitland	1
13. From Chippawa Cut through Lock to Port Robinson	4
14. From Colborne, Dunnville, Maitland and Marshville to Thorold	5
16. Through the Chippawa Cut only	į
17. Through the Port Robinson Lock only	រិ
St. Lawhence Canals.	
Sec. 78. 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.	
Sec. 79. Vessels and property passing from Sorel to Chambly, to pay	į
Vessels and property passing from Chambly to St. John's, to pay	į

OTTAWA CANALS.

Sec. 80. The navigation is divided into three sections, viz., Grenville, Carillon and St. Ann's. Tolls are to be levied on all vessels and property in proportion to the number of sections passed through.

RIDEAU CANAL.

Sec. 81. 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.

GENERAL.

Sec. 82. (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.

SPECIAL REGULATIONS RELATING TO TOLLS ON SOME OF THE CANALS.

Sec. 83. Coal may pass up all canals, except the Welland Canal, free of toll. O. C. June 7, 1869.

Sec. 84. Logs, lumber or other produce may pass free of toll down the Chippewa Creek, between the Aqueduct and Port Robinson. O. C. May 18, 1863.

NOTE.

O. C. 27th June, 1890.

That the following words be added to Section 84:-

- (1.) "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, as provided by the Order in Council of the 9th July, 1888.
- (2.) "Rafts may be passed through the Carillon Canal free of tolls, as pro-"vided by the Order in Council of the 9th July, 1888."
- Sec. 85. Iron ore, kryolite or chemical ore, may pass through one section, or through all the canal sections aforesaid, for 5 cents per ton.
- Sec. \$6. (a) All goods having paid full toll through the whole line of the St. Lawrence Canals, or through the Lachine Canal, St. Ann'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, St. Ann'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.
- (c) 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.
- Sec. 87. 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 reshipped 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.
- Sec. 88. During the season of Navigation for 1889, the rate of toll for the passage of wheat, Indian corn, pease, barley and rye, when shipped for Montreal or for any port east of Montreal, shall be two cents per ton, such toll covering the Welland and the St. Lawrence Canals; and during the said period, if the ordinary full tolls for passage of the said food products through the Welland Canal have been paid, the said products shall be exempted from payment of any further toll for passage through any portion of the St. Lawrence Canal system, though not traversing the whole distance to Montreal. O. C. March 18, 1889.

HARBOUR DUES.

MIMSec. 89. 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.

TOLLS AT SHEDS AT LACHINE CANAL BASIN.

Sec. 90. The following tolls shall be levied upon property stored at the sheds at the Lachine Canal Basin:—

			Cents
Wheat and other grain, p	er 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	. 5
Liquors {	do	per pipe, 15 cents; per pun	. 12
Liquors	do	per hhd, 10 cents; per qr. cask	7
Iron, bars	do	per ton	. 24
Iron, pig	do	do	. 12
Salt, except at the St.			. 12
Gabriel sheds	do	per 100 minots	36
Salt at the St. Gabriel sheds.		per 200 minoralities	50
Montreal, after the first			
48 hours	do	wer had	1
Bales, crates, cases, &c.	do	per bag	
Coals		per ton weight or measurement	. 24
Coats	do	per chaldron.	. 12

- Sec. 91. (a) No charge shall be made for property stored in the sheds of the Lachine Canal basin for the first 48 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 can be computed.
- (c) All property stored in the sheds remaining after the first 48 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.
- (c) 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 property. O. C. August 21, 1846, October 28, 1846.

Flour.

- Sec. 92. (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.

TOLLS ON VESSELS TRADING TO LOWER PORTS AND ENTERING THE LACHINE CANAL AT MONTREAL HARBOUR.

Sec. 93. The following rates of tolls shall be levied upon vessels trading to lower ports, and entering the Lachine Canal from the harbour of Montreal, and on certain goods herein mentioned; said vessels to be allowed 48 hours for discharge of cargo before the following be incurred; and said discharge to be made below the St. Gabriel Lock.

Steam-boats measuring 50 tons or upwards, per ton register, per day of 24 hours All other vessels measuring 50 tons or upwards, per ton register, per day of 24 hours	8 4
Steam-boats measuring under 50 tons register, each day of 24 hours. All other vessels measuring from 25 to 50 tons register, per day of 24 hours. All vessels measuring less than 25 tons register, per day of 24 hours. Coal per chaldron. Salt, per 100 minots. Iron of all kinds, per ton weight. Merchandise as in class No. 6 of the tariff of tolls on Dominion Canals.	20 10 10 15
	- 0 .

Provided always that the above tolls be levied only on goods for consumption in Montreal, and on vessels trading with that port. O. C. June 8, 1860.

CHARGES FOR WHARFAGE ON FIREWOOD ON WHARVES AND BANKS OF LACHINE CANAL.

- Sec. 94. The following rates of tolls shall be collected as herein mentioned, that is to say :-
- (a) Firewood landed on wharves or banks of the Lachine Canal, or in boats, barges or other crafts 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 wharves or banks, after the first five days, and additional charge of four cents per cord. O. C. August 7, 1860.
- (b) The clause next preceding shall not only apply to the rates of toll to be collected on firewood on wharves 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.

CANAL BASINS IN MONTREAL PART OF MONTREAL HARBOUR.

Sec. 95. 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;

or 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.

PHOSPHATES.

Sec. 96. 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 th Lachine Canal for the storage of the phosphates, and in accordance with the existing regulations, paying canal dues a second time for such re-entry;

It is ordered that the Lachine Canal basins, within the Montreal city limits, be considered as part of the Montreal Harbour, for the purposes of the unloading of phosphates carried by vessels in 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.

CHARGES ON VESSELS WINTERING IN LACHINE CANAL.

Sec. 97. 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.

DUES ON VESSELS IN THE NEW BASIN, LACHINE CANAL.

Sec. 98. 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 basins of said canal and of the revenue that may be derived from their use, and the rates shall be levied by the Government on vessels loading or unloading in the new basins equal and similar to those levied by the Commissioners in respect of the old basin. O. C. Jan. 26, 1883.

Dues in the Harbour of Montreal under Acts 40 Vic., Chap. 53, and 42 Vic., Chap. 28. Sec. 99.—Tonnage Dues.

On steamboats, for each day of 24 hours, or part of a day they remain in the harbour, reckoned from the hour of their arrival to that of their departure	Per ton register. 1 cent. $\frac{1}{2}$ do
Sec. 100. Wharfage Dues.	D .
All goods, wares and merchandise, not elsewhere specified. Hay, straw, pig and scrap iron, pot and pearl ashes. Apples, crates and their contents, flour and meal, fish, meats, pitch, potatoes, tar, horses, neat cattle, sheep, swine. Ballast, clay, fire-bricks, gypsum, lime, marble, phosphates, sand, salt	Per ton. 25 cents. 20 do 15 do 10 do 71 do
Coal and coke, grain and seeds of all kinds. Special.—Bricks, 10 cents per 1,000, cordwood, 5 cents per cord, lumber, 10 cents per 1,000 feet, board measure. Bullion specie	Free.

Note.

Sec. 101 (a.) On all goods, wares and merchandise whatsoever, the quantity of which by weight, measurement or other mode of estimate provided for in the tariff of the next preceding section cannot be conveniently ascertained, it shall be lawful for the Harbour Commissioners to levy a rate of $\frac{1}{4}$ of 1 per cent on the value thereof.

(b.) Each entry shall pay not less than five cents.

(c.) All property landed on the wharves for reshipment shall only pay one wharfage.

(d.) The ton mentioned in the tariff of wharfage dues shall be 2,000 lbs. weight or 40 cubic feet measurement, according to the bill of lading.

Sec. 102.—Standard for Estimating Weigh	Sec.	Weights.	ec.	lec. 102.—Sta	ndard for	Estimating	Weights.
---	------	----------	-----	---------------	-----------	------------	----------

Ashes, pot or pearl	
Fish, meat, pitch, tar	
Horses	
Neat cattle	
Sheep	
Swine10 to 1 do	
D. C. April 1st, 1881.	

TOLLS ON FLOATED TIMBER, &C., ENTERING THE BASIN AT LACHINE.

Sec. 103. 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 2 5	2
Floats, per 100.	10	5	10
Traverses, per 100	10	5	10
Fence posts and rails, per M. Staves, barrel, per M	10	5	10
do pipe do	8	4	8
	. 8	4	8
do West India, per M	8	4	8
wharves in canal basin at Lachine	3	3	3

NOTE.

O. C. 27th June, 1890.

3. That the following words be added to Section 103:—"The monthly charge "of 3 cents per cord on firewood is cancelled, as provided by Order in Council "of the 4th February, 1880."

Note.

Sec. 104. (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 superintendent may direct.
- (c.) The rates on timber to take effect upon the completion of the booms in Lachine Canal, O. C. June 8, 1860.

CHARGES FOR WINTERING VESSELS IN RIDEAU CANAL.

Sec. 105. 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 season			 	٠.	 	 		 1	\$ 8	00	
do	do	barges	do									4		
Inside locks			do									50		
do oth	er static	ons 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.

CHARGES FOR REPAIRING VESSELS ON THE BANKS OF CANALS.

- Sec. 106. (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.
- Sec. 107. 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 superintendent.
- (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.

 156

 RAILWAYS AND CANALS.

- (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 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 a manner for the repairs of vessels, whether such vessels are actually hauled up or not. O. C. August 6, 1881.

ST. PETER'S CANAL.

Sec. 109. On each and every vessel passing through the said canal, two cents per ton on vessel and one cent per ton on the freight, each way. O. C. June 23, 1883.

ORDER IN COUNCIL.

12th December, 1889,

On a memorandum dated 10th of December, 1889, from the Minister of Railways and Canals, representing that in certain instances it has been the practice to tie up vessels for the winter alongside of canal piers, but not inside the gates, and that consequently such vessels thereby, to some extent advantaged, do not receive there the protection from the rise and fall of water which they would obtain inside, that nevertheless they have been charged with winterage dues,—

The Minister recommends that henceforward, including the winter now current, but not otherwise retroactive, no charges be made for vessels so wintering outside the locks of any Government Canal.

Th committee submit the above recommendation for your Excellency's approval.

O. C. 16th May, 1890.

His Excellency, under the authority conferred upon him by Chapter 37 of the Revised Statutes, intituled: "An Act respecting the Department of Railways and Canals," and by and with the advice of the Queen's Privy Council for Canada, is pleased to order that the Rules and Regulations for the management, maintenance, proper use and protection of the Canals of the Dominion of Canada, made and established by the Order in Council of the 26th day of October, 1889 (Consolidated Orders in Council of 1889), together with any amendments thereof or additions thereto, shall be, and the same are hereby made applicable to the Murray Canal, with the exception of such sections or provisions as relate especially and only to other works named therein.

O. C. 20th May, 1890.

His Excellency, in pursuance of the provisions of Chapter 37 of the Revised Statutes, intituled: "An Act respecting the Department of Railways and Canals," and by and with the advice of the Queen's Privy Council for Canada, is pleased to order that the rates of toll to be imposed and collected on the Murray Canal, now open for regular traffic, shall be and the same are hereby fixed at the rate of one-eighth of those charged for passage through the St. Lawrence Canals.

ORDER IN COUNCIL.

27th September, 1890.

On a Memorandum dated 25th September, 1890, from the Minister of Railways and Canals, representing that under date the 20th August, 1890, an Order in Council was passed prohibiting 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,—

The Minister recommends, as this prohibition has entailed the use of tugs and consequently expense to the parties concerned, and upon the advice of the Deputy Head of the Department of Railways and Canals, that all tugs used solely for the purpose 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 works on that section.

The Committee submit the above recommendation for your Excellency's approval.

ORDER IN COUNCIL.

27th day of September, 1890.

PRESENT:

HIS EXCELLENCY THE GOVERNOR GENERAL IN COUNCIL.

His Excellency, under the authority conferred upon him by chapter 37 of the Revised Statutes, intituled: "An Act respecting the Department of Railways and Canals," and by and with the advice of the Queen's Privy Council of Canada, is pleased to declare the now completed Tay Canal to be part of the Rideau Canal, and that the rules and regulations for the management, maintenance, proper use and CANAL STATISTICS.

protection of the canals of the Dominion of Canada, made and established by the Order in Council of the 29th of October, 1889 (Consolidated Orders in Council of 1889, chapter 115), together with any amendments thereof or additions thereto, shall be applicable to the said Tay Canal, and the same are hereby made applicable to the Tay Canal accordingly, with the exception of such sections or provisions as relate specially, and only to works other than the Rideau Canal named therein.

And His Excellency is further pleased, under the authority of the above cited Act, and by and with the advice of the Queen's Privy Council for Canada, to impose and authorize the collection of the following rates of toll upon the said Tay Branch of the Rideau Canal system, now open for regular traffic, namely:

From Perth to Smith's Falls, 1 section, or \$\frac{1}{2}\$ Rideau Canal rates.

From Perth to Kingston, 2 sections, or \$\frac{2}{2}\$ Rideau Canal rates.

From Perth to Ottawa Basin, 2 sections, or a Rideau Canal rates. From Perth to River Ottawa, 2 sections, or full Rideau Canal rates.

A portion of a section to be charged as a whole section.

O. C. 31st October, 1890.

His Excellency, under the authority conferred upon him by Chapter 37 of the Revised Statutes, intituled: "An Act respecting the Department of Railways and Canals," and by and with the advice of the Queen's Privy Council for Canada, is pleased to impose and authorize the collection of the following tolls and dues 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		\$ 4 3	\$ 12 10

AT THE GOVERNMENT HOUSE, AT OTTAWA,

WEDNESDAY, the 25th day of March, 1891.

PRESENT :

HIS EXCELLENCY THE GOVERNOR-GENERAL IN COUNCIL.

His Excellency, having had under consideration the tariff of tolls on the Canals of the Dominion, and 'the several Orders in Council under which a special rate has from time to time been established temporarily on certain food products passing through the Welland Canal and through the St. Lawrence Canals for shipment at Montreal and ports east of Montreal, is pleased to order in virtue of the powers vested in him by Chapter 37 of the Revised Statutes, intituled "An Act respecting the Department of Railways and Canals," and by and with the advice of the Queen's Privy Council for Canada, that the following amendments shall be and the same are hereby made to the tariff of tolls in force on the said Canals,

A refund shall be made on the tolls collected on wheat, Indian corn, pease, barley, rye, and (if for export) oats, which may be carried through the Welland Canal and the St. Lawrence Canals to Montreal, or any port east of Montreal.

The refund shall be such as to reduce the tolls to two cents per ton of the said products or any of

them, and the conditions of such refund shall be the following:—

1. The products aforesaid, on which the refund may be claimed, shall be shown to have been originally

shipped for Montreal or some port east of Montreal before entering the Welland Canal, and 2. Shall be shown to have been actually carried to Montreal or some port east of Montreal. 3. Transhipment, if at a Canadian intermediate port, shall not prevent the refund aforesaid being

made.

This Order in Council shall remain in force only for the present year, 1891.

(Signed)

JOHN J. McGEE,

Clerk of the Privy Council.

The Right Honourable

The Minister of Railways and Canals.

AT THE GOVERNMENT HOUSE, AT OTTAWA.

WEDNESDAY, the 29th day of April, 1891.

PRESENT :

HIS EXCELLENCY THE GOVERNOR-GENERAL IN COUNCIL.

His Excellency, under the authority conferred upon him by Chapter 37 of the Revised Statutes, intituled "An Act respecting the Department of Railways and Canals," and by and with the advice of the Queen's Privy Council for Canada, is pleased to order that the provisions of the Order in Council of the 25th day of March, 1891, authorizing the reduction of toll to two cents (2 cts.) per ton for the passage through the Welland and St. Lawrence Canals of certain agricultural products therein hamed, shall be understood to apply to any portions of such cargoes lightered at Port Colborne and re-shipped at Port Dalhousie, and also that the provisions of the said Order be made applicable to the therein named products when third from Canadian Lake Outsile results. when shipped from Canadian Lake Ontario ports.

(Signed)

JOHN J. McGEE. Clerk of the Privy Council.

The Right Honourable

The Minister of Railways and Canals.

AT THE GOVERNMENT HOUSE, AT OTTAWA.

WEDNESDAY, the 29th day of April, 1891.

PRESENT:

HIS EXCELLENCY THE GOVERNOR-GENERAL IN COUNCIL.

His Excellency, in virtue of the provisions of Chapter 37 of the Revised Statutes, intituled: "An Act respecting the Department of Railways and Canals," and by and with the advice of the Queen's Privy Council for Canada, is pleased to order that the provisions of the Orders in Council dated respectively the 22nd day of May, 1890, and the 30th day of June, 1890, under which, in the case of steamers specially chartered for the conveyance of excursion parties going and returning in the same boat on the same day, charcered for the conveyance of excursion parties going and returning in the same boat on the same day, one-half only of the usual rates of passenger tolls were charged for passage through the Lachine Canal and the Ste. Anne's Lock, and for passage through the Welland Canal, in the case of excursion parties leaving Toronto or Hamilton for St. Catharines, be continued in force for the forthcoming season of navigation only, adding to the said provisions, however, for the forthcoming season, that this conditionally reduced rate shall apply to excursion parties leaving St. Catharines for Toronto or Hamilton.

(Signed,)

JOHN J. McGEE, Clerk of the Privy Council.

The Right Honourable

The Minister of Railways and Canals.

Certified Copy of a Report of a Committee of the Honourable the Privy Council, approved by His Excellency the Governor-General in Council, on the 18th May, 1891.

The Committee, on the recommendation of the Minister of Railways and Canals, advise with reference to the Orders in Council dated respectively the 25th of March and the 29th of April last, authorizing the reduction of canal tolls on certain food products, the provisions of which orders are carried out by way of refund of the excess tolls paid, that such refund be made at the close of the present season, on or about the 1st day of December and not during the season as heretofore.

(Signed,)

JOHN J. McGEE, Clerk of the Privy Council.

The Right Honourable

The Minister of Railways and Canals.

AT THE GOVERNMENT HOUSE, AT OTTAWA.

MONDAY, 18th day of May, 1891.

PRESENT:

HIS EXCELLENCY THE GOVERNOR-GENERAL IN COUNCIL.

His Excellency, in virtue of the powers vested in him by Section 13 of Chapter 37 of the Revised Statutes, intituled: "An Act respecting the Department of Railways and Canals," and by and with the advice of the Queen's Privy Council for Canada, is pleased to order that all 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.

(Signed,)

JOHN J. McGEE, Clerk of the Privy Council.

The Right Honourable

The Minister of Railways and Canals.

O. C. 18th May, 1891.

Whereas, in consequence of the operations of the contractors for the enlargement of the Cornwall Canal, access to the river wharf opposite the town of Cornwall is temporarily prevented for the steamers

Canal, access to the river whart opposite the town of Cornwall is temporarily prevented for the steamers of the Richelieu and Ontario Navigation Company, such steamers being obliged in place of stopping at such wharf to pass through the two locks at the lower entrance of the canal to another wharf in the town;

His Excellency, under the authority conferred upon him by Section 13 of Chapter 37 of the Revised Statutes, intituled: "An Act respecting the Department of Railways and Canals," and by and with the advice of the Queen's Privy Council for Canada, is pleased to order that during the current season the steamers of the said Richelieu and Ontario Navigation Company shall be allowed passage free of toll through the said two locks at the lower entrance of the Cornwall Canal.

(Signed.)

JOHN J. McGEE Clerk of the Privy Council. O. C. 4th April, 1892.

His Excellency, having had under consideration the tariff of tolls on the Canals of the Dominion, and the several Orders in Council, under which a special rate has, from time to time, been established temporarily on certain food products passing through the Welland Canal and through the St. Lawrence Canals, for shipment at Montreal and ports east of Montreal, is pleased to order, in virtue of the powers vested in him by Chapter 37 of the Revised Statutes, intituled: "An Act respecting the Department of Railways and Canals," and by and with the advice of the Queen's Privy Council for Canada, that the following amendments shall be, and the same are hereby made to the tariff of tolls in force on the said canals, viz.:—

That a refund be made of a portion of the Canal tolls collected on wheat, Indian corn, pease, barley, rye, oats, flax seed and buckwheat which have been carried through the Welland Canal, and the St. Lawrence Canals to Montreal or to any port east of Montreal in all cases where the said products so carried are

exported, and in such cases only.

That this rebate be such as to reduce the tolls to two cents per ton of the said products or any of them,

and that the conditions of such refund be the following:

That the products aforesaid on which the rebate of tolls may be claimed shall be shown to have been originally shipped for Montreal or for some port east of Montreal and shall be shown to have been carried to Montreal or to some port east of Montreal, and actually sent out of the country.

That the right to this rebate shall not be lost by reason of intermediate transhipment, provided that

the place of such transhipment is one within the Dominion of Canada.

That the right of this rebate shall extend to any portions of cargoes lightered at Port Colborne and reshipped at Port Dalhousie, and also to shipments of the above named products made from any Canadian Lake Untario Port.

That payment of the amount to be refunded be made, from time to time, as cargoes of the said products are despatched for export from Montreal cr from some port east of Montreal

That this Order in Council remain in force for the present year, 1892, only

(Signed) JOHN J. McGEE, Clerk of the Privy Council.

The Honourable

The Minister of Railways and Canals.

Certified Copy of a Report of a Committee of the Honourable the Privy Council, approved by His Excellency the Governor-General in Council, on the 18th May, 1892.

On a memorandum dated 19th April, 1892, from the Minister of Railways and Canals, submitting a memorandum, copy herewith, from the proper officers of the Department of Railways and Canals upon certain objections raised by the Montreal Board of Trade, by forwarders and others to the existing tonnage and wharfage charges on vessels and freight using the basins of the Lachine Canal at Montreal.

From such memorandum, which is of a detailed and explanatory character, it appears that the complaints made are well founded, the complications shown being due to the fact that various Orders in Council have from time to time been passed, fixing and changing rates and charges to meet particular cases as they arose; and pending a general revision of the whole matter of canal regulations, tolls, and charges which seems to be desirable, it is expedient that the subject of these complaints should be dealt with at once.

The Minister, accordingly, on the advice of the Canal Revenue Officers, endorsed by the Superintending Engineer of the Lachine Canal, and the Deputy Head of the Department of Railways and Canals, recom-

mends the adoption of the following:-1st. The cancellation of Section No. 93 of Consolidated Orders in Council of the 26th October, 1889, Chapter 115, and the substitution therefor of the following:-

Wharfage Dues on Coal for local consumption in Montreal.

Sec. 93. 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 5 cents a ton.

Coal screenings shall be charged 3 cents a ton.

2nd. The cancellations of Sections Nos. 98, 99, 100 and 101 and the substitution of the following:-

Wharfage Dues in all basins of the Lachine Canals on Sea-going vessels.

Sec. 98. 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	"	* "
Apples, crates and their contents, flour and meal, fish, meats, pitch,			
potatoes, tar, horses, neat cattle, sheep and swine	15	66	44
Ballast, clay, fire bricks, gypsum, lime, marble, phosphate, sand salt,			
coal and coke, grain and seeds of all kinds		**	"
Special. Bricks, 10 cents per 1,000; cordwood, 5 cents per cord; lumber.			
10 cents per 1,000 feet, board measure.			
Bullion specieFree.			
Coal screenings		"	"

Each entry shall pay not less than 5 cents.

All property landed on the canal wharves for reshipment, or transhipped in canal waters shall pay one wharfage only.

160

Lumber upon which tolls have been paid for passage down the Lachine Canal and which is reshipped from the wharves 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.

The Committee submit the above recommendation for Your Excellency's approval.

(Signed)

JOHN J. McGEE

Clerk of the Privy Council.

To the Honourable

The Minister of Railways and Canals.

AT THE GOVERNMENT HOUSE AT OTTAWA.

Monday, 6th day of June, 1892.

PRESENT :

HIS EXCELLENCY THE GOVERNOR-GENERAL IN COUNCIL.

His Excellency, in virtue of the provisions of Chapter 37 of the Revised Statutes, intituled "An Act respecting the Department of Railways and Canals," and by and with the advice of the Queen's Privy Council for Canada, is pleased to order that the provisions of the Order in Council of the 29th day of April, 1891, under which, in the case of steamers specially chartered for the conveyance of excursion parties, going and returning in the same boat on the same day, one-half only of the usual rates of passenger tolls were charged for passage through the Lachine Canal and the Ste. Anne Lock, and for passage through the Welland Canal, in the case of excursion parties leaving Toronto or Hamilton for St. Catharines, and excursion parties leaving St. Catharines for Toronto or Hamilton, shall be, and the same are hereby continued in force for the present season of navigation only.

(Signed)

JOHN J. McGEE,

Clerk of the Privy Council.

The Honourable

The Minister of Railways and Canals.

AT THE GOVERNMENT HOUSE AT OTTAWA.

FRIDAY, the 15th day of July, 1892.

PRESENT:

HIS EXCELLENCY THE GOVERNOR-GENERAL IN COUNCIL.

Whereas, by a clause of the Order in Council of the 4th April, 1892, respecting the rebate to be allowed on certain food products traversing the Welland and St. Lawrence Canals bound for Montreal or some port east of Montreal for exportation, it was provided that the right to such rebate should extend to ship-ments of the said products made "from any Canadian Lake Ontario Port," this provision being taken from the Order in Council of the 29th April, 1891.

And whereas, it was not intended that the restriction in favour of Canadian Lake Ontario Ports should

be continued,

His Excellency, under the provisions of Chapter 37 of the Revised Statutes, intituled "An Act respecting the Department of Railways and Canals," and by and with the advice of the Queen's Privy Council for Canada, is pleased to order that the said Order in Council of the 4th April, 1892, shall be and the same is hereby amended by the omission of the word "Canadian" from the clause in question; and that such amendment shall have force and effect from the 4th day of April last.

(Signed)

JOHN J. McGEE.

Clerk of the Privy Council.

O. C., 2nd August, 1892.

His Excellency, under the authority conferred upon him by chapter 37 of the Revised Statutes, and by and with the advice of the Queen's Privy Council for Canada, is pleased to order that the provisions of the Order in Council of the 6th June, 1892, reducing by one-half the usual passenger tolls on the Lachine Canal (such reduction applying to cases where excursion parties are conveyed in steamers specially chartered or that purpose, going and returning the same day), shall be and the same are hereby extended to the Beauharnois Canal for the present season of navigation only.

(Signed) JOSEPH POPE Asst. Clerk of the Privy Council.

The Honourable

The Minister of Railways and Canals.

DR.

No. 27.—HYDRAULIC and other Rents, &c.—

Balance due on 1st July, 1891.		Accrued, year ended 30th June, 1892.		Accrued, year ended 30th June, 1892.		Tota	.l.	Number.	Name of We	ork.	Present Occupant.	Original Lessee.
\$	cts.	*	cts.	\$	cts.							
374	60	187	30	561	90	1	Welland Cana	al	Wood & Green	R. Laurie		
1,320	00	240	00	1,560		2	do		S. Neelon	R. & J. Laurie		
110			00	130		3						
88		176	00	264		4	do					
1,050	00			1,050	00	5	\mathbf{do}_{i}	• • • •	Andrews & Son			
1,270	50			1.270	50	6	do			Ross		
300		50	00	350		7	do	• • • •	•••••	Wm. Hutchison		
1,170			00	1,430		8	do		Tuttle, Date & Rodden.	J. L. Ranney		
	00		00	225		9			S. Neelon			
140			00	180		10	do					
167			66	335		11	do		Whitman& Barnes Manu-			
	-					'				R. Collier		
420	00	140	00	560	00	12	do		J. B. Smith.	Thomas Towers		
250	00	500	00	750	00	13	do					
										Power Co		
	. .	20	00	20	00	14	do			St. Catharines and We		
							_			land Gas-light Co		
825		75	00	900		15	фo					
35	00			35	00	16	do			St. Catharines Stree		
									•	Railway Co		
100	=0			100	50	177	٠ د			T-1- F D		
100	90		• • • •	100	50	17	do			John F. Rees		
		10	00*	10	00	18	do			Duncan Dittrick		
••••			00		00	19	do			Whitman & Barnes Ma		
• • • • •	• • •	1.	, 00	10	00	10	uo	• •		nufacturing Co		
10	00	10	00	20	00	20	do			H. Jarvis		
										11. 0 101 1 15		
		2	00	. 2	00	21	do			St. Catharines & Niagar		
						1				Central Ry. Co		
756	00	216	6 00	972	00	22	do		McLeary & McLean	Wm. Beatty		
480			00		0 0	23	do		Lybster Cotton Co	Gordon & McKay		
120			00		00	24	do			John Riordon		
100			00		00	25	do			do		
200			00 (00	26	do	• • • •	Merritton Cotton Co			
800	υų	400	00	1,200	00	27	do	• • • •	••• •• ••••••	Corporation of Village of		
						١.				Merritton		
90	00	RC	00	150	00	28	do			Iomes Wilson		
150			00		00	29	do			James Wilson Lybster Cotton Mills		
100	00		, 00	200	00	2.0	ut	• • •		Lybster Cotton Mins		
		148	5 00	145	00	30	do		1	F. T. Walton		
								,		i		
31	80	68	3 60	95	40	31	do		Thorold & W. C. Co	Wm. Beatty		
100	00	50	00			32	do		John McDonagh	W. H. Ward		
			00		00	33	do			. Capt. N. J. Wiggle		
			00		00	34	do	• • •	garagagan ay kala	Lock Houses		
726			00		00	35			John McDonagh	W. H. Ward.		
3	00	1	00	1	00	36	do		•••••	. St. Catharines & Niagar		
		1				-				Central Ry. Co		
240	00	or or	00	200	00	38	4.		`	Tohn Dattl-		
240 222			2 00			39	do do	• • • •	Howland Jones & C-	John Battle		
ندن			00			40			Howland, Jones & Co Jas. Norris	Record & Ross		
65	(4)											
65 120			00		00	41			Arch. Dobie	Welland Canal Loan C		

A-Continued.

Lessees' Accounts, 1891-92.

CR.

Lessees Accounts, 1891–92.						CR.
\		ch the made	suthor-	Fiscal	30th	
Description of Property.	Number.	Date to which the Account is made up.	Abatement ized.	Paid during Year.	Balance due, June, 1892.	Total.
	1		\$ cts.	\$ cts.	\$ cts.	\$ cts
Grist-mill, waste weir No. 1, Port Dalhousie Mill lot do do Lot near do do Docks near do do	2	do do	100 00	93 65	390 20 1,460 00 121 70 176 00	561 90 1,560 00 130 00 264 00
Dry dock, part of lock No. 1 do Saw-mill, waste weir, No. 1 do Wharf lot, east end east pier do Union mill, near lock No. 2, St. Catharines Merchant red mill do Wharf at lock No. 4 do	5 6 7 8 9	Jan. 1, 1882 do Jan. 1, 1892 do do		350 00 1,170 00	1,050 00 1,270 50 260 00 225 09	1,050 00 1,270 50 350 00 1,430 00 225 00
Saw-mill at lock No. 5 do Grist-mill at new lock No. 10 do	11	do .			180 00 167 66 560 00	180 00 335 32 560 00
Water power from locks 3 to 11 do	13	do		,500 00	250 00	750 00
		Jan. 1, 1893 Oct. 1, 1892		20 00	900 00	20 00 900 00
Privilege of placing bridge over water way, St. Catharines	16 17	Mar. 1, 1000			35 00 100 50	35 00 100 50 10 00
Old lock-house at lock No. 6, St. Catharines Part of lot 16, con. 4, ground, for sail loft, St. Catharines	19	Oct. 1, 1892		75 00	1	75 00 20 00
Swing bridge over canal, Thorold	21 22 23	Cet. 1, 1891 June 30, 1892 do do do		460 00 240 00 200 00	2 00	2 00 972 00 720 00 360 00 300 00 600 00
Lot between lock No. 25 and guard-gates, Merritton	27 28			90 00	1,200 00 60 00	1,200 00 150 00
Part of lots 11 and 12, con. 10, ground, Merritton Part of lots 9 and 10, con. 10, ground, Mer- ritton	29			145 00	200 00	200 00 145 00
Tannery at lock No. 22, Thorold Factory at lock No. 23 do Wharf lot near lock No. 2 do Lock-houses do Saw-mill at lock No. 23, Thorold.	31 32 33 34	June 30, 1892 do June 30, 1893	3	15 00 114 0	31 80 150 00 872 00	95 40 150 00 15 00 114 00 872 00
Tracks through the towns of Thorold and Merritton Plaster mills at lock No. 25, Thorold Grist-mills at lock No. 25, Thorold Merchants' mill do 23 do Machine shop do 22 do do do 23 do	36 38 39 40 41 42	June 30, 1892 do do do	2	280 00 333 00 130 00 120 00	4 00 40 00 111 00 65 00 80 00 55 00	4 00 320 00 444 00 195 00 200 00

DR.

No. 27.—HYDRAULIC and other Rents, &c.--

129 00	DR.				T	NO.	27.—HYDRAULIC and	other Rents, &c
5 00		Accrued, year ended 30th June, 1892.		Number.	Name of Wor	rk.	Present Occupant.	Original Lessee.
5 00	\$ cts.	\$ cts.	\$ cts.					
180 00 120 00 300 00 44 do J. Davey, jun John Battle 5,007 46 45 do Wright & Duncan 80 00 20 00 940 00 47 do J. & J. Abbey P. H. Musson 120 00 86 00 215 00 48 do J. & J. Abbey P. H. Musson John Hill 180 141 15 50 do 151 30 51 do Go Go Go Go Go Go Go				43	Welland Canal			Corporation of Thorold
5,007 46			. !					
80 00 20 00 100 00 46 do 747 do 747 do 747 do 747 do 747 do 748 469 748 469 748 749 469 748		1						
129 00	80 00		100 00	46	\mathbf{do}		.,	P. H. Musson
Till Dec Till Dec Till Dec Dec Till Dec Corporation Dec Corporation Dec Corporation Dec Corporation Dec Corporation Dec Corporation Dec Corporation Dec Corporation Dec Corporation Dec Corporation Dec Corporation Dec Corporation Dec Corporation Dec							J. &t.J. Abbey	McFarland & Lemnon
141 15								
141 15	110 00		110 00	1.9	do			
151 30							Henderson Bros	Eli Mead
40 00								A. Sherwood
1 00		1						
1 00					•			
90 00								
100 00	90.00	45.00	135.00	56	do			Welland
1 00		ĺ		.,0	do			rneip bromers
120 00								James Bridges
40 00	3 00							C. I. Phys. b. Co.
S 00	40 00							Corporation of Town of
Caleb Swayze Cale								Welland
125 00								Caleb Swayze
125 00								W H Crows
37 50								
1 00							L. G. Carter	A. K. Schofield
1 00								Welland Railway C
1,129 97								
382 19								bornet Col-
382 19		24 00	24 00	69	do			L. McGlashan
1,129 97			542 19	70				
750 00	60 00	10 00	70 00	71	do			Alex. Lattimore
750 00	1 129 97	143 00	1 272 97	79	do		A McDoneld	Wm Molanha
130 00				73	do		R. Chambers.	H. & N. Davis
113 00				74			S. & J. Haney	S. Darling
383 34 153 34 208 00 1,467 50 78 do Wm. Schoffeld L. Brocklebank 1,259 50 208 00 1,467 50 78 do M. A. Smith Chisholm & Miner 70 00 50 00 60 00 80 do John Taylor John Taylor 60 00 345 00 345 00 81 do Rolston & Haskins 360 00 360 00 720 00 82 do Moody & Son R. F. Lattimore 26,895 74 7,654 90 34,550 64 Williamsburg Canal Wm. Gibson 1,702 62 140 00 5,120 00 1,702 62 140 00 50 00 50 00 55 00 4 do J. C. Irvine P. O'Keef P. Carmen 12 00 12 00 5 00 5 00 5 00 5 00 5 00 5 0							S. Walthe & Co	L. J. Weatherly
1,299 50							Wm Schofeld	Brown & Merritt.
70 00 70 00 79 do John Taylor 60 00 60 00 80 do Geo. Wallace 345 00 345 00 81 do Rolston & Haskins 360 00 360 00 720 00 82 do Moody & Son R. F. Lattimore 26,895 74 7,654 90 34,550 64 Williamsburg Vanal Wm. Gibson 4,960 00 160 00 5,120 00 2 do Edwardsburg Starch Fac Benson & Aspden 1,702 62 140 00 1,842 62 3 do P. O'Keef P. Carmen 50 00 500 55 00 4 do J. C. Irvine 12 00 12 00 5 do W. T. Benson 5 00 5 00 6 do E. E. Gilbert Wm. Clegg 5 00 5 00 7 do John Reid							M. A. Smith	Chisholm & Minor
123 00 246 00 369 00 1 Williamsburg Canal Wm. Gibson. Benson & Aspden 1,702 62 140 00 5,120 00 1,842 62 3 do do 12 00 12 00 55 00 4 do 12 00 12 00 5 00 7 do John Reid John Reid		1	70 00					John Taylor
343 00				:80	do			Geo. Wallace
26,895 74 7,654 90 34,550 64 123 00 246 00 369 00 1 Williamsburg Canal 4,960 00 160 00 5,120 00 2 1,702 62 140 00 1,842 62 3 do P. O'Keef. P. Carmen 50 00 500 55 00 4 do J. C. Irvine 12 00 12 00 5 do W. T. Benson 5 00 5 00 6 do E. E. Gilbert. Wm. Clegg. Wm. Clegg. Wm. Clegg. Wm. Clegg.		360 00	1 === : : :				Moody & Sam	Rolston & Haskins
123 00 246 00 369 00 1 Williamsburg 4,960 00 160 00 5,120 00 2 do Edwardsburg Starch Fac. 1,702 62 140 00 1,842 62 3 do P. O'Keef. P. Carmen 50 00 500 55 00 4 do J. C. Irvine 12 00 12 00 5 do W. T. Benson 12 00 5 00 6 do E. E. Gilbert W. T. Benson Wm. Clegg. Wm. Clegg. Wm. Clebson Wm. Gibson Benson & Aspden 1. C. Irvine W. T. Benson Wm. Clegg. John Reid		·		-02	do		Moody & Son	R. F. Lattimore
4,960 00 160 00 5,120 00 2 do Edwardsburg Starch Fac. Benson & Aspden 1,702 62 140 00 55 00 4 do P. O'Keef P. Carmen J. C. Irvine W. T. Benson 5 00 5 00 6 do E. E. Gilbert Wrn. Clegg 5 00 7 do John Reid	26,895 74	7,654 90	34,550 64	_				
4,900 00 160 00 5,120 00 2 do Edwardsburg Starch Fac. Benson & Aspden 1,702 62 140 00 1,842 62 3 do P. O'Keef. P. Carmen 50 00 50 0 55 00 4 do J. C. Irvine 12 00 12 00 5 do W. T. Benson 5 00 5 00 6 do E. E. Gilbert Wm. Clegg 5 00 5 00 7 do John Reid	123 00	246 00	369 00	1				
1,702 62 140 00 1,842 62 3 do P. O'Keef. P. Carmen. 50 00 500 55 00 4 do J. C. Irvine. 12 00 12 00 5 do W. T. Benson. 5 00 5 00 6 do E. E. Gilbert. Wm. Clegg. John Reid	4 000 00	160.00	5 100 00				F4	Wm. Gibson
50 00 500 55 00 4 do J. C. Irvine W. T. Benson 5 00 5 00 6 do E. E. Gilbert Wm. Clegg John Reid							Edwardsburg Starch Fac	Benson & Aspden
								J. C. Irvine
		12 00	12 00	5	do			W T Rengon
0 0 0 0 0 0 0 0 0 0	• • • • • • • • • • • • • • • • • • • •						E. E. Gilbert	Wm. Clegg
164 RAILWAYS AND CANALS.	164	.: 0.00	1 500	17	-			John Reid

A-Continued.

Lessees' Accounts, 1891-92.

Cr.

Description of Property.	Number.	Date to which Account is made up.	Abatement authorized.	Paid during Fiscal Year.	Balance due on 30th June, 1892.	Total.
!			\$ cts.	\$ cts.	\$ cts.	\$ cts.
Part lot No. 17, near lock No. 24, Thorold Water lot, Thorold Grist-mill, Allanburg Storehouse do Saw-mill, Port Robinson. Grist-mill dc	44 45 46 47	June 30, 1892 Jan. 1, 1882 April 1, 1892 Feb. —, 1876		180 00	120 00 5,007 46 100 00 940 00 86 00	10 00 300 00 5,007 46 100 00 940 00 215 00
Water to float vessels, Port Robinson. Wharf lot, Welland	51 52 53	Dec. 31, 1866 do June 30, 1878 April 1, 1884			710 00 141 15 151 30 300 00 40 00 2 00	710 00 141 15 151 30 300 00 40 00 2 00
Surplus water, in winter only, near aqueduct,	56 57 58	Mar. L. 1892		45 00	2 00 90 00 120 00 6 00	2 00 135 00 120 00 6 00 120 00
do for pump-house, &c., Welland Grist-mill do Lot for piling lumber, Welland Lot for general purposes Wharf lot, Port Colborne Lot for celevator, Port Colborne Lot for coal and wood yard, Port Colborne	61 62 63 64 65 66	July 1, 1893 Oct. 1, 1892 July 1, 1892 Nov. 21, 1892 June 30, 1892 Jan. 1, 1892		5 00 240 00 68 00 125 00 37 50 20 00	25 00 12 50	120 00 5 00 240 00 68 00 125 00 62 50 20 00 25 00
Lots for factory at village of Petersburg Grist-mill, Marshville	68 69 70	Nov. 1, 1895 Mar. 1, 1895 June 30, 1895	2	24 00 462 21	79 98	1 00 24 00 542 19
Lot for tannery do	72 73 74 75 76 77 78 80 81	do do do do Jan. 1, 188 Mar. 1, 188 Jan. 1, 189	2	153 34	1,272 97 930 00 873 94 475 61 1,035 72 383 34 1,467 50 70 00 60 00 345 00	70 00 1,272 97 930 00 873 94 475 61 1,035 72 536 68 1,467 50 70 00 60 00 345 00 720 00
Water lot, do		Jan. 1, 189	186 35		720 00 27,266 83	34,550 64
Grist-mill, Mill street, Cardinal. Starch factory, Edwardsburg. Tannery do Part of lot, 6, con. 1, Edwardsburg. Pasture grounds, Galops Canal do do Lot near, do	34 6 6 7		1	12 00 5 00	1,842 62	369 00 5,120 00 1,842 62 55 00 12 00 5 00 5 00 165

DR.

No. 27.—Hydraulic and other Rents, &c.—

							d other terres, do.
	귷						
lst	Accrued, year ended 30th June, 1892.					l	
u o	186°						
Balance due o July 1891.	ear e,						
գր	y a	Total.	Ì.	Name of W	Vork.	Present Occupant.	Original Lessee.
se 7	7		Number.			•	
ul.	E 25		g.				i
3a. J	26.6		5				
			=				
		Ø -1-	1				
s cts.	\$ cts.	\$ cts.					
70 00	140 00	210 00	8	Williamsburg	3		
7 0.00	140.00	010.00		Canal		<u> </u>	M. T. Beach
$\frac{70\ 00}{100\ 00}$	140 00 20 00	$\begin{array}{ccc} 210 & 00 \\ 120 & 00 \end{array}$	9	do		Cameron & McInnis	J. Molson, jun
48 00	20 00	48 00		do do		· · · · · · · · · · · · · · · · · · ·	
35 00	70 00	105 00		do			Municipality of Iroquois.
1 00	1 00	2 00		do			
10 00	10 00	20 00		do			
• • • • • • • • • •	70 00	70 00	15	do		•••••	Corp. Village of Morris- burg.
			_				, varg.
7,169 62	1,024 00	8,193 62				•	
			_				
120 00	240 00	360 00	1	Cornwall Car	nal.		Andrew Hodge
75 00	150 00	225 00	$\bar{2}$	do		Permanent Loan Co	
	135 00	135 00	. 3	do			Geo. Stephen
• • • • • • • • • • •	120 00	120 00	4	do		• • • • • • • • • • • • • • • • • • • •	Stormont Cotton Co
•••••	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-5	do do			
15 00	5 00	20 00	. 7	do			do
270 00		270 00	. 8	do			W. D. & G. C. Wood
80 00		80 00	_9	do			Henry Harrison
247 50		247 50	10	do	• • • •		J. & C. H. Wood
807 50	795 00	1,602 50					Í
		<u> </u>					
60 00		60 00	٠,	Beauharnois	Canal		G. A
100 00		100 00	2		Canai	N. Papineau	St. Amour & Co D. P. Pease
80 00	20 00	100 00	3	do			
60 00	20 00	80 00	4	dο			M. Julien
	1,500 00	1,500 00	. 5	do			A. De cate
20 00	20 00	40 00	6				A. Buntin
20 00	1	,0 00	: `	1			40
60 00	120 00	180 00	7	do		T. & W. Bolduc	
$\frac{120\ 00}{400\ 00}$	120 00	240 00	8				P. Poulin
20 00	3,900 00 20 00	4,300 00	$\frac{9}{10}$	do do			
40 00	40 00	80 00	11	do			do Jas. T. Anderson
35 00	35 00		12	do			Lake St. Francis Naviga-
46.00	99.40	60.00	10	,		Will clied : G	tion Co
46 00 92 00	23 00 23 00	69 00 115 00	13 14	do do	• •		R. N. Walsh
100 00	20 00		15	do		E. Dion	Jas. Anderson
160 00	40 00		16	do			O. Trempe
60 00	20 00	80 00				$J. T. Anderson \dots \dots$	J. Cardinal
90.00	10 00	10 00					O. Longtin
$\begin{array}{c} .20 & 00 \\ 15 & 00 \end{array}$	20 00 15 00	40 00 30 00	19 20				O. P. Dennie Estate A. Hodge
	14 00	14 00	21	go			Alex. Coburn
40 00	40 00	80 00	22	do			Robt, Steele
40.00	30 00		23				Louis Leduc
40 00 40 00	8 00	. 40 00 48 00	24 25				E. French
******	40 00	40 00	26				S. A. Brodeur
60 00	15 00	75 00	27	do			Col. McPhee.
30 00	10 00		28	do		F. H. Barbeau	J. Larocque
80 00	20 00	100 00	29	i do		• • • • • • • • • • • • • • • • • • • •	Jas. Wattie

A-Continued.

Lessees' Accounts, 1891-92.

CR.

		Date to which the Accounts is made up.	Abatement authorized.	Paid during Fiscal Year.	30th	
1		hich is	ne n	<u>50</u>	8 %	
Description of Property.	ان	nte	ent	urir	18g	Total.
بإ	<u> </u>	3000 t	g.	d d	ine,	
	Number	Date Ac up	Aba	Paid Y	Balance due June, 1892.	
			\$ ets.	\$ cts.	\$ cts.	\$ cts.
rist-mill at Matilda Lock		ıne 30, '93		140 00	70 00	210 00
do do	_9 10: ∧∍	do			70 00 120 00	210 00 120 00
do do 1, do,	11 D	ec. 1, 1892			48 00	48 00
Vater lot and surplus water for pumping engine. ot for school purposes No. 4, Matilda	12 Jլ 13 M	ane 30,		70 00	35 00 2 00	$105 00 \\ 2 00$
art of lot No. 23, con. 1, do	14	do ,	1	10 00	10 00	20 00
Vater lot & water power for pumping machine	15 J ε	an. 1, 1893		70 00		70 00
				698 00	7,495 62	8,193 62
Flour and grist-mill, lots 3 and 4	11.7	una 30 1892		240 00	120 00	360 00
Inducate Yet No. 4 month aide	9	da	1	150 00	75 00	225 00
do No. 7	3 J t	une 1, 1892 do		135 00 120 00		135 00 120 00
of on south side. Water street, for coal valu	U 147 L	MIV I. 1002	1	20 00		25 00
Surplus water for paper-mill, lock No. 18 Pipe under canal at lock No. 18	7 A	an. 1, 1892 pril 1, 1893		15 00	5 00	120 00 20 00
Hydraulic lots Nos. 1 and 2, north side	8.41	une 30, 1878			270 00	270 00
Wharf lot, Moulinette	10 Ju	iay 1, 1893 une 30, 1881	20 00		60 00 247 50	80 00 247 50
			20.00			1 600 50
			20 00	805 00	777 50	1,002 30
Wharf lot, Ste. Cécile, Valleyfield, old bal	1 J	uly 1, 1868			60 00	
Wharf lot, Ste. Cécile, Valleyfield, old bal do St. Timothy do do de St. Cécile, de de	2 J	une 1, 1864			60 00 100 00	60 00 100 00
	2 J 3 M	une 1, 1864 Iay 1, 1892			60 00 100 00 100 00	60 00 100 00 100 00
do St. Timothy do do do Ste. Cécile do do Lot for shed above St. Timothy bridge, Valley- field.	2 J 3 M	une 1, 1864 Iay 1, 1892 une 1, 1893			60 00 100 00 100 00 80 00	60 00 100 00 100 00 80 00
do St. Timothy do do do do Ste. Cécile do do Lot for shed above St. Timothy bridge, Valleyfield Lot on corner of St. Timothy and lower dam,	2 J 3 M 4 J 5 J	une 1, 1864 Iay 1, 1892 une 1, 1893 an. 1, 1892		1,000 00	60 00 100 00 100 00 100 00 80 00 500 00	60 00 100 00 100 00 80 00 1,500 00
do St. Timothy do do do do Ste. Cécile do do do Lot for shed above St. Timothy bridge, Valleyfield. Lots 1, 2, 3, 4 and 5, below lower dam, Valleyfield Lot on corner of St. Timothy and lower dam, Valleyfield. Saw-nill, lot 1, building lot, Valleyfield	2 J 3 M 4 J 5 J 6 M 7 J	une 1, 1864 Iay 1, 1892 une 1, 1893 an. 1, 1892 Iay 1, 1893 une 30, 1892		1,000 00 20 00 120 00	60 00 100 00 100 00 80 00	60 00 100 00 100 00 80 00 1,500 00 40 00 180 00
do St. Timothy do do do do Ste. Cécile do do do dot for shed above St. Timothy bridge, Valleyfield. Lots 1, 2, 3, 4 and 5, below lower dam, Valleyfield lot on corner of St. Timothy and lower dam, Valleyfield	2 J 3 M 5 J 6 M 7 J 8	une 1, 1864 Iay 1, 1892 une 1, 1893 an. 1, 1892 Iay 1, 1893 une 30, 1892 do		1,000 00 20 00 120 00 240 00	60 00 100 00 100 00 80 00 500 00 20 00 60 00	60 00 100 00 100 00 80 00 1,500 00 40 00 180 00 240 00
do St. Timothy do do do Ste. Cécile do do Lot for shed above St. Timothy bridge, Valley- field. Lots 1, 2, 3, 4 and 5, below lower dam, Valleyfield Lot on corner of St. Timothy and lower dam, Valleyfield. Saw-mill, lot 1, building lot, Valleyfield Woollen-mill, lot 2, building lot do Lots at head of canal do Cadastral lot 845, for public park do	2 J 3 M 5 J 5 J 6 M 7 J 8 9	une 1, 1864 fay 1, 1892 une 1, 1892 an. 1, 1892 fay 1, 1893 une 30, 1892 do do une 1, 1893		1,000 00 20 00 120 00 240 00 800 00 40 00	60 00 100 00 100 00 80 00 500 00 20 00 60 00 3,500 00	60 00 100 00 100 00 80 00 1,500 00 40 00 180 00 240 00 4,300 00 40 00
do St. Timothy do do do Ste. Cécile do do Lot for shed above St. Timothy bridge, Valley- field. Lots 1, 2, 3, 4 and 5, below lower dam, Valleyfield Lot on corner of St. Timothy and lower dam, Valleyfield. Saw-nill, lot 1, building lot, Valleyfield Woollen-mill, lot 2, building lot do Lots at head of canal do Cadastral lot 845, for public park do	2 J 3 M 5 J 5 J 6 M 7 J 8 9	une 1, 1864 Iay 1, 1892 une 1, 1893 an. 1, 1895 Iay 1, 1895 une 30, 1895 do do		1,000 00 20 00 120 00 240 00 800 00	60 00 100 00 100 00 80 00 500 00 20 00 60 00	60 00 100 00 100 00 80 00 1,500 00 40 00 180 00 240 00 4,300 00 40 00
do St. Timothy do do do Ste. Cécile do do Lot for shed above St. Timothy bridge, Valley- field. Lots 1, 2, 3, 4 and 5, below lower dam, Valleyfield Lot on corner of St. Timothy and lower dam, Valleyfield. Saw-mill, lot 1, building lot, Valleyfield Woollen-mill, lot 2, building lot do Lots at head of canal do Cadastral lot 845, for public park do do 846, Grande Isle do Wharf and shed above guard lock do	2 J 3 M 5 J 6 M 7 J 8 9 10 J 11 J	une 1, 1804 flay 1, 1892 une 1, 1892 an. 1, 1892 flay 1, 1893 do do une 1, 1893 uly 1, 1893 flay 1, 1895	3	1,000 00 20 00 120 00 240 00 800 00 40 00 40 00	60 00 100 00 100 00 80 00 500 00 20 00 60 00 3,500 00 40 00 35 00	60 00 100 00 100 00 1,500 00 40 00 1,80 00 240 00 4,300 00 80 00
do St. Timothy do do do do Ste. Cécile do do Ste. Cécile do do to for shed above St. Timothy bridge, Valleyfield	2 J 3 M 5 J 6 M 7 J 8 9 10 J 11 J 12 M 13 A	une 1, 1892 une 1, 1892 an. 1, 1892 Iay 1, 1893 do do do do do do do do do do do do do d		1,000 00 20 00 120 00 240 00 800 00 40 00 40 00	60 00 100 00 100 00 80 00 500 00 20 00 60 00 3,500 00	60 00 100 00 100 00 80 00 1,500 00 40 00 180 00 240 00 4,300 00 80 00
do St. Timothy do do do Ste. Cécile do do Lot for shed above St. Timothy bridge, Valley- field. Lots 1, 2, 3, 4 and 5, below lower dam, Valleyfield Lot on corner of St. Timothy and lower dam, Valleyfield. Saw-nill, lot 1, building lot, Valleyfield Lots at head of canal do Lots at head of canal do Cadastral lot 845, for public park do do 846, Grande Isle do Wharf and shed above guard lock do do and storehouse do do do guard lock, Valleyfield. do do do	2 J 3 M 5 J 6 M 7 J 8 9 10 J 11 J 12 M 13 A 14 J 15 N	une 1, 1804 fay 1, 1892 une 1, 1893 an. 1, 1892 day 1, 1893 do do do une 1, 1893 uly 1, 1893 uly 1, 1893 tug. 30, 1891 une 30, 1891 vov. 1, 1893		1,000 00 20 00 120 00 240 00 800 00 40 00 40 00 35 00 46 00	60 00 100 00 100 00 80 00 500 00 20 00 60 00 3,500 00 40 00 23 00 23 00 115 00 20 00	60 00 100 00 100 00 1,500 00 40 00 1,80 00 240 00 4,300 00 40 00 80 00 115 00 120 00
do St. Timothy do do do Ste. Cécile do do Lot for shed above St. Timothy bridge, Valley- field. Lots 1, 2, 3, 4 and 5, below lower dam, Valleyfield Lot on corner of St. Timothy and lower dam, Valleyfield Saw-nill, lot 1, building lot, Valleyfield do Lots at head of canal do Lots at head of canal do Lots at head of canal do Lots at head of canal do Lot adastral lot 845, for public park do do 846, Grande Isle do Wharf and shed above guard lock do do and storehouse do do do guard lock, Valleyfield do do Part of lot 830 do Lot 101 and 116 do	2 J 3 M 5 J 6 M 7 J 8 9 10 J 11 J 12 M 13 A 14 J 15 N 16 S 17 J	une 1, 1864 fay 1, 1892 une 1, 1892 an. 1, 1892 do 1, 1893 do 1, 1893 do 1, 1893 une 30, 1891 fay 1, 1892 une 30, 1891 vor. 1, 1892 ept. 1, 1892 une 1, 1893	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1,000 00 20 00 120 00 240 00 800 00 40 00 40 00 35 00 46 00 100 00 80 00 40 00	60 00 100 00 100 00 80 00 500 00 20 00 60 00 3,500 00 40 00 23 00 115 00	60 00 100 00 100 00 1,500 00 1,500 00 40 00 240 00 4,300 00 80 00 70 00 69 00 115 00 200 0
do St. Timothy do do do Ste. Cécile do do Lot for shed above St. Timothy bridge, Valley- field. Lots 1, 2, 3, 4 and 5, below lower dam, Valleyfield Lots 1, 2, 3, 4 and 5, below lower dam, Valleyfield Lot on corner of St. Timothy and lower dam, Valleyfield. Saw-nill, lot 1, building lot, Valleyfield Woollen-mill, lot 2, building lot do Lots at head of canal do Lots at head of canal do Lots at head of canal do Wharf and shed above guard lock do do and storehouse do do do guard lock, Valleyfield. do do Part of lot 830 do Lot 101 and 116 do Reserve, guard lock, Valleyfield.	2 J 3 M 5 J 6 M 7 J 8 9 10 J 11 J 12 M 13 A 14 J 16 S 17 J 18 D	une 1, 1804 fay 1, 1892 une 1, 1892 an. 1, 1892 do do do do une 1, 1892 uly 1, 1892 lay 1, 1892 lay 1, 1892 vov. 1, 1892 vov. 1, 1892 ept. 1, 1892 ept. 1, 1892 ecc. 1, 1892 ecc. 1, 1892		1,000 00 20 00 120 00 240 00 800 00 40 00 40 00 35 00 46 00 100 00 80 00 40 00 100 00	60 00 100 00 100 00 80 00 500 00 20 00 60 00 3,500 00 40 00 23 00 23 00 115 00 20 00 120 00 40 00	60 00 100 00 100 00 1,500 00 1,500 00 40 00 4,300 00 40 00 80 00 115 00 120 00 200 0 80 0
do St. Timothy do do do Ste. Cécile do do Lot for shed above St. Timothy bridge, Valley- field. Lots 1, 2, 3, 4 and 5, below lower dam, Valleyfield Lot on corner of St. Timothy and lower dam, Valleyfield Saw-nill, lot 1, building lot, Valleyfield do Lots at head of canal do Lots at head of canal do Lots at head of canal do Lots at head of canal do Lot adastral lot 845, for public park do do 846, Grande Isle do Wharf and shed above guard lock do do and storehouse do do do guard lock, Valleyfield do do Part of lot 830 do Lot 101 and 116 do	2 J J 3 M 5 J 5 J 5 J 6 M 7 J 12 M 13 A 14 J N 16 S 17 J 18 D 19 J 19 J 19 J 19 J 19 J 19 J 19 J 19	une 1, 1804 fay 1, 1892 une 1, 1892 an. 1, 1892 day 1, 1893 do do do une 1, 1893 uly 1, 1893 uly 1, 1893 uly 2, 1893 une 30, 1891 une 30, 1891 cov. 1, 1893 ept. 1, 1893 une 1, 1893 do 1, 1893 do 1, 1893	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1,000 00 20 00 120 00 240 00 800 00 40 00 40 00 35 00 46 00 100 00 80 00 40 00 10 00 20 00	60 00 100 00 100 00 80 00 500 00 20 00 60 00 3,500 00 40 00 115 00 20 00 120 00 40 00	60 00 100 00 100 00 1,500 00 40 00 1,500 00 40 00 4,300 00 40 00 80 00 115 00 120 00 80 00 10 00 40 00
do St. Timothy do do do Ste. Cécile do do Lot for shed above St. Timothy bridge, Valley- field. Lots 1, 2, 3, 4 and 5, below lower dam, Valleyfield Lot on corner of St. Timothy and lower dam, Valleyfield Saw-nill, lot 1, building lot, Valleyfield do Cots at head of canal do Lots at head of canal do Cadastral lot 845, for public park do do 846, Grande Isle do Wharf and shed above guard lock do do and storehouse do do do guard lock, Valleyfield do do Part of lot 830 do Lot 101 and 116 do Reserve, guard lock, Valleyfield do do do do do do do do do do	2 J J 3 M	une 1, 1804 fay 1, 1892 une 1, 1892 an. 1, 1892 do 1, 1893 do 1, 1893 do 1, 1893 une 30, 1893 do 1, 1893 une 30, 1895 tov. 1, 1892 ept. 1, 1893 ecc. 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1,000 00 20 00 120 00 240 00 800 00 40 00 40 00 35 00 46 00 100 00 80 00 40 00 10 00 20 00	60 00 100 00 100 00 80 00 500 00 20 00 60 00 3,500 00 40 00 23 00 115 00 20 00 120 00 40 00 20 00 30 00	60 00 100 00 100 00 100 00 80 00 1,500 00 40 00 4300 00 80 00 70 00 69 00 115 00 120 00 200 0 80 00 10 00 11 0 0 11 0 0 11 0 0 11 0 0
do St. Timothy do do do Ste. Cécile do do Lot for shed above St. Timothy bridge, Valley- field. Lots 1, 2, 3, 4 and 5, below lower dam, Valleyfield Lot on corner of St. Timothy and lower dam, Valleyfield. Saw-nill, lot 1, building lot, Valleyfield. Woollen-mill, lot 2, building lot do Lots at head of canal do Lots at head of canal do Lots at head of canal do Lots at head of canal do Lot adastral lot 845, for public park do do 846, Grande Isle do Wharf and shed above guard lock do do and storehouse do do do do do Part of lot 830 do Lot 101 and 116 do Reserve, guard lock, Valleyfield. do do do do Lot above guard lock do Lot above guard lock Valleyfield. Lot above guard lock do Lot for shipvard above guard lock, Valleyfield	2 J J 3 M J J J S J J S J S J S J S J S J S J S	une 1, 1804 fay 1, 1892 une 1, 1892 an. 1, 1892 day 1, 1893 do do do une 1, 1893 uly 1, 1893 uly 1, 1893 uly 2, 1893 une 30, 1891 cov. 1, 1893 ept. 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1,000 00 20 00 120 00 240 00 800 00 40 00 40 00 35 00 46 00 100 00 80 00 40 00 10 00 10 00 40 00 14 00	60 00 100 00 100 00 80 00 500 00 20 00 60 00 3,500 00 40 00 23 00 115 00 20 00 20 00 40 00 20 00 30 00	60 00 100 00 100 00 1,500 00 40 00 1,500 00 40 00 4,300 00 40 00 80 00 115 00 120 00 200 0 80 00 14 0 0 30 0 14 0 0 80 0
do St. Timothy do do do Ste. Cécile do do Lot for shed above St. Timothy bridge, Valley- field. Lots 1, 2, 3, 4 and 5, below lower dam, Valleyfield Lot on corner of St. Timothy and lower dam, Valleyfield. Saw-nill, lot 1, building lot, Valleyfield. Woollen-mill, lot 2, building lot do Lots at head of canal do Lots at head of canal do Lots at head of canal do Lots at head of canal do Lot adastral lot 845, for public park do do 846, Grande Isle do Wharf and shed above guard lock do do and storehouse do do do do do Part of lot 830 do Lot 101 and 116 do Reserve, guard lock, Valleyfield. do do do do Lot above guard lock do Lot above guard lock Valleyfield. Lot above guard lock do Lot for shipvard above guard lock, Valleyfield	2 J J 3 M J J J S J S J S J S J S J S J S J S J	une 1, 1804 fay 1, 1892 une 1, 1892 an. 1, 1892 do 1, 1893 do 1, 1893 do 1, 1893 une 30, 1891 do 1, 1892 une 30, 1891 vov. 1, 1892 une 30, 1891 vov. 1, 1892 do 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1,000 00 20 00 120 00 240 00 800 00 40 00 40 00 35 00 46 00 100 00 80 00 40 00 10 00 20 00 14 00 30 00	60 00 100 00 100 00 80 00 500 00 20 00 60 00 3,500 00 40 00 23 00 115 00 20 00 120 00 40 00 30 00 40 00	60 00 100 00 100 00 1,500 00 1,500 00 40 00 4,300 00 40 00 80 00 115 00 120 00 200 0 10 0 40 0 30 0 30 0 40 0
do St. Timothy do do do do Ste. Cécile do do do Ste. Cécile do do do Lot for shed above St. Timothy bridge, Valley-field. Lots 1, 2, 3, 4 and 5, below lower dam, Valleyfield Lot on corner of St. Timothy and lower dam, Valleyfield. Saw-nill, lot 1, building lot, Valleyfield do Lots at head of canal do Cadastral lot 845, for public park do do 846, Grande Isle do Wharf and shed above guard lock do do guard lock, Valleyfield. Wharf and shed above guard lock do do guard lock, Valleyfield. do do do Lot 101 and 116 do Cade Company (and lock) Valleyfield. do do do Lot for shipyard above guard lock, Valleyfield. Lot above guard lock do Lot for shipyard above guard lock, Valleyfield. Part of lot 1 for piling ground do Lot talove guard lock Valleyfield.	2 J J 3 M 4 J J 5 J 5 J 6 M 7 J 6 M 9 J 10 J J 11 J M 13 A A 14 J J 15 S S 17 J 18 L 12 22 M 23 S 24 25 C	une 1, 1804 fay 1, 1892 une 1, 1893 an. 1, 1893 day 1, 1893 do do do une 1, 1893 uly 1, 1893 uly 1, 1893 uly 1, 1893 uly 1, 1893 cov. 1, 1893 ept. 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893 do 1, 1893	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1,000 00 20 00 120 00 240 00 800 00 40 00 40 00 35 00 46 00 100 00 80 00 40 00 10 00 20 00 14 00 30 00	60 00 100 00 100 00 80 00 500 00 20 00 60 00 3,500 00 40 00 23 00 115 00 20 00 120 00 40 00 30 00 40 00 40 00 40 00 32 00 32 00	60 00 100 00 100 00 1,500 00 40 00 1,500 00 40 00 4,300 00 40 00 80 00 115 00 120 00 200 00 80 00 10 00 14 0 00 30 00 40 00 40 00 48 000 48 00
do St. Timothy do do do Ste. Cécile do do Lot for shed above St. Timothy bridge, Valley- field. Lots 1, 2, 3, 4 and 5, below lower dam, Valleyfield Lot on corner of St. Timothy and lower dam, Valleyfield. Saw-nill, lot 1, building lot, Valleyfield. Woollen-mill, lot 2, building lot do Lots at head of canal do Lots at head of canal do Lots at head of canal do Lots at head of canal do Lot adastral lot 845, for public park do do 846, Grande Isle do Wharf and shed above guard lock do do and storehouse do do do do do Part of lot 830 do Lot 101 and 116 do Reserve, guard lock, Valleyfield. do do do do Lot above guard lock do Lot above guard lock Valleyfield. Lot above guard lock do Lot for shipvard above guard lock, Valleyfield	2 J J 3 M 4 J J 5 J 6 M 7 J 10 J 11 J J 12 M 11 J 15 I N 16 S 17 J 1 19 20 22 M 25 C 26 J 27 N	une 1, 1804 fay 1, 1892 une 1, 1892 an. 1, 1892 do 1, 1893 do do 1, 1893 do 1, 1893 do 1, 1893 lay 1, 1892 fay 1, 1892 fay 1, 1892 ept. 1, 1893 do 1, 1893	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1,000 00 20 00 120 00 240 00 800 00 40 00 40 00 35 00 46 00 100 00 80 00 40 00 20 00 14 00 20 00 14 00 30 00 16 00	60 00 100 00 100 00 80 00 500 00 20 00 60 00 3,500 00 40 00 23 00 115 00 20 00 120 00 40 00 30 00 40 00 30 00 40 00 32 00 40 00 32 00 40 00 32 00 40 00	1,602 50 60 00 100 00 100 00 1,500 00 1,500 00 40 00 4,300 00 69 00 115 00 200 00 80 00 120 00 80 00 14 00 40 00 40 00 48 00 40 00

Dr.

No. 27.—HYDRAULIC and other Rents, &c.—

.DR.			Tio. 51.—Hi bakimic and contribution, de										
Balance due on 1st July, 1891.	Accrued, year ended 30th June, 1892.	Total.	Name of V	Work.	Present Occupant.	Original Lessee.							
\$ cts.	\$ cts.	\$ cts.	}										
-			n D	(71	Estate Jas. McDonald	L. M.D. 11							
30 00	20 00 15 00	20 00 3 45 00 3		s vanan	Estate Jas. McDonald.	Jas. McDonald							
105 00	105 00		2 do			Corp. Town of Salisbur							
105 00	105 00	210 00 3	3 do			Vallantald Plantain Co.							
60 00	20 00		do do			Valleyfield Electric Co Lake St. Francis Navig							
00 00	20 00			• • • •	•	tion Co							
40 00		40 00 3	5 do	• • • •		A. McPhee & Co							
40 00	10 00	50 00 3	do do			A. D. Doust							
40 00	10 00	30 00 1	W W	• • •		A. D. Doust							
30 00	10 00	40 00 3	7 do			A. Lespérance							
9.00	1.00	200				G M. 1. 1. 1. 1. G							
2 00 5 00	$\begin{array}{c} 1 & 00 \\ 5 & 00 \end{array}$		88 do 89 do			Can. Mutual Tel. Co.							
0 00	0 00	10 00				The orevier							
8 00	4 00		do do			Wm. Hood							
120 00 40 00	120 00 40 00	1 ;	11 do 12 do	• • • •	S. Vieau	J. Meloche							
40 00	40 00	,	12 00	• • •		E. Bergin							
2,363 00	6,558 00	8,921 00											
	30 00	30 00	1 Lachine Ca	ınal		Beauhr. Steam Nav. Co							
	60 00	60 00	2 do			Jas. Wilson, jun							
196 00	75 00 392 00	75 00 588 00	3 do do										
132 00	264 00	396 00	5 do			. Frothingham & Workman							
564 00	1,128 00	1,692 00	7 do		Maltby & King	W. P. Bartley							
322 50	645 00	967 50	8 do		Wm. Johnson & Co	. do							
322 50	645 00 430 00	967 50 430 00	9 do 10 do		Peck, Benny & Co	Book Banny & Co							
	1,080 00		11 do			Peck, Benny & Co							
	. 1,296 00	1,296 00	12 do		1								
430 00	860 00		13 do			Pillow, Hersey & Co							
215 00 430 00	430 00 860 00		14 do 15 do		Ogilvie & Co	do Mont. Warehousing Co							
	. 1 00		16 do		ognvie d oo	. Corporation of Montre							
6,000 00	1,000 00		17 do			. G. & W. Tait							
• • • • • • • • • • • • • • • • • • • •	25 00		18 do										
• • • • • • • • • • • • • • • • • • • •	10 00 40 00		19 do 20 do			A. W. Ogilvie Can. Meat Packing Co							
••				••									
	. 100 00	100 00	21 do	• • •		Royal Electric Co							
			22 do		.	Mont. Coal & Elevatg C							
	. 100 00		23 do	• • •		Dominion Line Co							
• • • • • • • • • • • • • • • • • • •	$\begin{array}{c c} & 1 & 00 \\ 1 & 00 \end{array}$	1 00	24 do 25 do	• • •	,	. Montreal Street Ry. C Corporation of Montre							
• • • • • • • • • • • • • • • • • • • •			26 do										
• • • • • • • • • • • • • • • • • • • •	1 00		27 do			do							
• • • • • • • • • • • • • • • • • • • •	1 100 00		28 do 29! do			Mont, Warehousing Co							
	500 00		29! do 30 do	• • • •		-							
	4 000 00		31 do										
800,00		. 800 00	32 do			J. Burstall & Co							
• • • • • • • • • • • • • • • • • • • •													
	000 00	5 600 00 380 92	34 do 35 do			C. M. Acer P. Poulin							
3,308 79		4,411 72				H. Bulmer, jun., & Bro							
					ND CANALS.	,							

A-Continued.

Lessees' Accounts, 1891-92.

CR.

Description of Property.	Number.		Account is made	-cim	A hotomont outhor-	ized.	Paid during Fiscal	Year.	Balance due on 30th	June, 1892.	Total.	
D . 1	200			1000			90	00			00	
Part lot 830 for grist-mill, Vallyfield	31	Oct.	1,	1892	• • •	• • • • •	30	00	is	5 00		00
Grand Isle, Valleyfielddo 830 Valeyfield	32	June Jan.	30, 1,	1892 1892			105 157	00 50		5 00 2 50		00
Wharf and lot above guard lock, Valleyfield Wharf and storehouse below St. Timothy bridge,	1				ł		i			00	80	00
Valleyfield Lot for store and wharf above St. Timothy	35	May					i i		1	00		00
bridge, Valleyfield	36	do do					ì		1	00		00
Privilege of placing poles on canal bank Lot for public scales above St. Timothy bridge,	38	Oct.	1,	1892		• • • • •	····			3 00		00
Valleyfield	139	do Apr.	1,	1892 1893	·		8	00	100	5 00 1 00	12	00 9
Lot on Grand Isle, east end of dam, Valleyfield Lot at lock 7, Melocheville Lot near St. Timothy bridge, Valleyfield	42	Sept.	30,	1880	-				40	00		00
							3,20	50	5,714	50	8,921	. 0 0
Freight shed at basin No. 1	1 2	May do	1, 1.	1893 1893			30 60	00				00
Freight shed at do Warehouse and coal yard, lot No. 1.	3	$\frac{\mathrm{do}}{\mathrm{June}}$	1,	1893			75	00			75	00
Grain elevator on 1 lot No. 2	5	do June	30,	1892	ļ		1 12	00 8 00	564	2 00	1,692	
Flour-mill, lots 5 and 3 No. 6 do Nail factory lots 7 do do do lots 8 do Elevator and store, lots 9, 10 and 11	9	do do May	1	1802			645	00	322	2 50 2 50	967 967 430	
Plour-mill and store, lots 12 13 and 14	112	ao			: · • •		1,29	b vv			1,080 1,296	00
Spike and nail factory, lot 15	14	do			١.,		430	00	213	0 00 5 00	1,290 645	00
Flour and mill, lots 18 and 19 Lots on S.W. side, waste weir Dry dock, shipyard and mill, Basin No. 2	16	Sept.	. 1,	1892		• • • •	1	00 (. 00 . . 00 .0	6,000		$egin{array}{c} 1,290 \ 7,000 \ \end{array}$. 00
Lot for office, Colborne street, Montreal Strip, N.W. side Mill street, Basin No. 2	18 19	July	1,	1892	ı		25	00		 .	25	00
Water supply through 4-inch pipe to factory, Wellington st	120	do		٠.			40	00			40	00
Basin No. 2 Part lot 384 north, Wellington Basin Lot for shed, west Oorblead West	1,01	July Nov.	1, 1,	1892 1892			100 800	00			100 800	
Lot for shed, west do Double track over Wellington street bridge Floating bath near Wellington bridge	23 24	Oct. Jan.	1, 1,	1892 1893			100	00 0			100	. 00
Park lot do do 2nd pipe under canal	- 20	Sept	. 1.	1892			1 1	. 00 . 00 . 00			1	L 00 L 00 L 00
Siding west side Wellington bridge	$\frac{28}{29}$	do Aug.	1.	1892			450 120	00			450 120) ()) ()
Lots I, 2 and 3 West Basin, for piling lumber Lots 4, 5, 6 and 7 do do Lots 8, 9 and 18 do do	31	May do do			١.,				1,060		500 1,066	66
Lot for a cattle yard, Point St. Charles	33	Feb.	1,	1893	Ľ		1 150	00		0 00	800 150 600	00
Lots 1 and 2 west, St. Gabriel, Basin No. 4	35 36	Jan. May	1, 1,	1893 1893			380	92	4,41	i 72	380	92

DR.

No. 27.—Hydraulic and other Rents, &c.—

Balance due on 1st July, 1891.	Accrued, year ended 30th June, 1892.	Total.	Number.	Name of Work.	Present Occupant.	Original Lessee.
\$ cts.	\$ ets.	\$ ets.		·		
420 75 1,798 32 5,108 24	420 75 684 44	2,482 76	37 38 39	do		Bourgoin & Thibault
0,100 21	412 33	412 33	40			D. Pariseau
. 	174 40	174 40	41	do		P. McCrorv
	600 00	600 00	42	do		Standard Agency Co
	100 00	100 00	43	do		Waren Scraf Asphal Paving Co
253 68	84 56	338 24	44			R. Ready
	1 00 100 00	1 00 100 00	45 46			A. Cantin
	180 00	180 00	47		P. McCrory	
150 60	300 00	450 00	48		d	Henderson Bros
1,088 16	$169 12 \\ 362 72$	169 12 1,450 88	49 50			P. McCrory
· · · · · · · · · · · · · · · · · · ·		500 00	51	do	†	Dobell, Beckett & Co
• • • • • • • • • • • • • • • • • • •		40 00 1 00	$\frac{52}{53}$	do		B. Ethier S. Delisle
• • • • • • • •	200 00	200 00	54		· · · · · · · · · · · · · · · · · · ·	Merchants Manuftg. Co
	100 00	100 00	55	do		J. & C. Hodson
	25 00 10 00	25 00 10 10	56 57			Dominion Abattoir Co. E. V. Mosely & Co
840 00	1,680 00	2,520 00	58	do		Ira Gould & Son
800 50	1,601 00	2,401 50 10 00	59 60			Est. J. Frothingham Albert Fox
· · · · · · · · · · · · · · · · · · ·	50 00	50 00	61			
		30 00	62			E. Ouellette & Co
	10 00 20 00	10 00 20 00	63 64			Canadian Pac. Railway Wm. Davis & Son
	. 40 00	40 00	65	do	.!	Dominion Barb Wire Co
• • • • • • • • • • • • • • • • • • • •	00.04	33 82 33 84	66 67			G. W. Cameron
	10 00	10 00	68			Henderson Bros Parent Filion
	. 10 00	10 00	69			
23,180 44	22,639 49	45,819 93				
7 50		7 50	1	Chambly Canal		J. A. Maurice
	60 00	60 00	2	do	المنتب بنب ، ال بوارين ا	South Eastern Ry
10 00	10 00	20 00	1 3		H. Riendeau	
19 34 125 00	25 00	19 34 150 00	1 5			
125 00	25 00	150 00	1	do		Simard & Godin
25 00	25 00	50 00	7	' do		Jas. O'Cam
311 84	145 00	456 84	-			
	. 40 00	40.00	١,	Rideau Canal		. G. Sterling
3 00		4 00	1	? do		Ottawa Canoe Club
	80 00	80 00	1			Thos. McKay
240 00 80 00		300 00 160 00	1		· · · · · · · · · · · · · · · · · · ·	
	. 80 00	80 00	1	6 do		. Dey Bros
120 00		120 00 3 00				Corp. City of Ottawa.
2 00						

Lessees' Accounts, 1891-92.

CR.

Description of Property.	Number.	Date to which the Account is made up.	Abatement authorized.	Paid during Fiscal Year.	Balance due on 30th June, 1892.	Total.
			\$ cts.	\$ cts.	\$ cts.	\$ cts.
and 13 and 14 east do do 2. Lots 13 and 14 do do 2. Lot 21 do do 2.	38 39 40 41	do 1892 do do 1893		412 33 174 40		841 50 2,482 76 5,108 24 412 33 174 40
Lots 7, 8 and 9 S. E. side Wellington Basin Lot at St. Gabriel, near Atwater Ave. Montreal.				$600 00 \\ 100 00$		600 00 100 00
Lot 17 east, St. Gabriel Basin No. 3 Water lot in front of his dry dock. Part of island No. 5, for a shipyard, at St. Gabriel Wharf lot, at St. Gabriel. Two lots on Ottawa street, Montreal. Lot 20, St. Gabriel Basin, No. 2, Montreal. Lots 10 and 11 west, St. Gabriel Basin, No. 3 Shed, No. 1, St. Gabriel Basin. Lot for a coal shed, Brewster's bridge. Floating bath near do Water supply through a 10-in. pipe, basin No. 1. do do St. Henri. do at Grand Trunk Railway Crossing. Supply water at lock No. 3. Water power, Côte St. Paul, lock No. 4 do supply do do do do below guard lock, Lachine. Lot above regulating weir, do Privilege to lay a track on Spoil Bank, Lachine. Lot above new upper entrance to lock, do Water supply below guard lock, No. 5 Lot 19 do 22, at Côte St. Paul. Using shed No. 4, for skating rink Space in shed	45 46 47 48 49 50 51 53 54 55 60 61 62 63 64 65 67 68	April 1, 1892 July 1, 1893 Jan. 1, 1893 Nov. 1, 1892 May 1, 1893 do June 30, 1892 May 1, 1893 Aug. 1, 1892 Jan. 1, 1892 July 1, 1892 June 30, 1892 do Nov. 1, 1892 July 1, 1892 July 1, 1892 July 1, 1892 July 1, 1892 July 1, 1892 July 1, 1893 do Sept. 1, 1892 June 30, 1892 do Sept. 1, 1892 June 30, 1892 do May 1, 1893		1 00 100 00 180 00 450 00 	169 12 1,450 88	450 00 169 12 1,450 88
				19,127 30	26,692 63	45,819 93
Two lots of land, Chambly Wharf lot at St. Joseph. Lot in village, Chambly Wharf, at St. John's Part of canal wharf, at St. John's do do do do	3 4 5	July 1, 1892 May 1, 1893 Nov. 19, 1881 June 30, 1892 do		10 00	7 50 	7 50 60 00 20 00 19 34 150 00 150 00 50 00
				220 00	236 84	456 04
Water lot, foot of Major's Hill, Ottawa	3 4 5 6 7 8	May 1, 1893 April 1, 1882 May 1, 1893 Dec. 1, 1892		40 00 80 00 80 00 80 00 2 00	300 00 80 00 120 00 1 00 4 00 250 00	40 00 4 00 80 00 300 00 160 00 80 0) 120 0, 3 0, 4 0, 250 00

DR.				No	. 27.—Hydraulic an	d other Rents, &c.—
Balance due on 1st July, 1891.	Acerued, year ended 30 June, 1892.	Total. Quin	Name of	Work.	Present Occupant.	Original Lessee.
\$ ets.	\$ cts.	\$ cts.				
5 00 14 00 1 00 2 00	40 00 1 00 2 00 1 00 1 00 2 00 1 3 50 1 00 2 00 2 00 2 00	6 00 12 16 00 15 2 00 15 10 16 10 16 17 10 16 17 10 16 17 10 10	do do do do do do do do do do do do do d		Robt. Hastey	Corp. City of Ottawa. Bronson & Weston R. W. Baxter. Andrew Hickey H. Patterson. John Graham Thos, Kingston. W. D. Morris.
14 00	2 00 1 1 00 1 1 00	16 00 25 1 00 25 2 00 2-	do do		Canada Atlantic Ry. Co.	Estate Thos. McKay
13 00 36 00 1 00	10 00 13 00 9 50 9 00 1 00 1 00 2 00 5 00	10 00 22 26 00 22 9 50 2 45 00 2 2 00 2 1 00 3 2 00 3 2 00 3 5 00 3	do do do do do do do do do do do do do d			Tem. Com. St. Andrew's Church Michael Keily P. O'Donnell Jas. Marks.
108 00 62 50 22 00 30 00 30 00 22 00 21 00	12 00 8 25 2 00 3 00 3 00 25 00 2 00 3 00	120 00 3 70 75 3 24 00 3 33 00 3 25 00 3 24 00 4 24 00 4	de de do do do do do do do do do do do do do			Francis Abbott. do do J. R. Booth Widow A. Howlett Wm. Rowland.
202 50 168 75 157 50 39 00 49 50 33 00 77 25	3 75 22 50 11 25 11 25 9 75 8 25 8 25 7 50 7 50	3 75 4 225 00 4 180 00 4 168 75 4 48 75 4 41 25 4 84 75 4 7 50 5	3 do 4 do 5 do 6 do 7 do 8 do 9 do			W. Dawson Thos. Paget Chas. McCaffrey Geo. Morris
22 50 8 00 50 00 50 00	3 00 2 25 4 00 50 00 10 00 4 50	3 00 5 24 75 5 12 00 5 100 00 5 60 00 5 4 50 5	1 do do do do do do do			Thos. May D. Cameron T. & P. Collins London & Can. Loan Co. Stafford Merrifield. Geo. Shepherd
25 00 10 00 1 00 12 00 40 00 4,740 00	5 00 5 00 10 00 1 00 12 00 5 00 120 00	30 00 5 5 00 5 20 00 6 2 00 6 45 00 6 4,860 00 6	7 do 8 do 9 do 0 do 1 do 2 do 3 do		Estate R. Ward	Jessie Miner. Josiah Payne. H. Easton H. Merrick. Joshua Bates
3 00	0 20 4 00 3 00 3 00	0 20 6 4 00 6 6 00 6 3 00 6	5 do 6 do			Wm. Lavender W. W. Berford, sen
172	10 00	. 10 00 6			ND CANALS.	W. H. Whealey

A--Continued.

Lessees' Accounts, 1891-92.

CR.

Description of Property.	Number.	Date to which the Account is made	<u>:</u>	Abatement authorized.	Paid during Fiscal		Balance due 30th June, 1892.	Total.
•	:			\$ cts.	\$ (etc.	\$ cts.	\$ ct
Lot for mill and coal yard at C. A. R. bridge	11	Jan 1	1893		40			40 00
Reserve on east side Deep Cut, Ottawa	12	Sept. 1,	1892		6			·6 00
Reserve in front of his property do	13	Jan. 1.	1893				16 00	16 00
Strip of reserve at exhibition grounds, Ottawa	14	do 1, 1	1893	• • • • • • • • • • • • • • • • • • • •	2 (00		2 00
Lots for piling ground, Stewarton do Reserve in front of lot G, con. C, Nepean	16	Jan 1	1893		100			100 00 1 00
do do do ,	17	Dec. 1,	1892		4			4 00
do S ½ do do	18	Jan. 1,						13 50
do $N_{\frac{1}{2}}$ do do		do 1,			1	00	1	1 00
								4 00
do do K do do do K do		Aug. 30, Nov. 1,	1809 1809				10.00	2 00
do boathouse K do		Sept. 1,			· · · · · · · · · · · · · · · · · · ·		16 00	16 00 1 00
		Jan. 1,	1893		$\hat{2}$			2 00
	100		• 000					
do do H do do do E con. D do							19.00	10 00
do do E do							13 00	26 00
do do No. 1 con. B do							45 00	9 50 45 00
do front of sub-lots 64 & 65, lt. 1 c. B, Nep.		do 1,	1893		2	00		2 00
do front of lot K con. B, Nepean						00		1 00
do front of sub-lot 5, con. B do	31						2 00	2 00
Right of way over lots 8 and 9 (Dow's swamp)		uo 1, .	1893	•••	2	vv		2 00
con. B, Nepean	33	do 1.	1893		5	00		5 00
Reserve on lots 22 and 23, con A, Nepean	34	Jan. 1,	1892	<i>.</i>			120 00	120 00
do N $\frac{1}{2}$ lot 8, con. 1, Nepean	35	do 1,	1893					70 75
do part lot 40, con. 1, O.F., Nepean	36	do 1,					24 00	24 00
do do do do do do							33 00 33 00	33 00 33 00
					25	00	3,5 00	25 00
do do do		July 1,					24 00	24 00
$\operatorname{do} = \operatorname{lot} N, \operatorname{con} 1 = \operatorname{do} = \ldots$	41	June 1,	1893				24 00	24 00
$egin{array}{cccccccccccccccccccccccccccccccccccc$	42	do 1	1893		3	75	005 00	3 75
do N 1 lot 4 2 do			1893 1893				225 00 180 00	$\frac{225}{180} \frac{00}{00}$
do S \(\frac{1}{2} \) \(\frac{1}{4} \) \(\frac{1}{2} \) \(\frac{1}{40} \) \(\)				• • • • • • • •			168 75	168 75
do S \(\frac{1}{2} \) 5 2 do	46	do 1,	1893				48 75	48 73
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	47	Dec. 1,	1892				57 75	57 78
do 8 6 2 do do S 8 8 2 do	48	Jan. I,	1893				41 25	41 25
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	50	Jan. 1.	1893		• •	• •	84 75 7 50	84 75 7 50
do \(\frac{1}{2} 23, \text{ river front do } \\ \ldots \)		do 1, 1	1893		3	00		3 00
		do 1,	1893				24 75	24 78
do 9, con. 1 do Surplus water at Bulkhead, Long Island	53	June 1,	1893		8		4 00	12 00
Reserve in front of lot No. 40, con. 1, Oxford	55	. ao 1, . .Inlv 1	1802 1809		50	w	50 00 60 00	100 00
do do do	56	Jan. 1.	1893			50	00 00	60 00 4 50
do do do do on $W_{\frac{1}{2}}$ lot 27, con. 1, Marlboro'	57	do 1,	1893			٠.	30 00	30 00
do lot 3, con. B, Wolford	58	July 1.	1892			00		5 00
$egin{array}{cccccccccccccccccccccccccccccccccccc$	99	do 1,	1892 1802		10		10 00	20 00
Lot above old lock, Merrickville	61	Dec. 1.	1891	1	1	00 	1 00 24 00	2 00 24 00
Reserve near swing bridge, Merrickville	62	June 1.	1892				45 00	45 00
Reserve near swing bridge, Merrickville Lots A and B, old Sly's	63	May 1,	1892				4,860 00	4,860 00
Fart reserve on lot 1, con. 4, Smith's Falls	64	June 30,	1892		0	2 0		0 20
Part lot 21, con. 5, S. Elmsley, Oliver's Ferry	60	May 1	1892 1809			00		4 00
ાં TID Of land and warehouse, north Isthmus lock	-	1				00	3 00	6 00
Station. Newboro'	67	do 1.	1893				3 00	3 00
Part of lot 21, con. 5, north Crosby, Newboro'	100	CI 4 1	1000		10	۸ċ.'		10 00

DR.

No. 27.-HYDRAULIC and other Rents, &c.-

Balance due on 1st July 1891.		Accrued, year ended	(ann a mar	Tota	al.	Number.	Name of Work.	Present Occupant.	Original Lessee.
\$	cts.	*	cts.	\$	cts.				
1	00	1	00	2	00	69	Rideau Canal		W. J. Webster
5	00		00	15	00	70	dο		T. H. Hughes
22 8	00	76	00	304	00	71	do		Wm. Anglin
367	50	105	00	472	50	72	do ,		M. J. Foster
	50	105		157		173		•••••	John Rourk
50	00	10	00	60	00	74	d o		John Brannigan
7,472	50	1,275	20	8,747	70				
5	00	5	00	10	00	1	Grenville Canal		A. J. Grier.
			00		00		Carillon Canal		Hy. E. Masson
		10	00		00	3			John Brophy
	00				00		Ste. Anne's Lock.		Delphus Lebeau
1	00	٠ :			00	5	do	2014 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Can. Mutual Tel. Co
:			00		00	6	do		Dominion Tel. Co
	00		00		00		Trent River Works		Francis Sandford
	00		00		00	8	do		R. C. Smith
	00		00		00	9	d o		Jas. Cummings
ð	00		00		00	10	d o		Bell Telephone Co
• • • • •			00		00	11			Lakefield Lumber Co.
	·		00		00	12			John Hull
3	00	1	00	4	00	13	Cape Breton		Neil MacNeill
89	00	121	00	210	00				

A-Continued.

Lessees' Accounts, 1891-92.

CR.

Description of Property.	Number.	Date to which Ac-	s made		Abatement authorized.	Paid during Fiscal	Year.	Balance due 30th		Tota	al.
					\$ cts.	\$	cts.	\$	cts.	8	cts
Part lot 21, con. 5, North Crosby, Newboro' Water lot at Chaffy's lock Water power at Brewer's upper mills (old lease) do do lower mills. do lot 48, con. 1, Kingston Reserve on lots 35 and 36, con. 1, Kingston	70 71 72 73	June Jan. do July	30, 1, 1,	'93 '92 '92 '92 '92 '92		1	5 00	304 472 52		15 304 472 157	00 00 00 50 50
	1					74	9 45	7,998	25	8,747	70
House and ground on lot No. 8. Lot for pasture	3 4 5 6 7 8 9 10	Jan. do do	30, 30, 1, 1, 1, 1, 30, 1, 1,	'93 '93 '91 '84 '93 '92 '93		5		3 1 50 3 20 6 1	00 00 00 00 00 00 00 00	100 100 31 11 1000 360 60 61	0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 0
Lot at Long Island, Baracnols	13	reb.	1,	33		11	6 00		00		00

DR.

No. 27.—HYDRAULIC and other Rents, &c.—

Balance due on Pur- chase, 1st July, 1891.	Accrued, year ended 30th June, 1892.	Total.	Number.	Name of Work.	Name of Proprietor.
\$ cts. 54 38 50 59 59 15 13 06 14 21 4 00 33 59 0 35 96 66 4 90 23 29 354 18	\$ cts.	\$ cts. 54 38 50 59 59 15 13 06 14 21 4 00 33 59 0 35 96 66 4 90 23 29 354 18	1 2 3 4 5 6 7 8 9 10		John and William Sproule. John Ferguson. Joseph Graham Paul Foster. Donald McArthur Cornelius Dyer. John Foster William and John T. Ives. Christie Family. A. W. Tanner William and Alexander Scott.

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th September, 1892.

176

RAILWAYS AND CANALS.

A-Concluded.

Land Sales, 1891-92—Concluded.

Cr.

Description of Property.	Number.	Abatement authorized.	Paid during Fiscal Year.	Balance due 30th June, 1892.	Total.
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1 2 3 4 5 6 7 8 9 10	\$ cts.	\$ cts.	\$ cts. 54 38 50 59 59 15 13 06 14 21 4 00 33 59 0 35 96 66 4 90 23 29	\$ cts. 54 38 50 59 59 15 13 06 14 21 4 00 33 59 0 35 96 66 4 90 23 29

C. E. CHUBBUCK, Clerk of Hydraulic Rents.

DEPARTMENT OF RAILWAYS AND CANALS—CANALS REVENUE BRANCH.

OFFICE OF INSPECTOR OF CANALS REVENUE, HAMILTON, 21st November, 1892.

Sir,—I have the honour to report that during the fiscal year ending 30th June, 1892. I inspected all offices for the collection of tolls on the Dominion canals.

At date of inspection detailed returns showing particulars of the revenue collected at each of the respective offices were submitted to the department.

The aggregate receipts on account of canal revenue for the fiscal year 1891-92, are \$3.17.339.02.

For hydraulic and other rents the receipts for the fiscal year are \$32,084.65.

Classified by districts, and offices, the subdivisions of canal revenue are as follows:—

WELLAND CANAL.

Gallantina Dinisiana	•	CANAL F	Total Canal	Hydraulic and			
Collection Divisions.	Tolls.	Wharfage and Storage.	Fines and Damages.	Other Receipts.	Revenue.	other Rents.	
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ ets.	
Port Colborne Port Dalhousie Dunnville Port Maitland	141,745 14 50,410 74 430 77 3 99		20 00 35 82		141,765 14 50,446 56 430 77 3 99	135 48 556 11 615 55	
Port Robinson St. Catharines Chippewa	618 89 552 34 46 58		538 88	177 69	796 58 1,091 22 46 58	812 00 5,043 26	
Totals	193,808 45		594 70	177 69	194,580 84	7,162 40	

ST. LAWRENCE CANALS.

Beauharnois	23,361 39 757 14 2,249 12 26,082 20	24 90 4,618 43	5 00 5 00 116 10	13,149 26	23,361 39 762 14 3,774 67 43,965 99	698 00
Totals	65,604 51	4,643 33	161 10	14,644 91	85,053 85	23,837 80

CHAMBLY CANAL,

Chambly		 13 00	75 30	7,793 71 10,853 75 690 78	70 00 150 00
Totals	19,249 94	 13 00	75 30	19,338 24	220 00

Sessional Papers (No. 9A.)

OTTAWA CANALS.

Collection Divisions.		CANAL F	REVENUE.		Total Canal	Hydraulic and
Conection Divisions.	Tolls.	Wharfage and Storage.	Fines and Damages.	Other Receipts.	Revenue.	other Rents
	\$ cts.	\$ cts.	\$ cts.	\$ ets.	\$ cts.	\$ cts.
Ottawa	19,631 01 17,246 74 115 78 1,553 42		10 00	8 00	19,631 01 17,256 74 123 78 1,553 42	5 00 20 00
Totals	38,546 95		10 00	8 00	38,564 95	25 00
		RIDEAU	CANAL.		<u>' ,,, </u>	1
Ottawa	3,743 93 1,275 08	131 18	20 00	309 70	4,204 81 1,275 08	590 75 105 00
Smith's Falls Totals	598 09 5,617 10	131 18	20 00	5 00 314 70	6,082 98	$\frac{53\ 70}{749\ 45}$
1		ST. PETER	'S CANAL.			
St. Peter's	2,317 03			3 28	2,320 31	
		MURRAY	CANAL.		·	·
Brighton	637 01				637 01	
1	TI	RENT VALI	LEY CANA	L.	•	
Burleigh	101 38				101 38	
	357 68			72 00	429 68	
	16 70				16 70 32 82	50 00 40 00
Fenelon Falls	ຊດຸດດ	1			140 56	40 00
Fenelon Falls	32 82 140 56		l	. 	1 170 (70)	
Fenelon Falls					39 70	
Bobcaygeon. Fenelon Falls. Hastings. Peterborough Buckhorn. Totals.	140 56					90 00

The receipts, as above, were balanced by bank remittances in favour of the Receiver-General.

I have the honour to be, sir,
Your obedient servant,
H. B. WITTON,
Inspector of Canals.

T. TRUDEAU, Esq.,
Deputy Minister, Railways and Canals.

INDEX

то

CANALS REVENUE AND STATISTICS.

	P	AGE.				PAGE.
Abbey, J. & J.	Lessees	164	Cantin, Aug.	Lessee		170
Abbott, Francis	do		Cardinal, Joseph			
Acer & Kennedy	do		Carmen, P.			
			Carter, L. G.			
Acer, C. M.						
Anderson, James	do		Catelli Bros.	ďο		
Anderson, J. T.		166	Chaffey, B. E.			
Andrews & Sons	do	162	Chambers, R.	do		164
Anglin, Win.	do	174	Chester, Alfred	dο		172
			Chisholm & Minor			
Ballantyne, J. & T.	Lessees	172	Christie Family		sers	
Danham F V	do		Clark, Wm.		isold	
Barbeau, F. X.						
Bartley, W. P. Bates, Joshua	do		Clegg, Wm.		• • • • • • • • • • • • • • • • • • • •	
		$172 \parallel$	Clermont, J.			
Battle, John	do		Cockburn, Alex.			
Baxter, R. W.	do	172	Collier, R.	do		162
Beach, M. T.	do	166	Collins, T. & P.	do		172
Beaty, Wm.	do		Conlon, J. & F.	do		164
Beauharnois Steam			Corporation of—			201
	n do	100	County Welland	do		101
Nav. Co.	D (1	10				
Beermer & Sullivan	Refund	12	Montreal			
Bell Telephone Co.	Lessees		Ottawa	do	170	
Benson, W. T.	do	164	Port Colborne	do		. 164
Benson & Aspden	do	164	Town Salaberry	do		. 178
Berford, W. W.	do		Welland	do		164
Bergin, D.	do		Thorold	do		
Deigiii, D.			Village of Merritto			
Bergin, E.						
Bissett & Donaghy	do		do Morrisbur			166
Bolduc, T. & W.	do		Crevier, A. C.		,	
Booth, J. R.	do	172	Crowe, W. H.			. 164
Bourgoin & Thibault	t do	170	Cummings, J., Estate	e Lessee		. 174
Brannigan, John	do		of.			
Bridges, James	do		D'Aoust, A. D.	do		168
Brocklebank, L.	do		Darling, S.			
Brodeur, S. A.	do		Davey, J., jun.	T 00		104
Bronson & Weston	do		Davis, H. & N.		· <u></u>	
Brophy, John	do		Davis, Wm., & Son			
Brown & Merritt	do	164	do	Refun	d	13
Brown & Ross	do	162	Dawson, W.	Lessee		. 172
Brown, T. F. & Bros	3	164	Delaney, D.	do		172
Brooks, Capt.		8	Delisle, Silfrid	do		170
Bulmon H in & Bros	s. Lessees 168,		Demers, J., & Co			
	- do		Dennie, O. P.			
Buntin, A.						
Burstall, J., & Co.	do		Dey Bros.	do		
Butterworth, J. G.	do		Dittrick, D.	do		
Cameron, D.	do	172	Dion, E.	do		
Cameron, G. M.	do	170	Dobie, Arch.	do		. 167
Cameron & McInnis	do	166	Dobell, Beckett & Co	o do-		8-170
Canada Atlantic Rai		172	Dobell, H. & Co.			8
way Co.			Dominion Abattoir Co	T ASSAG	9	170
Canada Meat Packin	ng do	169	do Barb Wire			
	ng do	100				
Co.	100	164			• • • • • • • • • • • • • • • • • • • •	
Canada Mutual Tele	e- dò	174	do Lime Co.	_ do		
graph Co.			_ do Telegraph (Co. do		
Canadian Pacific Rai	il- do	172	Donaldson, Andrews	& do		. 162
way Co.		1	Ross			
Canala_Evnanditur	e. Details of	11	Doran, Wm. M.	do		. 166
		2				
do Revenue			Dufresne, O., jr., & Bro		, 	
	1	10		T	_	
		12	Duhamel, L.		e	
do Statistics		16	Dyer, Cornelius	Purch	aser	176
do Statistics		16		Purch		176
do Statistics		16	Dyer, Cornelius	Purch	aser	176

do	Fine PA	AGR.	Keily, Michael	Lessee 17	
Ewart, J.	do	8	Kennedy, Philip	do	
	Lessee 1	164	Kilroe, Michael	do 17	
Co.	1 .		Kimball, G. H.		8
Ethier, B.	do 1		King & Dolan	Lessee 10	62
Elliott, Fred.	Refund	12	Kingston & Montreal Forwarding Co.	Refunds 1	12
Ferguson, John	Purchaser		Kingston, Thomas	Lessee	
Fillion, P.	do 1		Kirby, R. H.	Fine	
Fitzgerald, W.	_ do		Lake St. Francis Navi-	•	
Flack Bros.	Lessees	L66	gation Co.	Lessees	
Foster, John	Purchaser		Lakefield Lumber Co. Larocque, J.		
Foster, Paul Foster, M. J.	Lessee		Lattimore, A.	do 16	
Fox, Albert	do 1		Lattimore, R. F.	do 10	
French, Eusèbe	do 1		Lattimore, R.		70
Frothingham, Estate	do , 1	170	Laurie, R.	do 10	
of J.	le do 1	160	Laurie, R. & J.		62
Frothingham & Worl	k- do	100	Lavender, W. Lebeau, D.	do	
Gault, A. F.	Lessee 1	166	Leduc, Louis	do 16	
Gibson, Wm.	do 1	164	Lee, Edward		64
Gill, Gibbon Capt.	Fines	9		Refund	
Gilbert, E. E.	Lessee			Lessee 16	
Gillespie, J. C. & J. Goher, G.	do 1 Fines	loz g		<u> </u>	$egin{smallmatrix} 8 \\ 13 \end{smallmatrix}$
Gonder, H. G.	Lessee	164	Lieth, A. Capt.	Fine	8
Gordon, John	do 1		Little, Wm.	Lessee	
Gordon & McKay	do 1		Little, C. E.	Fine	8
Gould, Ira, & Son	do 168, 1		London and Canadian		
Graham, John	do	9	Loan Co.	do 17	
Graham, Capt. R. Graham, Joseph	Purchaser 1		Loney & Campbell Longtin, Onésime	do 17 do 16	
	Lessee 164, 1		Lybster Cotton Co.	do 10	
Graybiel, John	do 1		Malcolmson, John	Refunds 1	
G. N. W. Tele. Co.	do 1		do		8
Grier, A. J.	Lessee 1	174	Maltby & King	Lessees 16	
Hagries, R. Haney, S. & J.	Fine	164	Marks, Jan.es Masson, H. E.	do 17	
Harbour Commission		104	Maurice, J. A.	do	
ers, Montreal	do 1	176	May, G.		72
Hardy, R. E.	Lessee 1	172	May, Thomas	do 17	
Harris, G. A.	Fine	9	Mead, Eli	do 16	
Harrison, Henry	do		Melaniby, Wm. Meloche J.	do 16 do 16	
Hartney, H. Hastey, Robert	do 1		Merchants' Manufac-	d5 10	00
Hendershot, Bros.	do 1		turing Co.	do 17	70
Hendershot, Bros. Henderson, Bros.	do		Merrifield, S.	do 17	
Henderson Lumber C			Merrick, Henry		72°
Heney, John Hickey, Andrew	do 1 do 1		Merriton Cotton Co. Miller, J. B.		62
Hill, John	do 1		Miller, Wm.	Refund	
Hingston & Woods	Fines	8	Miner, Jessie	do 17	
Hodge, Andrew	Lessee	166	Moody & Son	do 16	
Hodgins, J. & C.	do		Molson, J., jun.	do 1€	66
Hood, W.	do 1 do 1		Montreal—	T 10	ce
Howland, Jones & Co	o do 1 do 1		Cotton Co. Coal & Elevating Co		66 68
Howlett, Widow A.	do 1		Harbour Commis'rs		
Howland, Peleg Howlett, Widow A. Hughes, T. H.	do 1		Street Railway Co.		68
Hull, John	_ do 1		Transportation Co.		70
Hurteau Bros.	Lessees		do		12
Hutchison, William	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		do Warehousing Co.	Fines 8 Lessee 16	
	lo Lessees' accounts. 1		Morris, J A.		70 70
	lo Revenue	6	Morris, W. D.		$7\tilde{2}$
Irvine, J. C.	Lessee 1	164	Morris, George	do 17	72
	Purchasers 1		Mosely, E. V., & Co.	_ do 17	
Jackson, Henry	Lessee 1		Muir, A.	Lessee 16	b 2
Jackson, Henry Jacques G. E. & Co.	Lessee	168	Municipal Council of Iroquois	do 10	66
do		12	Musson, P. H.		64
Jarvis, H.	Lessee 1		Myles & Sons, Thos.		12
Johnson, Wm. & Co.			McArthur, Donald	Purchaser 17	
Jones, C. J.	do 1		McCrory, P.,	Lessee	
Julien, Moïse	do 1	100	McCaffrey, Charles	do 17	ίZ
182		IED	EX		

	PAGE			1.07
McCloy, Robert	Lessee 172	Shaver, Sydney	Lessee	'AGE. 166
McCullough, G. W.	do	Shepherd, George	do	
McDonald, A.	do 164	Sherwood, A.	do	
McDonagh, John	do 162	Simard & Godin	Lessees	
McDonald, James	do 168	Smith, J. B.	Lessee	
McDonald, Jas., Est.	do 168	Smith, M. A.	do	
McFarland & Lemon	Lessees		Lessee	
McFee, Col.	Lessee 166	South-Eastern Railway		
McFee & Co.	do 168	Co.		
McGlashen, L.	do	Sproule, John and W.	Purchasers	176
McKay, Æ. D., & Son	s Refunds 12		Lessee	
°´ do	Fine 8	Statistics - Appendix	A	16
McKay, Thos.	Lessee 170, 172		Lessee	
McLeary & McLean	Lessees 162	Stephen, George	đo	166
McLennan, H.	Lessee 168	Sterling, G.	do	
McNeil, Neil	do 174		Lessees	
	Lessees 174		essee	
McPherson & Weir	do 162		Jessees	
McRae & Co., J. W.	do 170	Water Power Co.	do	
Neelon, S.	do 162	St. Catharines & Wel-	do	162
Neville, John	do 172	land Canal Gaslight		
Norris & Neelan	do 162	Co.	,	1.00
Norris, James	do 162	St. Catharines & Nia-	do	162
O'Cain, James	do 170	gara Central Ry.Co.	·	
O'Donnell, Patrick	do 172	St. Denis, B.	Fines	8
O'Gilvie & Co., A. W			Lessees	172
O'Keefe, P.	do 164	Railway Co.		164
O'Neill, R.	Fine 9	Swayze, Caleb 1 Tait, G. & W.	Lessee	164
Ottawa Canoe Club	Lessee 170 do	Tanner, A. W.	do	
Ouellette, E., & Co.	do 164	Tariff		
Page & Co., C. J.	do 172		_	164
Paget, Thos.	do 166	Temporal Committee,	Dessee	104
Papineau, N. Paradis, N.	do 170	St. Andrew's Ch'rch	do	172
Pariseau. D.	do 170	Tett, J. B. and B	do	
Patterson, Mrs. H.	do 172		Refund	13
Patenaude, Capt.	Fine 8		Fine	9
Payne Josiah	Lessee		Refund	
Payne, Josiah Pease, D. B.	do 166		Lessee	
Peck, Benny & Co.	do 168	Tolls, Canal		
Permanent Loan Co.	do 166	Toronto Paper Co.	Lessees	166
Phelps Bros.	Lessees 164	Towers, Thomas	Lessee	162
Phelps, Calvin	Lessee 162	Trempe, O. 1	Lessees	166
Pierce, J. C., & Son	Lessees 170	Tuttle, Date & Rodden	do	162
Pillow, Hersey & Co.	do 168	Valleyfield Canning Co		
Poitras, F. X.	Lessee 166	_do_Electric	do	168
Port Robinson Dry		Light Co.	•	4.00
Dock Co.	do 164	Vieau, S.	ado	168
Poulin, P.	do 166		Classified	136
Pour & Fraser	Refund	and Nationality of	0. 14 4 1	4 44
Powell, Wm.	Lessee		Passed thro. the canals.	
Ranney, John L.	do 162		Fine	8
Rees, John F.	$egin{array}{ccccc} ext{do} & \dots & 162 \ ext{do} & \dots & 12 \ \end{array}$	Wallace, George Walsh, R. N.	do	
Refunds Roid John		Walthe, S., & Co.	do	
Reid, John Ready, R.	do	Walton, F. T.	do	
			Refund	
Richelieu Navigation			Lessee	
C. Richard	Fines8	Ward, R., Estate of	do	
Rickey, George	Lessee 172	Warren-Scarf Asphalt	do	
Riendeau, H.	do 170	Paving Co.		
Riordan, J.,	Lessee 162	Wattie, James	do	166
Robertson, A. M.	Refund 12	Weatherly, S. J.	do	
Rolston & Haskins	Lessees	Webster, W. J.	do	
Rose, H. A.	Lessee	Welland Canal—		
Ross, J. H.	do 166	Refund		12
Ross & Co.	Fine 9		Lessee	164
Rourk, John	Lessee 174	Loan Co.	do	
Rowland, Wm.	do 172	Whealey, W. H.	do	
Royal Electric Co.	do 168	White, A. C.	do	
Salvail, D. W.	Refund	White, F. O.	do	
Sandford, F.	Lessee	Whitman & Barns Man	ı- do	162
Scholfield, A. K.	do	ufacturing Co.	do	160
School Trustee	do 162	Wiggle, Capt. N. J.	do	
School Trustees	do 166	Wilson, Chas. E. Wilson, Jas.	do do	
~ win. and Alex	. Purchasers 176	•	α υ	
	IN.	DEX		183
			,	

Wilson, J., jun. Wilson, John H. Wood, A. Wood, J. & C. H.		162 172	Wood, W. D. & G. C. Wood & Green Wright & Duncan	Lessee	$\begin{array}{c} 162 \\ 164 \end{array}$
---	--	--------------	--	--------	---

184

INDEX

Supplement to the Annual Report of the Department of Railways and Canals FOR THE YEAR ENDED 30th JUNE, 1892.

CANAL STATISTICS

FOR

SEASON OF NAVIGATION

1892



OTTAWA
PRINTED BY S. E. DAWSON, PRINTER TO THE QUEEN'S MOST
EXCELLENT MAJESTY
1898

[No. 9a*-1893.] Price 10 cents.

CONTENTS.

REPORT of C	ollingwood S	chreiber, Chie	f Engineer.				PAGE. 1
~ .	_						PAGES,
Comparison	of revenue ar	id shipment of	grain to sea	board by cor	mpeting routes .		1 to 13
Freight rate	8	• • • • • • • • • • • •	• • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	14 to 19
Report of in	transit trade	, &c	• • • • • • • • • •	•• • • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·	••••••	20 to 37
m .							PAGE.
		s through all t	he Canals of	New York	• • • • • • • • • • • • • • • • •		38
do	do	do the	Welland Car	18l	:		40
do	do	cleared at Bu	iffalo and To	nawanda th	rough the Erie C	anal	42
do	do	cleared at Us	wego throug	h the Erie C	anal		43
do	фo	cleared down	wards on th	e Welland C	anal		44
do	do	through the	Welland Ca	anai in tran	sit between Por	ts in the United	45
Tonnage of V	Vecetable Fo	nod carried on	Welland a	nd New Vo	rk Canala and	the two principal	
railwa	vs competing	for the carryi	ng trade to i	ide-water	TR Canada and	two principal	46
Statement of	f Freight nas	sed down the	Welland Car	al in Canad	ian and United S	states Vessels	
do	large class o	of Vessels light	ened at Por	t Colborne		values vessels	
do	Freight nas	n v cescis ngitu sed Eastward	from Lake R	rie to Mont	real		51
do	do	Westward	from Montr	eal to Lake	Erie	•••••• •••••	57 59
do	do	Eastward	through W	elland Can	al from United	States Ports to	. 99
		Unite	d States Por	ts.	, O		61
do	Vessels and	their Cargoes	of Grain fro	m Ports we	st of Port Colb	orne to Montreal,	OI.
	quantit	v transhipped	at Kingston	and quantit	v taken to Mont	real	63
do	quantity of	Grain passed of	lown Wellar	d Canal to	Kingston in Can	dian and United	. 00
	States 7	Vessels			in Can		65
Comparative	Statement of	of quantity of (Frain to Kir	gston for 18	91 and 1892		68
Statement of	f the quantit	v of Oats arriv	ed at Montr	eal <i>via</i> Cana	l and Railways	and shipments.	68
do	quantity of	Coal through	the Welland	Canal.		· · · · · · · · · · · · · · · · · · ·	69
do	4	do	St. Lawr	ence Canals	• • • • • • • • • • • • • • • • • • • •		69
do	quantity of	Freight passed	down the	Welland Can	al to Montreal, o	antity to Ontario	V.,
	Ports.	and quantity	to United S	tates Ports.			70
Recapitulati							
Summary St	atement of I	reight passed	down the W	elland Cana	l on which full I	olls were paid	83
		of Revenue on					84
-	do					Canals, for 1891	
•		and 1892.					`86
							PAGES.
Statistics of	Canal Traffic	3			• • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	88 to 148
Tariff					••••		149 to 163
			-				
No. or					•		
STATEMENT.							
CIAILMENT.							
7 Wel	lland Canal	Details of Trac	fic arranged	l Alphahetic	allv	• • • • • • • • • • • • • • • • • • • •	PAGE.
8	do		ugh Traffic	do		• • • • • • • • • • • • • • • • • • • •	
9	do	do Way		do		• • • • • • • • • • • • • • • • • • • •	
						• • • • • • • • • • • • • • • • • • • •	
11	do	do	Through 1	raffin arrana	red Alphahetical	l y	114
	do	do	Way	do	do	·y · · · · · · · · · · · · · · · · · ·	
	uo	uo			uo	• • • • • • • • • • • • • • • • • • • •	109

Canal Statistics.

No. o	F						
STATEM	ENT.						PAGE.
13	Ottawa Canals, Detai	ls of Traffic, a	rrange	l Alph	abetical	ly	112
14	Chambly Canal	do		do		• • • • • • • • • • • • • • • • • • • •	116
15	Rideau Canal	do		do	•		119
16	St. Peter's Canal	do	¥ .	do			122
17	Trent Valley Canals	do		do			123
18	Murray Canal	do		do			126
19	Statement of Traffic of	on the above r	nention	ed Can	als, acc	ording to Classes	131
20	Summary Statement	of Traffic on t	he abov	e Cana	ıls		136
21	Statement of the amo	unt of Tolls a	ccrued e	each m	onth on	all the Canals	142
22	Statement of Number	r, Tonnage an	d Natio	nality	of Vess	els passed through all the Canals	144
221	Comparative Stateme	ent of Grand T	Cotal Fr	eight 1	assed t	hrough all the Canals	148
23	Tariff		· · · · · ·				150

SUPPLEMENT

TO THE

ANNUAL REPORT OF THE DEPARTMENT OF RAILWAYS AND CANALS.

OFFICE OF THE CHIEF ENGINEER OF RAILWAYS AND CANALS,
OTTAWA, 27th April, 1893.

SIR,—I have the honour to submit the statistics of the operations of the canals for the season of 1892.

The tables have been compiled and the information prepared by Mr. Teakles, a very careful, painstaking, trustworthy officer, so that I consider they may be accepted as reliable and correct.

I have the honour to be, sir,
Your obedient servant,
COLLINGWOOD SCHREIBER,
Chief Engineer.

J. H. Balderson, Esq., Secretary, Dept. Railways and Canals.

REVENUE.

The total revenue, exclusive of hydraulic rents for two years, is as	follows:-
For 1891 \$350,351	97
1892 358,711	04

By comparing the statistics of 1891 with 1892, it will be seen that the gross revenue has increased \$8,359.07.

The increas	ses and decreases are as follows:-		
,	ŧ .	Increase.	Decrease.
On the	Welland Canal	•••••	\$3,925 38
66 4	St. Lawrence Canals	\$ 7,471 32	•
(1	Chambly Canal	1,445 97	
44	Rideau Canals	• • • • • • • • • • • • • • • • • • • •	646 75
"	Ottawa Canals	2,626 29	
"	St. Peter's Canal	1,374 10	
"	Trent Valley Canals	98 2 8	•
6 6.	Murray Canal	******	84 76
	Total	\$13,015 96	\$ 4,656 89
	Total increase		•

Canal Statistics.

These figures are somewhat changed by refunds under Orders in Council hereafter referred to.

There were refunded, Welland and St. Lawrence Canal tolls, on grain in 1891, to the amount of \$49,834.98, and in 1892, \$40,030.83, including the amount of \$1,279.62, refunds of Welland Canal tolls on wheat which was ground and the flour exported out of the country, which makes an actual increase of revenue for 1892 of \$18,163.22.

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, on the 4th of April, 1892, authorized a refund of canal tolls as follows, viz.:—

That a refund be made of a portion of the canal tolls collected on wheat, Indian corn, pease, barley, rye, oats, flax seed and buckwheat which have been carried through the Welland Canal, and the St. Lawrence Canals to Montreal or to any port east of Montreal, in all cases where the said products so carried are exported, and in such cases only.

That this rebate be such as to reduce the tolls to two cents per ton of the said products or any of them, and that the conditions of such refund be the following:—

That the products aforesaid on which the rebate of tolls may be claimed shall be shown to have been originally shipped for Montreal or for some port east of Montreal and shall be shown to have been carried to Montreal or to some port east of Montreal, and actually sent out of the country.

That the right to this rebate shall not be lost by reason of intermediate transhipment, provided that the place of such transhipment is one within the Dominion of Canada.

That the right to this rebate shall extend to any portions of cargoes lightered at Port Colborne and re-shipped at Port Dalhousie, and also to shipments of the above named products made from any Canadian Lake Ontario port.

That payment of the amount to be refunded be made, from time to time, as cargoes of the said products are despatched for export from Montreal or from some port east of Montreal.

That this Order in Council remain in force for the present year, 1892, only.

This refund was made applicable by Order in Council of the 15th July, 1892, to the above named products when shipped from any Lake Ontario ports.

There were 195,224 tons of grain passed down the Welland Canal and transhipped at Canadian ports to Montreal, and exported out of the country, during the season of 1892, upon which a refund was made of 18 cents a ton, Welland Canal tolls to the amount of \$35,140.32.

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 eleven years, is as follows:—

·	,	QUANTITY ON WHICH	H FULL TOLLS WERE
QUANTITY PASSED DOWN TO MON	TREAL.	To Ports in Ontario.	Quantity from U.S. Ports to U.S. Ports.
	Tons.	Tons.	Tons.
882	180,694		63,881
883	186,814	10,650	121,876
884	142,194	12,153	104,537
885	96,569 2 03,940	11,909 9,881	117,346
887	185,034	11,838	151,551 134,868
888.	160,358	25,599	169,664
889	267,769	19,075	213,766
890	228,513	16,899	245,932
891	* 295,509	6,805	202,710
892	+ 261,954	8,942	201,540

A refund of 10 cents per ton was allowed on grain passed down the Welland and St. Lawrence Canals to Montreal, for 1884, and to June, 1885, and 18 cents per ton from 1st July, 1885, to December, 1891, and 18 cents a ton on the quantity passed down to Montreal and exported out of the country during the season of 1892.

During the last decade the quantity of agricultural products, as above, passed down the Welland and St. Lawrence Canals to Montreal, has increased from 186,814 tons to 261,954 tons; and the quantity passed down the Welland Canal, from United States ports to United States ports, has increased from 121,876 to 201,540 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 11 years, is reported as follows:—

	Tons.
For 1882	75,026
1883	98,672
1884	142,231
1885	160,821
1886	
1887	191,760
1888	113,794
1889	94,943
1890	119,208
1891	184,410
1892	291,680

^{*}Of this quantity 17,817 tons of corn and wheat were transhipped at Ogdensburg. †Of this quantity 4,341 tons of wheat were transhipped at Ogdensburg.

Canal Statistics.

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	1882	230,055
	1883	263,368
	1884	174,496
	1885	134,824
	1886	272,133
	1887	237,881
	1888	166,191
	1889	
	1890	,
	1891	
	1892	

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 SEABOARD 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 1891'	
Showing a decrease of	17,535

The quantity of grain and pease carried to Montreal via Canadian Pacific and Grand Trunk Railways, is reported as follows:—

For 1891	,
Showing an increase of	107,270

The quantity of grain arrived at tidewater by New York Canals, is reported as follows:—

For 1891	1 ons. 1,055,278
1892	899,313
Showing a decrease of	155,965

The quantity of grain carried to tide-water by the New York railways, is reported as follows:—

For 1891	 Tons. 2.356.660
1892	
Showing an increase of	 2,158,381

The increases and decreases for 1892, as compared with 1891 on the several routes, competing for the carrying trade to the seaboard, 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	107,270 2,158,381	17,535 155,965	58·16 91·58	5.48

By reference to Appendix U, it will be seen that the quantity of freight from ports west of Port Colborne to United States ports, on the south of Lake Ontario, has increased from 175,455 tons in 1883, to 330,403 tons in 1892; and the quantity to Ontario ports, between Port Dalhousie and Cornwall, has decreased from 184,502 tons in 1883, to 69,886 tons in 1892. The quantity passed down to Montreal shows an increase from 205,394 tons in 1883, to 267,485 tons in 1892.

TRANSHIPMENT OF GRAIN.

The quantity of grain passed down the Welland Canal in Canadian and United States vessels to Kingston for seven years, is as follows:—

In Canadian vessels, there were in-

				Tons.
1886, 244	cargoes, with an	aggregate quantity	of	143,330
1887, 284	do	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

In United States vessels, there were in-

•	1886,	97	cargoes, with an	aggregate quantity	of	Tons. 62,222
	1887,		dó	do		•
	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

Two Canadian vessels took their cargoes of 924 tens of grain through to Montreal intact in 1892, against three in 1891 with 1,441 tens, and three in 1890 with 1,281 tens.

Twenty-five Canadian vessels lightened their cargoes at Kingston in 1892, against 44 in 1891, and 63 in 1890.

Two hundred and twenty discharged the whole of their cargoes at Kingston in , 1892, against 293 in 1891, and 172 in 1890.

The quantity of grain transhipped at Port Colborne in 1892 and the three previous years is given below. The total number of grain laden vessels lightened at this port in 1892, was 74, against 81 the previous year:—

Variety.	1889.	1890.	1891.	1892.
,	Bush.	Bush.	Bush.	Bush.
Wheat Corn' Rye Oats	37,222 254,690 Nil. 8,218	4,310 773,687 Nil. 44,294	16,665 482,802 1,330 130,276	68,736 576,289 2,467 102,529

The quantity discharged in this port from vessels which did not enter the canal was as follows:—

Variety.	1889.	1890.	1891.	1892.
Wheat	Bush. 8,608 Nil. Nil. Nil.	Bush. Nil. Nil. Nil. Nil. Nil.	Bush. 16,628 Nil. Nil. Nil.	Bush. Nil. Nil. Nil. Nil. Nil.

The total quantity of freight moved on the Welland Canal during the season of 1892, was 955,554 tons; of this quantity 929,946 tons was through freight, and 25,608 tons were way or local freight.

WELLAND CANAL.

East and West-bound Freight.

There were 685,348 tons of freight passed eastward, and 270,206 passed westward.

The total quantity of freight passed through the whole length of the Welland Canal during the season of 1892 was 929,946 tons.

Of this quantity 263,680 tons were west bound and 666,266 tons east-bound freight.

Of the through east-bound freight Canadian vessels carried 245,739 tons and United States vessels carried 420,527 tons; and of the west-bound freight Canadian vessels carried 22,267 tons and United States vessels carried 241,413 tons.

Of the total quantity of through freight Canadian vessels carried 268,006 tons, and United States vessels carried 661,940 tons.

The total quantity of freight moved on the St. Lawrence Canal during the season of 1892 was 966,755 tons. Of this quantity 518,273 tons were through freight, and 448,482 tons were (way) or local freight.

ST. LAWRENCE CANALS.

East and West-bound Freight.

Of the total quantity of freight passed through the canals during 1892, there were 720,580 tons passed eastward and 246,175 tons passed westward.

The total quantity of through freight was 518,273 tons; of this quantity 486,314 tons was east bound and 31,959 tons was west bound.

Of the total quantity of (way) or local freight, 234,266 tons were east bound and 214,216 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 twelve years, is as follows:—

	Eastward, to Montreal Tons	Westward, from Montreal. Tons.
1881	169,213	37,190
1882	. 108,835	24,488
1883	205,394	27,488
1884	168,715	9,425
1885	. 132,968	16,115
1886	244,514	16,801
1887	213,834	14,075
1888	183,899	19,310
1889	298,197	25,370
1890		31,951
1891		14,060
1892		9,452

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 twelve years, is as follows:—

as lollows.	Eastward. Tons.	Westward. Tons.		Total.
1881	96,266	97,907		194,173
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	244,916	239,562		484,478
1887	189,427	151,074		340,501
1888	221,062	213,689		434,751
1889	297,353	266,231		563,584
1890	318,259	215,69 8	-	533,957
1891	306,257	247,543		553,800
1892	300,733	240,332	 ,	541,065

The total quantity of freight passed through the Welland Canal from United States ports to United States ports, shows a decrease of 12,735 tons as compared with the previous year; and an increase of 346,892 tons as compared with 1881.

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 937,999 tons in 1892, against 1,092,355 in 1891 and 1,167,901 in 1890.

The quantities of vegetable food carried by the New York Central, Erie and New York, West Shore and Buffalo Railways being:—

		Tons.		i i	Tens.
ĺη	1892	(5,913,013	In	1885	4.105,594
	1891			1884	
	1890			1883	4,422,461
	1889	3,654,984		1882	, ,
	1888*			1880	
	1887			1869	
	1886				-, ,

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-two years:—

	Canals.	Railways.	Total.	Proportion by Canals.
	Tons.	Tons.	Tons.	
369	1,302,613	1,087,809	2,390,342	545
370	1,295,010	1,766,457	3,061,467	423
371	1,850,198	2,205,589	4,055,787	456
372	1,674,320	1,870,614	3,544,934	472
373	1,745,171	2,036,992	3,782,163	461
874	1,767,598	2,791,517	4,559,115	387
375	1,305,550	2,343,241	3,648,791	357
376	1,064,293	2,875,803	3,940,096	270
377	1,498,984	2,493,683	3,992,667	375
378	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
882	1,118,776	3,885,557	5,004,333	223
883	1,379,000	4,422,461	5,801,461	223
384	1,236,986	3,639,805		
885			4,876,791	253
386.	1,063,310	4,105,594	5,168,904	205
	1,489,886	3,802,262	5,292,148	281
87	1,539,403	3,847,766	5,387,169	285
388	1,166,958	3,197.734	4,364,692	267
389	1,296,896	3,654,984	4,951,880	262
390	1,167,901	4,336,199	5,504,100	212
391	1,092,355	3,565,381	4,657,736	·234
392	937,999	5,913,013	6,851,012	137

^{*}Flour and grain only.

The total quantity of freight passed through the several divisions of the canals during the season of 1892 is as follows:—

· · · · · · · · · · · · · · · · · · ·	Farm Stock.	Forest, Produce of Wood.	Manu- factures.	Merchandise	Agricultural Products.	Total.
Welland St. Lawrence Chambly Ottawa. Rideau St. Peter's Murray Trent Valley	913 255 1,070 33	140,175 112,523 162,216 628,449 73,443 4,572 6,203 22,317	15,182 51,052 3,833 320 2,916	271,536 337,595 96,370 8,010 16,154 41,684 3,057	528,569 464,672 8,092 9,162 3,820 12,786 3,757	955,554 966,755 270,766 647,011 96,366 59,042 13,729 22,513

The total quantity of freight moved on the Welland was 955,554 tons, of which 528,569 tons were agricultural products.

On the St. Lawrence Canals, the total quantity of freight moved was 966,755 tons, of which 464,672 tons were agricultural products, and 337,595 tons were merchandise.

On the Ottawa Canals, the total quantity of freight moved was 647,011 tons, of this quantity 628,449 tons were the produce of the forest.

The total quantity of freight moved on all the canals for the season of 1892 was 3,031,736 tons.

NORWAY TO CHICAGO.

During the month of May the steam-ship "Wergerland," of Bergen, Norway, passed up the St. Lawrence and Welland Canals with a cargo of fish from Norway to Chicago, and returned on the 6th of June with a cargo consisting of 176 tons of flour, 294 tons of wheat and 29 tons of meat.

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:—

	Per	r cent.	Marie Control of the	Per cent.
In 18	59 (68.9	In 1881	18.5
18	69 4	17.0	1882	19.0
18'	70	38.9	1883	18.7
18	71	38.9	1884	
18	72	40 · 1	1885	
18	73	34.9	1886	
18	74	31.7	1887	
18	75 2	28.4	1888	
18	76	24.6	1889	
18	77 2	28.3	1890	
18	78	27 · 1	1891	
	79 2	- 1	1892	
	80		=, 	

The quantity of freight carried by the canals and railways was greater in 1892 by 5,094,390 tons than the quantity carried in 1891 and an increase of 31,165,395 tons over 1869.

The quantities carried were as ic	onows:—		m .:
		Total Tonnage.	Proportion by
			Canals.
In 1859		, ,	· 6 890
1869		, ,	•4705
1870		, ,	$\cdot 3895$
1871		•	$\cdot 3896$
1872	•••••••	16,631,609	$\cdot 4012$
1873		18,200,208	$\cdot 3497$
1874	•• •• • • • • • • • • • • • • • • • • •	18,283,547	.3174
1875		. 17,101,758	$\cdot 2841$
1876		. 16,948,627	$\cdot 2462$
1877		. 17,489,770	$\cdot 2833$
1878		. 19,017,301	$\cdot 2719$
1879		. 22,590,766	2373
1880		25,706,586	.2512
1881		. 27,857,394	$\cdot 1859$
1882		. 28,693,054	.1905
1883	····	. 30,167,119	· 1877
1884			1905
1885		. 27,543,948	·1718
1886			·1698
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	$\cdot 0982$
		• •	
Average freight rates, grain, Ch	icago to Buffal	o :—	
Year. Wh	eat. Year.		Wheat.
	-		
1000			1 0

Handling charge to vessel on grain, \$3.50 to \$4.00 per 1,000 bushels.

 $2 \cdot 5$

3.5

 $2 \cdot 1$

 $2 \cdot 0$

1882.....

1883.....

1884.

1885

"Wheat was shipped from Duluth to Kingston, Ont., during the season of 1887, at $6\frac{1}{4}$ to $7\frac{3}{4}$ cents; in 1888, at 4 to 5 cents; in 1889, at —; in 1890, at $5\frac{3}{4}$, $5\frac{1}{2}$, $4\frac{1}{2}$, $4\frac{1}{4}$, 4 cents; in 1891, during May, $3\frac{3}{4}$, $3\frac{1}{2}$, 3, $2\frac{1}{2}$ cents; during June, 3 cents; and on 25th July, $2\frac{1}{2}$ cents; and in 1892, 5 cents in April; $5\frac{1}{4}$ cents in May; 4 cents in June; $4\frac{1}{2}$ cents in July; 3 cents in August; and 6, $6\frac{1}{4}$ in October, per bushel."

 $1 \cdot 9$

2.5

1890.....

1891.....

1892.....

Average fifteen years...

SAULT STE. MARIE CANAL.

The following is the comparative statement showing the trade through the Sault Ste. Marie Canal, for the years 1891 and 1892:—

Steam and sail vessels. Lockages Tonnage, registered do freight Passenger Number. Number. Number. Number.	10,191 4,891 8,400,385 8,888,759 26,190	12,58 5,86 10,647,20 11,214,33
Tonnage, registered net tons. do freight	8,400,385 8,888,759	10,647,20
do freight	8,888,759	
Passenger		1 11 214 33
Coal net tons.		
		25,89
	2,507,532	2,904,26
Flour barrels.	3,780,143	5,418,13
Frain bushels.	39,848,674	42,661,47
Manufactured, and pig iron net tons.	69,741 234,528	59,77
balt barrels.	69,190	41,74 64,99
Copper net tons.	3,560,213	4,901,13
ron ore	366,305,000	512,844,00
Silver ore, bullion net tons.	1.731	1.93
Building stone	44.080	39,69
T 1 20 16 11.	417,039	459,14

Total valuation	of property,	1886\$	69,080,071 95
do	do	1887	79,031,757 78
do	do	1888	82,156,019 97
do	do	1889	83,732,527 15
do	do	1890	102,214,948 70
do	do	1891	128,178,208 51
do	do	1892	135,117,267 10
		_	

ERIE CANAL.

Mr. Hannan, Superintendent of Public Works, Albany, reports on the traffic through the Eric Canal, for 1892, as follows:—

TONNAGE.

"The whole number of tons of freight carried upon the canals of this state for the season of 1892 was 4,281,995 tons, and was composed of the following described classes of articles:—

•	Tons.
Produce of the forest	1,249,381
Agriculture	1,038,851
Manufactures	
Merchandise	
Other articles	1,575,514
Total	4,281,995

Of the total tonnage moved 2,404,484 tons were through freight, and 1,877,511 tons were way freight, and 2,986,070 tons went east, 1,295,925 tons went west.

"Comparing the tonnage of the past season with that of 1891 there is shown to be a loss of 281,447 tons, which is attributable to the fact that the railroads have advanced their equipments to such a degree that they are able to carry freight as cheaply by rail as it can be done by canal. This is especially so in such articles as grain, stone and clay, anthracite and bituminous coal, and iron and other ores, which, together with lumber, make up ninety per cent of the merchandise usually transported by canal.

"In my annual report submitted to the legislature in 1891 I directed attention to the improvements made by railroads as compared with the improvements made to the canals of this state for the past several years. The statements made then have since been corroborated by the fact that the railroads have been able to carry freight at a rate which would have been unprofitable to the canal boatmen, and in consequence the canal did not get its share of the carrying trade.

"This was the case during the early part of the season of navigation, and was continued for two months. With the ripening of the crops and the consequent shipment of grain to the seaboard, prices became remunerative to the boatmen and the volume of shipments increased.

"It will be noted, however, that as the railway improvements are perfected, the tonnage of the competing railroads increases, while there is a decrease in canal shipments to a greater or less degree.

"The following is the tonnage of the canals and the principal competing lines each year since the abolition of tolls on the canals:—

Year.	Canals.	New York Central Railway.	Erie Railway.
	Tons.	Tons.	Tons.
1883.	5,664,056	10,892,440	13,610,623
1884′		10,212,418.	16,219,598
1885.		10,733,499	10,253,489
1886.		12,636,435	18,668,235
1887		14,531,726	13,949,260
1888		15,162,812	15,174,009
1889		15,011,541	15,084,132
1898.		16,108,441	16,269,656
1891	4,563,472	16,621,567	17,339,140
1892.		20,721,752	18,334,716

IMPROVEMENTS.

"What improvements can be made to the canal to meet its wants and place it on a footing to compete with other carrying routes, so as to continue its use as a great freight regulator and to place it in such a condition that it will remain a benefit to the people of the state? This question has agitated the ingenious minds of a great many people. Various methods have been proposed and considered. Among them one method has been to lengthen the locks so as to permit two boats to be locked at once, thereby saving expense to boatmen in transportation by enabling them to tow two boats by using a less number of horses and men, also reducing the time of transportation between Buffalo and tide water. This improvement has been tried, and while it has been of some benefit, it is still inadequate for the occasion.

"There are two other propositions for improvement being offered, one to increase the speed by power other than horses, and the other to increase the capacity of boats by either deepening the canal or raising its banks, thereby enabling it to get a greater depth of water.

"The question of deepening the canal would require a great expenditure of money, as it would cause the rebuilding of all its structures. The proposition of

raising the banks would be the most feasible of either of these suggestions, as the present structures could be utilized by increasing their height. The other proposition is to increase the motive power and thereby increase the speed of boats; this should be considered very favourably. The power to be considered is electricity, for the great natural facilities for generating such power along the line of the canal are very favourable."

The usual detailed statements in explanation of the various points referred to and of in transit trade are hereto appended.

(From Reports of Geo. F. Stone, Secretary, Board of Trade, Chicago.)
QUANTITY and Value of Exports from Chicago to Canada, by Lake, 1892.

	United St	ATES VESSELS.	AN VESSELS.	TOTALS.		
	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
		\$ cts.		\$ cts.		
WheatBush.	1,453,677	1,077,964 48	641,562	494,153 75	2,095,239	1,572,118 23
Corn	1,502,528	712,679 03	748,566	377,647 59	2,251,094	1,090,326 62
Oats"	35,925	11,855 00	1		35,925	11,855 00
Rye "	156,870	123,792 60	181,780	132,418 97	338,650	256,211 57
Flax seed "	31,675	32,774 08			31,675	32,774 08
Timothy seed "			141	185 00	141	185 00
Flour Brls.			1,795	8,000 00	1,795	8,000 00
Corn meal "	50	150 00			50	150 00
Pork "	50	612 50	l		50	612 50
Beef"	20	142 50	709	6,950 00	729	7,092 50
Lard "	20	235 12			20	235 12
Gen'l merchandise Pkgs.			87	870 00	87	870 00
Total value		1,960,205 31		1,020,225 31		2,980,430 62

SHIPMENTS of Grain (in transit and export) from Chicago, by Lake, during 1892.

	Con	RN.	OA	rs.	WHEAT.	RYE.	m
Shipped to	Export.	In Transit.	Export.	In Transit.	Export.	Export.	TOTALS.
Christianssand, Norway and Sweden Collingwood, Ont Kingston, Ont Midland, Ont Montreal, Que Point Edward, Ont Prescott, Ont Sarnia, Ont Toronto, Ont	1,786,202 265,917 107,662 66,313	21,519	Bushels. 35.925	1,016,391	Bushels. 9,800 2,041,002 44,437	Bushels. 230,246 108,404	Bushels. 9,800 21,519 4,057,46,320 260,503 807,610 66,313 1,412,327 25,000
Totals	2,251,094	2,191,744	35,925	1,694,191	2,095,239	338,650	8,606,84

GRAIN FREIGHT BY LAKE AND ERIE CANAL.

The following were the current rates of freight on wheat and corn from Chicago to Buffalo, Ogdensburg or Kingston, and to Montreal (steam); also to New York by Lake and Erie Canal, for each week during the season of navigation in 1892:—

(From Report, Board of Trade, Chicago.)

Wrek	To Bu	FFALO.	То Ки			NTREAL	Erie (Buffalo to	Canal, New York.	CHICAGO TO LAKE AN INCLUDING CHAI	D CANAL, BUFFALO
,	Wheat per Bushel	Corn per Bushel	Wheat per Bushel	Corñ per Bushel	Wheat per Bushel	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 16, do 23, do 34, do 34, do 34, do 34, do 34, do 34, do 34, do 36, do 36, do 36, do 36, do 36, do 36, do 36, do 36, do 36, do 36, do 36, do 36, do 36, do 36, do 36, do 36, do 36, do 37, do 36, do 37, do 37, do 37, do 38, do 38, do 38, do 38, do 38, do 38, do 38, do 38, do 39, Nov. 5, do 12, do 49, do 26, do 38, do 39		312 1111111111112 2 1244 1444 1444 1444	3 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	23 31 22 23 23 21 31 31 31 31 31	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	43 43 42 4 4 64 64 52	to 22222 22333344444566545	10 22 22 22 22 22 22 22 22 22 22 22 22 22	10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1471-1474-14-14-14-14-14-14-14-14-14-14-14-14-14

Lake Freight from Chicago to Buffalo on Wheat and Corn, reported as follows, by William Thurstone, Secretary Merchants' Exchange, Buffalo.

STATEMENT showing the dates of the changes in the ruling rates of lake freights on wheat and corn from Chicago to Buffalo during 1892.

1892.	Wheat, bush.	Corn, bush.	1892.	Wheat, bush.	Corn, bush.
	Cts.	Cts.		Cts.	Cts.
April 4. do 6. do 8. do 9. do 11. do 12. do 18. do 20. do 21. do 22. do 23. do 26. May 5. do 21. do 26. June 6. do 30. July 1. do 23. do 25. do 25. do 25. do 25. do 26.	3 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	22	July 27. Aug. 1 do 2. do 5 do 11 do 12 Sept. 9 do 10 do 24 Oct. 10 do 19 Nov. 2. do 4 do 5 do 11 do 12 sept. 9 do 10 do 11 do 19 do 11 do 19 do 10 do 11 do 19 do 5 do 11 do 5 do 11 do 5 do 11 do 5 do 11 do 12 do 15 do 15 do 15 do 17 do 21 do 25 to Dec. 4	2 to 2 to 2 to 2 to 2 to 2 to 2 to 2 to	13 to 2 2 1 1 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2

Note.—Rates from Milwaukee about the same as from Chicago. As a rule oats one-quarter cent less than corn.

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:—

		June.				Oct.	Nov.
Grain.	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.
1883 { Wheat	3·0 2·7	${f 2^{+}5} \ {f 2^{+}2}$	${f 2}^{+}{f 5} \ {f 2}^{+}{f 2}$	$3.8 \\ 3.5$	4·6 4·3	3·8 3·5	4·0 3·7
Highest rate, wheat, 1883, 54c.							
1884 (Wheat	2·2 2·0	${f 2 \cdot 2} \\ {f 2 \cdot 0}$	$\frac{2\cdot 0}{1\cdot 7}$	1·9 1·6	$\begin{array}{c} 2 \cdot 1 \\ 1 \cdot 9 \end{array}$	$egin{array}{c} 2 \cdot 0 \\ 1 \cdot 6 \end{array}$	${f 2 \cdot 3} \ {f 2 \cdot 1}$
Highest rate, wheat, 1884, 3c.;							
1885 { Wheat	. 2·1 1·8	${f 1}^{ \cdot}{f 3} \ {f 1}^{ \cdot}{f 2}$	1·3 1·1	$\begin{array}{c} 1.8 \\ 1.5 \end{array}$	1·6 1·4	$\substack{3^{\cdot}1\\2^{\cdot}2}$	${f 3 \cdot 2} \\ {f 2 \cdot 8}$
Highest rate, wheat, 1885, 33c.	; lowest	, 1·1c. ; av	verage for	the seaso	n, 2c.		
1886 Wheat	3·1 2·8	${f 2 \cdot 7} \\ {f 2 \cdot 5}$	$\begin{array}{c} 2 \cdot 7 \\ 2 \cdot 5 \end{array}$	${f 3} \cdot {f 2} \ {f 2} \cdot {f 9}$	4·5 4·2	4·8 4·6	$\frac{4\cdot 3}{4\cdot 0}$
Highest rate, wheat, 1886, 53c.	; lowest	, 2c.; ave	rage for tl	he season,	3.6c.	i	
1887 { Wheat	. 3·4 . 3·1	5·1 4·7	$3.8 \\ 3.5$	$\frac{3.5}{3}$	4·1 3·8	4·7 4·4	3·6
Highest rate, wheat, 1887, 6c.							
1888 { Wheat	. 2·1 . 1·8	1·9 1·7	$\substack{2 \cdot 2 \\ 1 \cdot 9}$	3·2 2·9	$\frac{3 \cdot 5}{3 \cdot 2}$	2·4 2·1	$2.5 \\ 2.3$
Highest rate, wheat, 1888, 4c.;	lowest,	1.7c.; ave	erage for t	he season	, 2·7c.		
1889 { Wheat	$2 \cdot 2$ $2 \cdot 0$	$\begin{array}{c} 2 \cdot 0 \\ 1 \cdot 8 \end{array}$	$\substack{2\cdot1\\1\cdot9}$	$\begin{array}{c} 2 \cdot 7 \\ 2 \cdot 4 \end{array}$	$\frac{3\cdot 0}{2\cdot 7}$	3·0 2·7	$2^{+}5 \\ 2^{+}3$
Highest rate, wheat, 1889, 3.6c	.; lowes	t, 2c.; av	erage for	the seasor	, 2·5c.		
$1890 egin{cases} ext{Wheat} & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & $. 1·8 . 1·6	2·2` 2·0`	$\begin{array}{c} 2.3 \\ 2.0 \end{array}$	$1.5 \\ 1.3$	$\substack{2\cdot 0\\1\cdot 8}$	$\begin{array}{c} 1.8 \\ 1.6 \end{array}$	$\frac{2\cdot 0}{1\cdot 8}$
Highest rate, wheat, 1890, $2\frac{1}{2}$ c.							
1891 { Wheat						$2 \cdot 2 \\ 2 \cdot 1$	4·1 3;8
Highest rate, wheat, 1891, 5½c.	; lowest	, 1c. ; ave	rage for tl	he season,	2.4c.		
$1892 egin{cases} ext{Wheat} & \cdots & \cdots & \cdots & \cdots \\ ext{Corn} & \cdots & \cdots & \cdots & \cdots & \cdots \end{cases}$. 1·9 . 1·7	$\begin{array}{c} 1.8 \\ 1.6 \end{array}$	$\begin{smallmatrix}2&0\\1&8\end{smallmatrix}$	${f 2 \cdot 3} \\ {f 2 \cdot 1}$	$2.3 \\ 2.1$	$2.3 \\ 2.1$	$\frac{2.6}{2.3}$
Highest rate, wheat, 1892, 3c.	lowest,	1c.; aver	age for th	e season,	2·2c.		

LAKE FREIGHTS FROM DULUTH TO BUFFALO ON WHEAT.

The following statement shows the dates of the changes in the ruling rates on wheat from Duluth to Buffalo during the season of 1892, on the dates specified:—

Date, 1892.	Rate.	Date, 1892.	Rate.
Opening to May 7. May 16 June 4 do 18 do 25 July 9 do 16 Aug. 2 do 6 do 20	31 21 22 3 31 3 to 31	Aug. 27 Oct. 1 do 15 do 22 Nov. 5 do 12 do 17 do 26 do 30	Cents. 3 3 3 4 4 3 4 3 4 3 4 4 4 4 4

In 1885 the range of freight on wheat, Duluth to Buffalo, was $1\frac{1}{2}$ to 5 cents; in 1886, $3\frac{1}{4}$ to 8 cents; in 1887, 5 to 8 cents; in 1888, 2 to 5 cents; in 1899, 2 to 5 cents; in 1890, 2 to 5 cents; in 1891, $1\frac{1}{4}$ to $9\frac{1}{2}$ cents; and in 1892, $2\frac{1}{4}$ to 4 cents per bushel

The first arrival by lake at Duluth, in 1892 on 21st April, in 1891 on 30th April, in 1890 on 23rd April, in 1889 on 20th April, in 1888 on 12th May, in 1887 on 8th May, and in 1886 on 4th May.

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 year:

' Grain.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.
		Cents.			Cents.	Cents.	Cents.
1883 $\left\{egin{array}{lll} ext{Wheat} & \dots & \dots \\ ext{Corn} & \dots & \dots \end{array}\right.$. 5·0 . 4·5	4·3 3·9	$3.6 \\ 3.9$	4 6 4 3	$\begin{array}{c} 6.3 \\ 5.9 \end{array}$	5·5 5·0	4·6 4·1
Highest rate, wheat, 1883, 6.5						•	•
1884 Wheat Corn	. 3·8 . 3·4	3·4 3·1	3.6 3.2	4 2 3 8	4·7 4·2	5·0 4·4	${f 4 \cdot 7} \\ {f 4 \cdot 2}$
Highest rate, wheat, 1884, 5.5	c. ; lowes	it, 3°2c.;	average to	or the sea	son, 4 2c.		
1885 { Wheat	. 4·2 . 3·8	${f 3 \cdot 1} \\ {f 2 \cdot 9}$	3·0 2·8	3·7 3·3	3, 5 3, 2	4·2 3·9	5·0 4·5
Highest rate, wheat, 1885, 6c.	lowest,	3c. ; aver	age for th	e season,			
1886 Wheat	. 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, wheat, 1886, 6 5	c. ; lowes	t, 3c. ; av	erage for	the season	n, 5c.		
1887 { Wheat	. 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	a, 4 6.		
1888 { Wheat	. 3·4 . 3·1	2.5 2.3	.2·5 .2·3	4:1 3:8	3 9 3 6	3·7 3·4	3·5 3·2
Highest rate, wheat, 1888, 4.5		-		,		•	**
$1889 \begin{Bmatrix} \text{Wheat.} \\ \text{Corn.} \\ \\ \end{bmatrix}$. 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 wheat, rate, 1889. 5c.	; lowest,	3 7c. ; av	erage for	the seasor	ı, 4 [.] 8.		
1890 { Wheat	. 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					ı, 3·8.		,
1891 { Wheat	. 2·8 . 2·5	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, 4 3					on, 3 5c.		
1892 { Wheat	. 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,	2åc. ; ave	rage for t	he season,	3 · 5c.		

NOTE.—Canal free of tolls.

FREIGHTS, 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:—

Year.	Grain received.	Average Canal Freight on Wheat.	Tolls on Wheat.	Elevating, including Storage.
	Bush.	Cts.	Cts.	Cts.
1870.	32,208,039	11.2	3.1	14
1871	61,319,313	12.6	3.1	īĪ
1872	58,703,666	13.0	3.1	1 11
1873.	65,498,955	11.4	3.1	1 11
1874	55,660,198	10.0	3.1	11
1875	52,833,451	7.9	2.0	14
1876.	44,207,121	6.6	2.0	1 1
1877	61,822,292	7.4	1.0	1 1
878.	78,828,443	6.0	1 0	1 1
	75,089,768	6.8	1.0	1
	105,133,009	6.5	1.0	1
880	56,389,827	4.7	1.0	1 7
	51,501,503	5.4	1.0	ļ Ģ
882	65,722,080	4.9		ļ
883	58,011,800	4.2		1 9
884	52,671,090	3.8		\$
1885	75,570,850	5.0	 	\$
886				1 \$
1887	87,073,570	4.6		
1888	78,977,390	3 4		\$
1889	*92,290,550	4.8		1. \$
1890	91,994,680	3.8	1	1 6
1891,	135,315,510	3.5	[8
1892	138,872,560	3.5		78

NOTE.—Prior to 1870 tolls were 6.21 cents a bushel, and the elevating charges 2 cents a bushel.

^{*}Including flax-seed. +Storage varied; five or ten days' limit.

1880.

1881.

1883.

6295 6279 6683 6683 7158 8255 7420

ANNUAL average through 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, from 1880 to 1892.

	(F	repared b	y Secreta	ry of the	(Prepared by Secretary of the Board of Trade, Chicago.)	Trade, Ch	ricago.)	4601 Ou		:	
Shipped to	Articles.	1892.	1891.	1890.	1889.	1888.	1887.	1886.	1885.	1884.	77
		*	•	80	•	•	iso	99	**	••	·
Liverpool	Grain	.3287	.4075	.3187	3958	3490	.3487	.3672	.2943	.4428	
	Sacked flour	.3625	.4187	.3625	.4162	.3371	.3491	.3420	.2887	2985	_
	Provisions	.4575	.5531	. 2109	. 5746	3747	.4073	.4415	3508	.4674	•
Glasgow.	Grain	.3550	4425	0998	.4075	3605	3505	.3910	3228	2641	
op	Sacked flour	9068	.4469	.4188	.4425	.3679	8968	3921	.3443	.2811	
op •	Provisions	.4969	. 5963	. 5833	.6142	.4658	.4855	5329	9807	.4789	: :
London	Grain	3462	.4250	3220		.3802	3948	4086	.2921	. 2783	•
	Sacked flour	.3681	.4328	.4047	.4510	.3776	3784	.4021	3171	3825	
00	Provisions	.41:88	. 5953	. 5813	9619.	.4570	4781	.5471	.4046	.4891	
Antwerp	op	2052	. 2220	4688	76 09	.4472	1961	.5219	. 4327	.5373	•
Hamburg	go	0000	2000	. 5250	. 6262	. 5426	. 5229	.5154	.3842	25.52	•
Amsterdam	op	0000	0009	0009	929	.5426	. 2222	. 2262	.4383	75.434	•
6 Kotterdam	op	2200	0009	0002	00 <u>0</u> 9	. 5426	.5508	. 2262	.4383	4354	•
Copenhagen	op	#603	6375	.5813	.6492	. 5483	8090	.5169	.4951	5434	•
Stockholm	op	.7219	8669.	1 609	.7500	.6671	2986	.5543	5468	2208	•
Stettin	op	609.	.6375	.6813	.6492	5483	8092	.5833	.5210	5422	•
Bordeaux	op	0079	.2200	0999	.7491	.5821	.6021	2208	9909.	. 2003	•

.4922 5423 6871

.3647 .4030 .5183

5651 6732

: : :

THE UNITED STATES IN TRANSIT TRADE.

(Foreign Commerce, Bureau of Statistics, Washington, U.S.)

The in-transit and transhipment transactions of 1892 were distributed as to countries and ports as follows:—

Of the value of merchandise received from British North America, amounting to \$23.928,255, \$19,005,704 came from the provinces of Quebec, Ontario, Manitoba and the North-west Territory, and \$4,922,551 from other British possessions.

The receipts from Europe amounted to \$27,598,909, of which \$21,334,783 came from the United Kingdom, and \$6,264,126 from other parts of Europe. The receipts from the West Indies were valued at \$12,604,194, of which those from Cuba amounted

to \$11,054,445.

Merchandise valued at \$1,260,421 was received from Asia and Oceanica.

Of the shipments from the United States, articles valued at \$26,704,114 were destined for British North America, \$24,189,181 worth of which were shipped to the provinces of Quebec, Ontario, Manitoba and the North-west Territory. The value of shipments to Europe was \$30,317,164, of which merchandise valued at \$20,141,862 was destined for the United Kingdom. The value of shipments to Mexico was \$4,953,911, and of those to the West Indies, \$4,309,014.

The value of receipts of in-transit merchandise at leading ports of entry was as follows:—At New York, \$33,812,074; Portland, Maine, \$5,987,065; Boston, \$4,853,428; New Orleans, \$2,563,336; San Francisco, \$841,198; Galveston, \$199,841; and

at northern border and lake ports, \$16,949,263.

THE CARRYING TRADE.

Values of the imports and exports of merchandise, by geographical divisions and of merchandise in the in-transit and transhipment trade, carried in cars and other land vehicles, in American and in toreign steam and sailing vessels, respectively, during the year ending 30th June, 1892, with the percentages of the total value of such merchandise carried in American vessels.

IMPORTS and Exports.

Geographical	. In Cars and	In America	n Vessels.	In Foreign	Vessels.	Takal	Per cent
Divisions.	other Vehicles.	Steam.	Sailing.	Steam.	Sailing.	Total.	American Vessels.
	*	*	8	*	8	8	
Europe	α3,842,568 64,835,838 α4,268,818	9,634,223 65,642,632 39,721,598 9,202,553 3,581,660 81,993	39,844,178 20,176,046 7,115,038 16,433,955	107,457,299 61,003,808 8,287,870 4,833,581	76,717,992 22,185,267 16,520,430 18,138,384 10,427,092 2,807,416 174,079	183,875,373 99,728,601 88,730,577 10,354,569	
Total	72,947,224	,127,864,659	92,309,076	1,417,588,991	146,970,660	1,857,680,610	11.85

In-TRANSIT and Transhipment Trade.

Total received and						•	_
shipped	, 48,385,275	20,218,417	503,040	54,373,624	552,756	b 139,135,474	14 89

a. Transported through adjacent foreign territory.
 b. Includes \$15,102,362 merchandise carried in vessels of which the nationality and motive power are not known.

"Of the total value of merchandise, amounting to \$827,402,462, imported during the fiscal year 1892, \$39,726,595 came overland, \$139,139,891 in United States vessels, and \$648,535,976 in foreign vessels; of the total value of merchandise exported. amounting to \$1,030,278,148 there was shipped by land vehicles \$33,220,629, by United States vessel, \$81,033,844, and by foreign vessels, \$916,023,675.

It thus appears that, of the imports, only 16.82 per cent of the total value, and

of the exports only 7.87 per cent, were shipped in United States vessels.

Analysing the carrying trade in our foreign commerce by geographical divisions, we find the following percentages of total values carried in United States vessels, to wit:—

Geographical Divisions.	Imports from.	Exports to.
	Per cent.	Per cent
urope,	.98	1.38
orth America	38.05	37.19
outh America	28 42	51.46
.812	16.10	17:41
ceanica. frica	55.00	46.76
frica	9 31	44 05
ll other countries	4.09	10.89

It will be observed that over \$3,000,000 worth of merchandise is returned as imported and exported from and to Europe and Asia "in cars and other land vehicles." This apparent inconsistency is explained by the fact that this merchandise was received and shipped through adjacent foreign territory, and the merchandise having crossed the border of the United States in land vehicles, the transportation

is necessarily so returned.

Of the total value of merchandise shipped in the in-transit and transhipment trade, viz., \$139,135,474, \$48,385,275 was carried in cars and other land vehicles, \$20,721,457 in United States vessels, \$54,926,380 in foreign vessels, and \$15,102,362 in vessels, the nationality and motive power of which were not known. Of the total value of merchandise in the trade only 14.89 per cent was carried in United States vessels. The merchandise valued \$15,102,362, returned as shipped in vessels, nationality and motive power not known, is such merchandise as was shipped across the territory of the United States, the transportation by which the same left the last port of the United States for the foreign countries of destination not being known."

TONNAGE ENTERED AND CLEARED IN THE FOREIGN TRADE OF THE UNITED STATES.

The tonnage entered at ports of the United States in the foreign trade during the year ending 30th June, 1892, as compared with 1891 was as follows:—

	1	891.	1:	892.	INCREASE + I	Decrease—
· 	Number.	Tons.	Number.	Tons.	Tons.	Per Cent.
Entered at Sea Ports.				·		
American— Sailing	3,152 2,626	1,336,468 2,333,904	3,126 2,501	1,427,976 2,318,675	+91,508 15,229	+6·84 — ·65
Total	5,578	3,670,372	5,627	3,746,651	+76,279	+2.08
Foreign— Sailing Steam	6,812 5,607	2,942,115 8,782,124	6,413 7,210	3,044,594 11,389,235	+102,479 +2,607,111	× · 35 +29·69
Total	12,419	11,724,239	, 13,623	14,433,829	+2,709,590	+23.11
Total entered at sea ports.	18,197	15,394,611	19,250	18,180,480	+2,785,869	+18.10
Entered at Lake Ports.						
American Foreign	5,268 9,113	710,432 2,099,252	5,285 8,609	723,304 2,109,640	+12,872 +10,388	+1·81 + ·49
Total entered at lake ports	14,381	2,809,684	13,894	2,832,944	+23,260	+ .83

ELEVATOR CAPACITY, RECEIPTS AND RATES AT BUFFALO.

Mr. Thurstone, Secretary of Board of Trade, Buffalo, reports as follows:—
1892.

Opening of navigation to 10th November. Elevating, receiving, weighing and discharging sound grain, § cent per bushel; for storing each ten days or parts thereof, ½ cent per bushel. Above charge to be paid by the consignee of the grain. No grain will be received for transfer. The vessel paying only the shovelling. November 10th to close of navigation. For elevating, receiving, weighing and

November 10th to close of navigation. For elevating, receiving, weighing and discharging sound grain, per bushel, § cent; storing first ten days or parts thereof, per bushel, ½ cent; storing each succeeding ten days or parts thereof, per bushel, ½ cent, until such charge (accumulated after the first ten days) shall amount to 2 cents per bushel, then the grain shall be free of storage until five days after the opening of canal navigation in 1893. On all grain in store before 10th November, 1892, the charge for winter storage will be ½ cent per bushel for each ten days or parts thereof, until such charge (accumulated after 10th November, 1892) shall amount to 2 cents per bushel, then the grain shall be free of storage until five days after the opening of canal navigation in 1893. Above charge to be paid by the grain. No grain will be received for transfer.

The following are about the charges made by elevators for handling sound car grain:—

Elevating from cars, including shovelling and storing, five or ten days, or parts thereof, one-half of one cent per bushel. Storage each succeeding ten days, or parts thereof, one-quarter of one cent per bushel. Running to side-bin for delivery to

cars and wagons, one-quarter of one cent per bushel. Blowing and cleaning, one-quarter of one cent per bushel.

"The following statement shows the names and storage capacity of the several

grain elevators, transfers and floaters of the port of Buffalo:"-

Names of Elevators.	Capacity.	Names of Elevators.	Capacity.
,	Bushels.		Bushels.
Bennett	801,000	Swiftsun (unused)	.
Brown	250,000	Unior	
City A	600,000	Watson	600,000
City B	800,000	Wheeler	350,000
C. J. Wells	550,000	Wilkeson	
Coatsworth	1,200,000	William Wells (unused)	200,000
Connecting terminal	950,000	william wells (undsed)	
Dakota	850,000	Total, 36 elevators	15 190 000
Dakota Erie Basin (unused)	000,000	Total, of elevators	10,100,000
Erie Canal (Black Rock)	140,000	Transfer Towers—	
		Horton	* 4
Evans Exchange	500,000	Hefford	
Frontier	65,000	Chicago	
Flax Seed	650,000	Fulton	
International (Black Rock)	600,000		
Kellogg		North-west Western Transit	
Lake Shore (unused)	• • • • • • • • • • • • •	western transit	· · · · · · · · · · · · · · · · · · ·
Lyon (unused)	125,000	Total 7 transform	
Marine		Total, 7 transfers	• • • • • • • • • • •
National and Globe Mills	100,000 720,000	Floaters—	
N. Y. L. E. & Western		Cyclone	1
Niagara A		Buffalo	
Niagara B			
Niagara C	200,000	Free Canal	
Ontario		Free Trade	
Queen City, A., B. and C	450,000		
Richmond	250,000	Marquette	
chreck		Total C. Academa	
Sternberg (unused)	300,000	Total, 6 floaters	

Showing a total elevator storage capacity of 15,130,000 bushels of grain; but it may be noted that about twenty per cent should be deducted from this capacity for storage of remnants, working room, and elevators out of repair. The estimated cost of the elevators, transfers and floaters, over \$9,000,000. The transfer capacity for each twenty-four hours would probably aggregate 4,500,000 bushels—that is to say, there are facilities for receiving from lake vessels and railroads, and transporting to canal boats and cars, daily, the quantity named from forty-nine elevators, transfers and floaters.

Of the above list, the connecting terminals, Kellogg, Ontario, Bennett, Niagara B, Dakota, Wilkeson and Evans each have two legs. The terminal, Kellogg and Bennett each have one portable leg, which enables them to work in two hatches of any vessel at the same time. The City B. also has a portable leg, which can be worked in connection with the stationary leg of City A.

(Circular.)

TOLLS TO BE PAID BY VESSELS PASSING THROUGH THE ST. MARY'S FALLS CANAL.

1892. Department No. 145. Bureau of Navigation.

TREASURY DEPARTMENT,

WASHINGTON, D.C., 20th August, 1892.

To Collectors of Customs and others-

For your information and guidance, I append hereto a copy of instructions of this date, addressed to the collector of customs at Marquette, Michigan, relative to tolls to be exacted, under the proclamation of the president, dated the 18th instant, from vessels passing through the St. Mary's Falls Canal.

O. L. SPAULDING,
Acting Secretary.

TREASURY DEPARTMENT, WASHINGTON, D.C., 20th August, 1892.

Collector of Customs, Marquette, Mich.-

Sir,—Your attention is invited to the following proclamation by the president, dated the 18th instant, viz.:—

BY THE PRESIDENT OF THE UNITED STATES OF AMERICA.

A PROCLAMATION.

Whereas, by an Act of Congress, approved 26th July, 1892, entitled "An Act to enforce reciprocal commercial relations between the United States and Canada, and for other purposes," it is provided: "That, with a view of securing reciprocal advantages for the citizens, ports and vessels of the United States, on and after the first day of August, eighteen hundred and ninety-two, whenever and so often as the president shall be satisfied that the passage through any canal or lock connected with the navigation of the St. Lawrence River, the great lakes or the water ways connecting the same, of any vessels of the United States, or of cargoes or passangers in transit to any port of the United States, is prohibited or is made difficult or burdensome by the imposition of tolts or otherwise which, in view of the free passage through the St. Mary's Falls Canal, now permitted to vessels of all nations, he shall deem to be reciprocally unjust and unreasonable, he shall have the power, and it shall be his duty, to suspend, by proclamation to that effect, for such time and to such extent (including absolute prohibition) as he shall deem just, the right of free passage through the St. Mary's Falls Canal, so far as it relates to vessels owned by the subjects of the government so discriminating against the citizens, ports or vessels of the United States, or to any cargoes, portions of cargoes, or passengers in transit to the ports of the government making such discrimination, whether carried in vessels of the United States or of other nations.

"In such case and during such suspension tolls shall be levied, collected and paid as follows, to wit: Upon freight of whatever kind or description, not to exceed two dollars per ton; upon passengers, not to exceed five dollars each, as shall be, from time to time, determined by the president: *Provided*, That no tolls shall be charged or collected upon freight or passengers carried to or landed at Ogdensburg, or any port west of Ogdensburg and south of a line drawn from the northern boundary of the State of New York through the St. Lawrence River, the great lakes and their connecting channels to the northern boundary of the State of Minnesota.

"Sec. 2. All tolls so charged shall be collected under such regulations as shall be prescribed by the secretary of the treasury, who may require the master of such vessel to furnish a sworn statement of the amount and kind of cargo and the number of passengers carried and the destination of the same, and such proof of the actual delivery of such cargo or passengers at some port or place within the limits above

named as he shall deem satisfactory; and until such proof is furnished such freight and passengers may be considered to have been landed at some port or place outside of those limits, and the amount of tolls which would have accrued if they had been so delivered shall constitute a lien, which may be enforced against the vessel in default wherever and whenever found in the waters of the United States," and

Whereas the government of the Dominion of Canada imposes a toll amounting to about 20 cents per ton on all freight passing through the Welland Canal in transit to a port of the United States, and also a further toll on all vessels of the United States and on all passengers in transit to a port of the United States, all of which

tolls are without rebate. And

Whereas, the government of the Dominion of Canada, in accordance with an order in Council of 4th April, 1892, refunds 18 cents per ton of the 20 cent toll at the Welland Canal on wheat, Indian corn, pease, barley, rye, oats, flaxseed and buckwheat, upon condition that they are originally shipped for and carried to Montreal or some port east of Montreal for export, and that, if transhipped at an intermediate point, such transhipment is made within the Dominion of Canada, but allows no such nor any other rebate on said products when shipped to a port of the United States, or when carried to Montreal for export if transhipped within the United States. And

Whereas, the government of the Dominion of Canada, by said system of rebate and otherwise, discriminating against the citizens of the United States in the use of said Welland Canal in violation of the provisions of article 27 of the treaty of Wash-

ington, concluded 8th May, 1871. And

Whereas, said Welland Canal is connected with the navigation of the great lakes, and I am satisfied that the passage through it of cargoes in transit to ports of the United States is made difficult and burdensome by said discriminating system

of rebate and otherwise, and is reciprocally unjust and unreasonable;

Now, therefore, I, Benjamin Harrison, President of the United States of America, by virtue of the power to that end conferred upon me by said act of congress, approved 26th July, 1892, do hereby direct that from and after 1st September, 1892, until further notice, a toll of 20 cents per ton be levied, collected and paid on all freight of whatever kind or description passing through the St. Mary's Falls Canal in transit to any port of the Dominion of Canada, whether carried in vessels of the United States or of other nations; and to that extent I do hereby suspend from and after said date the right of free passage through said St. Mary's Falls Canal of any and all cargoes or portions of cargoes in transit to Canadian ports.

In testimony whereof I have hereunto set my hand and caused the seal of the

United States to be affixed.

Done at the city of Washington this 18th day of August, in the year of our Lord one thousand eight hundred and ninety-two, and of the independence of the United States of America the one hundred and seventeenth.'

BENJ. HARRISON.

[SEAL.]

By the President, John W. Foster, Secretary of State.

On the passage through the canal at St. Mary's Falls, in your district, from and after the 1st proximo, of any vessel with cargo, you will exact tolls as provided for above. But no tolls will be charged or collected as regards freight carried to and landed at Ogdensburg, or any port west of Ogdensburg and south of a line drawn from the northern boundary of the State of New York through the St. Lawrence River, the great lakes and their connecting channels to the northern boundary of the State of Minnesota.

The master of every such vessel will be required to furnish a sworn statement, substantially in the form of a manifest, showing the date, the name of the vessel, its destination, the name of the master, and the number of tons and the kind of merchandise carried. If the destination be such as to exempt the vessel from the tolls,

you will make entry of the fact in a book with columns exhibiting the particulars specified in the master's statement, and also the amounts chargeable and the amounts paid. On the next arrival of the vessel you will exact the tolls, unless on or before that time, and within one month from her passage through the canal, there shall be furnished to you proof of the actual delivery of the cargo at some port or place within the limits of the United States above specified. Such proof will consist of the certificate of the collector of customs at the port of destination, showing the entry of the vessel and the landing of the merchandise there. The certificate will be in the following form:—

CERTIFICATE OF LANDING OF CARGO TRANSPORTED THROUGH THE ST. MARY'S FALLS CANALS.

CUSTOM-HOUSE, PORT OF _____, COLLECTOR'S OFFICE, _____, 189

These are to certify, that there have been delivered at this port from on board the ———, whereof ———— is master, from the port of ————, the following merchandise, *———— transported through the St. Mary's Falls Canal, viz.:

*Specify number of tons.

Should the prescribed evidence not be furnished within a period of one month after the passage of the canal by the vessel, you will report the facts to the department, to the end that measures may be taken by it for the recovery of the amounts due.

The tolls collected will be deposited as miscellaneous receipts, and included in a special account forwarded to the first auditor, in which the total amount received each month will be credited, and the amount deposited debited, and will be entered on stub book (Cat. No. 399), with other collections, as "tolls for passage of vessels through St. Mary's Falls Canal, ————————————————————————————."

An abstract will accompany each account, showing the name of the vessel and of the master, the number of tons of merchandise, the date of the master's state-

ment, and the date of payment.

Receipts for the amounts paid will be given to the payers.

Respectfully yours,

O. L. SPAULDING, Acting Secretary.

(Circular.)

TOLLS, ST. MARY'S FALLS CANAL.

1892. Department No. 161. Bureau of Navigation.

TREASURY DEPARTMENT, WASHINGTON, D.C., 10th September, 1892.

To Collectors of Customs, Northern, North-eastern and North-western Frontiers:

"Tolls, as prescribed by the department's circular No. 145, of 1892, will be collected in the case of vessels passing through St. Mary's Falls Canal, consigned to American ports, but whose manifests state that the cargo is to be exported to Canada, either to be retained there or for export therefrom to a foreign country other than the United States.

When the manifest shows that the final destination of the cargo is the United States, or a foreign place other than Canada, via the United States, whether the merchandise be subject to "shippers' orders" or otherwise, the collector will issue landing certificate accordingly, unless upon investigation he shall find that the

manifest was made out with intent to defraud the United States, or to conceal the true final destination, and that tolls were properly payable, in each case he will withhold his certificate and take measures for the collection of the tolls due."

(Sgd.) O. L. SPAULDING,
Acting Secretary.

(Circular.)

TOLLS, ST. MARY'S FALLS CANAL.

1892. Department No. 166. Bureau of Navigation.

TREASURY DEPARTMENT, 19th September, 1892.

To Collectors of Customs:

Circular No. 161, of 10th September, 1892, relative to tolls on freight shipped in certain cases to ports in the United States via St. Mary's Falls Canal, is hereby suspended, pending further investigation.

O. L. SPAULDING,
Assistant Secretary.

toria.	Sea	ssional Papers (No. 9A.)	A. 18
	British West Indies.	\$ 13,615 98,798 628 11,129,388 11,682 12,830 959 959 17,533	
HIPPED.	New- foundl'd and Labra- dor.	6. 17.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7	
о мнісн 8	British Columbia.	18,274 1,285 334 14,49 238,480 73,259 73,259 60,537	
COUNTRIES TO WHICH SHIPPED.	Nova Sco. Quebec, On- tis, New tario, Man- Brunswek itoba and the and North Ward Territories.	\$,435,894 4,807,155 1,705 1,705 1,705 1,705,119 9,705,473 560,656 709,119 9,705,473 55,217 4,475,548 6,000 137,275 1,406 214,169	
	Nova Sco- tia, New Brunsw'ck in and Prince Ed- ward Island.	3H,640 1,600 42,919 87,988 458,323 3,620 3,620	
	CCSTOMS DISTRICTS FROM WHICH SHIPPED.	Alsaka Baugov, Me Baugov, Me Buthas Buthas Creek, N.Y Desroit, Mich Buluth, Minn Huron, Minn Huron, Minn How York, N.Y New York, N.Y North and South Dakota. Oswegatchie, N.Y Passamaquoddy, Me Puifadeliphia, Pa Portland and Falmouth, 'Me. Puifet Sound, Wash. San Francisco, Cal San Francisco, Cal Vermont Willamette, Ore	
	British West Indies.	774,969	200
RECEIVED.	New- foundland and Labrador.	99 F. F. G. S. S. S. S. S. S. S. S. S. S. S. S. S.	011,000
вом which	British Columbia	22.989 98,748	c la troy
Countries from which Received.	Onebec, On- tario, Man- itobs and the west Territories.	1465,320 1,425,320 1,425,320 1,425,320 1,461,320 947,549 947,549 947,649 940,102 883,133 1,506,091	Ta'acc' (az
	Nova Sco- tia, New Brunsw'ck and Prince Ed- ward Island.	\$,455,894 210,622 771,466 73,722 38,722	4,0%9,00%
*	Customs Districts Into which Received.	Alaska Baltimore, Md Bangor, Me Bangor, Me Baston and Charlestown, Exp. Mass. Chamblain, N. Y Debrott, Mich. Huron, Minn. New York, N. Y Niagara, N. Y Niaga	10tal6

sit across s, and so	Total Value of	Merchandise Received and Shipped.	•••	21,515,604 22,095,984 28,911,860 29,9375,037 20,885,339 20,885,339 20,885,339 20,885,339 20,885,339 20,885,244 20,885,284
Immediate Transit Foreign Countries,		Other Countries.	•	1, 394, 875 1, 289, 871 2, 28, 275 1, 288, 275 1, 288, 281 1, 288, 281 1, 288, 281 1, 288, 281 2, 286, 282 2, 286, 283 2, 286, 286 2, 286, 287 2, 286,
Immedi Foreign		Cubs.	69	116,521 12,875 13,916 319,770 319,771 550,193 246,388 246,389 217,340 117,340 117,340 117,340 117,340 119,376 482,700 688,121 683,138 683,138 1,21,639 683,138 1,21,639 683,138 1,21,639 683,138 866,839 966,839
ign Countries for States to other	ich Shipped	Мехісо.	••	48, 643 321, 331 386, 975 325, 113 326, 974 326, 974 326, 974 336, 987 336, r>337 337 337 337 337 337 337 337 3
<u> </u>	Countries to which Shipped	British North American Poesessions.	**	14,375,419 15,633,637 18,639,637 18,406,476 24,642,796 27,310,739 28,260,235 12,912,928 18,977,153 12,912,635 12,928,935 12,928,938 13,928,938 13,928,938 13,928,938 13,928,938 13,938,938 14,938
other Fore the United	Co	Germany.	•	3.12,123 1,047,002 1,047,002 1,047,002 1,048,303 1,048,3
sipal and Ports of		Great Britain and Ireland.	69	2,025,023 2,946,053 4,031,319 2,748,494 6,381,319 17,229,120 17,729,120 17,778,501 18,77
the Prin		Other Countries.	**	1,576,107 1,767,037 1,908,422 1,908,422 1,244,462 1,244,462 1,756,134 1,756,134 1,721,153 1,721,
ed from Tranship inclusive.	ed.	Cubs.	69	4, 988, 621 1, 373, 474 1, 376, 672 1, 376, 672 1, 776 1,
e Receivon mediate to 1892,	ich Receiv	Mexico.	66	14,967 103,777 110,920 111,920 111,920 111,920 111,920 111,920 111,920 112,920 112,920 113,920
3.—Total. Values of Merchandise Received from the Princ United States Territory or for Immediate Transhipment in Shipped, for each Year from 1868 to 1892, inclusive.	Countries from which Received	British North American Possessions.	•	4,884,209 7,215,973 7,245,073 7,354,060 9,276,169 14,163,690 112,241,636 112,041,636 113,192,02,038 113,193,173 113,173 113,173 113,173 113,173 113,173 113,173 113,173 113,17
Torritory	Coun	Germany.	••	1152, 992 322, 995 322, 196 322, 196 257, 232 327, 232 327, 232 327, 234 327,
No. 3.—Total. Values of United States Territo Shipped, for each Yea		Great Britain and Ireland.	•	10,694,576 10,291,698 13,473,915 17,63,291 18,922,900 18,657,276 14,394,197 14,394,197 14,394,197 14,394,197 14,394,197 14,394,197 14,394,197 14,038,694 11,644,186 11,644,186 11,644,186 11,977,290 13,747,290 14,747,290 14,747,290 14,747,290 14,747,290 14,747,290 14,747,290 14,747,290 14,747,290 14,747,200 14,747,200 14,747,200 14,747,200 14,747,200 14,747,200 14,747,200 1
No. 3.—7 Unit Ship	Voor	ending June 30.		30 1969 1877 1877 1877 1876 1883 1883 1886 1886 1886 1886 1886 188

FOREIGN COMMERCE OF THE UNITED STATES.

No. 4.—Statement showing the Total Value of Imports and Exports and of Gold and Silver Coin in Bullion into and from the United States, by Countries and Customs Districts, during the year ending 30th June, 1892.

.VET		A	IMPORTS.			, E	Exports.			TOTAL IMPORTS AND EXPORTS.	TS AND E	x PORTS.
total Importe a ports.	COUNTRIES.	Value.	Per cent of total group.	Per gent of mental managed.	Domestic.	Foreign.	Total value.	Per cent of total group.	Per cent of total Exports.	Value.	Per cent of total group.	Per cent of lm- total of lm- portsand Ex- ports.
	Europe.	•			•	••	•		~.	99		
-	United Kingdom of Great Britain and Ireland	156,300,881	39.91	18.80	493,957,868	5,357,464	499,315,332	58.70	48.46	655,616,213	52.77	35.29
	British North American Possessions.				:							
63	Nova Scotia, New Brunswick and Prince Edward Island	5,168,218	2.97	79 .	3,387,712	280,178	3,667,890	3.48	8.	8,836,108	3.16	9
	Quebec, Ontario, Manitoba, Kuperts Land and the North-west Territory British Columbia. Newfoundland and Labrador.	26,999,366 2,786,619 380,344	15.51	848	35,827,569 1,790,849 1,574,458	1,854,057 159,432 11,743	37,681,616 1,950,281 1,586,201	35.70 1.84 1.50	3.66 .19 .15	64,680,982 4,736,900 1,966,545	23:13 1:69 17:	8. 8. 1.
	Total	35,334,547	80.98	4.27	42,580,578	2,305,410	44,885,988	42.22	4.36	80,220,535	69.83	4.32

No. 5.—Value of the Imports and Exports of the United States carried respectively in cars and other land vehicles, in American vessels and in foreign vessels during each Fiscal Year, from 1857 to 1892, 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.

FOREIGN CARRYING TRADE.

Year		IMPORTS.		· :	Exports.			FOTAL IMPOR	TOTAL IMPORTS AND EXPORTS.	13.	Percentage carried
ending June 30.	In cars and other	In American vessels.	In Foreign vessels.	In cars and other land vehicles	In American vessels.	In Foreign vessels.	In cars and other land vehicles	In American vessels.	In Foreign vessels.	Total.	in American vessels.
	•	96		**	%	•	₩	**	69	**	
1857		259,116,170	101,773,971		251,214,857 243;491,288			510,331,027 447,191,304	213,519,796 160,066,267	723,850,823 607,257,571	70.5
1859		216,123,428	122,644,702		249,617,953			465,741,381	229,816,211 255,040,793		99.99 00.09 00.09
1860	: :	201,544,055	134,106,098		179,972,733			381,516,788	203,478,278		85.2 50.2
51862		109 744 580	113,497,629		132,127,891			241,872,471	343,056,031		4.14
1864		81,212,077	248,350,818		102,849,409		:	184,061,486	485,793,548		27.2
1865	:	74,385,116	333 471 763		213,671,466			325,711,861	685, 226, 691		32.2
1867		117,209,536	300,622,035		180,625,368		:	297,834,904	581,330,403		5. F.
1868	:	122,965,225	346,609,083		153,154,748			289,956,772	586, 492, 012		33.1
1870		153,237,077	309,140,510	• •	199,732,324			352,969,401	638,927,488 788,829,876		35.58 35.58 35.59
1871	15,187,354		363,020,644 445,416,783	10,015,089	168,044,799			345,341,101	839,346,362		
1873.	17,070,548		471,806,765		171,566,758			346,306,592	966,723,651		, 85.58 7.08
1874	14,513,335		406,320,135 382,949,568		156,385,066			314,257,792	884,788,517		. 80 80 80 80 80 80 80 80 80 80 80 80 80 8
1876	12,148,667		321,139,500	6;324;487	167,686,467		18,473,154	311,076,171	813,354,987		87.2
1878	12,987,999		307,407,565		166,551,624			313,050,906	876,991,129		25.9
1879	11,983,823		310, 499, 599		128,425,339			272,015,692 959 346 577	1 994 965 434		17.18
1880	15,142,465		503,494,913		116,955,324			250,586,470	1,269,002,083		16.22
1882	22.854.946		571,517,802		96,962,919			227, 229, 745	1,212,978,769		15.40
1883	23,003,048		564,175,576		104,418,210			233, 699, 035	1,258,506,024		16.62
1885	20,149,234		443,513,801		82,001,691			194,865,743	1,079,518,566	1,319,717,084	14.76
1886.	24,555,683		491,987,636	_,	78,406,680	581,973,	43,700,350	197,349,503	1,073,911,113	1,314,960,966	10 et

13:80 13:44 13:70 12:29 11:94	l and cur-
1,408,502,979 1,419,911,621 1,487,533,027 1,647,139,093 1,729,397,006 1,857,680,610	were not separately stated prior to July 1, 1870. 2. Exports are stated in mixed gold and cur-
1,165,194,508 1,174,697,321 1,217,063,541 1,371,116,744 1,450,101,087 1,564,559,651	Exports are sta
194,356,746 190,867,473 203,805,108 202,451,036 206,439,725 220,173,735	у 1, 1870. 2.
48,951,725 54,356,827 66,664,378 73,576,263 72,856,194 72,947,224	prior to Jul
621,802,292 606,474,964 630,942,666 747,376,644 773,589,324 916,023,675	arately stated
72,991,263 67,332,175 83,022,138 77,502,138 78,968,047 81,033,844	were not sepa
21,389,666 22,147,368 28,486,517 32,949,902 31,923,439 33,220,629	and vehicles,
648, 392, 216 668, 222, 367 668, 120, 881 623, 740, 100 676, 511, 763 648, 535, 976	in cars and other land vehicles, vive.
123, 565, 493 123, 525, 298 120, 782, 910 124, 948, 948 127, 471, 678 139, 139, 891	~~ D
27,562,069 32,209,459 38,227,861 40,621,361 40,932,755 39,726,595	he amounts 1862 to 1879,
1887 27,562,069 1889 83,280,459 1889 84,227,691 1890 40,532,715 1892 89,726,595	Norms.—1. The amounts carried rency values from 1862 to 1879, inclus

No. 6.—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 1890.

Year ending 30th June.		transit and tritish North A Possessions.			ransit to or tr ish North An Possessions.	
	By Land.	By Water.	Total.	By Land.	By Water.	Total.
	8	*	*	\$		8
871	6,035,585	1,918,475	7,954,060	15,624,591	2,781,884	18,406,475
872	8,237,859	1,038,310	9,276,169	19,357,342	4,685,448	24,042,790
873		1,693,906	13,394,693	20,178,656	6,605,518	26,784,184
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
878		1,899,524	12,204,058	11,914,321	998,364	12,912,68
879		1,982,097	12,081,095	12,030,635	858,952	12,889,58
880		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	24,665,029	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	59 4,982	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	22,187,90
888		2,033,793	8,342,817	13,347,876	2,063,789	15,611,65
889	. 8,303,171	3,032,952	11,336,123	19,299,966	2,849,263	22,149,22
890		2,477,612	16,001,910	24,788,152	2,547,052	27,335,20

Note.—This movement forms no part of the import and export trade.

No. 7.—Statement showing the Kinds and Weights of Commodities, the Produce and Manufacture of the United States, exported from the United States through British Columbia via the Canadian Pacific Railway, to China and Japan during the Year ending 30th June, 1892.

(From Reports furnished by the Canadian Pacific Railway, Treasury Department, Washington.)

			Expor	RTED AT PO	ORT OF		
Articles.	Neche, N. Dakota.	Ogdens- burg, N. Y.	Portland, Oregon.	Richford, Vt.	San Fran- cisco, Cal.	Tacoma, Wash.	Total.
	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.
Beans		14 460			14,160		14,1 0 8 15,040
Beans Books Cotton Canned gooods Flour Ginseng. Glass		685,703		4,252,390		• • • • • • • •	4,938,093
Canned gooods		90,840	15.451.330	• • • • • • • • • • • • • • • • • • • •	24,490 887,800	1.050.000	115, 3 30 18, 00 5,136
Ginseng	15,560	58,720		e e00			74,280
							110,02
Leather	113.825	101.025		7.440	31,320		31,32 222,29
T GIBOHAI GHECOG	0,100	,,,,,,,,,,					10.99
Old glass and iron Soap	1			1	29,610		29.61
Tallow				20.260	22,980		22,986 28,266
Wire				4.220)		4,22
Merchandise, not specified Electric goods	2,550	00,982	22,770	16,580 43,382	33,550		161,43 43,38
Totals	222,185	1.051.795	15,483,500	4,351,742	1,293,124	1,066,000	24,068,340

Weights of Commodities imported into the United States, through British Columbia

	(From Report	ts furnished b	y the Canadi	From Reports furnished by the Canadian Pacific Railway; Treasury Department, Washington.)	lway; Treas	ury Departm	ent, Washing	ton.)		
					Inported at Port of	T Port of				
Articles.	Buffalo, N.Y.	Detroit, Mich.	Neche, N. Dakota.	Ogdensburg, N.Y.	Puget Sound, Wash.	Portland, Oregon.	Rouse Point, N.Y.	Richford, Vt.	San Fran- cisco, Cal.	Total.
	Lbs.	Lbs.	Lbs.	T.bs.	Lbs.	Lbs.	Lbs.	Lbs.	Libs.	Lbs.
Beans	:			7,228	:	38,620	:		17.400	45,848
Coffee			98,632	941,125	181,690	51,366		27,350		2,631,430
Memb						418,800 260,000			; ;	410,000 (868,400) 03,600
Matting.				93,658	10,578	28,210				28,786 2,879
Personal effects Rice Sifts			1,828 905,473 2,644	252,977 252,977 1,035,160	639,385	1,918,172		16,900	652,000	1,064,784
Straw breid Suger Tree Merchandises, not specified	31,660	248,612	5,307,645 28,810	15,978 3,741,813 336,184	525,000 99,791 755,173	901,070 501,720 1,640,154	81,770	47,364 46,928		1,486,070 10,000,895 2,806,749
Totals.	31,680	250,112	6,344,433	5,824,673	2,366,967	7,582,212	31,770	138,542	669,400	23,239,680

No. 9.—Statement showing the kinds and weights of merchandise shipped over the Canadian Pacific Railway from Eastern Ports of the United States to United States ports on the Pacific Coast during the year ending 30th June, 1892.

(From reports furnished by the Canadian Pacific Railway, Treasury Department, Washington.)

			Ports pr	OM WHICH	SHIPPED.		
Articles.	Buffalo, N.Y.	Detroit, Mich.	Neche, N. Dak.	Ogdens- burg, N.Y.	Rouse's Point, N.Y.	Richford, Vt.	Total.
gricultural implements dvertising matter blacking loots and shoes saking powder bricks looks lanned goods lanned goods looting loo	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.
gricultural implements	l		47,400				47,4
dvertising matter				21,860			21.8
Blacking	l					2,712	2,7
loots and shoes	100		39,023	12,128	850	312,017	364,1 20,6
sking powder		••••	725 528	• • • • • • • • • • • • • • • • • • • •			725,5
ooks			120,020			100	1 20,0
anned goods			1,212,115	24,690		69,290	1,306,0
andles			24,000				24,0
estings		28,000		26,140			54,1
lothing		• • • • • • • • • • • •	• • • • • • • •	4,060		40 000	4,0
Onee		;	4	• • • • • • • • • • • • • • • • • • • •	;	40,830	40,8 43,0
Dry goods	··· ·····	• • • • • • • • • • • • • • • • • • • •	140 809	367 454	2 960	266 240	777,4
orugs	1		160	9,420	2,000	200,210	9,5
Carthen, China and glass-				,			.,.
ware			215,388	24,260		2,130	241,7
Carthen, China and glass- ware. Llectric supplies urniture		24,000	28,400	1 13713		20.120	76,5
urniture			148,535	10,120	9,026	5,649	173,3
			69,310				69,3 26,9
rrain, Iardware	452	5,440	473,211	55 370	4,338	34,783	573,5
loops			24,433	00,0,0	1,1,00	01,100	24.4
ratin	560	25,130	148,295	1.820	1,000	40,555	24,4 217,3
ron— Bars, &c Pripe Bolts Rails eather iduor and wines. fachinery. faple sugar. fusical instruments. fails eatheral. bils acking-house products			848,331	67,386	144,866	20,000 	1,080,5
Pipe			198,950	• • • • • • • • • • • • • • • • • • • •	· · · · · · · · · ·		198,9
Bolts		• • • • • • • • •	20,100	••••	• • • • • • • • •		25,1
Calls		• • • • • • • • • • • • • • • • • • • •	1 270	1 010		8.750	283,5 11,0
ignor and wines	1		427,240	1,792		0,150	429,0
fachinery	500	46,250	451,548	87,850		3,200	589,3
Iaple sugar						2,980	2,9
fusical instruments			46,220	140,100	2,363	208,426	397.1
ails			7,300		22,700	{	30,0
atmeal			1,103,943	90 900	• • • • • • • • • • • • • • • • • • • •		53,8
acking-house products			40,560	30,300	· · · · · · · · · · · · · · · · · · ·		1,134,2 40,5
sints			34,073			880	34,9
aper	150		375,609	128.375		243,462	747.5
aintsaperatent medicine			42,140			98,400 32,440	165,2
ailway equipments			20,000	60,000	60,000		140,0
loofing, felt			46,000	1,010			47,0 154,9
ope, cordage, &c	••••••	· · · · · · · · ·	28,120	28,442	• • • • • • • •	98,400	154,9
africaretors			16,000	220	••••	32,440	32,6 16,0
tarch			33,580	198.760			232,3
O&D			33,580 28,790	460		\$20	29,5
teel rails	,		104,550	•			104,5
toves			164,925	420			165,3
yrup			189,450		• • • • • • • • • •		189,4
atent medicine. allway equipments coofing, felt tope, cordage, &c unbber goods tefrigerators tarch oap teel rails toves yrup treet cars			134,500	· · · · · · · · · · · · · · · · · · ·		69,510 32,000	134,5
toneheet metalar			31,000			69,510	31,6 69,5
are mount		l	30.680			09,010	30,6
ins and stamped wareobacco, cigars, &c		1,	66.220	26.120		32,000	124.3
obacco, cigars, &c	\		91 503	300,365		179,482	571,3
Tehicles Varnish Vater gates			47,410	26,120 300,365		16,105	63,5
arnish		64.000	22,900	• • • • • • • • • • • • • • • • • • •			22,9 31,0

No. 9.—Statement showing the kinds and weights, &c. - Continued.

•			Ports fi	ROM WHICH	SHIPPED.		
Articles.	Buffalo, N.Y.	Detroit, Mich.	Neche, N. Dak.	Ogdens- burg, N.Y.	Rouse's Point, N. Y.	Richford, Vt.	Total.
	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.
Wood— Lumber Pulp Woodenware Waste Miscellaneous			177,497		24,000 29,830	26,800	44,070
Total	2,979	159,850	9,254,839	1,933,741	301,933	2,258,731	13,912,07

No. 10.—Statement showing the Kinds and Weights of Merchandise shipped over the Canadian Pacific Railway, from United States ports on the Pacific Coast, to eastern ports of the United States, during the year ending 30th June, 1892.

(From reports furnished by the Canadian Pacific Railway; Treasury Department, Washington.)

		I	PORT TO WI	нісн зніррі	ED.		*
Articles.	Buffalo, N.Y.	Detroit, Mich.	Neche, N. Dak.	Ogdens- burg,N.Y.	Rouse's Point, N.Y.	Richford, Vt.	Totals.
	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.
Hides Hops Household goods Liquors Mincemeat			37,410 1,200	91,650		, 300	22,153 140,085 37,710 1,200 1,000
Salmon— Canned	26.250	21.000	916.997		21,210		189,000
Pickled Sugar Wood—	· • • • • • • • • • •		2,204,977			i I	23,100 2,204,977
Unmanufactured Shingles Wool	• • • • • • • • • • • • • • • • • • • •		7,488,470	281,603	186,031	1,215,420	7,488,470 1,688,054
Merchandise, not specified Total	26,250		11,450		207,241		11,600

Canal Statistics.

C.—Table showing the Tonnage of the undermentioned Articles, moved

VEGETABLE FOOD. YEARS. Other egetable Food. Barley. Flour. Wheat. Corn. Oats. Rye. Tons. Tons. Tons. Tons. Tons. Tons. Tons. 670,534 99.012 92,309 99.748 1869..... 71.051 256,475 13,489 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..... 98,654 29,134 772,163 519,203 59,408 8,215 280,821 1875..... 17,635 744,293 282,031 104,475 62,717 8,309 86,090 1876...... 9,290 416,376 865,254 96,494 52,147 19,949 104,783 1877..... 8.923 448,043 723,458 139,453 66,045 35,948 77,114 1878..... 5,904 844,555 784,998 89,534 85,029 64,613 88,106 1879 7,164 949,466 621,180 96,144 23,164 59,210 77,071 1880..... 966,052 1,156,619 106,247 20.893 26,340 86,673 8,266 1881..... 6,926 444,892 475,823 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 71,462 7,251 790,409 198,216 65,008 52,696 1884..... 51,944 859,982 10,211 1885..... 6,869 565,922 64,587 8,234 47,505 1886..... 993,129 3,073 59,782 9,005 854,765 62,854 7,278 35,365 6,717 47,678 1887..... 4,089 936,840 446,617 75,458 49,087 1888 3.287 491,419 499,218 41,100 70,315 12,532 1889...... 4.429 484,141 592,550 66,110 63,674 36,329 49,663 353,738 48,438 21,657 88,128 1890...... 3.489 616,702 90,754 16,362 1'891 3,126 756,101 142,141 71,903 68,771 33,951 4,879 1892..... 620,768 150,269 51,596 72,444 4,236 33,807

on all Canals in the State of New York, during a series of Twenty-two Years.

			HEAVY (Goods.		
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	1,324,468	183,992	1,989,00
1,295,010	135,980	89,708	266,740	1,558,185	238,802	2,289,36
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	2,347,40
1,745,171	53,363	62,581	216,706	1,625,859	415,968	2,374,47
1,767,598	24,511	82,955	173,590	1,413,162	232,544	1,926,76
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	1,763,5
1,912,734	8,385	65,642	139,927	889,873	210,078	1,313,9
1,833,399	27,634	99,568	136,021	971,074	314,411	1,548,70
2,871,090	93,613	139,993	144,487	959,342	370,884	1,709,3
1,116,561	78,650	205,005	113,756	1,092,003	337,873	1,827,2
1,118,776	58,921	122,786	108,040	1,228,435	364,361	1,882,5
1,379,000	46,553	47,412	190,392	1,152,849	298,892	1,731,0
1,236,986	28,513	54,471	161,788	954,288	201,610	1,400,6
1,063,310	12,215	38,726	161,272	1,025,941	195,750	1,433,9
1,489,886	10,878	152,080	112,002	857,884	209,914	1,402,7
1,552,764	21,368	224,979	124,054	905,424	243,578	1,539,4
1,166,958	2,596	43,881	106,344	1,219,680	259,269	1,631,7
1,296,896	3,278	78,136	112,100	1,094,897	234,948	1,523,3
1,167,901	5,800	26,804	93,181	830,154	202,072	1,157,2
1,092,355	1,960	36,770	81,232	881,502	215,686	1,217,1
937,999	524	40,073	93,216	832,397	136,612	1,102,8

Canal Statistics.

D.—TABLE showing the Tonnage of the undermentioned Article, moved through

			Vz	ETABLE FOO	D.		
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	191,075	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
1883	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

^{*} Fiscal. + Apples, meal, all kinds, pease, potatoes.

the Welland Canal, during a series of Twenty-two Years ended 31st Dec., 1892.

				•		•	
				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	275,623
538,147	26,217	17,141	50,540	44,243	186,932	98,605	423,678
579,880	6,923	20,754	40,850	17,157	339,016	118,685	543,387
647,397	6,032	12,068	23,309	9,579	\323,503	56,825	431,316
417,936	1,517	7,588	13,509	9,962	321,306	43,683	397,565
409,788	51	7,997	30,300	20,327	288,211	81,654	378,540
464,181	9,630	9,696	9,173	3,983	323,869	42,758	399,109
403.403	10	11,518	3,980	12,686	295,318	15,229	338,741
438,564	2,783	5,797	7,174	17,796	192,957	19,164	245,670
442,182	5,360	4,812	413	22,273	109,986	84,139	176,983
269,395	4,585	7,013	10	30,682	128,113	18,785	189,188
306,482		5,348	50	17,327	237,559	23,700	283,984
373,326	1,287	7,922	66	17,037	307,058	31,785	365,105
305,734	698	652	461	3,242	274,471	53,205	332,729
273,905	78	2,055	597	14,243	248,272	26,728	291,973
414,812	166	6,123	48	12,324	271,356	27,447	317,464
394,971	1,351	5,636	,	6,715	145,193	13,866	172,761
419,786	93	3,220	316	13,617	223,871	16,872	257,989
542,043	47	2,479	1,254	20,269	268,305	2,435	294,789
519,291		753	1,027	28,047	202,384	8,138	240,349
367,177	127	1,610	2,567	7,953	224,644	3,415	240,316
527,426	163	1,567	878	3,666	211,616	355	218,245
-	I	}	ſ	1	l .		

E.—Table showing the Tonnage of the undermentioned Articles cleared at Buffalo and Tonawands, for transit through the Eric Canal, for a series of twenty-four years.

VEGETABLE FOOD.

Decrease Increase Other Wheat. Year. Flour. Corn Barley. Oats. Rye. Total. Articles Tons. Tons. Tons. Tons. Tons. Tons. Tons. Tons. 1869..... 5,609 490,904 219.874 1.978 68.728 2,150 2.193 786,436 2.05 1870.... 8,258 502,158 165,577 19,944 89,156 10,593 6,906 802,592 1871..... 5,607 570,849 579,709 19,810 106,391 27,622 5,705 1,315,693 67 59 1872..... 330,032 866,169 41,515 73,572 5,900 88 1,317,276 67 50 1,432,174 1873..... 737, 167 611,675 8,636 51.615 22,441 634 82 10 1874..... 650,161 459;728 3,192 44,079 47.18 112 237 1,157,509 1875..... 5,859 605,315 273,006 1,156 36,609 2,242 3,372 1,017,559 29.38 1876. 231 377,317 356,664 6,334 24,488 12,205 4,691 783,331 0.39 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 1,644,301 109 08 6,662 1879..... 1,565,543 99.07 1,239 892,404 602,171 7,193 14,537 40,471 7,528 1880 897,603 131,857 12,137 2,065,184 162 06 2,743 434 16,154 4,256 1881.... 386,605 1,491 458,318 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. 47,190 538 535, 150 517,219 6,816 79,010 6,051 1,191,974 51.66 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 4,001 1,353,591 72 11 . 5,180 1887..... 334 914,152 438,069 15,207 32,907 4,612 44,693 1,449,984 85 64 1888.... 534 469,965 494,140 6,589 68,922 10,997 1,717 1,052,834 33 87 1889..... 5,160 845 457,922 579,526 16,380 61,175 34,167 1,155,175 46.88 329,531 498,641 21 23 1890..... 58,563 45,202 16,900 4,362 953,397 195 27 18 733,967 137,679 43,779 14,803 66,278 1,071 2,594 1,000,171 2,485 611,177 141,506 37,570 70,363 3,997 3,472 870,570 10.69

56 Victoria.

A. 1893

STATEMENT to Table E, showing the shipments at Oswego during the same period. VEGETABLE FOOD.

		1								==
Year.	Flour.	Wheat.	Corn.	Barley.	Oats.	Rye.	Other Articles	Total.	Increase.	Decrease.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.		
1869	7,361	141,360	2 8,585	66,794	1,113	8,569	14,033	2 67,815		• • • • •
1870	11,440	115,732	10,120	77,906	3,953	7,402	11,628	238,181		11.06
1871	10,043	123,173	70,218	72,675	1,806	6,250	13,259	297,424	11.05	
1872	4,773	57,865	27,148	62,172	684	6,751	10,425	169,818		36 59
1878	4,061	58,861	10,578	46,337	670	6,019	10,739	131,765		50.80
1874		108,288	46,127	77,007	1,108	7,053	3,747	243,325	ļ	9.14
1875	1,728	32,690	3,034	75,683	3,308	4,989	5,931	126,763		52.67
1876	967	21,890	1,324	63,336	117	5,709	6,638	99,975		62 67
1877	855	28,955	3,308	80,306	316	6,603	6,556	126,899		52 61
1878	1,394	24,171	1,383	50,381		10,598	5,222	93,149		65 21
1879	734	25,740	9,268	71,693		16,627	8,110	127,168		52.51
1880	951	17,466	15,656	82,743		12,598	5,996	135,410		49 43
1881	758	25,352	8,064	62,793	200	14,444	4,027	115,638		56 82
1882	813	20,274	4,401	70,862	416	23,265	7,778	126,804		52.68
1883	432	22,694	535	32,557		14,384	1,967	72,507		73:00
1884	404	5,932	413	48,391		12,178	2,819	70,132		73 43
1885	519	6,484	22	45,264		4,618	2,945	59,847	·	77 62
1886	737	9,579	154	42,261		1,671	4,814	59,216	3	77 8
1887	790	675	2	44,580		716	1,370	48,18	3	82 0
1888	884	2,206	168	6,237			2,196	11,191	վ	95.8
1889	478	8,002	8,950	40,096	16	1,400	1,009	59,94	5	77 . 67
1890	545	10,378	10,408	26,639	8	4,630	2,356	54,969	9	79-4
1891	202	4,298	1,652	27,418		2,180	3,620	39,410	o	85 2
1892	273	4,806	5,657	5,283		199	2,340	18,556	3	93.0
	1	1	I	,	1)	1		I	I

F.—Table showing the Tonnage of the undermentioned Articles cleared downward on the Welland Canal, during a series of Twenty-two Years, ended 31st December, 1892.

VEGETABLE FOOD.

			-1.				·····	
Year.	Flour.	Wheat.	Corn.	Barley.	Oats.	Rye.	Other Articles.	Total.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
1869*	44,110	310,090	119,541	3,920		680	1,541	479,882
1872	26,648	231,056	254,534	2,693	7,594	64	2,300	524,889
1873	30,660	345,720	180,042	2,643	1,188	3	3,557	563,81
1874	24,017	406,157	181,128	377	5,953		3,301	620,933
1875	13,930	248,555	103,477	813	3,383	500	4,304	374,962
1876	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	430,79
1880	12,467	240,601	162,891		477		1,418	417,85
1881	9,655	121,393	103,075	252		6	1,371	235,755
1882	12,205	205,876	54,797	537		1,954	225	275,59
1883	13,256	146,741	182,143	975	731	518	10,971	355,33
1884	13,626	135,804	118,811	270	10,746	477	9,018	288,75
1885	13,322	114,090	117,536	618	1,116		1,628	248,310
1886	19,418	146,151	218,897		4,891	,	14,571	403,92
1887	23,940	210,755	114,938	1,711	12,050		12,149	375,54
1888	16,973	150,833	194,886	555	26,629	811	13,358	404,04
1889	7,922	120,498	353,595	197	28,356	1,918	18,273	530,75
1890	14,461	114,924	327,394	6,519	27,728	1,121	20,836	512,98
1891	13,517	196,326	185,177	8,113	52,959	65,071	27,895	549,05
1892	17,046	229,569	192,548	6,433	37,178	9,392	32,548	524,70

^{*} Fiscal.

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-two Years, ended 31st December, 1892.

	, .			VEGETABLE	LE FOOD.	_					HEAVY GOODS	G000В.		
. Cal.	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.	Tous.
1869 1872 1873 1875 1876 1876 1881 1882 1884 1885 1885 1886 1886 1886 1886 1886	10,0 683 10,0 683 10,0 683 10,0 683 11,0 842 10,0 641 11,	21.27.1 12.27.28.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	41.52.52 41.52.52 42.52.52 43.52.	1, 1, 2, 2, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,	7, 1, 1, 2, 5, 9, 8, 8, 1, 1, 2, 9, 8, 8, 1, 13, 9, 5, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14	667 200 520 528 258 258 264 684	1,006 608 608 608 1,528 1,529 1,529 1,10 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,	25,753 25,254 27,756 177,256 177,256 177,256 172,566 172,566 172,566 172,566 173,566 1	8,806 9,24040 9,65040 1,742 1,4743 1,20	113,33,23 133,23,33 133,23,33 14,13 15,13	89,086 49,044 40,044 20,243 20,243 20,343 30,345 31	28,566 203,673 203,673 203,673 203,673 203,673 203,673 203,873	2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2	28, 98, 98, 178, 178, 188, 188, 188, 188, 188, 18
1890. 1891. 1892.	9,204 6,802 11,018	31,627 32,097 26,950	180,842 127,494 131,222	6,519 8,113 6,433	27,030 52,823 36,935		26,497 26,115 31,992	275,619 253,444 244,550		504 292 576	208 205 20 20		1,620	164,563 189,342 184,473

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-two Years, ended 31st December, 1892.

Year.	Total on New York Canals.	Total on Welland Canal.	Total on New York Central and Erie Railways.	Quantity cleared at Buffalo and Tonawanda by Erie Canal.	Quantity cleared at Oswego by Canal.	Quantity cleared through the Welland Canal 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	1,157,509	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	3,885,557	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	867,177	3,565,381	1,000,171	39,410	253,444
1892	937,999	527,426	5,913,013	870,570	18,558	244,550

^{*} Fiscal.

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 Navigations, in 1882, 1883, 1884, 1885, 1886, 1887, 1888, 1889, 1890, 1891 and 1892.

	Canadian	Vessels.	United Stat	res Vessels.	Total.
Articles.	Steam.	Sail.	Steam.	Sail.	Steam and Sail
ARTICUS.	No. Tonnage.	No. Tonnage.	No. Tonnage.	No. Tonnage.	No. Tonnage.
	174 62,665	432 121,150	41 17,482	329 97,257	976 298,554
	Tons.	Tons.	. Tons.	Tons.	Tons.
1882. Wheat Corn Rye Coal Miscellaneous merchandise Lumber Ft. B.M. Timber Staves No.	60,535 7,431 	46,201 6,075 51,127 3,744 1,943,568 2,847,066 1,065,233	5,203 3,468 112 1,553 3,969,790	87,213 38,360 1,954 27,968 2,605 17,327,483 13,500 104,000	199,152 55,334 1,954 80,880 10,841 24,262,798 3,013,526 1,228,833
	No. Tonnage.	<u>-</u>	No. Tonnage.	No. Tonnage.	No. Tonnage.
	180 68,850	468 130,844	111 68,609	417 127,616	1176 365,929
1883.	Tons.	Tons.	Tons.	Tons.	Tons.
Wheat Corn. Barley. Rye. Oats. Coal. Miscellaneous merchandise Lumber Ft. B. M. Timber Cub. ft. Staves No.	32,761 25,651 8,398 5,238 2,102,292 83,700 32,876	29,385 21,073 48,329 3,590 3,455,590 3,514,944 1,038,349	5,928 36,146 	76,715 99,272 735 518 	144,789 182,142 735 518 731 97,950 24,322 25,988,542 3,669,144 1,161,225
	No. Tonnage. 173 68,250	No. Tonnage. 73,057	No. Tonnage. 99 67,637	No. Tonnage. 364 97,794	No. Tonnage. 921 306,738
1884.	Tons.	Tons.	Tons.	Tons.	Tons.
Wheat	38,859 10,841 90 477 872 497	11,618 13,609 	5,461 26,452 	75,474 67,909 	131,412 118,811 90 477 10,746 39,227
Shingles, firewood and wood- enware Miscellaneous merchandise Lumber Ft. B.M. Timber Cub. ft. Staves No.	548 2,073 3,393,351 437,356	2,538 3,804 1,689,976 2,107,780 75,000	49 11,793 8,987,558 33,741	30 428 18,126,215 159,647 301,267	3,165 18,103 32,188,100 2,704,783 410,008

I.—Statement showing the Quantity of Freight passed down the Welland Canal in Canadian and United States Vessels, &c.—Continued.

			1	=======================================	
	Canadian	N VESSELS.	UNITED STA	TES VESSELS.	TOTAL.
Articles.	Steam.	Sail.	Steam.	Sail.	Steam and Sai
Anticues.	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
	Tons.	Tons.	Tons.	Tons.	Tons.
1885.		·			
Wheat	26,025 16,046	3,153 2,462	6,882 20,589	72,478 78,439	108,538 117,536
BarleyOats			217	665	228 882
Pease	ii		211		11
RyeCoal	1,005	20,318		18,560	39,883
Miscellaneous merchandise Shingles, woodenware, &c	1,941 223	3,689	1,111 53	1,086 58	7,527 343
Sawed lumber Ft. B.M.	7,725,105	8,681,081 2,849,526	9,381,654	20,935,270	46,723,11)
Square timber Cub. ft Staves No.	601,516 104,000	2,849,526 44,000	20,692 83,500	113,682	3,585,416 231,500
Firewood Cords.		783			783
	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.	Tons.	Tons.	Tons.	Tons.
WheatCorn	38,984 48,547	30,834 33,315	2,937 36,852	70,019 99,644	142,774
Barley			 	572	218,358 572
Oats Pease	6 45 0	158	4,331	459	4,837 608
RyeCoal	4,007	45,018		11 647	
Miscellaneous merchandise	2,936	6,728	23,687	11,647 281	60,672 33,622
Shingles, woodenware, &c Sawed lumberFt. B.M.	329 6,915,390	15,719,631	252 8,953,478	215 18,405,961	1,152
Square timberCub. ft.	564,827	2,335,205	0,000,110	35,500	49,994,460 2,935,532
Staves	221,280	697,933 390		····	919,213 390
	No. Tonnage.	<u>-</u>	<u>-</u>		/
	250 86,344	372 101,745	107 94,029	163 46,152	892 328,270
1887.	Tons.	Tons.	Tons.	Tons.	Tons.
****	80,757	81,652	200	46,186	208,796
w heat			65,981	20,582	113,679
Corn	12,341	14,775	9		
CornBarleyOats	12,341	1,376	11,098	575 279	12,753
CornBarley,	12,341	I	11,098		
CornBarley, OatsPease RyeCoal	1,436	1,376 362 25,165		2,108	12,753 362 28,709
Corn Barley. Oats Pease Rye Coal Miscellaneous merchandise	1,436 2,179	1,376 362 25,165 4,609	24,395	279	12,753 362 28,709 31,598
Corn Barley. Oats Pease Rye. Coal. Miscellaneous merchandise. Shingles, woodenware, &c Sawed lumberFt. B. M.	1,436 2,179 1,716 2,894,767	1,376 362 25,165 4,609 1,081 12,329,728		2,108	28,709 31,598 2,823 34,477,199
Corn Barley. Oats Pease Rye. Coal. Miscellaneous merchandise Shingles, woodenware, &c	1,436 2,179 1,716	1,376 362 25,165 4,609 1,081	24,395 26	2,108 415	28,709 31,598 2,923

48

I.—Statement showing the Quantity of Freight passed down the Welland Canal, in Canadian and United States Vessels, &c.—Continued.

				•
Canadian	VESSELS.	United STA	tes Vessels.	TOTAL.
Steam.	Sail.	Steam.	Sail.	Steam and Sai
No. Tonnage.	No. Tonnage	No. Tonnage.	No. Tonnage.	No. Tonnage.
242 86,838	339 93,450	114 104,505	219 60,500	914 345,293
Tons.	Tons.	Tons.	Tons.	Tons.
45,481 38,620	60,379 14,251	1,353 71,988	40,779 71,175	147,992 196,024
672		24,967	1,311	26,950
	04	71	632	111 703
1,603 9 165	20,064	22.719	4,208 3,722	25,897 31,875
66	84	141	6	297
5,262,700 687,728			12,539,672	34,230,637 2,262,035
106,972	211,436		/ 34,000	352,408
	201	ļ		380
No. Tonnage.	No. Tonnage	No. Tonnage.	No. Tonnage.	No. Tonnage.
317 106,048	427 118,071	208 172,873	268 92,442	1220 489,434
Tons.	Tons.	Tons.	Tons.	Tons.
38,127 60,218	28,054 43,819	1,679 152,858	46,767 96,700	114,627 353,595
320		25,347	2,145	27,812
948	634	336		1,918
3.976	21,148	712	1,664	27,500
6,339		25,082		40,200
5 789 226	11,632,330	11,792,850	21,026,211	50,240,617
35.700				3,859,634 220,349
	46	-		46
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.
43,308	35,633	7,514	32,239	118,694
63,095	51,439	172,756	40,104	327,394
479	73	27,030	3,210	6,519 27,582
1 101		. 14		14
1,121	21,732		615	1,121 23,396
3,146	5,683	32,194	2,510	43,533
	7 1900			
15 5 921 240	1,266 5,167,201	10,274,335	14,290,800	1,289
15	1,266 5,167,201 3,395,832 19,947	10,274,335	14,290,800	35,653,576
	Steam. No. Tonnage. 242 86,838 Tons. 45,481 38,620 672 1,603 2,165 66 5,262,700 687,723 106,972 179 No. Tonnage. 317 106,048 Tons. 38,127 60,218 320 342 342 35,700 No. Tonnage. 342 110,056 Tons. 43,308 63,095 479 1,121	No. Tonnage. No. Tonnage. 242 86,838 339 93,450 Tons. Tons. 45,481 60,379 38,620 14,251 672 54 1,603 20,064 3,291 84 2,165 66 84 5,262,700 11,977,905 1,555,307 211,436 201 No. Tonnage 106,972 179 211,436 201 Tons. Tons. Tons. Tons. 317 106,048 427 118,071 Tons. 38,127 60,218 43,819 320 11,632,330 11,632,330 11,632,330 11,632,330 11,632,330 11,632,330 194,649 194,649 194,649 46 No. Tonnage No. Tonnage 342 110,056 443 117,400 117	Steam.	Steam.

I.—Statement showing the Quantity of Freight passed down the Welland Canai in Canadian and United States Vessels, &c.—Continued.

	•	Canadian	VES	sels.	Uı	NITED STA	tes V	essels.	r	OTAL.
Articles.	s	team.		Sail.		Steam.		Sail.	Stear	n and Sai
	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
		Tons.		Fons.		Tons.		Tons.		Tons.
1891.										
Wheat		62,859		56,953		36,425		33,853		190,090
Corn		20,510		9,550		137,852		17,039		184,951
Dats						5,444 50,212		4,061 1,076		9,505 51,288
Pease		390						. • í ·		390
Rye		29,581		11,296		16,361		7,343	i	64,581
Coal		158 8,369		20,388 6,007	• • • •	37,537	}	3,851 2,578		24,397 54,491
Shingles, woodenware, &c				0,001		31,331		2,516 4	1	04,491 4
Sawed lumber Ft. B.M.	4	,268,874	4	,648,824	8	3,067,351	18	3,745,628	35	730,677
Square timber Cub. ft.		449,406		566,109					1	,015,515
Staves		1,000					1			1,000
•	No. Tonnage.		No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage
	239	100,324	186			248,837	134		804	
1892.	Tons.		Tons.			Tons.	Tons.		Ton-	
Wheat		74,578	54,764		60,364		36,898		226,604	
Corn		17,477			60,364 146,080		36,898 21,631		226,604 192,548	
Barley					3,995		21,631 2,438		192,548 6,4 3 3	
Oats					36,935		2,300			36,935
Pease	1	524 5,066	1	• • • • • • • • •		3,718	• • • • •	608		524 9.392
Coal		775	l	13,350	١			1,365		9,392 15,490
		2,139		2,786		44,117	 	 .		49,042
	1	1	1		1	45	!	9	1	55
Shingles, woodenware, &c				7 KO4 OEC	10,494,692		26,832,564		51,109,765	
Miscellaneous merchandise Shingles, woodenware, &c Sawed lumberFt. B.M. Souare timber	•	,278,253		7,504,256 1,421,260	10		2			
Shingles, woodenware, &c	€			7,504,256 1,421,260 32,838	10	0,494,692 2,601	2	6,832,564 1,310		1,109,765 2,179,384 79,6 3 8

I.—Statement of Large Class of Vessels Lightened at Welland Railway Elevator at Port Colborne; showing the Tonnage, Dimonajona, Depth of Water and Cargoes passed through the Enlarged Welland Canal during the Season of Navigation in 1892.

CANADIAN STEAM VESSEL.

		196.6*	Ä	Dimensions.		Depth of Water on Arrival.	pth ter on val.	, ° .	Original Cargo to Canal.	rgo to (Janal.		We	Lighterage over Welland Railway.	e over ailway.	•	Light	Lighterage in Tons.	n To	ns.
Date of Arrival.	Names of Vessels.	nnoT benetsigeA	Length over	Width of beam	Depth of hold.	Forward.	Aft.	Wheat.	Согл.	Rye.	.stsO	Rolling freight	Wheat.	Corn.	Rye.	.ets.	.789ЦМ	Сот.	Rye.	Osts.
1892.		Tons.	- Et	Ft. in.	Ft. in.	Ft. Ft. in. Ft. in. Ft. in.	Ft. in.	Bush.	Bush.	Bush.	Tons. Tons. Bush.	Tons.	Bush.	Bush.	Bush. Tons.	Fons.	Tons.	Tons.	.suo]	Tons.
Şept. 29	Sept. 29 Algonquin	1,172	35	3	8	14 2	40 0 20 6 14 2 13 10	66,001		:		:	3,635			 :	110	:		<i>;</i> :

J .- STATEMENT of Large Class Vessels Lightened at Welland Railway Elevator at Port Colborne, &c. - Continued.

Tons. Oats. Lighterage in Tons. Rye. Tons. Com. Tons. .твэпW Tons. .ataO Lighterage over Welland Railway. Bush. Rye. Bush. Corn. Bush. 2,191 Wheat. Tons. UNITED STATES STEAM VESSELS—Continued. Rolling freight Tons. Original Cargo to Caual. Corn. Bush. Rye. Bush. Corn. 49,040 Bush. Мреят. ė. Depth f Water on Arrival. Aft. ij ij Forward. 7 ġ Depth of hold. r. Dimensions. Ė. Width of beam بر ند ength over ī. 1,441 950 1,556 1,546 1,548 1,558 1,558 1,558 1,558 Tons. Registered Tonnage. 14 Escanaba 14 W. A. Haskill 18 Gov. Smith. 19 Jno. Rugee. 20 A. McVittie. 25 W. J. Averill 27 H. R. James 27 Jas. R. Langdon. 31 H. A. Pince. Jas. R. Langdon... Names of Vessels. A. McVittie. W. J. Averill H. R. James 7 A. McVittie. 13 H. R. James 16 W. J. Averill. 17 F. H. Prince. Rhoda Emily... 23 Gov. Smith... 28 A. McVittie... 31 W. J. Averill 11 H. R. James... 14 Escanaba. 19 Jas. Date of Arrival. $\begin{array}{c} \mathbf{39} \overset{\cdot}{\mathbf{17}} \mathbf{62} \\ \mathbf{52} \end{array}$

	.
88.388.8888.8888.848.45.4888.888.888.888.888	
8 : 8 : 8 : 8 : 8 : 8 : 8 : 8 : 8 : 8 :	160
7 191	
13,654 14,685 16,689 17,811 18,689 18,689 19,689	2,513
# : 524.8 . 911.852.800.2 . 95.44.852520.0 24.45.55	. 6,10
11,400	
	-
25. 25. 25. 25. 25. 25. 25. 25. 25. 25.	
388 886 886 887	I.S.
	VESSELS
8.221 .222222222222222222222222222222222	SAIL 697
61,688 68,168	
	STATES
49, 602 38, 500 80, 332 34, 000 15, 416	TS :
	(E)
######################################	
<u>838.10000-0000+00000014000010001400000000000</u>	2 TO 1.18
<u> </u>	1 1 : 1
<u> </u>	
912 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
4846284848484848484848484848484848484848	## ## ## ## ## ## ## ## ## ## ## ## ##
25	202
	640
7. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	, 282
g :	vaite
Langer in the control of the control	sthv
P. H. H. H. H. H. H. H. H. H. H. H. H. H.	පී
6 Jas. R. Langdon 6 Escanaba. 1 K. H. Frince. 1 Gov. Smirh. 11 W. A. Haskill. 15 Kate Butterronie A. McVittie. 15 Jno. Rugee. 25 Jas. R. Langdon 26 Gov. Smith. 27 Omaha. 28 W. A. Haskill. 26 Gov. Smith. 4 A. Wo'Vittie. 5 W. J. Averill. 7 Dewar. 19 Jno. Rugee. 10 Jno. Rugee. 10 Jno. Rugee. 11 W. A. Haskill. 26 Gov. Smith. 38 H. R. James. 11 W. A. Haskill. 38 Gov. Smith. 38 H. R. James. 4 M. Vittie. 38 H. R. James. 4 M. Vittie. 38 H. R. James. 5 H. R. James. 5 Jno. Rugee.	4 W. S. Coethwaite.
6 Jas. R. Langdon 6 Escanaba. 10 Gov. Smith 11 W. A. Haskill. 15 Kate Butteronie 17 W. J. Averill. 19 H. R. James. 21 Jno. Rugee 25 Jas. R. Langdon 26 W. A. Haskill. 27 Omaha. 28 W. A. Haskill. 29 W. A. Haskill. 30 W. J. Averill. 4 A. McVittie. 31 Jno. Rugee 32 Jan. R. Langdon 34 M. A. Haskill. 4 J. M. Varitie. 36 W. J. Averill. 37 W. A. Haskill. 38 Gov. Smith. 39 Gov. Smith. 39 H. R. James. 31 W. A. Haskill. 32 Gov. Smith. 33 H. R. James. 34 H. R. James. 35 Gov. Smith. 36 A. McVittie. 38 H. R. James. 39 Hodels Emily. 30 Topeka. 31 W. A. Haskill. 32 Topeka. 33 Topeka. 34 H. R. James. 35 Jno. Rugee 36 Jno. Rugee 36 Jno. Rugee 37 Topeka. 38 H. R. James. 39 Pueblo. 30 Pueblo. 30 Pueblo. 30 Pueblo. 30 Pueblo. 30 Pueblo. 31 James. 30 Pueblo.	4 58 VB
දිදු දිදුවෙද දිදුවෙදිවෙදිවෙදිවෙදි දිදුවෙදිවෙදි දිදුවෙදිවෙදි දිදුවෙදිවෙදිවෙදිවෙදිවෙදිව දිදුවෙදිවෙදිව දිදුවෙදිව	
58	1 1 1 54 1

J.-Statement of Large Class of Vessels Lightened at Welland Railway Blevator at Port Colborne, &c.-Continued. CANADIAN STEAM VESSEL-Concluded.

e i. Canal midenty.	dguordt	Wheat, Corn. Rye. Rye. Rye. Corn. Rye. Corn. Date. Total Cargo thr Total Cargo thr Total Cargo thr	Bush, Bush, Tons, Tons, Tons, Tons, Tons, Tons, Tons, Tons, Ft.	Sept. 29 Algonquin 62,366 1,871 1,871 1,871 13
nation. To Kingston	Destination.	Indabim fanaO	.i.	13 6 Duluth
		Cost of Lighter bushel.	Cts. H. M.	- 3

	00	0	90	0	-	0		0		0	•	> <	> 10	0	0	>
eo 4∙ ec	· c -	(m)	2 20	9	20 CO	87 6	n 01	01	ಣ 19 ೧୯	c1	ω·	4.0	ے د	21	က	2
010101	63.63	030	21 63	es c	10 10	¢7 ¢	20	63 (20 00	67	07 (77 0	4 6	3	010	N
: مُخِج :	: :	: :	::	urg.	:	:	. pi	:	::	:	:	ò	:	: :	:	:
on.	5			par	ë Ö		par		: : 8-8		ġ.	ggar				ġ
lgst Jene do	<u>و</u> ج	g,	ခုန	gdensbu	g of	မှ.	gg Jens	ę.	දිදි	용	ŝ.	ens February	9,6	g G	ę	8
SK.	K			Ö.			Š	•			Z	38				
: : :	: :	: :	: :	:	: :	:	: :	:		:	:	:	;	:	:	:
 26	• •	ţġ.	&	•.	٠.		•	•	٠.	•	•	•	•		•	•
Chicago do do	8	ag.	<u>ફ</u> ફ	용-	ခုန	දි	မှန	දි.	දිදි	ခု	육.	9	9-5	ခွ	융.	မွ
																_
	10 to															
222	25.5	33	2 7	晉 ;	3 53	£ ;	35	23	25	23	7	2:	3 5	2	空 ;	7
25,8	10,5	12	25 25 26 27 28 28	6	2 6	3	200	iQ.	213	2	60	200	3 5	52	2	92
4130	11,	4,		Ή,	1.	—		ä			-	Ţ,	-1,-	1	—	<u>.</u>
· Chi ef	5.5			2			40	6	00	6			20.20	. 63		-
279	120	: :	: :	266	: :		- 8	22	S S	6		4 :	4.4	325	:	:
:		: 4	: :		; ;						:				:	:
: :8	3 :	: :	: :	:	:	: :	; ,	88,	13	37.1	:	66	1:	978	<u>ş</u>	- :
	• :		: :	:			:	.,	_		:	_	:-	100	64	:
<u>. : :</u>	<u>:</u>	<u>: :</u>		:	:	:					_:		:			<u>:</u>
: :	6		: :			: :		:		: :	:	:	:	: :	:	
::		:	: :	-				:	:	: :	:	:	•		•	
1,319	4		£8	80		1,463	2		45 45 45 45 45 45 45 45 45 45 45 45 45 4	59	8	8	3;	8	8	4 76
	—	: :		•	:	:	-	·` :	_	1	_	, I		-	_	- 1
; .	:		·	17	\$ \$	-	<u>.</u>	÷	:	٠.	:	:		:	•	-:
	: :	:4	:	61	40		1,6		:		:	:	•	: :	:	:
Ġ	3 :	<i>:</i> : ;	: :	: :	:	: :	:	8	. 13	7	:	<u>66</u>	3:	- 00	8	:
	3 :	: :			:		:	1,026	719	374	:	159	133	826	8	:
	<u>:</u>				:		:	1,026	719	374		159		826	063	
	<u>:</u>				:		:	1,026	719	374		159		826	063	
	94 05				:		:		719	374		159		- 025	068	:
	7 20 76	:	51	1		88			:			:::::::::::::::::::::::::::::::::::::::	<u>:</u> ::			
	7 20 76	:	19,151	28,041		52, 228	286		:			:::::::::::::::::::::::::::::::::::::::	<u>:</u> ::			52,700
50,729 47,095	7 20 76	:	49,151		<u>:</u>	52,228	45.386		17,640 719			:::::::::::::::::::::::::::::::::::::::	<u>:</u> ::			52,700
	7 20 76	:			<u>:</u>	•	<u>:</u> -		:			:::::::::::::::::::::::::::::::::::::::	<u>:</u> ::			52,700
50,729 47,095	53,496	48,170		7,212	47,872	20362	53,478		17,640	21.297	45,310	37,934	38,603	11.849	36,402	-
50,729 47,095	53,496	48,170		7,212	47,872	20362	53,478		17,640	21.297	45,310	37,934	38,603	11.849	36,402	-
50,729 47,095	53,496	48,170		7,212	47,872	20362	53,478		17,640	21.297	45,310	37,934	38,603	11.849	36,402	-
50,729 47,095	53,496	48,170		7,212	47,872	20362	53,478		17,640	21.297	45,310	37,934	38,603	11.849	36,402	-
50,729 47,095	53,496	48,170		7,212	47,872	20362	53,478		17,640	21.297	45,310	37,934	38,603	11.849	36,402	-
50,729 47,095	53,496	48,170		7,212	47,872	20362	53,478		17,640	21.297	45,310	37,934	38,603	11.849	36,402	-
50,729 47,095	53,496	48,170		7,212	47,872	20362	53,478		17,640	21.297	45,310	37,934	38,603	11.849	36,402	-
50,729 47,095	53,496	48,170		7,212	47,872	20362	53,478		17,640	21.297	45,310	37,934	38,603	11.849	36,402	-
50,729 47,095	53,496	48,170		7,212	47,872	20362	53,478		17,640	21.297	45,310	37,934	38,603	11.849	36,402	-
	53,496	48,170		7,212	47,872	20362	53,478		17,640	21.297	45,310	37,934	38,603	11.849	36,402	-

8-20-0050 05-00-050	- 888 888	388 888	C C (C C)	8 9 8 4	- - -	1128	3 25 5	8 e	2 4 0 0	8 4 8 5	ლა. 2€ ⊂	0	4 15 4 0		₩ 6	4 4 0	4 15	4. હ ⊖ રે	9 0	4 0	0 0 0	* 4 8	4 45	00
8888888888	2000	N 60 61	0101	21 21	00	67 6	9 69 6	N 61	20 00	81 81	07 00	900	67.6	3 69	67 6	7 m	01	20 00	101	8	010	9 61	010	79 67
Ogdensburg. do do do do do do do do do	Ogdensburg.	888	: : 88	Kingston Ogdensburg.	Ogdensburg.	: පිදි	: : 3-8-	: : පුළ	: : දෙද	Kingston	ි : පිදි	Kingston	Ogdensburg.	: : 3-8	 مو	: : 8- 8	ор -	Kingston	=	٠: چ	: કર્	: : 8-8	: op	: : 8-8
					0														;		:	: :		: :
8 88888888	දිදිදිද	පිපිපි	육육	ಕಿಕಿ	hicago do do	- 8-6	음.	응용	දි දි	දිදි	දි දි	3.e	දි	දිදි	မှ	88	ව	දි	3-8	ခု	6	9,8	육.	දි. දි
010000161																								
25244545555		-,																	• •					
1,586 1,676 1,529 1,729 1,677 1,034 1,283 1,283	4.1. 5.0.0. 5.0.0. 5.0.0.	1,670 1,733	1,565	 88.	1,554	1,659	25.	 88. 88.	1,710	1,321	1,744	1,078	1,085	1,562	1,667	1,421	1,750		7.00	1,691	1.58	1,58	1,666	1,430
925 9865 984 929 929 929		340								:						:		:		:		:		
926 586 1,029 1,283	594		:	: :	:	1,045	617	: :	2				647		8 8	571	:	:	1.023		:	;	318	
	: : : : : : :			:	•		<u> </u>	: :	: :			: :			:		: :	:			•			:
284 725 1,145 1,138 319 1,034	:	327 418 1,147				:				:	1	:		1,495	926	1,421	1,490	1 440		1,465	1,83	1,449	1,062	1,430
														: :	ਂ ਜ਼	: :	: :	-	. 27	: :	:	:	· ·	<u>:</u>
926 586 1,029 1,283		9999	006		6	1,0	19		22				Œ		8	57	; : :	:	1 00	; ; ;	:		8	
				15,529			: :			:	,							:					:	
10,120 25,891 40,874 40,637 11,372 36,922 24,821 24,821	25,074 39,697	11,64 14,899 14,940	48,020 24,787,42	37,538 36,520	36,287	900	27,663	86. 88. 88. 88. 88.	8,7 8,8 8,8	46 664	50,545	30,00	25,047	3.55 3.55 3.55 3.55 3.55 3.55 3.55 3.55	33,024	86,±78	53,192	707	24,404	52,304	45,802	51,748	37,919	53.414
	46,849						: : : :	- : :		41,008		35.918	1 :			:		48,932	:					
26 W. A. Haskill 3 A. McVittie 4 W. J. Averill 7 H. R. James 9 Jas. R. Langdon 11 Rhoda Emily 14 Escanaba 14 Gov. Smith 18 Gov. Smith	20 Jno. Rugee 20 A. McVittie 25 W. J. Averill	H. R. James. Fas. R. Langdon. H. A. Prince	W. A. Haskill Gov. Smith	7 A. McVittie	W. J. Averill	Jas. R. Langdon	W. A. Haskill	28 A. McVittie 31 W. J. Averill.	H. R. James.	6 Escanabo	10 Gov. Smith.	W. A. Haskill	A. McVittie.	10 Lopeka. 17 W. J. Averill.	H. R. James	21 Jno. Kugee	F. H. Prince	27 Omaha.	SW. A. Haskill	A. McVittie	b W. J. Averill.	7 Dewer	12 J. R. Langdon	Jno. Rugee
88470日448 文 4 K B B B B B B B B B B B B B B B B B B			==	N 45	10.	_	-	20-		100	_			<u> </u>				-	~~	-	-		· 2:	

J.—Statement of Large Class of Vessels Lightened at Welland Railway Elevator at Fort Colborne; showing the Tonnage, Dimensions, Depth of Water and Cargoes passed through the Enlarged Welland Canal during the Season of Navigation in 1892.

UNITED STATES STEAM VESSELS.

Victoria.	ı	Sessional Papers (No. 9A.)	A. 18
1892.	Tons.	53,689 2,878 2,878 16 16 19 119 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5
1891.	Tons.	371 52,558 3,324 64,978 159,78 2 2 2 100 201 201 201 201	40 20 1 ::
1890.	Tons.	139,798 3,065 222 479 1,120 75,515 3 3 3 177 117	70
1889.	Tons.	195,350 6,841 148 320 320 70,815 798 798 798 2 2 2 2 2 2 2 2 2 2 320 788 788 788 788 788 788 788 788 788 78	107
1888.	Tons.	98,448 3,846 3,846 100 112 93,915 89 89 89	£ 61 €
1887.	Tons.	24,609 6,140 87 362 160,063 160,063 18 418 29	113
1886.	Tons.	116,517 2,984 1285 1285 1285 86,815 86,815 88,815 936 936 688	4.9 %
1885.	Tons.	7 44,401 2,874 11 11 11 12 2 2 2 2 30 30 4 4 4 4 4 100,068	97
1884.	Tons.	38 55,552 9,659 872 433 477 84,822	38
1883.	Tons.	109,191 109,191 1,188 1,188 2,2 77,77 193,393	8 9 T 8
1882.	Tons.	459 9 9 17,474 5,920 1,269 1,269 1,269 1,269 1,269 1,269 1,269 1,269	12 12 18 18
1881.	Tons.	858 233 69,066 4,476 77,061 77,061	13
1890, 1891 and 1892.		Iron, pig. John, pig. Stone for cutting. Applies. Applies. Corn. Flour. Flour. Flour. Pease Rye Rye Rye Rye Rye Rye Rye Hother agricultural products, wegetable Hides, skins, horns and hoofs. Horses. Horses. All other agricultural products, animals. Total, Class 3.	Ashes Furniture Glase, all kinds. Molasses

1,678 8 200 8 2,327 263,144 Tons. 1892. 3,908 282 93 5,680 9,588 291,776 Tons. 1891 .—STATEMENT showing the Quantity of Freight passed Eastward, from Lake Erie, &c.—Concluded. 3,579 84 246 3,580 224,371 Toms. <u>8</u> 270 88 32 9,302 15,690292,827 Tons. 883 . S 138 11,586 18,588 183,899. Tons. 1888. , 12 73 7,98 181 131 21,839 88 213,834 Tons. 1887. ∞<u>§</u> 6 18,707 332 287 1,330 15,410 101 36,173 193 244,514 Tons. **1886** 19,95 35,958 ...639 11,128 76 32,772 ន 138 132,968 Tons. 1885. 7,531 200 883 7,365 16,064 168,715 8 8 Tons. 1884. :82 6,311 2,024 451 2,314 199 11,589 205,394 Tons. **38** \$ 288 3,639 2,359 1,130 1,574 1,149 205 1,092 10,059 9 198,835 Tons. 1882 3,227 1,198 3,227 750 76 8 415 11,602 169,213 Tons. 1881 Sugar.
Stone, wrought.
Turpentine.
Whiskey, beer, and other spirits.
Merchandise not enumerated. do West India and pipe Timber, square, in vessels. Grand total..... Total, Class 4..... Barrels, empty. Sawed lumber. Staves, pipe and barrel..... Woodenware Total, Class 5.. Class 4—Concluded. Pitch and tar Special Class. Articles. Class 5. Coal

				_	_		_			_		_
,	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.
Articles.	Tons.	Tons.	Tons.	Tons.	Товя.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Class 3.						,						
. E S	28 22 81.	88888	78 508 56	219		66 498 1	1,740 134 95	187 1,177 96	88 88 88 88 88 88 88 88 88 88 88 88 88	252 62 8 8	2,380 2,06 206 7	1,570
Iron, railway. do pig. do all other. Salt coutting.	16,476 8,131 900 5,175	11,246 3,575 686 1,820	8,735 9,460 5,324	2,031 43 366 802	12,366 23 290 1,574	6,629 10 76 5,609	153 368 1,997 4,197	9,148 573 297 3,599	15,513 250 290 4,216	20.003 20.003 20 20 7,440 12	2,855 112 595 4,391	1,171 74 387 2,034 146
Meels Oats Potatoes Seeds, all kinds		84	\$6.5				- 4	24.	215			
Agricultural products not enu- merated, regetables.	63	c	ä	-		:	. :	8	119	:	22	:
Lard and lard oil Pork. Wool All other articles not ennmerated		v		45	က :	9	ඟ අ ජ	12	4 :	72 38 13	ପର	16
Total Class 3	31,371	18,460	17,994	3,707	14,428	12,896	8,702	15,244	21,495	28,674	11,071	6,076
Class 4. Ashes, pot and pearl		116	<u>7</u> £1	74	226 10	89.	161	386		10 11	31 251	88∞
Lye woods, &c. Furniture Glass, all kinds.	e 26	- 4.88 - 4.88	2 4 35	160	: : : : : : : : : : : : : : : : : : :	1086	4-18	-2-	Į.	8	8	3 152
Molasses	14	- 88	- m),		-81	9 74	12	18		: :	32

L.—Statement showing the Quantity of Freight passed westward from Montreal, &c.—Continued.

		,										
, T	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.
A LUCKS.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Class 4—Concluded.												
Nails Oil ir barrels Paint	258	576 119 124	1,08 123 183 183 183		205 10 24	888.	147 88 1	578 52 53 53	736	£2 11.2 21.2 21.2 21.2 21.2 21.2 21.2 21	8228	272 2.21 3.22
Fuch and tar. Roein Soda, ash Steel	3,177 88	1,040	38,1 88,1 88,1	1,427	164	975	1,116	1,196	766	122	377	
Stone, wrought. Sugar Tin	929	465	375 1,669	290 1,832	64	316	2,225	98	480	:	412	1,320
Turpentine. White lead. Whiting. Whiskey, beer, &c. Merrhandise not enumerated	01.01.488	14 5 564 1.992	19 791 2.608	364	259	3 174 1,008	7 7 287 619	2 228 1,259	33 124 1,422	350 350 1,180	294 810	220 220 538
Total Class 4	5,753	6,093) x	5,687	1,725	3,678	5,373	4,066	3,873	3,277	2,989	3,394
Class 5.									,	,		
Barrels, empty Lumber, sawn, in vessels Woodenware		175 175 186	318		63	227			67			
Total Class 5		328	497	3	2	227			62			
Special Class.			,		/				ţ			
Coal			40	88								
Grand Total	37,190	24,881	27,488	9,425	16,155	16,801	14,075	19,310	25,370	31,951	14,060	9,470

	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	ictor
ARTICLES.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	ia.
Class 3.			ļ T								,			
Bricks Cement and water lime	23 :		& 64				∓∺		4		* :		/ : : : : : : : :	Sea
Fish. Iron, railway do all other.			114	142 L 96 L	: : \$		45	29		520			: :-	ssio
SaltStone for cutting	258		: :	∞ ૹૢ	15		.					494		nal
Apples Barley Com	16,122	30,031	32, 4 33	735 66,128	53,707	63,229	93,503	1,709	102,974	147,045	6,519	8,113 127,494	6,433	Pap
Hay, pressed Meal, all kinds				8,579	8,170	1 : :	13,201	10,726	11,598	17,224	20,482	26,096	31,724	ers
Onl cake Oats.	296		: ;-	731	9,874	885	4,790	12,050	26,510	27,492	27,030	52,823	36,935	(N
Rye.		16	684	662	511		236	44	179	151	135	256	200	o. 9
Agricultural products, vegetable		07,070	5		73	207'CA	89,630 81,2 41,4	27,070	98,999	93,223	14	92,097 42	906,62	A.)
Horses.			-	ဇာင	9 2-		13	14 2	19	32	1 8	e 0		
Meats, other than pork				163	4 :-		106	108	14	21	15 88	22.	€ 3 □	
Wool			: :	38	- ::		1,126	98	18	452		1,237		
Total, Class 3	47,309	64,447	64,129	133,782	145,092	117,470	174,359	157,820	189,986	237,188	275,893	255,553	244,433	•
Class 4.	•		-											A.
		es 4	11.	8	16		: :53	9 24	3	8				1898
r urgiture	:	- :: :	3	3	97		75	5	R	- 8	77			7

1,331 1,331 1,422 54,173 : 2 300,733 54,227 651 651 Tons. . 1892 45,504 1,773 167 2,041 1,382 3,155306,257 M.—Statement showing the Quantity of Freight passed Eastward through the Welland Canal, &c.—Concluded. Tons. 1891. 615 18 1,620 1,823 2,075 38,038 318,259 38,030 2,253 Tons. 1890. 51 1,679 1,902 55,074 55,458 . 83 1,124 1,6812,805 297,353 Tons. 889 °84 1,153 28,562 1,638 878 : 878 221,064 Tons. 888 జిత్తి 29,845 1,163 573 29,871 189,427 Tons. 1887. 5,400 224,916 . 8 22 44,241 5,400 Tons. 1886. 111 4,974 4,974 167,225 Tons. 1885. 85 43,713 43,800 4,293 4,293 Tons. 163,997 1884. 34,18 28,988 34,2795,372 1,479 5,372 174,912 256 941 Tons. 1883 8-8--80 34,182 .5 10,686 12 1,237 34,234 10,686 Tons. 110,286 30,462 1,164 96,266 :8 189 30,466 1,164 Tons. **188**1. 33,555 33,565 81,952 77.7 871 Tons. 87.1 86 Oil, in barrels Paint Soda, ash Steel Stone, wrought
White lead
Whiskey, beer and all other Lumber, sawn, in vessels..... Shingles Staves, barrel Woodenware, &c Stone not suitable for cutting.

Kryolite Glass, all kinds..... Total, (lass 5...... Rpirits. Fotal, Special Class. Total, Class 4 Class 4—Concluded. Special Class. Grand Total. Articles. Class 5.

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 1892.

Names of Vessels.	Original Cargo through the Walland Canal.	Quantity transhipped at Kingston.	Cargo through the St. Lawrence Canals.
	Tons.	Tons.	Tons.
Canadian steamer "Acadia"	629	167	462
do do	658	163	495
do "Alma Munro"	674	284	390
do "Cuba"	660	268	392
do "Lake Michigan"	510	216	294
do do	510	249	261
do "St. Magnus"	1.041		420
do do		633	402
do do		635	388
Canadian sailing vessel "Kildonan"		288	852
Norwegian steamship "Wergeland"	294	245	49
Total	8,174	3,148	4,405
Number of cargoes of wheat Quantity through Welland Canal to Kingston do transhipped at Kingston do taken to Montreal in vessels in which it arrived to remaining at Kingston	at Kingston	8,174 7 3,148 4,405	Fons,

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 1892.

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"	476	,	476
do "Cuba".		261	393
do do	1		448
do do		239	405
do "Alma Munro"		54	571
do "Lake Michigan"	482	202	280
_ do do	490	181	309
Canadian sailing vessel "Jennie"	924	350	574
do do "Jno. Gaskin"	1,023	358	665
do do "Regina"	826	256	570
Total .	6,592	1,901	1.691

N.—Statement showing the Number of Vessels and their Cargoes of Pease and Rye, 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 1892.

PEASE.

Name of Vessels.	Original Cargo through the Welland Canal.	Quantity transhipped at Kingston.	Cargo through th St. Lawrence Canals.
	Tons.	Tons.	Tons.
Canadian steamer "Lake Michigan"	524	253	271
RYE.	•		
Canadian steamer "Alma Munro"	629 627 659	112 227 247 252 258	395 402 380 407 358
do do	616		

Number	of cargoes of rye	Ð	
Quantity	of cargoes of rye through the Welland Canal to Kingston	3,038	tons
do	transhipped at Kingston	1.096	do
do	taken to Montreal in vessels in which it arrived at Kingston	1,942	do

RECAPITULATION of the Number of Vessels passed down the Welland Canal, with Cargoes of Grain to Kingston, the Quantity transhipped, and the Quantity taken to Montreal for the Season of 1892.

·	Tumber of Cargoes.	Total.
Vheat. orn ease. ye.	11 10 1 5	
	•••••	27
uantity of wheat through the Welland Canal bound for Montreal do corn do do do pease do do do rye do do	Tons. 8,174 6.592 524 3,038	Tons.
Total through Welland Canal		18,328
Wheat Corn Pedse Rye Total transhipped	8,148 1,901 253 1,096	6,398
tuantity of the above cargoes taken to Montreal in vessels in which it arrived at Kingston, viz.:— Wheat	4,405 4,691 271 1,942	
Total quantity to Montreal		11,309 621
Total	}-	18,32

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 1892.

		Canadian	Vessels.		United States Vessels.			TOTAL.		
Articles.	1	Steam.		Sail.		Steam.		Sail.	Steam	m and Sail
Aniioms.	No.	Tonnage	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
•	98	69,430	60	30,082	69	62,288	20	11,837	247	173,637
	_	Tons.		Tons.		Tons.		Tons.		Tons.
Corn		16,776 524		7,360		27,742		5,341		57,219 524
Pease		5,066 74,528		5 4,764		2,862 56,520	•••	608 16,739		8,536 202,551
Total		96,894		62,124		87,124		22,688	,	268,830

			Tons.
98	cargoes in	Canadian steam vessels, total quantity	96,894
60	do	do sailing do do	62,124
69	dio	United States steam vessels, total quantity	87,124
20	do	do sailing do do	22,688

P.—Total Quantity of Grain arrived at Kingston in Vessels which passed down the Welland Canal during the Season of 1892.

Summary.	Tons.	Tons.
Canadian steam vessels, 98 cargoes of grain	96,894 62,124	
Total in Canadian vessels		159,018
United States steam vessels, 69 cargoes of grain	87,124 22,688	
Total in United States vessels		109,812
Total in Canadian and United States vessels		268,830
Distributed as follows:— 2 cargoes taken to Montreal in vessels in which it arrived at Kingston 25 do arrived at Kingston in Canadian vessels with an aggregate quantity of	18,328	924
Quantity taken to Montreal in vessels in which it arrived in Kingston Vessels arrived at Kingston and discharged all their cargoes as follows: 131 cargoes in Canadian vessels		11,309
Quantity transhipped to Montreal	238,361	
Total quantity transhipped to Montreal		244,759
Quantity taken to Ogdensburg and transhipped to Montreal		4,341
		17,497
Total		268,830

Q.—Comparative statement of the Quantity of Grain passed down the Welland Canal to Kingston for the Seasons of 1891 and 1892.

	189	1.	1892.		
	No. of Cargoes.	Tons.	No. of Cargoes.	Tons.	
Quantity arrived at Kingston in Canadian vessels do do do in United States vessels	209 / 77	190,664 90,153	158 89	159,018 109,812	
Total.	286	280,817	247	268,830	
Quantity transhipped at Kingston in Canadian vessels for Montreal Quantity taken to Montreal in vessels in which it arrived at		259,655		244,759	
Kingston Quantity remaining at Kingston Quantity transhipped to Cardinal Quantity taken to elevators at Ogdensburg and transhipped		2,725		12,233 3,659 3,838	
to Montreal		280,817		4,341 268,830	

R.—Statement showing the Quantity of Oats arrived at Montreal by Canal and Rail during the Years 1884 to 1892, inclusive, and the total shipments for the same period.

Years.	Receipts via Lachine Canal.	Receipts via C. P. R. and G. T. R. is reported as follows.	Total Receipts at Montreal.	Shipments via River St. Lawrence and G. T. R.
	Bushels.	Bushels.	Bushels.	Bushels.
1884. 1885. 1886. 1887. 1888. 1899. 1890. 1891.	297,326 678,866 650,910 341,568 123,213 119,958 200,896 102,162 341,376	528,032 550,425 595,756 452,748 542,007 812,750 1,448,187 1,616,064 5,536,818	825, 358 1,229,291 1,246,666 794,316 665,220 932,708 1,649,083 1,718,166 5,878,194	246,643 1,463,932 2,033,098 509,010 70,809 88,914 244,380 791,691 5,081,459

² vessels took their cargoes through to Montreal intact in 1892 against 3 in 1891.

'25 vessels lightered a portion of their cargoes at Kingston in 1892 against 44 in 1891.

220 vessels discharged the whole of their cargoes at Kingston in 1892 against 239 in 1891.

S.—The Quantity of Coal passed through the Welland Canal during a series of years from 1885 to 1892, inclusive, and the amount of Tolls Colleted thereon, is as follows:—

Years.	From Canadian Ports to Canadian Ports.	United States Ports United States Ports		From United States Ports to Canadian Ports.		Total Tons.	Amount of Tolls Paid.
,	Up.	Up.	Down.	Up.	Down.	N.	20 cents a ton.
	Tons.	Tons.	Tons.	Tons.	Tons.	*	\$ cts.
1885	.	193,442	4,974	10,321	31,350	240,087	48,017 40
1886. 1887.		184,564 81,617	5,400 1,163	22,187 26,775	49,724 25,968	261,875	52,375 00
1888.			878	17.365	20,908	135,523 217,807	27,104 60 43,561 40
1889		226,352	1,124	12,036	25,931	265,443	53.188 60
*1890	80	116,616	615	17,280	22,781	202,372	38,222 30
1891	. 1	185,190	1,382	17,374	20,698	224,644	44,928 20
1892	.	183,244	651	12,391	15,330	211,616	42,284 13

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 and 1892 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 of 1885 to 1892, 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.
1885. 1886. 1887. 1888. 1889. 1890. 1891.	Tons. 5,035 3,301 7,579 8,341 5,360 6,538 7,951 7,543	Tons. 122,829 118,802 121,618 123,050 124,290 136,168 141,701 157,134	Tons. 127,864 122,103 129,197 131,391 129,650 141,706 149,652 164,677	\$ cts. 18,424 35 17,820 70 18,242 70 18,423 90 18,604 90 20,275 20 21,255 15 28,570 10

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 1883 to 1892, inclusive.

1883. Lakes, pot and pearl		Tons.	Tons.
Agricultural products, not enumerated, vegetable do do animal Agricultural implements			
do do animal Agricultural implements			
Agricultural implements		3 6	3
Barleyboal			1
			735
		89,344 6,815	5,372 66,128
rockery and earthenware	100,101	0,010	00,128
ish			î
lour	5,089		2,041
urniture	6	8	25
lass [orses	. 1	.9	
ides and skins	77	26	60
on, railway.	· · · · · · · · · · · · · · · · · · ·		142
lo all other	5	39	90
ard and lard oil	6	1	5
[eal, all kinds.	1,188	138 2	8,579
leats, other than pork	• • • • • • • • • • • • • • • • • • • •	2	12
Olasses	43	4	i
ails			51
ats`			731
il, in barrels		300	206
il cake	726		1
ork	212	13	163
aint			6
ags			271
y6	518		
alttone, intended for cutting		2,584	8
do wrought	269	353	87
do wrought	. 2		662
teel	. ` 1		
ugar	. 2	,	
pirits, beer, &cbacco, raw.	. 80	98	156
allow.		2	
Theat		3,835	54,282
hite lead			5
700l			95
ll other merchandise, not enumerated	. 52	109	665
arrels, emptyirewood, in vessels		930	
oops		300	26
umber, sawn, in vessels	6,311	792	34,732
taves and headings, barrel		31	
do pipedo West India	2,024	2,738	
taves, salt barrel	401	1,946	25
hingles			9
plit posts and fence rails, in vessels		1	1
imber, square	2,604	74,329	
Voodenware and wood, partly manufactured	. 199	35	30
Total	205,394	184,502	175,455

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.
1884,	Tons.	Tons.	Tons.
Ashes, pot and pearl	36	. 10	
Agrichtural products, not enumerated, vegetable do do animal	l	7	
do do animal		$\dot{2}$	******
Agricultural implements		. 9	
Barley	38	52	
Barley	,.00	32,598	4 909
Jorn .	55,552	9,552	59 707
Sattle	00,002	3,502	53,707
ish.		13	1
No	0.050	13	
Clour		100	1,710
furniture	10	17	16
lass, all kinds		10	1
lay, pressed			13
		2	6
Hides, horns and hoofs	. ,		73
ron, all other.		. 8	40
cryolite and chemical ore, and other ore, except iron.		10	
ard and lard oil		2	7
Meal, all kinds		5	8,170
Meats other than nork		. 28	4
Marbie			l i
Vails	1		28
Dats	872		9.874
Oil, in barrels	78	354	255
ease.	433		
Pork	318	· • • • • • • • • • • • • • • • • • • •	
Rye.	477	· · · · · · · · · · · · · · · · · · ·	
Salt.		364•	
Stone, intended for cutting		2.059	15
do mended for cutting	017		
do wrought	317	190	7
Seeds, all kinds	j	111	511
heep.	[• • • • • • • • • • • • • • • • • • •		1 1
pirits, beer, &c		11	26
Curpentine	1		
Wheat	84,822	2,549	40,975
44 Other prinds and merchandise not enumerated	37	104	480
Parrels, empty.	37	3	1 .
Hewood, in vessels		930	1
duli Der. Rawn, in vegsels	7.531	85	45,239
Juaves and heading, barrel		22	
do pipe	200	487	
do West India.	863	406	
Shingles.	1	7	76
Illiber, somere	7 365	50,414	L
Woodenware and wood, partly manufactured	68	3	11
zacooou, puntaj municipulou (1111111	1	,	1

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	513 - 1 2		228	
Barley Coal Corn Crockery and earthenware	44,401 1	31,350 9,906	4,974 63,229	
Flour Furniture Horses Iron, pig do all other	5 2	11 1 100	124	
Iron ore		2	987	
Meal, all kinds		568	882	
Paint. Pork Salt	30	68		
Stone, for cutting				
Seeds, all kinds. Spirits, beer, &c. Tallow.	[25 4 2,003	53,235	
Wheat All other merchandise not enumerated Barrels, empty	. 28 128	8 8	2	
Firewood, in vessels	19,945	540 6,774 604	49,561	
Shingles Timber, squareWoodenware	. 11,767	69,616	. 111	
Total	132,968	125,762	173,333	

A refund of 10 cents per ton was allowed on wheat, corn, cats, 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 Ontario Ports between Port Dalhousie and Cornwall.	Quantity passed down to United States Ports.
1886.	Tons.	Tons.	Tons.
shes, pot and pearl	44	10	11
pplesgricultural products, not enumerated, vegetable	49	1	
ricks			41
ement and water lime			26
0al		49,724	5,400
orn.	116,517	8,871	93,503
lour	2,934		7,591
urniture	6	15	21
lass, all kinds lorses	1		2 1
ides and skins, &c	1		411
ron, pig		617	48
do all other	15	12	ī
ard and lard oil	22	9	13
leal, all kinds	125	18	13,201
leats, other than nork	67	64	1
larble		2	
folasses	28	7	····
ails		41	4 7700
Ats.	6	1 41 1 28	4,790
il ease	608	20	0
Ork.	936	407	106
aint	1	i	
Mark /	\		13
		29	1
whe for cutting		4,314	,,
	1	103	38
cu. ali kinda	33	3	236
WKST	1	16	3
pirits, beer, &c.	. 8	12	21
Obacco, raw allow		2	1
Hear	86,815	969	53,258
901	1		1,125
ACCUBANCISE not enumerated	100	46	793
	. 6	2	
*Value i	1 1	20	1
umber, sawn, in vessels	18,707	7,546	53,124
lasts, spars, &c. taves and headings, barrel		22	
do do pipe	332	57 339	1
do do Wast India	907	444	
hingles	1	12	463
······································	- 16 740	44,335	1
Voodenware, &c	101	45	2
/ 1		.	-
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.
Coal. Corn Fish Flour Furniture Horses Hides, skins, &c. Iron, pig do all other Lard and lard oil Meal, all kinds Meats, other than pock Nails Oots Oil Oil cake Peasse Pork Stone, for cutting do wrought Seeds Sugar Spirits Wheat Wool All other merchandise, not enumerated Barrels, empty Lumber, sawn	33 24,609 6,140 9 1 	25,968 6,898 9 1 1.137 7 6 42 15 190 86 3,531 543 4 9 4,940 123	2 9 1,709 1,163 83,431 2 11,780 24 2 170
Staves and headings, barrel	184 131 14,390	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. 21th 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	l 	
pples		4 5	
arley			2
ement and water lime			4
oal		27,183	878
orn	66,443	25,469	102,974
rockery and earthenware	6 000	4	1
lour	3,865		8,563
urniture	2 3	1	30
lass, all kinds	3	2 20	
lay, pressed		20	• • • • • • • • • • • • • • • • • • • •
lorses	Z		90
lides and skins		549	39
ron, pig	418	490	
do all other	54	12	18
ard and lard oil		12	11,598
feal, all kinds	39	6	11,050
leats, other than pork	35	0	26,510
ateil		3	20,010
ease.		54	
	nek	61	19
Ork .	200		14
lags			179
			1.0
stone, for cutting.	• • • • • • • • • • • • • • • • • • • •		
do wroughteeds, all kinds	10	1 1	48
teel	12	1	3
ugar			4
Pirits.		2	151
Lallow.	•	-	1
Wheat	09.015	14,365	39,999
Wool	93,915	14,000	18
all other goods and merchandise not enumerated	105	34	1,435
Sarrels, empty.	40	J 371	133
duider, gawa	1 5 174	4,515	45,818
taves and headings, barrel	15	7,015	20,010
do pipe	124		1
do West Indies	1.623	13	· · · · · · · · · · · · · · · · · · ·
do golt hormal		10	1
hingles	1	1	R
"MILET SCHOOL IN VOGGOIG	11,586	33,669	1
Woodenware	25	30,000	R
	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	
Coal		25,931	1,124
Jorn.		11,200	147,045
Crockery and earthenware	**** ***** * * * *	1	1,
Flour	6,841	5	F 015
Furniture	0,021		5,017
Horses	9	4	30
Iron, pig.		613	•
do all other			520
Lard and lard oil		5	19
Meal, all kinds	148		17,224
Meats other than pork	32	2] 3
Molasses	320		88
Oil, in barrels *			27,492
Oil cake	798	. 2	
Potatoes			1
Pork.	1,220	114	21
Rye	1.284	634	
Salt		316	
Stone, for cutting			
do wrought			2
do not suitable for cutting	3	375	1,681
Spirits, beer, &c			151
Fallow	20	. 0	190 13
Wheat	70,815	7,241	39,229
Wool		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	452
Merchandise	193	129	1.591
Barrels, empty			173
Lumber, sawn.		4,669	71,055
Masts, spars, &c		220	
Saw logs.		852	150
Staves and headings, barrel		4	1,58
do do nipe		304	
do do West India		559	
Shingles			51
Split posts, &c			
Cimber, square		70,579	246
Woodenware, &c			2
Total	909 997	190 504	919 554
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.	down between Truck		down o Montreal. Canadian Ports between Port Dalhousie and	
1890.	Tons.	Tons.	Tons.		
Ashes	70 14 1				
Barley Bricks Coal Corn.	134,966	22,781 11,584	6,519 4 615 180,842		
Fish Flour Gurniture Flass, all kinds	3,065 1 1	i	9,204 21		
Horses, Iron, all other. Kyrolita	3	1,280	1 1,620 30		
Lard and lard oil	222 479 6	73	20,482 15 27,030		
Oil, in barrels Oil cake Paint Peanse	2		3 14		
Pork Potatoes Rye. Salt.	221 1,120	19 1 701	88		
Stone, for cutting do wroughts Seeds, all kinds Spirits, &c	2 26	5,761 639	18 135 228		
Whoat	54 75,515	5,241	31,527		
White lead. Merchandise. Barrels, empty. Trewood, in vessels	142	1,398	1,822		
Lumber, sawn, in vessels do rafts Staves and headings, pipe do West Indies	384	3,767 187 36	47,590		
Shingles. Quare timber, in vessels		73,112 17,683	14		
Corn. 16,033	219,539	144,301	327,833		
Oats	16,433		*16,433		
Total	235,972	144,301	811,400		

^{*}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 cats for export), when shipped for Montreal or some port east of that point per Order 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.
Laines.	40	.	l 1
Agricultural products	2		42
Barley	80 890	E 144	8,113
Jorn	52,539	5,144 20,698	127,494 1,382
Plour	3,324	20,000	6,802
ish			1
Furniture	2	2	7
Jorses	2	2	3
Hav		• 21	
ron, pig	371	128	
do all other	100	1,036 16	10 10
Meal, all kinds	67		26,096
Meats, other than pork		1	2
Molassee.		20	18 52,823
);i			02,023
Pease	390		
Pork	201		73
Rags	64,978	969	60
Beeds, all kinds	2	l	256
Salt		1,861	494
do wrought.	•••••••••••••••	6,602	
Cobacco	1		
Tallow		9	8
Wheat	159,785	692	32,097
Staves, pipe	105	8 57	167
Wool			1,237
Merchandise.	278	6	1,779
Kryolite	2,991	1,098 1,300	1,773 56,456
do in rafts	917	1	90,300
l'imber, square, in rafts	5,680	14,638	[
Barrels			4
	291,776	54,315	317,209
Corn 12,169			1
Wheat	17.017		*** 0**
· · · · · · · · · · · · · · · · · · ·	17,817		*17,817
Total	309,393	54,315	299,392

[&]quot;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.

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 year 1892.

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	2	
Apples.	54		
Sarley	53,689	7,637 14,839	6,483 131,222
loal.	2.874	14,039	651 11,018
lour.	2,0,2		11,010
urniture.	i		7
lides and skins	20		l
Torses.	2		
ron, railway.		100	
do all other	10	765	1
feal, all kinds	16		31,724
Meats, other than pork	. 94		29
Date	• • • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·	36,935
01	524	•	**********
Pease Oratoes.			1
ork.			44
Rye	9,119	273	
lelt		865	
eeds, all kinds	. 75	1	50
Steel]		1
tone for cutting		1,264	
Sugar	.		20
Wheat	194,281	5,373	26,960
W Diskey, hear enjoits &c	. 6	15	46
VV OOI		.]	. 70
Merchandise not enumerated	. 36	13	1,304
Barrels empty	. 1		. 29
Amber sawn, in vessels	1,678	150	83,403
yuura timpop	1 441	42,768 80	440
Staves and headings, pipe do do West India.	200	76	
Shingles			25
Total	000 144	71 888	990 400
	263,144	74,227	330,403
"W heat	+4,341	-4,341	
Total	267,485	69,886	\$30,403

^{*}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, peace, barley, rye, cats, fiax seed and buckwheat, which peaced 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.

STATEMENT showing the quantity of freight passed down the Welland Canal to Canadian Ports, &c.—Continued.

RECAPITULATION.

${f Articles}.$	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.
Barley	38 55,552 872 477 84,822	52 9,552 2,549	53,707 9,874 40,975
Total Grain	141,761 26,954	12,153 88,272	104,556 60,987
Total	168,715	100,425	165,543
1885.			·
Barley	44,401	9,906	228 63,229 882
Pease	52,157	2,003	53,235
Total Grain	96,569 36,399	11,909 113,853	117,574 55,759
Total	132,968	125,762	173,333
1886.			
Barley	116,517	8,871 41	93,503 4,790
Rye Wheat	86,815	969	53,258
Total GrainOther Articles	203,940 40,574	9,881 108,246	151,551 82,703
Total	241,514	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.

STATEMENT showing the Quantity of Freight passed down the Welland Canal to Canadian Ports, &c.—Concluded.

 ${\bf RECAPITULATION} - Concluded.$

RECAPITULAT			
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.
1888.	Tons.	Tons	Tons.
Barley Corn. Oats	66,443	25,469	102,974 26,510
Pease Rye Wheat	93,915	54 632 14,365	179 39,999
Total Grain	160,358 23,541	†40,520 73,281	169,664 68,803
Total	183,899	113,801	238,467
Barley 1889. Corn. Oats.	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
Barley 1890.			6,519
Oats. Pease	.1 879	11,584 73	180,842 27,030 14
Rye Wheat	1,120 75,515	5,241	31,527
Total Grain	. 228,513 7,459	16,899 127,402	‡245,932 81,901
Total	. 235,972	144,301	327,833
Barley 1891. Corn. Oats	52,539	5,144	8,113 127,494 52,823
Pease Rye Wheat	. 390 64,978 159,785	969 692	32,097
Total Grain Transhipped at Ogdensburg to Montreal	. 277,692 + 17,817	6,805	_\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
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.—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.
1892.	Tons.	Tons.	Tons.
BarleyOats		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
Quantity taken to Ogdensburg and transhipped to Montreal	* 4,341	4,341	
Total Other articles	261,954 5,531	8,942 60,944	201,540 128,863
Grand total	267,485	69,886	330,403

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.	Timited States
1883.	Tons.	Tons.
Frain	10,650 173,852	121,876 53,579
Total	184,502	175,455
Grain	12,153 88,272	104,556 60,987
Total	100,425	165,543
Frain	11,909 113,853	117,574 55,759
Total	125,762	173,333
Grain	. 9,881 108,246	151,551 82,703
Total	118,127	234,254
Grain	11,838 55,794	134,868 69,447
Total	. 67,632	204,315
Grain. 1888. Other articles.	25,599 73,281	169,664 68,803
Total	98,880	238,467
Grain. 1889. Other articles	19,075. 111,509	213,766 99,808
Total	130,584	313,574
Grain	16,899 127,401	* 245,932 81,901,
Total	144,300	327,833
Grain. 1891. Other articles.	6,805 47,510	* 220,527 96,682
Total	. 54,315	317,209
Grain. 1892. Other articles	8,942 60,944	5日: : 07 201,540 日記と近 28,863 。
Total	69,886	330,403

^{*} Of this quantity of grain 16,433 tons was transhipped to Montreal in 1890; and 17,817 tons in 1891 $9a*-6\frac{1}{2}$ 83

CANAL COMPARATIVE Statement for Years ended

	January.	February.	March.	April.	May.
	\$ ets.	\$ cts.	\$ cts.	\$ cts.	\$ cts
Welland Canal, 1891do 1892	205 00	242 54		6,519 99 11,510 42	28,972 97 25,056 46
Increase	205 00	242 54		4,990 43	3,916 51
St. Lawrence Canals, 1891	15 5 2			201 50 570 75	8,151 22 9,949 00
Increase	15 52			369 25	1,797 78
Chambly Canal, 1891				19 45	3,310 07 3,463 15
Increase				19 45	153 68
Rideau Canal, 1891			72 00	41 14 9 20	609 33 847 23
Increase Decrease			72 00	31 94	237 90
Ottawa Canals, 1891				541 88 432 50	8,064 90 6,526 48
Increase				109 38	1,538 42
St. Peter's Canal, 1891	31 10		1 06	28 89 180 14	154 70 254 58
Increase Decrease	31 10		1 06	151 25	99 88
Trent Valley Canal, 1891do 1892				2 70 78 50	71 55 59 00
Increase				75 80	12 5
Murray Canal, 1891do 1892				13 52 24 39	54 8 66 3
Increase				10 87	11 4
Total increase		242 54	73 06	5,475 73	3,167 3

Amount refunded on account of reduction of tolls on grain through Welland and St. Lawrence Canals, 1891, \$49,834.98; actual revenue, \$300,516.99.

Amount refunded on account of reduction of tolls on grain through Welland and St. Lawrence Canals, 1892, \$40,030.83; actual revenue, \$318,680.21.

REVENUE.

31st December, 1891 and 1892.

\$ cts. 5,662 27 3,462 27 800 00 5,732 89 6,916 14 1,183 25 3,176 19 8,021 47	\$ cts. 31,879 90 26,650 27 5,229 63 12,600 99 12,486 40 114 59 2,746 49 3,719 52 973 03	\$ cts. 33,200 17 31,281 49 1,918 68 10,688 44 10,978 91 285 47 2,180 91 3,072 86 891 95	\$ cts. 29,979 75 30,205 81 226 06 10,892 53 12,225 28 1,332 75 3,197 81 3,494 99	\$ cts. 14,234 57 21,176 64 6,942 07 8,640 03 9,043 62 403 59	\$ cts. 976 16 2,053 42 1,077 26	\$ cts 200,403 30 196,477 92 3,925 38 80,653 97 88,125 29 7,471 32
3,462 27 800 00 5,732 89 5,916 14 1,183 25 3,176 19 3,021 47 154 72 1,145 24	26,650 27 3,229 63 12,600 99 12,486 40 114 59 2,746 49 3,719 52 973 03	1,918 68 10,688 44 10,978 91 285 47 2,180 91 3,072 86	10,892 53 • 12,225 28 1,332 75 3,197 81	21,176 64 6,942 07 8,640 03 9,043 62 403 59 1,897 20	2,053 42, 1,077 26 	3,925 38 80,653 97 88,125 28 7,471 32
5,732 89 5,916 14 1,183 25 	12,600 99 12,486 40 114 59 2,746 49 3,719 52 973 03	10,688 44 10,978 91 285 47 2,180 91 3,072 86	10,892 53 • 12,225 28 1,332 75 3,197 81	8,640 03 9,043 62 403 59	101 37 82 34	80,653 97 88,125 29 7,471 32
3,916 14 1,183 25 3,176 19 3,021 47 154 72	12,486 40 114 59 2,746 49 3,719 52 973 03	2,180 91 3,072 86	1,332 75 3,197 81	9,043 62 403 59 	82 34	7,471 32
3,176 19 3,021 47 154 72	2,746 49 3,719 52 973 03	2,180 91 3,072 86	3,197 81	1,897 20	19 03	
154 72	3,719 52 973 03	3,072 86	3,197 81 3,494 99	1,897 20		10 504 00
 1,145 24		801 95		1,432 37]	19,534 88 20,980 85
			297 18	464 83		1,445 97
983 36	966 88 923 33	81 9 04 701 69	901 42 721 04	508 61 430 27	2 84 0 50	6,145 89 5,499 14
161 88	43 55	117 35	180 38	78 34	2 34	646 75
5,898 19 5,621 12	5,422 33 7,225 16	4,598 07 6,28 2 02	4,649 97 6,545 83	3,343 87 2,759 03	1 00	40,458 3 9 43,084 6 8
277 07	1,802 83	1,683 95	1,895 86	584 84	1 00	2,626 29
102 35 413 07	111 36 412 9 4	286 05 481 83	438 40 443 45	383 37 362 32	163 66 207 13	1,781 76 3,155 86
310 72	301 58	195 78	5 05	21 05	43 47	1,374 10
129 86 159 11	139 60 137 86	125 24 114 30	95 05 90 07	19 80 49 38		703 73 802 01
29 25	1 74	10 94	4 98	29 58		98 28
146 09 124 86	178 74 10 3 3 5	63 85 80 22	46 05 64 11	31 28 41 75		670 05 585 2 9
21 23	75 39	16 37	18 06	10 47		84 76
1,708 32	2,387 46	1,026 55	3,599 60	6,236 65	1,098 36	8,359 07
	\$,898 19 \$,621 12 277 07 102 35 413 07 310 72 	102 35 111 36 413 07 412 94 310 72 301 58 129 86 139 60 159 11 137 86 129 25 174 124 86 103 35 116 72 123 75 39 1,708 32 1,708 32	3,898 19 5,422 33 4,598 07 3,621 12 7,225 16 6,282 02 1,802 83 1,683 95 277 07 286 05 413 07 412 94 481 83 310 72 301 58 195 78 129 86 139 60 125 24 159 11 137 86 114 30 29 25 10 94 146 09 178 74 63 85 124 86 103 35 80 22 21 23 75 39 4,708 32 1,026 55 76 1,026 55 76 1,026 55	3,898 19 5,422 33 4,598 07 4,649 97 3,621 12 7,225 16 6,282 02 6,545 83 1,802 83 1,683 95 1,895 86 277 07 111 36 286 05 438 40 413 07 412 94 481 83 443 45 310 72 301 58 195 78 5 05 129 86 139 60 125 24 95 05 159 11 137 86 114 30 90 07 29 25 1 74 10 94 4 98 146 09 178 74 63 85 46 05 124 86 103 35 80 22 64 11 21 23 75 39 16 37 18 06 2,387 46 1,026 55 3,599 60	3,898 19 5,422 33 4,598 07 4,649 97 3,343 87 3,621 12 7,225 16 6,282 02 6,545 83 2,759 03 1,802 83 1,683 95 1,895 86 277 07 584 84 102 35 111 36 286 05 438 40 383 37 413 07 412 94 481 83 443 45 362 32 310 72 301 58 195 78 5 05 21 05 129 86 139 60 125 24 95 05 19 80 159 11 137 86 114 30 90 07 49 38 29 25 29 58 1 74 10 94 4 98 146 09 178 74 63 85 46 05 31 28 124 86 103 35 80 22 64 11 41 75 21 23 75 39 16 37 18 06 10 47 2,387 46 1,026 55 3,599 60 6,236 65	3,898 19 5,422 33 4,598 07 4,649 97 3,343 87 1 00 3,621 12 7,225 16 6,282 02 6,545 83 2,759 03 1 00 1,802 83 1,683 95 1,895 86 1,895 86 1 00 277 07 111 36 286 05 438 40 383 37 163 66 413 07 412 94 481 83 443 45 362 32 207 13 310 72 301 58 195 78 5 05 195 05 43 47 129 86 139 60 125 24 95 05 19 80 19 80 169 11 137 86 114 30 90 07 49 38 10 29 25 29 58 29 58 140 09 178 74 63 85 46 05 31 28 10 124 86 103 35 80 22 64 11 41 75 10 10 47 10 4

428,709 476,246 47,537

424,116

3,275 1,749

57 22

. . . .

28 28 12

 $\frac{112}{26}$

74

.........

. 98 .

Increase. Decrease

Ottawa Canals, 1891.....do

1,526

COMPABATIVE STATEMENT showing the Quantities of Vegetable Food and Lamber passed through the Canals during the Years ended 31st December, 1891 and 1892.	ities of Vegetable Food and Lamber ended 31st December, 1891 and 1892	otable Fe	od and I , 1891 an	d 1892.	assed thi	ough the	Canals	during th	c Years
	FLOUR.	WHEAT.	CORN.	BARLEY.	OATS.	Rye.	АLL Отнек.	Lсмвек.	Total.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Welland Canal, 1891	13,517 17,048	198,658 232,019	185,180 192,548	8,113 6,433	52,959 37,173	65,888 9,392	28,042 32,815	64,887 86,072	617,244 613,500
Increase	3,531	33,361	7,308	1,680	15,786	56,496	4,773	21,185	3,744
St. Lawrence Canals, 1891	8,123 8,546	190,843 262,890	67,603 59,340	17,606	8,923 44,294	66,917 10,1_9	42,730 54,597	48,322 37,475	451,067 486,601
Increase.	423	72,047	8,263	8,266	35,371	56,798	11,867	10,847	35,534
Chambly Canal, 1891.	228 285			842	1,239 3,034		2,474	97,561 91,464	102,344 95,690
Increase	57			842	1,795	: :	1,567	260'9	1999
Rideau Canal, 1891do 1892.	969 369	290 65	22 OZ	373 82	124 1,551	170 81	437	38.524 29,622	40,630 32,253
Іпстевле. Вестевле	321	225	2	291	1,427	68	56	8,902	8.377

St. Peter's Canal, 1891 do 1892	1,299					: :	: :	2,827	4,126 6,787	- •
Increase. Decrease	916			:-:				1,745	2,661	, 10,
Trent Valley Canal, 1891	83		: :	: :				794	819 1,537	OOT TON
Increase Decrease	25	: : : /:						743	718	
Murray Canal, 1891do	41.41	816 765	භ :	756 573	17	527	519 1,983	834 2,539	3,486 5,986	•
Increase Decrease	27.	15	69	183	22	493	1,464	1,705	2,500	رممی
Total increase. Total decrease.	4,522	105,142	968	11,336	26,382	113,819	15,037	45,143	70,175	101101
			Total Total	Total for year 1891 Total for year 1892	92				1,648,425	1 ap

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA.

A—Continued.
Ü
SUPPLEMENTARY APPENDIX

Articles.	Fr Cans Cans Po	From Canadian to Canadian Ports.	From Canadian to United States Ports.	om disn States ts.	From United States to United States Ports.	States States States ts.	From United States to Canadian Ports.	om States o dian ts.	Tons.	n8.	Total Tons.	Amount of Tolls, Up.	Amount of Tolls, Down.	Total Amount of Tolls.
	Up.	Down.	Up.	Down.	Up.	Down.	ďD.	Down.	Up.	Down.			,	,
,					Ì							e cts.	e cts.	es cts.
Ashes, pot and pearl			:		296			19	296	19 88	19	40.05	8 51 8 22	3 56 59 59
products,		16	16	400					16		200		8	24 70
Agricultural products, not conumerated, animal	-		10						11			1 65	• :	
Barley. Brick.	223	: :	: \$			6,433	: :	::	263	6,433	6.438 883 883	36 44	1,286 60	
Brimstone		: :				: :			:			: :		
Cement and water lime.	314	:02	501					:	815	•		. 78		78
Coal Corn Cattle					183,244	131,222	12,391	15,330	195,635	15,981 192,548 1	211,616 192,548	39,127 00	3,157 13 38,509 60 0 02	42,284 13 38,509 60 0 02
Crockery and earthenware Dyewood and dye stuffs			, /: : :		15				15	6	<u>.</u>	2.25	1 80	4 05
Flax and hemp Flour		4,618	87 2			11,018		1,410	12.	17,046	17,048	0.30	2,601 10	2,601 40
Gypsum Glass (all kinds) Hay (pressed)		500	: 2 : 83 : :		: :IG	•		1 : :	- S	200	00 8	133	22	5 00 13 35
Hogs. Horses	- 6 <u>2</u>	\$			=			:01	: :		16	2.08	96 0	3 03
Hides and sking, horns and hoofs		:	:	:	88			20	93	ଛ	113	13 95	4 00	17 95
												-		

Iron, railway	:	1001	3	· —	:::::::::::::::::::::::::::::::::::::::	-	:	:	8	1001	163	9 45	20 00	29 45
	#	765	182	: :	575	:- :	: :	: :	801	. 2992	1,567	115 97	153 20	269 17
al ore and ot iron		: :	: : 69						 			3 45		3 45
		119			3,188	31,724		<u>.</u>	3,190 66.65 107	31,740	31,740 3,190 66 66 107	478 50 9 90 16 05	6,348 00	6,348 00 15 80 478 50 9 90 16 05
	13		27 22			36,935			Q 8	37,173	37,173 44	0 30	7.434 60	7,434 60 3 45
Oil cake Oil cake Pease Potatoes Pork Pork Piston		224	:::::::::::::::::::::::::::::::::::::::						::::8	524	524 1 1 28	8 00	104 0 20 8 8	20 20 20 20 20 20 20 20 20 20 20 20 20 2
								9,392		9,392	9,392		1,878 40	
	2 :				60			1,264	E1	1,265	1,264	S : :	252 80	252 80
	263	E			10,031			4	10,294	125	10,294	1,019 47	25 00	1,019 47 25 00
		000	. : : : : : : : : : : : : : : : : : : :		2,556 2,760 1	- 28 9		: : : : : : : : : : : : : : : : : : : :	2,556 3,142 91	30,1	2,557 3,172 161	383 40 426 30 13 65	0 20 4 19 13 67	2 10 383 60 430 49 27 32
		99 20	80 :146	1 949	108	96		138.81	. 108 . 20 . 245.		108 20 232.019	16 20 3 00 59 64	45,733 27	16 20 3 00 45,792 91
	8	2	1			92				20	70		14 00	14 00
and merchan- rated	1,096	484	255	: : :	37,086	1,304		37	38,437	1,825	40,262	5,651 65	283 06	5,934 71
	: :2	5,655	1,350						1,365	5,655	7,020	33 88	303 11	0 25 337 00

Canal Statistics.

													_	
Articles.	Fr. Cana to Cana Por	From Canadian to Canadian Ports.	From Canadian to United States Ports.	m Jian States	From United States to United States Ports.	States States	From United States to Canadian Ports.	States States dian ts.	Tons.	18.	Total Tons.	Amount of Tolls, Un.	Amount of Tolls,	Total Amount of Tolls.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.				
												s cts.	e cts.	e cts.
Firewood, in rafts	:												: :	
wn, in	:2	1,473	: :es	29,230		54,173		1,178	18	86,054	86,072	1.87	15,425 63	15,427 50
do rafte Masts, spars and telegraph noles in vessels.														
Masta, spars and telegraph O poles, in rafts. O pollow, tice in vessels		3		121	:				ים	217	217	0 25	82.9	0 25 6 78
do rafts	182	1.3		1,055					185	2,3	2,555	9 72	8	104 00
Staves and headings, barrel do do				. 32	: :		: :	88		888	& & E		7 60 16 10 51 10	16 16 16 10 16 10
								9/2		2/0	2/0			01.00
Split posts and fence rails, in	:					3				3	}			
Split posts and fence rails, in		:			: : :	,								
Timber, square, in vessels		8,090		440				35,118 180	0.2	43,648 170	43,648 170	2.82	6,541 16 1,98	6,541 16 4 80
Traverses Woodenware and wood partly manufactured			: :		: .c.		: :		2		t•	2 80		2 80
Total freight paying tolls	4,932	87,642	2,945	32,583	240,182	300,733	12,391	264,390	260,450	685,348	945,798	<u> </u>	47,589 90 130,554 59	178,144 49
Articles having paid full Tolls on the St. Lawrence Canuls, Free.													-	
	_	_	- 6				_			_	-		_	

	8,522 85 8,631 67 17,154 52 240 40 504 24 56,376 59 139,426 66 195,803 25 56,376 70 17,154 52 56,376 70 17,154 52 139,426 66 195,803 25 540 95 133 72
240 240 281 281 282 276 276 282 283 283 283 283 283 283 283 283 283	
2.0 m	ic rents
240 240 240 240 240 240 240 240	hydraul
198	204, 530
	lz, est.
	vessels passengers Total tolls ages Total revenue, e
	240,332
	1
	87.6 82.7
	87,642
	7,750
Cercent and water lime Clay, lime and sand. Crockery and earthenware. Frish Funture. Glass, all kinds. Iron, railway. do pig do all other. Lard and lard oil. Molasses. Nails. Oil, in barrels. Pant. Pitch and tar. Salt. Soda ash. Spirits, beer, &c. Steel. Stone intended for cutting. Stone intended for cutting. Stone intended for cutting. White lead.	Grand total freight

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 26th April, 1893.

ued.	
ntin	
Ş	
A-A	
SUPPLEMENTARY APPENDIX	
N	
PE	
AF	
RY	
TA	
EN	
EM	
PPL	
\mathbf{s}	
_	

Articles.	Fr Cans t Cans Po	rom nadian to nadian orts.	From Canadian to United Stat Ports.	From Canadian to United States Ports.	From United States to United States Ports.	From United States to United States Ports.	Prom United State to Canadian Ports.	From United States to Canadian Ports.	Tons.		Total Tons.	Amount of Tolls, Up.	Amount of Tolls,	Total Amount of Tells.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.			,	
Ashes, pot and pearl		76			792			19	267	19	19 321	\$ cts.	# cts. 3 80 10 80	* cts. 3 %0 50 %5
enumeraked, vegetable Agricultural products, not cenumeraked, animal NAgricultural implements Barley	1 200		100			6,433			11 240	6,433	6,433 240	1 65	1,286 60	1,286 60 36 00
Brimstone			: :81						: :8i			4 35		. 1
Clay, lime and sand					183,244	651	12,391	14,839	195,635	15,490	211,125	39,127 00	3,098 00	42,225 00 38,509 60
Crockery and earthenware Dye wood and dye stuffs Fish		6			15				15	. :6 : :	24	2.25	1 80	4 05
Flax and hemp Flour Furniture			16			11,018		1,410	16.23	12,428	12,430	. 0 30	2,485 60 1 60	2,485 90
Glass, all kinds Hay pressed	18		- &		51				- SS		68	13 35		13 35
Hogs. Horses Horses and skins, horns and			.10		- 8			: N 8	9	: 67 E		0.00	0.40	1 30

		•			•	•		•	•		•	•	6	8
Iron, railway		8	3		·-	-	:		3	33	163	9 45	3	3. \$
do pigdo all other	113	765	182		575	:			692	992	1,535	115 35	153 20	268 55
do ore Kryolite chemical ore and other ore, except iron	: :		69						69		,	3 45		3 45
Lard and lard oil. Meal, all kinds Meats, other than pork		:91			: : : : : : : : : : : : : : : : : : : :	31,724		: :8 : :8	: : :	31,740	31,740		6,348 00	
Marbie Manilla Molasses			N								9,130 107	16 98 16 98 18 98		26 90 16 95 26 95
Nails Oats Oil, in barrels	10		ki 61			36,935		2	8 : 83	36,935	35,935 9	4 80 0 30	7,387 00	
do cake Pease Potatoes Pork		524				<u>- 4</u>				524	524		104 80	104 80 0 20 8 80
Paint Pitch and tar.			8						ୟ :		R :	06 :: 8 ::		
Rags Rye								9,392		9,392	9,392		1,878 40	1,878 40
Rosin Salt GStone, intended for cutting.	10	865	 		67			1,264	13	865 1,264	878 1,264	1 95	. 173 00 252 80	174 95 252 80
do wrought do not suitable for cutting, unwrought Seeds all kinds.		7			10,031	: :26		- 4	10,031	125	10,031	1,003 05	25 00	1,003 05
Sheep	:	:	<u>:</u>	:		:	. :	:	-	:	14			
Sods ash. Steel. Sugar Spirits, beer, &c.	10		: :88 % : :		2,556 2,760 1	184		: : : : : : : : : : : : : : : : : : :	2,556 2,796 91	628	2,557 2,816 158	383 419 419 13 65 65	0.50 13 40 13 40	288 288 288 288 288 388 388
Tobacco, raw. Tallow Tin					108				108 802	· : : : : : :	108	16 20 3 00		28 8 8 8 8 8 8
Turpentine		61,433	-			26,950		138,221	-	226,604	226,605	0 15	45,320 80	45,320 95
Whiting Wool All other goods and merchan						.8				0.2	70		14 00	14 00
dise, not enumerated	222	13	255		37,086	1,304		8	37,563	1,353	38,916	5,634 45	270 60	5,905 05
						81		-		≈	æ :		5 72	5 72
				<u>-</u>					<u>.</u>	<u>: :</u>		: :		

No. (A) 8.—Statement showing the Quantity of each Article of Through Freight, &c.—Concluded.

Articles	Fr Cans Cans Po	From Samedian to to Sanadian Ports.	From Canadian to United States	From snadian to ted States Ports.	From United States to United States Ports.	States States States ts.	From United States to Canadian Ports.	m States dian ts.	Tons.	8	Total Tons.	Amount of Tolls, Up.	Amount of Tolls, Down.	Total Amount of Tolls.
	Up.	Down.	Up.	Down.	Up.	Down.	d'u	Down.	Up.	Down.				1
										-		e cts.	s cts.	& cts.
Firewood, in rafts.		: :		· :		: :	: :		: :	::				
: :=		. 620	:69	29,230		54,173	: :	1,178	: : :	85,231	85,234	0 52	15,332 92	15,333 44
Masta, spars and telegraph poles, in veseith Masta, spars and telegraph														
Railway ties, in vessels do rafts.														
								: :8		: : 88 : :			16 10	16 10.
W.India				:				276		276	276		51 68	51 68
Shingtes Spit posts and fence rails, in						क्ष	:			8 3	25		18 10	18 10
Spitt poets and fence rails, in		:												
in vessels		8,090		440				35,118	: :	43,648	43,648		6,541 16	6,541 16
Therease. Woodenware and wood partly manufactured.	: 69				. 10				2		<u>l</u> -	2	. :	2 80
Total freight paying tolls.	484	72,590	100	29,670	240,182	300,733	12,391	263,273	253,924	666,266	920,190	47,363 67	129,359 28	176,722 95
Articles having posist full total on the St. Laurence Counts, free Ashes, pot and pearl ime.		: :	82		•				88		88 1,570			

1982 1982 1987	Clay, lime and sand Crockery and earthen ware	.63		240 436 6		: :	: :	: : : : : :		<u>6</u> ∞ €	: : : :	0 2 8 8 8		-	
967 214 1,171 1,1	Furmiture		::	300 2						90.0	: .	ကဋ			
10	Iron, rasiway			214					: :	1,171		1,171			
1,000 1,00	do pig	:8	:	4.5	:		:	:	:	74	:	Z 2			
25 25 25 27 28 28 28 28 28 28 28 28 28 28 28 28 28<	Lard and lard oil	8 :	: :	16						£		91			
15	Molackes	•	:	333	:		:	-;- :	:	83 E	:	88 %			
15	Nable bil in harrels	8		103	:		:			200		2 67			
15	Paint		: :	121				:		15	:	15	_		
1,256 1,560 1,565 29,670 240,332 300,738 12,391 130,200 1,434 144 144 144 145 14	Sitoh and tar	33	:		:	:	:		:	15	:	15			
14 206 1 145 1	Mails on the second sec	8	:	1, 2, 3, 2, 3, 3, 4, 4, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	:	:	:	:	:::::::::::::::::::::::::::::::::::::::	2,55	:	359			
1,300 1,300 1,50	pirits, beer, &c.	14		308	: :					ន្ត	:	082 823			
463 887 1 45 1 45 1 45 1 45 1 45 1 45 1 45 1 320 1 320 1 320 1 320 1 320 1 320 1 320 1 320 1 320 1 320 1 320 1 320 1 320 1 320 1 320 1 320 1 320 1 320 1 320 2 86	100	258	-	=======================================	-	- : :	:	:	:	200		698			
468 857 1,330 1,3	tone intended for cutting				:	145		:		145	:	145			
49 27 47 71 286 437 5 286 538 538 3,302 72,590 7,650 29,670 240,332 300,738 12,391 363,680 666,266 929,946 3,302 7,650 29,670 240,332 300,738 12,391 363,680 666,626 929,946 40 passengers 60 53,26 53,26 53,26 57,40 40 free goods 7,654 30 55,511 36,531 36,551 <	ngar.		:	867	:	:	:	:	:	1,320	:	1,320			
49 22 13 3 71 13 13 58 71 13 58 71 13 58 71 13 58 71 58 72 58 72 58 72 58 72 58 72 58 72 58 72 58 72 58 73 58 73 58 73 58 74 57 51 74 51 51 74 51 51 74 51 51 74 51 51 74 51 51 74 51 51 74 51 51 74 51 74 51 </td <td>In</td> <td>:</td> <td>:</td> <td>Į,</td> <td>:</td> <td>:</td> <td>:</td> <td>:</td> <td>:</td> <td>77 27</td> <td>:</td> <td>Ň</td> <td></td> <td></td> <td></td>	In	:	:	Į,	:	:	:	:	:	77 27	:	Ň			
13 13 13 13 13 13 13 13	Valte lead		:	e &	:	:	:		:	2	:	2.0			
96 487 5 5 588 538 538 589 448 58 583 56 51 56 51 30 <	Val		:	3 2	:	:				23	. :	13			
3,302 72,590 7,656 29,670 240,332 300,733 12,391 263,273 263,680 666,266 929,946 Total tolls on vessels do free goods Total through tolls Total t	Lerchandise	:		437		Ď		:	:	538		823			
3,302 72,590 7,656 29,670 240,332 300,733 12,391 263,273 263,680 666,266 929,946 8,094 44 8,237 62 Total tolls on vessels do free goods Total through tolls Total through tolls \$1,434 80 55,511 36 137,654 30	Cryolite, free, having paid full tolls on the Rideau Canal	:	:	988	:	:			-	986	:	586			
8,094 44 8,237 62 53 26 57 40 81,434 80 65,511 36 137,654 30	Grand total, freight	}	Į.	7,655	29,670	240,332	300,733	12,391	263,273	263,680	666,266	929,946	••••••		
55,511 36 137,654 30 193,165					Total to	olls on ver	ssels ssengers.				69		48	8,237 62	16,332 06 110 65
							Tota	d through	tolls	:	:	<u>!</u>	1 36 13	7,654 30	193,165 66

B. H. TEAKLES, Compiler of Canal Statistics.

DEPARTMENT OF RAILWATS AND CANALS,
OTTAWA, 26th April, 1893.

SUPPLEMENTARY APPENDIX A-Continued.

No. (A.) 9.—Statement showing the Quantity of each Article of Way Freight transported on the Welland Canal and the Amount of Tolls collected thereon during the Season of Navigation in 1892.

Total Amount of Tolls.		e cts.	5 74	0 44	73 70 55 25 59 13 0 02	115 50 0 02 5 00	1.73
Amount of Tolls,		e cts.	5 74		59 13 59 13 0 02	115 0 02 5 00	0 22
Amount of Tolls, Up.		e cts.	2 10	0 44	73 70		1 18
Total Tons.			2230	8	786 70 491	4,618	
z .	Бомп.		223		491	4,618	
Tons.	Up.		16		98.2		29
From United States to Canadian Ports.	Down.				491		
From United State to Canadian Ports.	Up.						
From United States to United States Ports.	Down.						
From United Str to United Sta Ports.	Up.	,			.,,		
From Canadian to to United States	Down.		400				
From Canadian to to to Every United State	Up.		16		472		
From Sanadian to to Sanadian Ports.	Down.		91		70	4,618	
Fr Cana Cana Cana Por	Up.			: : : : : : : : : : : : : : : : : : : :	314		60
Articles.			Ashes, pot and pearl. Apples. Agricultural products not enumerated vegetable Agricultural products not	enumerated, animal. CAgricultural implements Barley Bricks Bonea	Brinstone Cement and water lime Clay, lime and sand. Coal Coal Coattle Cattle	Dye wood and dye stuffs. Dye wood and dye stuffs. Flax and hemp. Flour. Furniture. Gypsum Glass, all kinds.	Hay, ipressed Hogs Hogs Hores Hides and skins, horns and hoofs

S Victoria.	Sessional		(No.		A. 1893
0 62 0 15 47 80 1 75		16 42		7 0 27 0 27 8 471 96 471 96	29 66 0 25 337 00
47 66 1 75				0 19 0 27 412 47	12 46 0 25 303 11
0 62		16 42		6 9 9 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	17 20
28.88888888888888888888888888888888888		983		355 3 3 5,414	1,346
8,5%				3,365	5,655
8				346	874
				280	
				<u> </u>	
				240	3550
88				133 3	471 5,655 1,3
				346	15 50
		ing.		<u>: :::::::::::::::::::::::::::::::::::</u>	
do pig do all other Tron ore, Kryolite chemical ore and other ore, except iron Lard and lard oil Meats, other than pork Marbile Monills Monills Monills Noils Onks	Oil cake. Pease Potatoes Pork Pitch and tar. Rags	Rye Rosin Salt Stone intended for cutting do wrought murrought murrought	Seeds, all kinds. Sheep. Soda ash	Steel Syprits, beer, &c. Tobacco, raw Tallow Tin Turpentine White lead Whiting Wool.	All other goods and merchandized on the commerated. Bark. Bark. Barkes. Barkes. Ploats. Floats. Fire wood, in vessels.
do pig do all other ore Kryolite el other ore, Lard and lar Meal, all kim Marble Manilla Molasses Oals	Oil cake. Pease Potatoes Pork Paint Pitch and ta	Rye Rosin Salt do wroi do wroi	Seeds, Sheep.	Steel Sugar Spirits, beer, Tallow Tin Turpentine Wheat White lead White lead	dize 1 dize 1 Bark Barrels Boat kr Floats

No. (A) 9-Statement showing the Quantity of each Article of Way Freight transported, &c.-Concluded.

t Total		cts.		71 94 06	:	0 25 78 6 78	94 33 104 05 7 60 7 60			198 4 80		31 1,421 54
Amount of Tolls, Down.		49		11. 26		9	:					1,195 31
Amount of Tolls, Up.		s cts.		1.35		0	9.72			2 82		226 23
Total Tons.		,		838		217	2,555			0.11		25,608
Tons.	Down.			823		217	2,370			02		19,082
To	Up.			15		ı,	185		: ;	100		6,526
From United States to Canadian Ports.	Down.		: :									1,117
	Up.											
From United States to United States Ports.	Down.											
Fr United United Po	Up.	-	<u> </u>	<u> </u>			- 10.10					
From Canadian to United States Ports.	Down.				<u>:</u> :	121	1,065					2,913
Fr Cam United	Up.				:							2,078
From Canadian to Canadian Ports.	Down.			823		: :8	1,315			70		15,052
Fr. Cans	Up.			15	:	70	185			100		4,448
Articles.			Firewood, in rafts Hoops	Hop poles. Lumber, sawn, in vessels	Masts, spars and telegraph	Masts, spars and telegraph poles, in rafts.	do rafts Saw logs Staves and headings, barrel	do pipe do W. India Staves, salt barrel.	Split posts and fence rails, in vessels Split posts and fence rails, in Split posts and fence rails, in	Timber, square, in vessels do rafts	Woodenware and wood partly manufactured.	Total freight paying tolls.

98

822 46 393 59	2,637 59
394 05 183 00	865 23 1,772 36
428 41 210 59	1
Total way tolls on vessels do passengers.	Total way tolls

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 26th April, 1893.

SUPPLEMENTARY APPENDIX A-Continued.

No. (A) 10.—General Statement showing the Quantity of each Article transported on the St. Lawrence Canals and the Amount of Revenue collected during the Scason of Navigation in 1892.

108		4,318 15 241 10 42 50 4,914 3 864 3 77 152
108		10 50 50 152

177 84 157 48 731 41				18 82 111 25 714 89 110 87 17 65	87 00 246 39 8 58 204 33 133 50 1,130 01 197 05		1,684 41 0 19 47 41 128 52 333 89
0 15 0 38 72 52	2 78 31 18 0 53		2,854 7 4 28 9 82 12 66 2 75		85 16 80 90 90 90 90 90 90 90 90 90 90 90 90 90		492 10 0 59 70 77 227 19
177 69 157 10 658 89				1 66 00 1 1 66 00 713 37 17 65	_	24 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1,192 31 0 19 46 82 57 75 106 70
1,207 1,258 13,952	1,224 20 20 17	2,133 44,294 1,087	47,419 138 568 442 335	1,000 1,000 2,164 2,029 326	4, 6, 455 1, 13, 13, 13, 13, 13, 13, 13, 13, 13, 1	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	11,993 5 441 7,464 14,897
1,817	: :	: 7	46,870 87 192 187 48	:		26 24,154 54,154	
1,203 1,248 12,135	146 613 15 17	732 1,449 872 930	2876 2876 2876 2876	2,117 5,588 1,809 326	88 6,076 1,008 1,026 5,679	36 391 164 14455 158 275 13	8,632 5 434 3,100 6,382
						5,087	37
	12	121	26	1,802		141	
				3			
				: : : : : : : : : : : : : : : : : : :			: :
							34
214 64 381	91		17	:	378 11 221		6
1,817	611	.: 22 43,63 151		988 983 147 160	4,268 379 110 35 13 34 34	1 17 26 49,067	2,840 7 7,4,364 7,345
1,184 11,754		1,186 872 808	549 522 376 212	3,647 3,647 3,647 3,647	83 6,076 3 630 1,015 4,783	368 364.41 150 150 150 150	6,505 415 3,100 6,202
railway pig all other.	other ore, except iron ard and lard oil (eat, all kinds eats, other than pork			for cutting.	do not suitable for cutting, unwrought Seeds, all kinds Sheep. Soda ash Steel. Steel. Sugar. Sugar. Sugar. Sugar. Sugar. Sugar. Sugar. Sugar. Sugar. Sugar. Sugar. Sugar.		All other goods and merchan- dise not enumerated. Bark Barrels, empty Boot knees Floats. Firewood, in vessels
fron, railway. do pig do all other. do ore emergen an	other ore, except iron Lard and lard oil Meal, all kinds Meats, other than pork Marble	Manila. Molasses Nails Oats.	Oll cake Pease Potatoes Ponk Paint Paint Far	Rags Rye Rosin 10 Salt Skone intended for cutting.	do not suitabliefi unwrought Seeds, all kinds. Sheep. Soda ash. Steel. Sugar. Sugar.	Tobacco, raw Tallow Tin Tur Tur Tur Wheat White lead Whitin Wool	All other goods and dise not enumerate dise not enumerate Bark. Barels, empty Boot knees Floats
	· · · · · · · · · · · · · · · · · · · ·	· • == == = = = = = = = = = = = = = = =		101	52 62 62 52 52		, — (4)mmm

No. (A) 10.—General Statement showing the Quantity of each Article transported, &c.—Concluded.

Total Amount of Tolls.		e cts.	:::::::::::::::::::::::::::::::::::::::	1,100 51 5 64	338 50	420 24		4 32		49 02 235 75 21 40	12	49,574 00		
Amount of Tolls, Down.		e cts.		605 22 5 64	338 50	418 24	3 2 20 3 90 3 90	0.45		88 188 4 188		40,154 90		
Amount of Tolls, Up.		ee cts.		495 29	2 95	2 00		3 87		22.84 88.92	8 60	9,419 10		
Total Tons.	1			35,551	13,540	18,359	1048	8 5	:	2, 20, 30 2, 30, 30 2, 30, 30 2, 30, 30 2, 30, 30 2, 30, 30 2, 30	4	599,208	1	12
ns.	Down.		. :	15,421	13,540	18,271	88	က :		2,057 7,237 8,299	18	453,526	1	12
Tons.	Up.		: :	20,130	148	: 88 :		: ∶श्च		628 1,630	98	145,682		
From United States to Canadian Ports.	Down.			527		: : : : : :			:			116,411		
Fr United Cans	Up.					::		: : 7 : :	:			8,367		
From United States to United States Ports.	Down.			: L O								2,046		
Fr United United Po	Up.					::			:			702		
From Canadian to United States Ports.	Down.			197		: :						1,424		
Fr Cans t United Poi	Up.			88 :					:		/ !	6,190		
From Canadian to Canadian Ports.	Down.		: :	14,692	13,540	18,271	:82 2	en:	:	2,057	18	333,645	ì	27
Fr Cans Cans Cans Por	Up.			20,097	148	: 38 :		:¥3		1,630	: 8 : : :	130,423		
Articles,	•		Firewood, in rafts.		poles, in vessels Masts, sipars and telegraph poles, in rafts Railway ties, in vessels	do rafts	Staves and headings, parrel do pipe do W. India	Staves, sait barrel	Split posts and fence rails, in	Timber, square, in vessels	Woodenware and wood partly manufactured	Total freight paying tolls.	Free articles, having paid full tolls on the Welland Canal :	Apples.

Corn	<u> </u>	54,999	:	:	:			-		54,999	54,999			
		2.635				:			. 6	9.874	9.874			
		П									1			
Hides and skins, &c	:	ন্ত্ৰ	:	:	:	:	; : 	:	:	8.0	ଛ			
Moals all kinds	:	7 9	:			:	:		· :-		2 2			
: :		3 8								26	3.5			
Pease	:	524	:			:		:		524	524			
Rye Goods on binds	:	9,119	:	:	:	:	: : :	:	:	9,119	9,119			
	:	194 981	:	:		:	:	: :	:-	194 981	194 981			
		9					: :		: :	9	9			
		8	:	:		:	:	:	:	· 8	88			
Barrels, empty	:	670	:	:		: : :	:	: :-	: -	I 679 .	1 670			
		4.04								1,919	1,05			
 -	:	00				-	:	:	:	x	œ			
do W. Irdia Coal free per Order in Conneil	73 031	<u>.</u>	900	:		:	89 96		098 00	200	000 000 000 000 000 000 000 000 000 00			
Kryolite, free, having paid full	-			:			· ·	:	: 	:	300			
tolls on the Rideau Canal	:	614	:		:	:	:	:	:	- 614	614			
Articles free for canal construc-														
10 tion, O.C., 1884:		. 4							-	450	150			
College and water time.	200	3							000		3 25			
	• • • • • • • • • • • • • • • • • • • •	:	:		:	:	:	1,398	.: 86	1,398	1,398			
Lumber, sawp, in vessels,		121	: :					: :			121	ź		
Split posts, &c. do	•	Ħ	:	:	:	:	-	-		-	-			
Stone for cutting	124	<u>:</u>			:	•		:	124	4	124			
Grand total freight	204,078 599	599,062	6,390	1,424	702	2,046	35,005	5 118,048	48 246,175	5 720,580	966,755			
		-					_	_		-				
				Tota	al tolls or do do	Total tolls on vessels do passengers do free goods	ers				\$33,293 74	9,539 24 755 14	7,145 47 2,053 61	16,684 71 2,808 75
				į		Total tolls	8	:				19,713 48	49,353 98	69,067 46
				Fine	Fines			•				:	:	102 102 103 103 103 103 103 103 103 103 103 103
				A Q G G G	Wharfage and sto Other receipts	Wharfage and storage Other receipts.								3,497 55 15,382 93
						Total rev	enne, exc	lusive of	Total revenue, exclusive of hydraulic rents	c rents				88,125 29
DEPARTMENT OF RAILWAYS AND CANALS	AILWAYS A	ND (ANALS							æ	H. TEA	TEAKLES,		
	Orrawa, 26th April, 1893	26th	April,	1893.	•				4		Comp	Compiler of Canal Statistics.	nal Stat	istics.

SUPPLEMENTARY APPENDIX A-Continued.

No. (A) 11.—Statement showing the Quantity of each Article of Through Freight transported on the St. Lawrence Canals, and the amount of Tolls collected during the Season of Navigation, 1892.

Articles.	From Canadia to Canadia Ports.	From Canadian to Canadian Ports.	From Canadia to United St. Ports.	From Canadian to United States Ports.	From United St United St Ports.	From United States to United States Ports.	Fr United t Cana Pon	From United States to Canadian Ports.	\mathbf{T}_{0}	Tons,	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.	es cts.	e cts.
d pearl	:	36	8					: :	8 8	36	124	17 60	7 20	24 80 739 05
products, not	155	'					:		155			23 25		165
Agricultural products, not enumerated, animal.	69.6	2,407		:		:	:		es c	2,407	2,410	0 45	361 05	
Agricultural implements Barley		4,165							7	4,165	4,165	2	291 30	291 30
Bones	\$	86							*		5 28		8 70	80
Brimstone.		:	969						5 727	•	9 737	0 75	:	
Clay, lime and sand	341	292	23 : :					1,132	341	·	2,038	51 15		
Com.		1,701						34,061		1,701	1,101		165	182
Cattle	_			:	:	:	:	<u>:</u>	_	2	13	CI		
Crockery and earthenware	:&°	13	2						8°	13	103	81 00 8	2 60	20 GO 04 GO
Fish	452		26	· · · · · · · · · · · · · · · · · · ·					202	: :	202			75 30
Flour	8	3,682							· ·	3,682	3,690	1,30	552 30	553 50
Furniture.	72	618	m	:	:	:	:	:	<u> </u>		663	3 C		8 C 8 C
Glass, all kinds.	266	17	152		: :				418	17	435	83 60	3 40	87
Hogs. Horses.	16	: 10 gg							16	చిక్ర	 	2 2	0 75 4 50	0 75 6 90
Hides and skins, horns and		ě								30	50		200	70

	1,0,7	:22	 5 58		: : : : : : : : : : : : : : : : : : :				1,458	13	1,471	218 70 218 70	1 95	124 50 220 65
Kryolite chemical ore and other ore except iron	:	<u>:</u> :	:		:		<u> </u>			:				
Lard and lard oil	99	: :3	91				: :	: :	85	: : :		12 30		
Meats, other than pork		± ∞		: :	:	:::		· :::		8	8	0.75	6 15 0 45	
Marilla	: :	<u>. :</u> : :			<u>. :</u>	: :	: :	: :	: o	:	6	1.80		1.80
Molasses	:	o o	: 33.56 6	:	:	:	· : :	:	25 g	: 0	<u>s</u> 2	10 60		
Oats		5,802	3 :						3 :	5,802	5,802	201	710 66	
Oil, in barrels		66	<u>;</u>	-	:	:	<u>;</u>	:	296	8	302	59 20	19 80	
Pease.	13	3,750	<u>: :</u> <u>: :</u> : :				· : : : : : : : : : : : : : : : : : : :			13,750	13,750		1,711 11	1,711 11
Potatoes	:	17	:	:	:	:	:	- <u>-</u> -	:	17	17		22 25 26 26	
Point		: 318	: <u>L</u>	:	<u>·</u>	<u>:</u> :	:	:::::::::::::::::::::::::::::::::::::::	140	3 8	8 5	3 S	₹ 8 8	
Pitch and tar.		9 64	121						41	3 64	1.54	38 3×	0 46	
Rags		: : :	:	:			:	:	က	ន	3	99	93 21 21 3	
Kye Rosin		377	· :	<u>:</u> : :	:		:	:	:) o) o	1 60	4. 80	
t.	1,584	:	1.941						3,525	· :	3,525	528 75		
Stone intended for cutting	:	160	145	:	<u>·</u> : :	<u>·</u> : :		:	145	160	302	27.	24 00	
do wroughtdo not suitable for cutting,	: :	:	:	:	:	:	:	:	. -	:	7	₹ 1	:	
Seeds, all kinds	: : : : : : : : :	: :	:	: :		: :	: :	::	::		:83		3.90	
da	:	C3	:	:	· :	 : :	: :	:		67	67			
Soda ashSteel	₹ 20.8 40.8 40.8	77	378	:	<u>:</u>	<u>:</u> :	:	:	25 E	47	8 8	8 8 4 8 48		191 20
Sugar	3,539	.10	968						4,435	10	4,4		20 21 20 21	
Spirits, beer, &c.	35	436	221	- : :	:	:	:	01	315	446	761			
Tobacco; raw	28	:						: :	: 8		: 28	4 20		
Tin	268	က	27	: :			:	:	292	က	863	59 00	09 0	
Turpentine	:"		 : :	: :	:	:	:	5.007	9	10 401	10 401		90 649 6	
White lead	7		: : :					0000	143	101,61	143		06 210,2	
Whiting	:	: :	: ::	;	:	:	:	:			E 23	46.20	,	\$. 2.
Wool. All other goods and mer-		2	13	:	:	<u>.</u>	:	: :	ड	3	3		R T	
chandise not enumerated		1,899	472	- <u>:</u> -	:	:	 -	37	3,233	1,936	5,169		387 20	1,033 80
Barrels, empty	131	: : ::		· ·			- <u>-</u> -		131		133	24 38	0 14	24 52
Floats		400								9	904		· 80	22.28

												_		
Articles.	Cam Cam Cam Po	From Canadian to Canadian Ports.	Fr Can t United	From Canadian to United States Ports.	Fr United United Po	From United States to United States Ports.	Fr United Cans	From United States to Canadian Ports.	Ĭ	Tons.	Total Tons.	Arrount of Tolls, Up.	Amount of Tolls, Down.	Total Amount of Tolls.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		``		
												s cts.	ee cts.	es cts.
Firewood, in rafts.		:		:	:		:			:	:		:	:
Hop poles.		:		:	:	:	:	:		:	:	:		
z.	268	299						527	268	1,094	1,362	23.85	98 55	122 40
Masts, spars and telegraph	:	:	:	:		:	:	:		:		:		
Masts, spars and telegraph		:	:	:	:	:		:	:	:				:
Railway ties, in vessels			: :	: ·										
do rafts			:	:	:					:		:		
Staves and headings, barrel														
do pipe.		:	: :											
Staves, salt barrelShingles	:	-	:	:	1	:								
Split posts and fence rails, in	:	<u> </u>	:	:	:	:		:		:	:			
Split posts and fence rails, in	:	:	:	:	:	:	:	:	:	:	:	:	:	
rants Timber, square, in vessels	300	:				:	:	:	300	:	500	7.	:	15.00
rafts		200			7				:	200	88		2 00	88
Woodenware and wood partly manufactured	: 8 :		:	: :	: :				: 8 :			8 00		
Total freight paying tolls	18,279	121,132	6,137					101,424	24,416	222,556	246,972	4,215 78	32,017 00	36,232 78
Free Articles having paid full tolls on the Welland Canal.												,		
Apples. Ashes.		72.								54	54	·		

10,705 98 1,683 45	5,399 23	5,306 75 297 25	\$28,366 76	. 66		. <u> </u>	Total through tolls on vessels do passengers do free goods	ngh tolls do do	otal thro	T				
			518,273	486,314	31,959	101,663					6,337	384,651	25,622	Grand total freight
			614	614	:							614		n the Rideau Canal, free
			7,543	:	7,543	:		:	:	:	28	:	£,	Kryolite, having paid full toll
			>	•	:	:	:	:	:	:			1	Coal, free, per Order in Coun-
			194,281	194,281	:	•	:	:	:	:	:	134,281	:	Whiskey.
			200	200	:		:	:	:	:	•	200		do W. India
			x 0	∞		:	:	:	:		•	æ	:	Staves and headings, pipe
			440	4							:	440	: ::	are timber, in rafts
			.,	75				: :				75	:	Seeds, all kinds.
			9 119	9.119								924		Rye
			98	8	:	:		:	:	:	:	S 2	: : :	Merchandise
			94	35								8		Mests, other than pork
			1,678	1,678		:	:	:	:		:	1,0(x	<u>:</u> :	Meal. all kinds
			63	61	:	:	•	:	:	:	:	2	:	Horses
			8	ន					/: :	:	:	ଛ		les, &c
			,	101									:	Furniture
			9.874	9.874		939						2,635		Flour
				-			_							

B. H. TEAKLES, Compiler of Canal Statistics.

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 26th April, 1893.

SUPPLEMENTARY APPENDIX A-Continued.

No. (A) 12.—Statement showing the Quantity of each Article of Way Freight transported on the St. Lawgence Canals, and the Amount of Tolls collected during the Season of Navigation in 1892.

Articles.	From Canadia to Canadia Ports.	From anadian to to anadian Ports.	From Canadian to United States	om dian States ts.	From United St to United St Ports.	From United States to United States Ports.	Fr United t Cana Po	From United States to Canadian Ports.	H	Tons.	Total Tons.	Amount of Tolls, Up.	Amount of Tolls, Down.	Total Amount of Tolls.
	Cp.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.				
												e cts.	cts.	& cts.
P :		262	9					9		368	294	2 32	12 73	15 05
ą,	110	1,828		:		:	-	:	111	1,828	1,939	9 48	00 89	77 48
Agricultural products, not enumerated, animal	122	83	:	:		:	:		122	8.	205		6 03	11
o Agricultural implements Barley Bricks	01 2. 14. 25.	4,434 362					193		741 10.477	4,434 362	5,175 10,839	12.5	- 52 - 52 - 53 - 53 - 53 - 53 - 53 - 53 - 53 - 53	
	922					:	:		550				-	- 2
Cement and water lime	821	:							887	242	1,963	35 35 35		25.5
Clay, time and sand	18,190			.x	2	1,527	3,104	14,981	21,334		8,68 9,88 9,88 9,88	\$28	1,503	1,024
Corn. Cattle	æ <u>5</u> 2	2,617		91	: :				∞ ငွ	2,632 229	2,640 279	0 72 2 78 18	99 02 15 74	8 81 8 82
Cotton, rawCrockery and earthenware	12	9	1	::					77	9	77	11 63	0.30	11 93
Dye wood and dye stuffs	28. 28.	42					Q: :	:::	383	42	424	19	2 91	
Flax and hemp	836	:-				***			836	: ⊣ î	2,072	56		104 57
FurnitureGvusum	274 2.472								274 2,472		2,509 509	88		8
Glass, all kinds. Hay, pressed	5. 5. 5. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	12 13 12 13					67		62 458	<u> </u>	1,113	9 51	8 8 8 12 12	12 76 57 83
Hogs Horses Hides and skins horns and	167	:							167	288	455	62.8	16 11	24 90
hoofs	:	30	:	:		:	:	:	:	∞	œ	:	0 59	0 59

56 Victoria.	
--------------	--

Sessional Papers (No. 9A.)

A. 1893

No. (A) 12.—Statement showing the Quantity of each Article of Way Freight, &c.—Concluded.

Articles.	From Canadian to Canadian Ports.	From anadian to anadian Ports.	From Canadian to United States Ports.	flian States ts.	From United States to United States Ports.	m States States ts.	From United States to Canadian Ports.	States States dian ts.	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.				
on the state of th												cts.	e cts.	ets.
Hoops Hoops Hop poles Lumber, sawn, in vessels do rafts Masts, snars, and teleoranh	19,829	14,125	: : : : : : : : : : : : : : : : : : :	197					19,862	14,327	34,189	471 44	506 67	978 11 5 64
Masts, spars and telegraph poles, in rafts. O Railway ties, in vessels.	148	13,540				: : :				13,540	13,540	2 95	338 50	338 50 2 95
do rafts	: 38 :	18,271							: 3 6	18,271	18,359		418 24	120 24
ives and headings, barrel do pipe do W. India											:. :. :. :. :. :. :. :.		3 20	3 20
Staves, salt barrel Shingles Split posts and fence rails, in	:S3	· 672						: :		· es		3.87	0.45	4 32
Split posts and fence rails, in rafts. Timber, square, in vessels. Traverses. Wordenware and wood rarriv	328 1,630	2,057 7,037 8,222								2,057 7,037 8,222	2,385 8,667 8,222	7 88 48 90	26 14 184 85 21 40	34 02 233 75 21 40
manufactured Total freight paying tolls.	112,144	212,513	: 23	1,424	702	2,046	8,367	14,987	121,266	280,970	\$52,236	5,218 86	3 50	13,341 10
Free articles having paid full tolts on the Welland Canal:—Corn	65,688	1,310	/ : : : : : :				26,638	::	92,326	1,310	1,310 92,326			

					1,746 24 5,978 73 667 41 1,125 30	9,909 24 10,536 01 20,445 25
					4,232 49 457 89	9,909 24
	200 200 308	121	124	448,482	\$ 4,926 98	Total way tolls
	<u>:</u>	121	1	234,266	Total way tolls on vessels do passengers \$4,926 98	:
	:00g ::		124	16,385 214,216		
	300			16,385		ay tolls
				35,005	vessels passengers free goods	Total w
				2,046	n vessels passeng free go	
ļ				202	sy tolls o	
	456	110		1,424	Total w	
				SS.		
	456	. -	- :	214,411		
	200		124	178,456		
Free articles for canal construction per Order in Council, 1884:—	Cement and water lime	Iron, all other Lumber, sawn, in vessels.	Stone for cutting	Freight, grand total 178,456		

b. H. IBANDES, Compiler of Canal Statistics.

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 26th April, 1893.

SUPPLEMENTARY APPENDIX A-Continued.

No. (A) 13,—General Statement showing the Quantity of each Article transported on the Ottawa Canals, and Amount of Revenue collected during the Season of Navigation in 1892.

	Fr	From Canadian	From Canadian	m dian	Fr	From United States	Fr United	From United States	E			
Articles.	Cana Po	to Canadian Ports.	to United States Ports.	States ts.	United Por	to United States Ports.	Cans	Canadian Ports.	Lons.		Total Tons.	Amount of Tolls.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Ųp.	Down.		
				and the second								s cts.
Ashes, pot and pearl			:	:	:	:	:	:	:	20 8	io i	0 95
ted,	<u> </u>	227							4 55 5	227	7050 7050 7050 7050 7050 7050 7050 7050	121 252 252
Agricultural implements	 6	- -	: :						10	1,1	7,7 28,5 28,5	2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Date 11 Barek 12 Bricks 78 Bricks		2 : -								: -	:	0 10
Brimstone Cement and water lime		4					: :	; ; ;		4	. 4	0 34
Clay, lime and sand		7,002		•						7,002	7,002	218 74
Corn		597							-	597	4 528	0 39 35 74
Cotton, raw Control, raw												67-0
Doe wood and dye stuffs.	:								:	· · · · ·		0.64
Flax and hemp.	1	:							1	•	:	5
Flour Furniture	4.00	88				: :		: :	4.00	XX.	88,	1 97 2 28
Gypsum Glass, all kinds	2	1 000		: :				: :	2	7 - 60	T 00 030	0 54 9 54 9 54
Hogs		3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5						: ;	: :8	22.	នូតរួ	3 36 8
Horses. Hides and skins, horns and hoofs	N :	5		: :					ž :	2	- - -	88
Irun, railway				::								
do all other.	17	: 2							17	22	11	4 70
Iton ore		. ,		:		:					:	•

Town and land oil	:	,	_		_				_	10		
Meal all kinds		200								73	33	īĊ
Meats, other than pork.									:	Ħ	-	
Marble	:	-	_	:	:		•	:	_	-	C1	
Manilla	- 6	:		:		:	:	:	10	:	61	•
Mollasses	3 65								35		2 22	
Data	3	4.579							1	4.579	4,579	
Oil in barrels.	2	2							21	20	17	-
Oil cake	- :			:	:	:	•	:	:			
Реве		686				• • • • • • • • • • • • • • • • • • • •	:	:		200	30.0	23
Potatoes	-::	200	: : :	• • • • • • • • • • • • • • • • • • • •	:::::::::::::::::::::::::::::::::::::::	:	:	:		200	20.5	₹.
Pork	17	3 °	:	:	•	:	:	:	Ξ.	₹°	ě,	2
nint	H	.77	:	:	:	:	:::::::::::::::::::::::::::::::::::::::	:	٠,	N .	9,	
Pitch and tar	-	:	:	:	:::::::::::::::::::::::::::::::::::::::	:	:	:	-	:	78	•
	:	77	:	:		:	:::::::::::::::::::::::::::::::::::::::	:		7 1	7 1	4. 7
Rye	:	20	:	:	:::::::::::::::::::::::::::::::::::::::	:	:	:	:		č	C
Rosin	ē (:	:	:	:::::::::::::::::::::::::::::::::::::::	: : : : : : : : : : : : : : : : : : : :	:	:::::::::::::::::::::::::::::::::::::::	~ 6	:	N	•
Lite	77		:	::::	:			:	1 2	:	42,	4
Stone intended for cutting	:::::::::::::::::::::::::::::::::::::::	_	:	:	:	:	:	:	:	-	7	
do wrought	- :	:	:	:::::	:	:	:	:	:::::	:::::::::::::::::::::::::::::::::::::::	:	:
do not suitable for cutting, unwrought	-	:		:	:	:	:	:	:			:
eds, all kinds	:::::::::::::::::::::::::::::::::::::::	88	: : : :	::::::	:		:	:	:::::::::::::::::::::::::::::::::::::::	3	*	37
leep	:	3	:	:	:		:	: : : : :	•	35	3.50 0.00 0.00 0.00 0.00 0.00 0.00 0.00	24
Soda ash	- : :	m	:	:			::::	<u>:</u>	<u>:</u>	n	3	
Steel	- :			::	:	:	:	: :::::	::	•		:
Sugar	72	C 3		:			:	:	Z :	N	8;	2
write, beer, &c	10	_		:	:	:	· · · · · · · · · · · · · · · · · · ·	::::	ĭ	⊣	7	
Tobacco, raw.	- : : :		:	:	:		:	: :	•	•		:
Tallow	:	æ	:	: : : :	:	:	:	:	:	S.	81;	-
Tin	14	:		: : : :	: :	:	-	: : :	-	:	4-1	
Irpentine		:	:	:	:	:::::::::::::::::::::::::::::::::::::::	:	:	:	: :		:
Wheat	-	8		:	: : : : : : : : : : : : : : : : : : : :	:	-	:	:	8	8	61
White lead				-	:	:	:	:	:	7	_	
Whiting	:	:	. :	-	:		:::::::::::::::::::::::::::::::::::::::	:::::::::::::::::::::::::::::::::::::::	:	::	::	:
lool	:	6				:	:	:	:		6	
All other goods and merchandise not enumerated	38	8		-	:::::::::::::::::::::::::::::::::::::::	:::::::::::::::::::::::::::::::::::::::	:	:	8 8	881	000	47
Bark		:		-			:::::::::::::::::::::::::::::::::::::::	:	-			:
Barrels, empty		33.					:			33	88	4.
Roa Incoa	-								_		1	•
pata	i	11 060										451
all and an areason and areason and areason are promoted and areason ar	174	21,854		- 1				: : :	174	33	33 165	1.321
•	F 17	•					:		:	[_		4
no tatto	:	2 6	:	:		:	<u>:</u>	:	: : :	8	8	
	:::::::::::::::::::::::::::::::::::::::	3		: :		:	:	:	:	3	3	1
Tumber count in records		26k 097		900 00			:	: :		168 915	468 994	: 9
Initiate, sawin, in vessels	•	20,000		000,60		:	:	:	•		9	13
do rates		000	:	:	:	:		:	:	3 8	36	3 6
ets, spars and telegraph poles, in vessels	:::::::::::::::::::::::::::::::::::::::	8	:	:		:		: : : : : :	:	8	8	4
-				_						_		

No. (A) 13 -General Statement showing the Quantity of each Article transported, &c. -Concluded.

Articles.	From Canadian to Canadian Ports.	m dian dian	From Canadian to United State Ports.	From Canadian to United States Ports.	From United States to United States Ports.	From United States to United States Ports.	Fr United Cans	From United States to Canadian Ports.	T.	Tons.	Total Tons.	Total Amount of Tolls.
-	Üp.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		
Railway ties, in vessels. Saw logs. Staves and headings, barrel.		125 1,563 21,085		500					, ;;;;	325 1,563 21,085	325 1,563 21,085	6 cts. 53 50 83 34 481 88
Staves, sal: barrel. Shingles Shingles Split poets and fence rails, in vessels do do do rafts Timber, square, in vessels Traverses.		71. 2,560 12,480 1,080								2,560 2,560 12,480 1,060	2,560 12,560 12,480 1,060	457 68 0 88 0 88 145 88 2 65
Woodenware and wood partly manufactured Total freight paying tolls	551	499,563	1	101,780					552	601,343	601,895	39,159 27
Free per Order in Council, 27th June, 1890. Floats. Firewood, in rafts. Lumber, sawn, in rafts. Square timber do Saw-logs. Traverses.		23, 460 4, 290 704 13, 662 60								. 23,460 4,290 704 2,940 13,662	23, 460 4, 290 13, 692 13, 662 199	
Grand total freight.	1921	544,679	1	101,780	:				552	646,459	647,011	

3,766 78 140 63	10 00 8 00	43,084 68
Total tolls on vessels	do free goods	Total revenue, exclusive of hydraulic rents.

B. H. TEAKLES, Compiler of Canal Statistics.

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 26th April, 1893.

115

SUPPLEMENTARY APPENDIX A-Continued.

No. (A) 14.—General Statement showing the Quantity of each Article transported on the Chambly Canal, and the Amount of Roverne Revenue collected during the Scason of Navigation in 1892.

	Fr Cana t	From Sanadian to	From Canadian to		From United States	States	Fr United	From United States to	Tons.	us.	Ē	
Articles.	Canadia Ports.	Canadian Ports.	United St Ports.		United	United States Ports.	Canadian Ports.	ts.			Tons.	Amount of Tolls.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		
												es cts.
enumerated,	:87	292						:83 : :	:01	715	717	63 16
do do animal Agricultural implementa	170	940						306		266	745	
1 Bricks 9 Bones Brimstone			139					} : :	139		130	13 90
Cement and water lime Clay, lime and sand Coal	135							4,533 86,480	135	4,533 86,500	4,668 86,500	483 55 8,478 16
Corn. Cattle	: :	.4				: :				45	45	1.20
Cotton, raw Crockery and earthenware Flye wood and dye stuffs	:::=	91						. 8 3	: : :	. 80 	:58 c : :	
Flax and hemp. Flour Funiture.	270	:29							270	15	28	9 51
Gypeun Gjass, all kinds Hay, pressed	: : : : :	2,953	444						774	2,953	3,727	153 28
Hogs. Horses Hides and skins, horns and hoofs.		22								<u>&</u>	24	8 ·
Iron, railway do pig	::6			: : :							101	28.0
do ore	1		<u></u>				 : : : : : :	· · · · · · · · · · · · · · · · · · ·			:	

5.C	17:	-4-	-:-
56	V 1	CTO	ria.

Sessional Papers (No. 9A.)

	•				
Α.		1	8	9	3

Meas, all Kinds. Meas, other than pork. Marble. Manilla. Manilla. No. 11.		: :-		<u>-</u>	:::::	• • • • • • • • • • • • • • • • • • • •	:	:::::::::::::::::::::::::::::::::::::::	<u>: :</u>	<u>:</u> :: ::	:::::::::::::::::::::::::::::::::::::::	
		· -	:	<u>:</u> ::			:	÷:	_	<u>:</u> :: :	:::	VI
•		: :			:	: :	: :	: : : :	: :			CU
	67 		:	:	:	:	:		:	64 F	0 8 8)F1
	1 2,549	25 25 25 25 25 25 25 25 25 25 25 25 25 2					123		2,549	3,034 129	133 49 12 74	а.
	5 16					:			1 : 1	. 9 <u>.</u>	0 17	
	.	83			:			П	ន	*	0 82	
		: : : : : :		: : : : : : : :	: :	<u>:</u> : : :	31	<u>:</u>		. 31	3 10	
					<u>₹</u>	-	42	:	226	983 V	3 3 3	D
					: :		<u>: :</u>		<u>: :</u>	: :		es
	160	:	:	:	:		2,356	191	2,356	2,357	236 24 25 25 25 25	310
r cutting	601	: :				· : :	2 8 8 8	for :	609	602	7 8 8 8	m
do wrought	: :	:	:	<u>:</u>	:		478 :	:	478	878	\$	81
do not suitable for cutting, unwrought	:	:		:	<u>:</u> :	:	: Z1		77	21	88 -	1
Taben 1	1	981			: :	: :			186	186		ra]
					: : : :	:	: : :		G#T	2	8	pe:
	67	• :	:		<u>:</u> ::	<u>:</u> : :	:	61		8	0 08	rs
						: :						(1
	:	:	:		:	:						NC
	<u>:</u>	:	:	:	:	<u>:</u> :	144	:-	144	144	14.40).
Wheat	· :				<u>: :</u>	<u>:</u> : : : :	<u>: :</u> : :		:	:	₽ : :	y _A
White lead Whiting			-		- :	:	:	•	:	:		w)
Wool All other goods and merchandise not enumerated	679	97.0			<u>: :</u>		296 6	1 157	9 546	9 708	900 19	
		:			<u>: :</u>	\ : : :	3 :	1,101	5,	3 :	77 007	
			:	:	<u>:</u> ::	<u>:</u> :	<u>:</u> :		11	Ħ	0 44	
Doet knees.												
els	315 1,604	04 62,330	:	:	:	· ·	:	62,654	1,604	64,258	2,124 57	
ratus	- : - : - : - : - :	347			<u>: :</u> <u>: :</u> : :	<u>: :</u>	:	347	: : : : :	347	20 80	4
Hop poles.						<u>:</u>		-		:		A.
vessels	3,667	87,74	:	<u>:</u> :	<u>:</u> : :	 :	*	91,410	<u>\$</u>	91,464	5,401 74	1
Masta grars, and telegraph poles, in vessels.						:			:			lð
do rafta												9

No. (A) 14.—General Statement showing the Quantity of each Article transported, &c.—Concluded.

Articles.	Fr Cana to Cana Pon	From Canadian to Canadian Ports.	Fr Cana t United Po	From Canadian to United States Ports.		From United States to United States Ports.	Fr United Cana Por	From United States to Canadian Ports.	Tons.	eu.	Total Tons.	Amount of Tolls.
	Up.	Down.	Up.	Down.	Up.	Down.	$\mathbf{U}_{\mathbf{p}}$	Бомп.	Up.	Down.		
Railway ties, in vessels.	4,036		2,088						6,124		6,124	488 80
Saw logs. Staves and headings, barrel do pipe. do West India.												
Staves, salt barrel. Shingles. Split powts and fence rails, in vessels.	83						•		. 23		83	3 20
do do rafts												
Iraverses Woodenware and wood partly manufactured.		: :			: :							
Total freight paying tolls.	9,714	8,828	154,170			204		97,850	163,884	106,882	270,766	18,170 23
				,	Tota. Fine	Total tolls on vessels. do passeng. Fines and damages. Other receints	vessels passengers nages	22				2,701 13 88 49 20 00 1 00

B. H. TEAKLES, Compiler of Canal Statistics.

Total revenue exclusive of hydraulic rents..

SUPPLEMENTARY APPENDIX A-Continued.

No. (A) 15.—General Statement showing the Quantity of each Article transported on the Rideau Canal, and the Amount of Revenue collected during the Season of Navigation in 1892.

Articles.	From Canadian to Canadian Ports.	From anadian to anadian Ports.	From Canadian to United Stat Ports.	From Canadian to United States Ports.	Fr United United Po	From United States to United States Ports.	Fr United Cans Po	From United States to Canadian Ports.	Tons.	ns.	Total Tons.	Amount of Tolls.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	ď	Down.		
Ashes, pot and pear! Apples Agricultural products not enumerated, vegetable do animal.	152 152 282 282	140 140 63 63 485 111							252 81	111 140 140 111	115 115 115 139 139	\$ cts. 2 03 4 72 3 39 17 56 13 82
Barley. Bricks Bones	10								15 25 25		823	
Cement and water line Clay, line and sand	182 787	20.20							182	:	202 791 3 695	24 06 24 06 24 06
Corn	4.01	16 0 0							4.63	<u> </u>	§&∞	00
Cookery and earthenware. The wiced and dearthenware.	9	. 18							.04	. 28	96	9 43
Fish Flax and hemp.	32								32		88 ::	
Front Furniture Grussim	7	22							14		#	98 : 80 :
Glass, all kinds Hay, pressed	77 151	ŭ4-							27 161		32 165	8 8 9 8 9 9
Horses Hides and skins, horns and hoofs.		17		: : '					1	17	6.22	0 70 0 19
from railway do pig do all other	243 399	101							10 35 399	101	10 243 500	0 24 8 19 13 81
Iron ore Kryolite chemical ore and other ore, except iron	¥.	752			: :				714	752	1,466	72 84

No. (A) 15,-General Statement showing the Quantity of each Article transported, &c.-Concluded.

Amount of Tolls.		e cts.	2 13 1 45	0 0 45		3 2 8 2		1 57	289		52.0		32 - 52 - 53 33			9 2		61 41 7 08		1 34				k
Total Tons.		:	£ 3	27.0	22	1,88	8 "	20.00	S. S.	30	-	6 67	2,052 38	78 33 28 33		27 67	91	040 7.7	-	14		9 9	200	Ī
18.	Down.	·	\$ 8	F-83		1,422	157		•		37	:	315	:	9	:	9	38	3 :	: :		3		:
Tons.	Up.		88	മങ	28	120	182	EZ.	185	1100	228	300	1,737	က	: :	210	4	25.55	3-1		:	F 3	2	į
From United States to Canadian Ports.	Down.					:	:			:						:						:	:	
Fr United t Cana Por	Up.					: :				:	. : : :					:		:			:	:	•	
From United States to United States Ports.	Down.				<u>:</u> :			: :	: :	:	: :				: :	:			<u>:</u> :			:	:	
Fr United United Pol	Up.		<u>:</u>							:	: : : :					:		:				: ::-	:	:
From Canadian to United States Ports.	Down.		_ <u>:</u>		: :					:		:				:		:				:::::::::::::::::::::::::::::::::::::::	:	:
From Canadia to United St Ports.	Up.		:									:				:				:		:		: : ; ;
From Canadian to Canadian Ports.	Down.		4 9		1		ï		8 8 8		37		315	3 :2	20 CO	:	:9	33	23	:		\$:	:
From Canadian to Canadian Ports.	Up.		8	:EO #9	92	241	182			T.	: 12 K	≅ €	1,737	ာက		010	N 4	262	8-	14	-	-	ဆ န	77
Articles.			Lard and lard oil	Meaks, other than pork. Marble	Manilla. Molasses	•	Oil, in barrels	OP Pearse.	Potatoes	Paint	Fitch and tar	Bye	Salt	do wrought	do not suitable for cutting, unwrought	Sheep	:	Sugar	Spirits, beer, &c.	Tallow	Turrentine	Wheat	White lead	Whiting

Wool All other goods and merchandise not enumerated	867	111							3	11	1 910	0 51	•
Bark Bark Barkingenipty Roat kriese	2	33							: 22	₹ 25 æ	25. 102	2 5 48 2 48 3 1 6 8	, 41
Floats Firewood, in vessels do rafts.	440 32,670	3,039	291							3,039	36,000	10 15 633 99	CWL
Hoops Hop poles										: ; : : : :			æ.
Luinber, sawn, in vessels.	17,327	10,753	1,537		· .\			·	18,864	10,753	29,617	947 34	
Masts, spars and telegraph poles, in vessels		<u> 72</u>							: :	<u>. 7</u>	<u>. %</u>	2 8 2 8 2 8	
do do raftsRailway ties, in vessels	5,624	126					: :	· :	5.624	138	5.750	649 12	
do rafts		3	:						25.		25.	99°	K
Staves and heading, barrel	7 :	3 · :			: :				, 4 .	<u>:</u> 99 : :	ZeT	84 % 	700
do do pipe do West India.		: :	::	: :	:			: :	: : :				810
Staves, sair parrel. Shingles	28	61			: :	: :			:22	<u> </u>	111	35 SS	ша
Split posts and fence rails, in vessels	2	:	:	:	:		:	:			ıc	0 77	·L
Timber, square, in vessels	825	នន							357	: :88	977		Laj
Moodenware and wood partly manufactured.	16	<u>4</u> ~	: :		: :				16	4t -	105	9 26 1 00)OI 8
Total freight paying tolls	64,313	24,145	1,828						66,141	24,145	90,286	3,102 63	(14
Grand total freight.	70,393	24,145	1,828						72,221	24,145	96,366		U. <i>3</i>
				Tota Why Fine Otho	Total tolls on vessels do free or Wharfage and storage. Fines and damages. Other receipts	Total tolls on vessels do passengers. do free coal. Wharfage and storage. Fines and damages. Other receipts.	22				162 31	1,715 06 169 83 191 42 23 00 297 20	A.)
						ı	Total	revenue, e	xclusive o	f hydraul	Total revenue, exclusive of hydraulic rents.	řÇ,	

B. H. TEAKLES.

Compiler of Canal Statistics.

SUPPLEMENTARY APPENDIX A-Continued.

No. (A) 16,—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 1892.

	From Canadian to Canadian Ports.	fian Jian dian ts.	Fr Cans t United	From Canadian to United States Ports.	Fr United United Po	From United States to United States Ports.	Fr United Cans Po	From United States to Canadian Ports.	Tons.	us.	Total Tons.	Anount of Tolls.
	Up.	Up. Down.	Up.	Down.	Up.	Up. Down.	Up.	Up. Down.	Up.	Down.		
	2,150	1,749 65	: :	: :	: :			: :	2,150	1,749	1,749 2,215	
	3,838 4,854 2,719	36,597 734 5,717 619							3,838 4,854 2,719	36,937 734 5,717 619	36,037 4,572 10,571 3,338	33 38
:	13,561	45,481							13,561	45,481	59,042	590 42

B. H. TEAKLES, Compiler of Canal Statistics.

Total revenue \$ 3,155 86

SUPPLEMENTARY APPENDIX A.—Continued.

بيه	
t o	
ä	
m	
₹	
d the Amou	
7	
œ̂.	
anals, an	
Ö	
alley Can	
Vall	_
sorted on the Trent Valle	1809
e i	÷
Ë	of Musicantion in 1
0	2
유	;
o	
ğ	. 5
re	2
sported or	7
rans	5
t:	9
ity of each Article tr	Domanna nother tod during the Gouge of N
tic	4
Ā	
ď	:
38	:
5	7
A	•
_	=
Quan	5
9	
þ	5
7	ζ
FATEMENT showing the Qua	-
₩	
Ę	
Ë	
E	
2	
[A]	
'n	
J.	
7	
A	`
	•
ž	

Articles.	Fr Cans Cans Cans Pol	From Canadian to Canadian Ports.	From Canadian to United Stat Ports.	From Cenadian to United States Ports.	Fro United United Pol	From United States to United States Ports.	Fr United Can	From United States to Canadian Ports.	To	Tons.	Total Tons.	Amount of Tolls.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		
												e cts.
Ashes, pot and pearl Apples. Agricultural products not enumerated, vegetable.												
: : :		***									: : : : : : : : : : : : : : : : : : :	0.20
Evens Brinstone. Cement and water line.												
Clay, lime and sand			•									
Cattle Cotton, raw.												
thenware								: :				
Fish Flax and hemp Flour												
Furniture. Gypsum		: :										
Glass, all kinds Hay, pressed												
Horses Hides and skins, horns and hoofs.												
Iron, railway do mg												
do all other		:	:	:	•	-	:	:	:	:		

No. (A) 17.—Statement showing the Quantity of each Article transported, &c.—Concluded.

Articles.	From Canadian to Canadian Ports.	From Canadian to Canadian Porte.	Fr Cana United Por	From Canadian to United States Ports.	Fr United United	From United States to United States Ports.		From United States to to Canadian Ports.	Tons.	· a	Total Tons.	Amount of Tolls.
•	Up.	Бомп.	Up.	Down.	Up.	Down.	Up.	Down.	Down.	Down.		
												es cts.
Kryolite chemical ore and other ore, except iron		:	:	:		:						
Meal, all kinds.									: :		:	
Meats, other than pork	:			:			: :			:::		
Manilla			: : :				:	:	:	:	:	:
	:	:	:	:	:	:	:	:	:	:		
Oats				: :								
COil, in barrels.		:	:	:	:	:	:	:		-	:	
)il cake	:	:	:	:	:	:	:	:	:			
Potatoes												:
	:	:	: : :	:	:	:			:	:	: : : : : : : : : : : : : : : : : : : :	:
Paint	:	:	:	:	:	:	:	:				
	:	:	:	:	:	: :	:	:	:			
P.ve												
Rosin	-			:	:	:		:	:			:
Salt	:	:	:	:		:	:	:	:	:	:	
fer cutting	•	:	:	:	:		:	:	:	:		
do wrought												
eeds, all kinds		-		:	:	:		:	:	:		
Sheep	:	:	:	:	3	:	:	:	:	:	:	:
Soda a-h	- :	:::::::::::::::::::::::::::::::::::::::	:	:::::::::::::::::::::::::::::::::::::::			:			:	:	
Steel	:	:	:	:		:			:			:
Sugar	:	:	:	:	:	:	:	:	:	:	:	
:												
Tallow							:	-:	:	:	: : : : : : : : : : : : : : : : : : : :	:
	:	:	:			:	:	:	:	:	:	:
Turpentine	:	:	:	:::::::::::::::::::::::::::::::::::::::	:			:	:	:	:	:
Whost							: : : : :	:	• • • • • • • • • • • • • • • • • • • •			

346 21 96 91 76 25						essels	Total tolls on vessels. do passeng	Total tolls do				
282 64	22,513	5,174	17,339			:		:	:	5,174	17,339	Total freight paying tolls
		:	3 :							3 :	€ :	verses codenware and wood partly manufactured.
	2,083 210 210	1,943 150	140			: :		::		1,943	140	Timber, square, in vessels
										• : :	G :	ngies it posts and fence rails, in vessels.
7. 7.	627	· Cr				::				: :	: :	do do West India.
	: . : : : : : :						: :	: :				wes and headings, barrel.
17 62	2,005	12 02 12 12 12 13 13 14 14 14 14 14 14 14 14 14 14 14 14 14	1,855			: :	: : : :		: :	3 3 3 3	1,855	do rafts
		- 6		:	:	:	:	:	<u>:</u> ::			lway ties, in vessels.
°∓,	1,142	1,092	: • <u>&</u>	::	: :					1,092	<u></u>	sts, spars and telegraph poles, in vessels.
42 80 80 1	1,512	98 : :	1,33, 184,	: :						202	1,307	nber, sawn, in vessels.
	: :	<u>:</u> : <u>:</u> : : :	: :	- - - - - - - - - - - - - - - - - - -	: :		: :				:	0D8
	14,282	1,025	13,257		::		: :	: :		1,025	13,257	Fire wood, in vessels do rafts
2 76	202	202								202		rreis, emptytrais, empty
800	82	:	. 38.	: :		: :				• : • :		other goods and merchandise not enumeratedk

B. H. TEAKLES, Compiler of Canal Statistics.

DEPARTMENT OF BAILWAYS AND CANALS, OTTAWA, 26th April, 1893.

SUPPLEMENTARY APPENDIX A.—Continued.

No. (A) 18.—General Statement showing the Quantity of each Article transported on the Murray Canal, and the Amount of	•	ō	
No. (A) 18.—General Statement showing the Quantity of each Article transported on the Murray Canal, and the		Amount	
No. (A) 18.—General Statement showing the Quantity of each Article transported on the Murray Canal, and Description of National in 1892		the	
No. (A) 18.—General Statement showing the Quantity of each Article transported on the Murray Canal, a Conson of Navigation in 1892.		and	
No. (A) 18.—General Statement showing the Quantity of each Article transported on the Murray Description of Parison of Nationalia in 1892		Canal,	
No. (A) 18.—General Statement showing the Quantity of each Article transported on the		Murray	
No. (A) 18.—General Statement showing the Quantity of each Article transported on		the	180
No. (A) 18.—General Statement showing the Quantity of each Article transported		ouo	2.
No. (A) 18.—General Statement showing the Quantity of each Article		transported	A Navigation
No. (A) 18.—General Statement showing the Quantity of each		Articlo	Coppor
No. (A) 18.—General Statement showing the Quantity		of each	ing tho
No. (A) 18.—General Statement showing the		Quantity	Lockod dum
No. (A) 18.—General Statement showing		tho	[00
No. (A) 18GENERAL STATEMENT		showing	D
No. (A) 18.—GENERAL		STATEMENT	
No. (A)	,	18 GENERAL	
No		Α)	
		N	ì

	From Canadian	nn lian	Fre	From Canadian	Fr. United	From United States	Fr United	From United States	Ę	Long		
Articles.	to Canadian Ports.	fian ts.	United Por	United States Ports.	United Por	United States Ports.	Canadian Ports.	adian orts.		ė l	Total Tons.	Amount of Tolls.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		
1												es cts.
Ashes, pot and pearl	8	: 6%		:						362	452	.œ :
نځ:		150	•		: :					150		81 6
:		: : :	T :	: :	: :	: :	: :	: :	111	: m	41	000
Barley	:	573	:	:	:	:	:		:	573	573	2
Boes 150										: ev	ε ν	0
Brimstone	:		:				:::		: : : : : :	. T		
lay, lime and sand		:				:		27 02	:	20.00	82.0	0 01 12 93
180	:	:						3 :		:		:
Cattle		10						:	:	TO.		0 1
otton, raw	•	:	:	:	:	:	:		7		14	0 33
Doe wood and dve stuffs.	<u> </u>								4		4.0	
1801	-	1	-	:	:	:		:	24		5	~ >
lax and hemp	4								4	: :	41	:
Furniture	100	6	6			:		မ	118	3	83	ಣ
Gypsum Glass all kinds	:2					: :			: 67		2	90 0
Hay, pressed.	63	:	:	:			:	:	63	:	63	
Hogs	2	:=	4					2	14:	91	ି :	09 0
Hides and skins, horns and hoofs		:						:		:	:	:
Ive				: :			: :	: :				
do pig.				:	:	- <u>:</u> :	:	:	:	-		:
	ē	_					-		`			3

21		20 0	:	3	0 10	6 47	2 8 15 0 32 86	9 7 39	1 0 03 14 37 0 65	0 02 24 91	2 63	28 62
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				2,	: ** & ** : : :	## ## 	251 251 11			66	349	2,539
7.79 7.19 7.11 4.11 1.14.90 1.12 2.32 2.32 2.32 2.32 2.32 2.32 2.32		: : : : :	511	2 : :2 2 : :		110	152		765	144		6 :
2 2 4 4 1 1,490 1 1 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	· · · · :	:67	23. 23. 24.	12	4.2		785		8: 1:	848		2,530
2 2 79 79 79 79 79 79 79 79 79 79 79 79 79	: :	: :				100				: :::::::::::::::::::::::::::::::::::::		
2 2 79 79 79 79 79 79 79 79 79 79 79 79 79												
22 779 227 739 888 838 838 838 838 838 838 838 838 8												
22 779 227 739 888 838 838 838 838 838 838 838 838 8												
2 2 2 2 2 2 2 3 3 4 4 3 4 3 4 3 4 3 4 3	: :	: :										
2 2 2 2 2 2 2 3 3 4 4 3 4 3 4 3 4 3 4 3	::	: :				:-	17				22	1,110
rated 8	: :			1,4							8	6
ting utting, unwrought. rchandise not enumerated.	: :			41	: 4 %	232	785	297	1,	847	6	1,420
	Meal, all kinds. Meats, other than pork.					ing	utting, unwrought.			orchandise not enumerated.		Hoops Hop poles Lumber, sawn, in veseels do rafts.

No. (A) 18.—General Statement showing the Quantity of each Article transported, &c.—Concluded.

Articles.	From Canadian to Canadian Ports	dian	From Canadian to United States	dian States	Fra United United Por	From United States to United States	Fra United Ex Cana	From United States to Canadian Ports	Tons.	ns,	Total	Total Amount of
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		Tolls.
												es cts.
Railway ties, in vesselsdo rafts		i	28						8		3 3	0 25
Staves and headings, barrel do pipe		-										90.0
do West India. Staves, salt barrel. Shingles.	: :=		: : : : : : : : : : : : : : : : : : : :						24		24	2 06
Spin poss and tenter rains, in vessels C.Timber, square, in vessels rafts		3,265								3,265	3,265	40 75
Traverses Woodenware and wood partly manufactured.	. 67			: :					; 67			01 0
Total freight paying tolls	4,174	7,126	1,416					1,013	5,590	8,139	13,729	219 82
					Total t	Total tolls on vessels do passengers	vessels					235 16 130 31
						H	otal reve	nue exclı	isive of 1	Total revenue exclusive of hydraulic rents.	rents	585 23

B. H. TEAKLES, Compiler of Canal Statistics.

STATEMENT

SUPPLEMENTARY

No. (A) 19.—Statement of Traffic on the undermentioned Canals, and

	Welland	Canal.	St. Lawren	ce Canals.	Chambly	Canal.
Articles.	Tons.	Tolls.	Tons.	Tolls.	Tons.	.Tolls.
Class No. 1.		\$ cts.		\$ cts.		\$ cts.
Canadian vessels, steam. United States vessels, steam. Janadian vessels, sail. United States vessels, sail.	417,571 495,219 174,507 105,004	3,845 02 7,428 54 3,538 67 2,342 29	21,098 1,132,464	3,936 69 160 43 11,944 20 643 39	77,255 438 46,527 138,659	255 71 7 18 614 46 1,823 78
Total, class No. 1	1,192,301	17,154 52	1,908,683	16,684 71	262,879	2,701 13
Class No. 2.	No. 43,884	504 24	No. 64,199	2,808 75	No. 5,218	88 49
Class No. 3.	Tons. 263	36 44	Tons. 10,873	443 30	Tons. 745	46 58
Brimstone Dement and water lime. Clay, lime and sand. Fish Sypsum	815 70 24 200	78 05 5 25 4 05 5 00	28,368 926	54 58 490 09 1,330 47 97 52 34 97	4,668 1	483 50
fron, railway	163 1,567 878 2,557	29 45 269 17 174 95 383 60	1,207 1,258 13,952 5,619	177 84 157 48 731 41 714 89 133 50	10 317	8 20 4
Steel Stone, for cutting Apples Barley Coru	1,264 550 6,433 192,548	252 80 56 59 1,286 60 38,509 60	2,029 5,221 9,340	110 87 754 10 479 74 265 58	602 717	60 2 63 1
Ootton, raw. Flax and hemp Flour Hay, pressed	17,048	2,601 40		658 07	285	9 5
day, pressed. Meals, all kinds. Dil cake Dats	31,740 37,173	6,348 00	3	57 83 56 45 16	5	153 2
Jats Pease Potatoes Rye	524 524 1 9,392	7,434 60 104 80 20 1,878 40	47,419 139	2,080 08 2,869 84 9 41	3,034 166 24	133 4 5 5 8
Seeds, all kinds. Fobacco, raw. Wheat	125	25 00 45,792 91	6,455	70 82 246 39 10		· · · · · · · · · · · · · · · · · · ·
Wheat All other agricultural products, vegetable Sones Sattle	507.	24 70	4,086 75	4,402 42 242 62 10 02 20 47	139 45	13 9
Hogs		17 9/ 3 0	5 47	0 75 6 44 31 80		0 8
Lard and lard oil	79	15 8 8 8	218 20 568	20 52 2 35 48 99		
Sheep Pallow Wool All other agricultural products, animal.	108 70	16 20 14 00	23	8 58 4 58 3 45		6 2
Total, Class No. 3		105,377 30	2,615	$\frac{376\ 00}{17,204\ 48}$		1,000 (

APPENDIX A—Continued.

the Amount of Tolls collected during the Season of Navigation in 1892.

Murray	Canal.	Ottawa C	Canals.	Rideau (Canal.	St. Peter	's Canal.	Newc District	astle Canals.
Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
	\$ cts.		\$ cts.		\$ cts.		\$ cts.		\$ cts.
149,529	190 42	156,983	631 12	102,431	783 97	41,601	832 02		243 07
8,930 401	75 34 99 9 00	175,370	25 2,470 85 664 56	878 87,077 6,070	14 84 857 90 58 35	84,752 1,919	1,695 04 38 38	29,587	102 89
158,955	235 16	360,685	3,766 78	196,456	1,715 06		2,565 44		346 21
No. 10,459	130 31	No. 11,038	140 63	No. 7,442	169 8	No.		No. 10,199	96 91
Tons.		_		-				T	
····		Tons.		Tons. 94	2 8	Tons.		Tons.	50
1	03	4	34	202	5 59				
2 9	04 18	7,002 8	218 74 64	791 38	24 00 1 00	1,749	17 49		
••• ••••		1	10						
	•••••			10 243	8 19				
2	04	71	4 70	500	13 8	l			
343	6 47	24	1 65	2,052	56 5 2				
38	······	·····i	10	10 38	16			1	1
452	72 8 54	107	5 50	143	4.7	2			
573	10 77	76	5 03 39	82 20	1 9				
		4	39	20					
			<u> </u>						• • • • • • • •
41 2	81 04	26 860	1 97 81 32	369 165	9.5 3 9	9 2,21 5	22 18)	
•••••••••		73	5 57	60	14	5			
1 51	02 00	4 570	356 12	3 1,551	. 1 49 4			.	
1,531	96 28 78	4,579 989	71 29	54	15				
•••••	• • • • • • • • •	580	46 49	206	5 7	2			
34 152	64 2 86	57 38	5 52 2 70	81	2 0				
•••••				1	0	3			
765 150	14 37 2 85	28	2 11	65 115			105.7		
2	0 04	240 1	21 55 0 10			9 10,571	105 7		
5	. 0 10	528	35 74	8	0 2				
		21 5	1 36 0 50		0 0		• • • • • • • • • • • • • • • • • • • •		
30	0 60	176	8 35	22	0 7	0		.	
• • • • • • • • • • • • • • • • • • • •		. 5	0 18	78	2 1	3		.	
•••••		1 37	0 10 2 26	12 221	0362	3			
17	0 32	345	24 42	2		6		.	
' '' ''	0 02	18	1 15 0 89		Δ.	il		-	
i	0 02	9 1, 42 9	118 31	14 555		6			:
4,203	79 22	17,343	1,025 19	7,834	229 3	3 14,53	145 3	5 20	6 - 8

No. (A) 19.—Statement of Traffic on the undermentioned

Articles.	Welland	Canal.	St. Lawren	ce Canals.	Chambly	Canal.
Articles.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
Class No. 4.		\$ cts.	7	\$ cts.		\$ ets
shes, pot and pearl	19	3 80	124	24 80		
gricultural implements	11	1 65		12 11		
rockery and earthenware			180	32 53	19	1 8
ve woods and dye stuffs			153	8 29	80	8 0
'urniture	25 89	4 02 13 35	_,	175 87	2	0 2
lass, all kinds	3,190	478 50		99 76		• • • • • • • • •
IarbleIanilla:	3,130	9 90		1 55 1 80	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
folasses	107	16 05		73 49	2	0 0
lails	40	4 95		310 75	1	0 0
il, in barrels	44	3 45	1,087	140 41	, 129	12 7
aint	20	3 00		56 43	31	3 1
itch and tar			335	27 22	226	22 (
lags		• • • • • • • • • •	123	18 90		
losin	1.1		2,164	111 25	2,357	235 (
oda ash	$\frac{14}{3,172}$	2 10 430 49		204 33	14!	9 9
tone, wrought	3,112	400 48		1,130 01	2	0 (
ione, wrought	20	3 00	326 408	17 65 74 38	478	47 8
inurpentine			190	12 75		14
Vhite lead			158	30 82		17
Vhiting			275	55 96		
Vhiskey, and all other spirits	161	27 32	1,077	197 0 5		
Ierchandise, not enumerated	40,262	5,934 71	11,993	1,684 41	3,703	288
Total, Class No. 4	47,240	6,936 29	30,565	4,502 52	7,323	644 8
01 37. 5						
Çlass No. 5.		,				
Bark	30	5 72	5	19		
Boat knees.		5 12	441	47 41	11	0
loats	4	0 25	7,464	128 52		
ire wood, in vessels	7,020	337 00		333 89		2,124
do rafts			1		04,200	2,127
Lumber sawn, in vessels	86,072	15,427 50	35,551	1,100 51	91,464	5,401
do rafts			125	5 64	01,101	
Hoops					347	20
Railway ties, in vessels	217	6 78	148	2 95	6,124	488
do in rafts	••••••					
Masts, spars and telegraph poles in vessels			1			
Masts, spars and telegraph poles in rafts.	5	0 2	19 540	338 50		• • • • • •
Square timber, in vessels	43,648	6,541 16		49 02		
do rafts	170	4 80		235 75		• • • • • • •
Woodenware and wood partly manufac-			0,00	200 10		
tured	7	2 80		12 10		
Shingles	25	18 10	0 28	4 32	23	3
Split posts and fence rails, in vessels						
do do rafts	0 5 5 5	704 0				
Saw-logs Staves and headings, barrel	2,555 95	104 0		420 24	•••••	
do do pipe.	88	7 60 16 10		0 50		
do do West India	276			2 50 3 90		
do do salt barrel			104	5 170	1	
Craverses			8,222	21 40	1	
Hop poles			.		1	
	140,212	22,523 79	-			
Total Class No. 5			110,560	2,706 84	162,227	8,039

Canals, and the amount of Tolls collected, &c .- Continued.

Murray	Canal.	Ottawa	Canals.	Rideau	Canal.	St. Peter	's Canal.	Newc District	
Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
	\$ cts.		\$ ets.		\$ ets.		\$ cts.		\$ cts.
14 14	0 41 0 35	5 22 6	0 95 2 65 0 49	15 139 96	2 03 13 82 9 43				
133 2	0 10 3 50 0 05	36 8 2	4 28 0 54 0 24	41 32 5	3 86 3 06 0 45				
79	0 05 1 98	12 13	0 70 0 75	57 244 339	5 21 23 50 32 11				
61 17 4	1 54 0 43 0 10	17 3 1 22	1 13 0 43 0 05 4 00	12 2 49	1 17 0 18 5 77				
298	7 39	2 3 56	0 15 0 57 10 89	2 2 645 3	0 18 0 18 61 41 0 27				
1	0 03	14	75	14	1 34				,
26	0 65 0 23	11	0 19 0 79	6 22 77	0 54 1 94 7 08	3,338	33 38		
$\frac{992}{1,656}$	$\frac{24 \ 91}{41 \ 72}$	$\frac{369}{603}$	$\frac{47 \ 81}{77 \ 36}$	$\frac{1,219}{3,021}$	122 98 296 51	3,338		$\frac{170}{170}$	$\frac{5\ 10}{5\ 10}$
				53	2 48	•		78	3 69
••••••		35 1 41,060	4 15 0 03 4,51 33	102 640	7 91 10 15		• • • • • • • • • • • • • • • • • • • •	202	2 76
2,539	2 93 28 62	33,165 420 468,924 99	1,321 53 4 20 34,940 41 13 11	36,000 29,617 5	633 99 947 34 0 19	4,572	45 72	14,282 1,512 25	154 52 24 89 50
25	0 25	28 325 1,563	2 00 53 50 83 34	5,750 534	649 12 46 68			250	10 00
•••••••		36 2,560	2 79 62 91	54 40	2 90 0 76		,	1,142 50	75
3,265 2 24	40 75 0 10 2 06	12,480 526	145 28 457 68	377 7 111	7 10 1 00 20 65			2,083	31 63 15 56
••••••••••	0 05	1 21,085	0 88 481 88	5 152	0 77 3 48			2,005	17 62
•••••••									
• • • • • • • • • • • • • • • • • • • •		1,060	2 65	105	9 26			210	3 75
6,205	74 76	583,368	38,027 67	73,552	2,343 78	4,572	45 72	22,317	277 04

No. (A) 19.—Statement of Traffic on the undermentioned

Articles.	Wellan	d Canal.	St. Lawrer	ice Canals.	Chambl	y Canal.
	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
Special Class.		\$ cts.		\$ cts.		\$ cts.
Coal Kyrolite or chemical ore	211,616 69	42,284 12 3 45		25,073 16		8,478 16
Stone, unwrought, not suitable for cut- ting	10,294	1,019 47	4,351	87 00	21	7 88
Total, Special Class	221,979	43,307 05	182,424	25,160 16	86,521	8,486 04
Total freight and tolls	945,798	195,803 25	599,208 2,449	69,067 46 290 28		20,959 85
free	9,756	1,434 80	365,098	33,003 46		
Grand Totals, passengers and ton- nage of vessels not included	955,554	197,238 05	966,755	102,361 20	270,766	20,959 85

Canals, and the Amount of Tolls collected, &c .- Concluded.

Murray	y Canal.	Ottawa	Canals.	Rideau	Canal.	St. Peter	r's Canal.		castle Canals.
Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
	\$ ets.		\$ cts.		\$ cts.		\$ ets.		* ets.
850	15 97	581	29 05	3,625 1,466			365 97		
815	8 15			788	17 51	•••••			
1,665	24 12	581	29 05	5,879	233 01	36,597	365 97	••••	
13,729	1 1	601,895 45,116		90,286	4,987 52	59,042	3,155 86	22,513	725 76
				6,080	162 31			· · · · · · · · · · · ·	
13,729	. 585 29	647,011	43,672 17	96 ,3 66	5,149 83	59,042	3,155 86	22,513	725 76

B. H. TEAKLES,

Compiler of Canal Statistics.

SUPPLEMENTARY

No. (A) 20.—Summary Statement of Traffic on the undermentioned Canals during each description of Property passed through,

	Welland	Canal.	St. Lawren	ce Canals.	Chambly	Canal.
Articles.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
		\$ ets.		\$ cts.		\$ cts.
Vessels of all kinds	1,192,301	17,154 52	1,908,683	16,684 71	262,879	2,701 13
Passengers	No. 43,884	504 24	No. 64,199	2,808 75	No. 5,218	88 49
Forest, Produce of Wood.	Tons.		Tons.	0 19	Tons.	
Boat knees						
floats do Free	4	0 25		128 52		
Firewood Free	7,020	337 00	14,897	333 89	64,258	2,124 57
Hoops and hop poles,	86,072	15,427 50			347 91,464	20 80 5,401 74
do Free		· · · · • • ·	1,799	1,106 15		17,301 (3
Masts, spars, &c	5 217	0 25 6 78		338 50 2 95	6,124	488 80
Saw logs	2,555	104 08	18,359	420 24		
do Free	459	75 38				
do Free	25	18 10	208	4 32	23	3 20
Split posts and rails				1 02		
do Free Timber, square		6,545 96	. 1	984 77		
do Free			. 440			
Traverses				21 40	1	
Total		ļ	-			
Furm Stock.					102,220	
Cattle	1	0 0	2 292	20 47	45	1 50
Hogs			. 5	0 7	5	<i>.</i>
Horses Free	. 91				24	80
Sheep			440		186	6 20
Total	. 92	3 0	5 913	61 60	255	8 50
Produce of Animals.						
Bones Horns and hoofs, hides and skins, raw.	. 113	17 9	. 75 5 47			13 9
do Free		11 9	. 20			1
Lard and lard oil			. 218	20 5	2	
Meats, other than pork	79				5	
Pork Free	. 44		. 94		u	
Tallow.	108	16 2	0 37	4 5	8	
Wool		14 0		3 4	5	
do Free Agricultural products not enumerated	,) 13	1				
animal			2,615	376 0	<u> </u>	
Total	. 443	72 7	5 3,717	472 3	5 139	13 9

A. 1893

the Season of Navigation ended 31st December, 1892, showing the Total Quantity of and the Amount of Tolls collected thereon.

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
158,955	235 16	360,685	3,766 78	196,456	1,715 06	128,272	2,565 44	65,529	346 2
No. 10,459	130 31	No. 11,038	140 63	No. 7,442	169 83	No.	·····	No. 10,199	96 9
Tons.		Tons.		Tons.	2 48	Tons.		Tolls.	3.09
• • • • • • • • • • • • • • • • • • • •		41,060	0 03 451 33	640	10 15		• • • • • • • • • • • • • • • • • • • •	202	2 70
• • • • • • • • • • • • • • • • • • • •		23,460							
349	2 93	33,585 4,290	1,325 73	36,000	633 99			14,282	154 5
2,539	28 62	28 469,023	2 00 34,953 52	29,622	917 53	4,572	45 72	1,537	25 39
•••••		704 36	2 79	54	2 90	• • • • • • • • • • • • • • • • • • • •		1,148	11 9
25	0 25	1,888 21,085	136 84 481 88	$6,284 \\ 152$	695 80 3 48			250 2,005	10 0 17 6
• • • • • • • • • • • • • • • • • • • •		13,662							
1	0 05							• • • • • • • • • • • • • • • • • • • •	• • • • • • •
24	2 06		457 68	111	20 65			472	15 5
• • • • • • • • • • • • • • • • • • • •		1	0 88	5	0 77				•••••
3,265	40 75		208 19	417	7 86			2,133	32 3
· · · · · · · · · · · · · · · · · · ·		2,940 1,060	2 65	105	9 26			210	3 7
•••		60							
6,203	74 66	628, 449	38,023 52	73,443	2,334 87	4,572	45 72	22,317	277 0
,					*				
5	0 10	528	35 74	8	24				
	0 60	21 176	1 36 8 35	1 22	· 0 03				
•• ••••									
17	0 32	345	24 42	2	0 06		•• •••••		• • • •
52	1 02	1,070	69 87	33	1 03				
									4
2	0 04	1	0 10	16	0 55				
••••		5	0 50	6	1, 0 19				
• • • • • • • • • • • • • • • • • • • •		5	0 18	78	2 13				
•••••		1	0 10	·· ··· 12	0 30				
•••••									
• • • • • • • • • • • • • • • • • • • •		37 18	2 26 1 15 0 89	221	6 23		• • • • • • • • • • • • • • • • • • • •		
1	0 02	9	0 89	14	0 51				
••• •••••	·····								
1	0 02	1,429	118 31	555	17 56	· · · · · · · · · · · · · · · · · · ·			
4	0 08	1,505	123 49	902	27 47				
-	1 30	2,000	-20, 10	552	21 11	· · · · · · · · · · · ·			

No. (A) 20.—Summary Statement of Traffic on the undermentioned Canals

. A maintain	Welland	d Canal.	St. Lawren	ce Canals.	Chambl	y Canal.
Articles.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
Agricultural Products.		\$ cts.		\$ cts.		\$ cts.
Agricultural products not enumerated,			i i			
vegetable	507 550	24 70 56 59		242 62 754 10	717	63 16
do Free			54			09.10
Barley Cotton, raw	6,433	1,286 60	9,340	479 74		
Corn	192,548	38,509 60	4,341	265 58		
do Free			54,999	• • • • • • • • •		
Flax and hemp	17,048	2,601 40	5,762	658 07	285	9 5
do Free			2,874			
Hay, pressed	31,740	6,348 00	1,113 1,224	57 83 56 45	3,727	153 28
do Free			16	00 40		
Manilla	$\frac{66}{37,173}$	9 90 7,434 60		1 80		100 4
Pease	524	104 80		2,080 08 2,869 84	3,034 166	133 49 5 58
do Free	• 1	•••	524			
Potatoes	9,392	$1,878 \ 40$		9 41	24	85
do Free			9,119			
Seeds—Flax, clover and grassdo do Free	1 2 5	25 00	6,455 75	246 39		
l'obacco, raw			1	10		
do Free	232,019	45,792 91		4,402 42		
do Free			194,281			
Total	528,126	104,072 70	460,955	12,195 25	7,953	365 81
Manufactures.						
Ashes, pot and pearl	19		124	24 80		
do Free	88 11	1 65	17 97	12 11	· • • • • • • • • • • • • • • • • • • •	
Barrels, empty	30	5 72		47 41	11	0 4
do Free	263		10.000			
Cement and water lime	815	36 44 78 05		443 30 490 09	745	46 5
do Free	1,570		456			
Crockery and earthenwaredo	····		180	32 53	19	18
Furniture	25	4 02	1,213	175 87	2	20
do Free	89		1			
do Free	152	13 25	551	99 76		••••
ron, railway	163	29 45	1,207	177 84		
do Freeron, pig	1,171		1,258	157 48		
do Free	74			101 10		
ron, all other Free	1,567 387	269 17	1,,	731 41	10	0.8
Molasses	107	16 05	10 754	73 49	····· 2	0.0
do Free	32					
NailsFree	46 276	4 95	2,133	310 75	1	0 0
Dil	44	3 45	1,087	140 41	125	12 7
do Free	2		9	0 16		
Paint	2(3 00	442	56 43		0 1 3 1
do Free	15			27 22	1	
do Free	it		335	- 27 22	226	22 6
Rosin			2,164	111 25		235 6
Soda ash	14	2 10	1,043	204 33		9 93

138

during the Season of Navigation, ended 31st December, 1892, &c.—Continued.

Tons. 150 452 573 41 2 1,531 34 152	Tolls. \$ cts. 2 85 8 54 10 77 0 81 0 04 0 05 0 96 28 78	240 107 76 4 26 860 73 4,579 989	Tolls. \$ cts. 21 55 5 50 5 03 0 39 1 97 81 32 5 57	Tons. 115 143	Tolls. \$ cts. 3 39 4 72 1 92 0 53 9 59	10,571 2,215		Tons.	Tolls.
452 573 41 2 51 1,531 34 152	2 85 8 54 10 77 0 81 0 04 0 05 0 96 28 78	107 76 4 26 860 73 4,579	21 55 5 50 5 03 0 39 1 97 81 32 5 57	143 	3 39 4 72' 1 92 0 53 9 59	•••••	105 71		\$ cts
452 573 41 2 51 1,531 34 152	8 54 10 77 0 81 0 04 0 05 0 96 28 78	107 76 4 26 860 73 4,579	5 50 5 03 0 39 1 97 81 32 5 57	143 	4 72 1 92 0 53 9 59	•••••			
41 2 51 1,531 34	0 81 0 04 	26 860 73	0 39 1 97 81 32 5 57	20 369	0 53 9 59		22 15		
2 51 1,531 34	0 04 0 05 0 96 28 78	26 860 73 4,579	1 97 81 32 5 57	369 165	9 59	2,215	22 15		
2 51 1,531 34 152	0 04 0 05 0 96 28 78	860 73 4,579	81 32 5 57	165		2,215	22 15		
2 51 1,531 	0 05 0 96 28 78	4,579	5 57		3 95	· • • · · · · · ·			
1,531 34 152	0 96 28 78 0 64	4, 579 989	356 12		1 45		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	
152			71 29	1,551 54	49 49 1 57				
152		580 57	46 49 5 52	206 81	5 72 2 00	• • • • • • • • • • • • • • • • • • • •			
	2 86	38	2 70	6	0 15				
765	14 37	2>	2 11	1 65	0 03 1 86				
3,753	70 67	7,657	605 56	2,918	86 37	12,786	127 86		
		5	0 95	• 15	2 03				
14	0 41	22 35	2 65 4 15	139 102	13 82 7 91				
·····i	0 03	4	0 34	94 202	2 88 5 59			26	0
14	0 35	6	0 49	96	9 43				
133	3 50	36	4 28	41	3 86				
2	0 05	8	0 54	32 10	3 06 0 24				
			••••	243	8 19				
2	0 04	71	4 70	500	13 81	•••••			
		12	0 70	57	5 21				
79	1 98	13	0 75	244	23 50				
61	1 54	17	1 13	339	32 11				
17	0 02 0 43	3	0 43	3 12	0 11 1 17				
		1	0 05	2					
		2 3	0 15 0 57	2 2	0 18 0 18				

No. (A) 20.—Summary Statement of Traffic on the undermentioned Canals

	Welland	Canal.	St. Lawren	ce Canals.	Chambl	y Canal.
Articles.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
Manufactures—Con.		\$ cts.		\$ cts.		\$ cts.
Spirits, whiskey, &c	161	27 32	1,077	197 05		
do Free	220 2,557	383 60	1,039	133 50		
do Free	$\frac{269}{3,172}$	430 49	5,713	1,130 01		0.08
do FreeTin	1,320 20	3 00				
do Free	27	• • • • • • • • • • • • • • • • • • • •	190	12 75	144	14 40
White lead	6		158	30 82 55 96		
do Free	71 7	2 80				
Total	15,182	1,318 41	51,052	4,963 21	3,833	348 71
Merchandise.						
Brimstone, crude	70 246	5 2 5	557 28,368 500	54 58 1,330 47	4,668	483 55
Coal Free	211,616	42,284 13		25,073 16	86,500	8,478 16
Dye wood and dye stuffs	24	4 05	153 926	8 29 97 52	80 1	8 00 0 0
do Free	426 200	5 00		34 97		
Ores, all kindsdo Free	69 286 3,190	3 45 478 50	614	1 55		
Rags	878	174 95	123	18 90		20 4
do Free Stone, all kinds.	2,034 11,558	1,272 27	6,706	215 52		
do FreeAll other goods and merchandise, not	145	*	124			
enumerated free	40,262 538	5,934 71			3,703	288 15
Total	271,536	50,162 31	337,595	27,549 85	96,370	9,394 2
Grand totals passengers and ton- nage of vessels not included	955,554	195,803 25	966,755	69,067 46	270,766	20,959 8

during the Season of Navigation ended 31st December, 1892, &c.—Continued.

Murray	Canal.	Ottawa	Canals.	Rideau	Canal.	St. Peter	r's Canal.	Tre Valley	nt Canals.
Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
	\$ cts.		\$ cts.		\$ cts.		\$ ets.		\$ cts
9	0 23	11	0 79	77	7 08				
• • • • • • • • •				····io	0 29				• • • • • • •
····	7 39		10 89	645	61 41				
1	0 03	14	0 75	14	1 34				
									• • • • • •
26	0 65	i	0 19	6	0 54		· · · · · · · · · · · · · · · · · · ·		
	• • • • • • • • • • • • • • • • • • • •			22	1 94				
···· <u>ż</u>	10			7	1 00				• • • • • •
660	16 75	320	34 50	2,916	207 06			26	0 50
2 850	0 04 15 97	7,002	218 74	791 3,625 6,080	24 06 142 66	36,597	365 97		•••••
4 9	0 10 0 18	8	0 64	38	1 08	_,,	17 49		•••••
•••••••		1 581	0 10 29 05	1,466	72 84				•••••
4 343	0 10 6 47			5 49 2,052	45 5: 77 56 53				
853	8 87	1	0 10	829	19 46				
992	24 91	369	47 81	1,219	122 98	3,338	33 38	170	5 1
3,057	56 64	8,010	302 33	16,154	445 83	41,684	416 84	170	5 1
13,729	585 29	647,011	43,066 68	96,366	4,987 52	59,042	3,155 86		`

B. H. TEAKLES,

Compiler of Canal Statistics.

SUPPLEMENTARY APPENDIX A-Continued.

No. (A) 21,—Statement showing the Amount of Tolls accrued each month during the Season of Navigation, ended 31st December, 1892.

Canals and Offices.	January.	March.	April.	May.	June.	July.	August.	September October.		November	December	November December Total Tolls.
Welland Canal.	cts.	** Cts.	es cts.	cts.	ee Cfs.	es cts.	cts.	es cts.	ee cts.	ese Cts	◆ cts.	e cts.
Chippawa Colborne Dalhousie			Ö K	8,4	6 06 16,662 95 4,819 45 56 04	3 27 18,684 07 7,503 40 80 31	4 54 18,049 47 8,271 78 92 64	4 60 21,974 25 9,109 28 34 67	0 25 19,836 81 10,286 47	11, 45 14,189 26 6,635 52 116 24	2,047 54	33 96 138,161 16 56,091 56
Maitland Robinson St. Catharines.		: : :	71 01	. 151 52 65 84	1 76 73 45 62 57	1 00 51 35 131 91	1 72 24 82 144 82	61 51	405 875 875 875 875	59 49 16 59		
Total, Welland Canal.			11,485 06	25,043 74	21,682 28	26,455 31	26,589 79	31,259 29	30,205 81	21,028 55	2,053 42	195,803 25
St. Lawrence Canal.						-						
Beauharnois. Cardinal. Cornwall			127 84	49 8£ 61 22 2,859 13	96 01 115 88 4,063 72	150 41 128 66 4,413 39	91 63 39 27 2,576 05	152 29 64 83 2,642 59	297 34 78 09 2,265 16	293 102 05 1,508 65		1,130 75 733 09 20,330 89
Kingston Lachine Montreal			442 91	1,159 45 198 51 3,321 64		4,452 56 223 57 4,671 94	1,545 10 381 04 5,091 91	1,737 470 3,473		1,659 190 3,079	52 89	
Total, St. Lawrence Canals			570 75	7,649 80	12,041 02	14,040 53	9,725 00	8,541 06	9,595 65	6,833 31	70 34	69,067 46
CHAMBLY CANAL										!		
Chambly. St. John's. St. Ours.		: : :	19 45	883 85 2,507 86 71 44	1,020 07 1,659 42 77 55	1,382 09 1,518 04 111 34	1,471 72 2,155 17 81 63	1,556 21 1,420 45 96 20	1,991 03 1,375 45 128 51	737 40 569 98 124 99		9,042 37 11,206 37 711 11
Total, Chambly Canal			19 45	3,463 15	2,757 04	3,011 47	3,708 52	3,072 86	3,494 99	1,432 37	:	20,959 85

23,387 19 96 30 18,014 00 1,569 19	43,066 68	865 39 3,441 31 680 82	4,987 52	207 13 3,155 86	345 63 70 12 73 03 32 11 34 07 170 74	725 76	585 29	30 89 338,351 67
8 43 6 57 3 35	4 03	1 47 2 68 6 52	0 67	35	20 41 7 25 1 00 1 2 57 1 8 22 1 8 22 1 8 25	49 38	41 75	2 38 2,330
56 1,328 03 6 52 1,315 72 103	83 2,754	48 41 68 312 56 66	72. 420	45 362	28225 2	20	11	63 32,922
97 3,591 42 20 14 2,709 49 219	6,540	60 131 11 495 78 68	49 695	83 443	2883888 6884888	30 30	52	02 21,130
3,748 8 2,248 276	6,282 02	158 425 107	691	481	66 111 6 6 7 4 7 4 7	112	æ	50,521
3,724 66 12 40 3,139 03 349 07	7,225 16	160 88 596 25 146 76	903 89	412 94	71 72 17 87 13 70 6 65 2 50 23 42	135 86	103 35	48,804 51
3,836 26 10 70 2,553 56 220 60	6,621 12	129 38 657 06 141 26	927 70	413 07	79 12 18 18 18 18 18 18 18 18 18 18 18 18 18	156 86	124 86	51,750 92
3,347 92 13 03 3,051 44 280 15	6,692 54	86 56 548 34 108 08	742 98	368 24	41 33 8 90 21 02 7 50 1 93	113 79	88	44,478 18
3,548 14 23 90 2,839 98 114 46	6,526 48	157 02 406 19 41 86	605 07	254 58	19 81 0 50 4 26 13 25 4 15 14 44 44 44 44 44 44 44 44 44 44 44 44 4	57 00	66 32	43,666 14
261 25 1 25 156 65 5 35	424 50			180 32	1 00 2 36 1 00 6 14	10 50	24 39	12,714 97
				1 06		:		1 06
				30 92				30 92
Ottawa Canals. Ottawa Carillon. Grenville Ste. Anne's.	Total, Ottawa Canals	RIDRAU CANAL. Kingston Mills Ottawa Smith's Falls.	Total, Rideau Canal	St. Peter's.	TRENT VALLEY CANALS. **Bobcaygeon Buckhorn Burleigh Fenelon Falls Hawtings Peterborough	Total, Trent Valley Canals	MURRAY CANAL. Brighton	Grand total

B. H. TEAKLES, Compiler of Canal Statistics.

SUPPLEMENTARY APPENDIX A-Continued.

No. (A) 22.—General Statement showing the Number, Tonnage and Nationality of Vessels passed through all the Canals during the Scasson of Navigation ended the 31st December, 1892, and the Amount of Tolls collected thereon.

	AND DESCRIPTION OF THE PERSON			The second secon					The second second second second			** ** *********************************	
	.196	From Canadian	m lisn	From Canadian	m lian	From United States	m States	From United States	States	T.			
Vessels.	dınıN	to Canadian Ports.	dian ts.	United States Ports.	States ts.	United States Ports.	States	Canadian Ports.	lian ts.	5		Total Tons.	Amount of Tolls.
	[gtoT]	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Бомп.	Up.	Down.		
WELLAND CANAL.		-									er græner sillend		s cts.
Canadian vessels, steamdo	1,226	138,431 33,423	139,061 32,436	66,162 42,823	5,511 6,210	528 908	394	4,297	63,187 $48,970$	209,418 86,891	208,153 87,616	417,571	3,845 02 3,538 67
Total Canadian	1,818	171,854	171,497	108,985	11,721	1,436	394	14,034	112,157	296,309	295,769	592,078	7,383 69
United States vessels, steam	536	675	40	13,248	4,609	232,018 39,325	184,440 35,872	228 4,588	64,944 12,469	245,561 52,054	219,658 52,950	495,219 105,004	7,428 54 2,342 29
Total United States.	797	642	49	20,814	4,834	271,343	220,312	4,816	77,413	297,615	302,608	600,223	9,770 83
Grand Total, Welland Canal.	2,615	172,496	171,546	129,799	16,555	272,779	220,706	18,850	189,570	593,924	598,377	1,192,301	17,154 52
ST. LAWRENCE CANALS.													
Canadian vessels, steam	3,158 6,076	355,914 602,400	304,750 445,468	13,618 31,842	11	-0e		= ::	7,155 52,709	369,543 634,272	311,916 $498,192$	681,459 1,132,464	3,936 69 11,944 20
Total Canadian	9,234	958,314	750,218	45,460	26	30		11	29,864	59,864 1,003,815	810,108	1,813,923	15,880 89
United States vessels, steam, do sail	546 632	113 1,992	226 13,934	2,639 10,530	$\frac{10}{1,475}$	8,036 936	8,120	31,557	$\frac{1,810}{12,233}$	10,932 45,015	10,166 28,647	21,098 73,662	160 43 643 39
Total United States	1,178	2,105	14,160	13,169	1,485	8,972	9,125	31,701	14,043	55,947	38,813	91,760	803 85
Grand Total, St. Lawrence Canals	10,412	960,419	764,378	58,620	1,511	9,005	9,125	31,712	73,907	1,059,762	848,921	1,908,683	16,684 71
CHAMBLY CANAL.													,
Canadian vessels, steamdo	603 626	38,293 11,288	38,364 10,701	246 8,627					352 15,911	38,539 19,915	38,716 26,612	77,255 46,527	255 71 614 46
Total Canadian	1,229	49,581	49,065	8,873		:			16,263	58,454	65,328	123,782	870 17

Sessional	Papers	(No.	9A.)
-----------	--------	------	------

A. 1893

United States vessels, steamdo	1,442	1,371	2,941	53,410					80,937	54,781	135	138,659	1,823 78
Total United States	1,467	1,375	3,059	53,709					80,954	55,084	84,013	139,097	
Grand Total, Chambly Canal	2,696	50,956	52,124	62,582		:			97,217	113,538	149,341	262,879	2,701 13
OTTAWA CANALS.													
Canadian vessels, steamdo sail	1,017	48,262 8,181	107,401 151,074		1,320 $16,115$					48,262 8,181	108,721 167,189	156,983 175,370	631 12 2,470 85
Total Canadian	2,358	56,443	258,475		17,435					56,443	275,910	332,353	3,101 97
United States vessels, steam do sail	308	3,894	7,475		16,444			518		4,412	23,919	28,331	0 25 664 56
Total United States.	66	3,895	7,475	:	16,444			518		4,413	23,919	28,332	664 81
Grand total, Ottawa Canals	2,667	60,338	265,950		33,879			518	:	60,856	209,829	360,685	3,766 78
RIDKAU CANAL.													
Canadian vessels, steamdo asil	1,520	49,973 43,389	52,248 43,581	210						50,183 43,496	52,248 43,581	102,431 87,077	783 97 857 90
Total Canadian	2,559	93,362	95,829	317						93,679	95,829	189,508	1,641 87
United States vessels, steam.	74	1,692	478	315						400 2,007	478 4,063	878 6,070	14 84 58 35
Total United States	131	2,005	4,541	315			:			2,407	4,541	6,948	73 19
Grand total, Rideau Canal	2,690	95,454	100,370	632	:				:	96,086	100,370	196,456	1,715 06
St. Peter's Canal.										-			
Canadian vessels, steamdo sail	1,665	21,599	20,002					450		21,599 43,360	20,002	41,601 84,752	832 02 1,695 04
Total Canadian.	1,885	64,509	61,394	:			:	450		64,959	61,394	126,353	2,527 06
United States vessels, steamdo	9	1,843	76		: :					1,843	76	1,919	38 38
Total United States	9	1,843	92							1,843	92	1,919	38 38
Grand total, St. Peter's Canal	1,891	66,352	61,470					450		66,802	61,470	128,272	2,565 44
L		-			Ī								-

56 Victoria.

SUPPLEMENTARY APPENDIX A-Continued.

No. (A) 22.—General Statement showing the Number, Tounage and Nationality of Vessels, &c.—Continued.

	:19	From Canadian		From Canadian	om dian	From United States	States	Fron United S	From United States	Tone	2		
Vessels.	qumN	to Canadian Ports.		United Por	United States Ports.	United States Ports.	States ts.	Canadian Ports.	dian			Total Tons.	Amount of Tolls.
	IstoT	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		
Then Valley Canals													s cts.
Canadian versels, steam.	836 454	16,986 14,110	18,936 15,477		: :	: :	: :			16,986 14,110	18,936 15,477	35,922 29,587	243 07 102 89
Total Canadian	1,290	31,096	34,413							31,096	34,413	65,509	345 96
United States vessels, steam			8								% :	08 :	0.25
Total United States.	-		20								8	30	0 25
(frand total, Trent Valley Canals.	1,291	31,096	34,433							31,096	34,433	65,529	346 21
MURRAY CANAL.													
Canadiau vessels, steamdo	656 148	89,412 2,678	34,704 4,910	13,185 316			: :	164	12,228 862	102,597 3,158	46,932	149,529 8,930	190 42 34 95
Total Canadian	804	92,090	39,614	13,501				161	13,090	105,755	52,704	158,459	225 41
United States vessels, steamdo	88	88	183	165					177	88 061	202	401	0 75 00 6
Total United States	8	17	23	214		:		2	184	287	200	496	9 75
Grand Total, Murray Canal	843	92,161	39,639	13,715				166	13,274	106,042	52,913	158,955	235 16

SUPPLEMENTARY APPENDIX A-Continued.

No. (A) 22.—General Statement showing the Number, Tonnage and Nationality of Vessels, &c.—Continued. RECAPITULATION.

				1	1112	NECAL IT O LA LION	11011						
** 10	er.	From Canadian	m , lian	From Canadian	m Iian	From United States	m States	From United States	m States	E		,	
Vessels.	(umN	Canadian Ports.	lian .s.	United States Ports.	States 55.	United States Ports.	States ts.	Canadian Ports.	lian .s.	01	igi	Total Tons.	Amount of Tolls.
	ГвтоТ	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		
CANALIJAN VESSELS.						<u> </u>							
Steam and Sail.						-	•						•
Welland St. Lawrence		171,854 958,314	171,497 750,218	108,985 45,460 8,273	11,721	1,436	394	14,034 11	112,157 59,864	296,309 1,003,815		7	
Ottawa 1 Ridesu		56,443 93,362	258,475 95,829	317	17,435				10,200	56,443 93,679			
Z St. Peter's Trent Valley Murray		64,509 31,096 92,090	61,394 34,413 39,614	13,501					13,090	64,959 31,096 105,755	61,394 34,413 52,704	126,353 65,509 158,459	2,527 345 98 225 98 4 98 4
Total, Canadian	21,177	1,517,249	1,460,505	177,136	29,184	1,466	394	14,659	201,374	1,710,510	1,691,455	3,401,965	31,977 02
UNITRD STATES VESSELS.		-	-										
Steam and Sail.													
Welland St. Lawrence Chambly	797 1,178 1,467	642 2,105	49 14,160 3 059	20,814	1,485	271,343 8,972	220,312 9,125	4,816 31,701	77,413 14,043	297,615 55,947 55,084	302,608 38,813 84,013	600,223 94,760 139,097	9,770 83 803 82 1 830 96
	309 131	3,895 1,092 1,092	7,475 4,541		16,444			518		2,413 2,407	23,919 4,541	28,332 6,948	78 19 78 19
Trent Valley Murray	39	1771	ខ្លួន	214				: :01	184	782	28 8 8	28. 496	800 885
Total, United States	3,928	12,023	29,405	88,221	22,763	280,315	229,437	37,037	172,594	417,596	454,199	871,795	13,191 99
Grand total, Canadian and United States	25,105	1,529,272	1,489,910	265,357	51,945	281,781	229,831	51,696	373,968	2,128,106	2,145,654	4,273,760	45,169 01

SUPPLEMENTARY APPENDIX A-Concluded.

No. (A) 22½.—Comparative Statement of Grand Total Freight passed through the undermentioned Canals during the Seasons of Navigation of 1891 and 1892, and the Amount of Tolls collected on the same, including Tolls on Vessels and Passengers.

Amount of Tolls.		es cts.	198,823 88 62,726 56 19,346 58 5,910 41 40,440 39 1,778 48 651 73 670 05	195,803 25 69,067 46 20,959 85 4,987 52 43,066 68 3,166 68 585 29
Total Tons.			975,013 936,794 223,264 109,313 585,041 34,520 20,839 11,742	955,554 965,755 270,765 96,366 96,366 22,513 13,729
ns.	Down.		684,801 688,890 105,620 28,142 584,170 28,008 4,207 5,810	685,348 720,580 106,882 24,145 646,459 45,481 5,174 8,139
Tons.	Up.		290,212 247,895 123,644 81,171 6,512 16,632 5,932	270,206 246,175 163,884 72,221 13,561 13,561 17,339 5,590
From United States to Canadian Ports.	Down.		306,022 137,926 98,073	284,330 118,048 97,850
From United State to Canadian Ports.	Up.		33,314	2,046 35,005 204 35,005
om States States ts.	Down.		247,543 306,257 645 1,701	32,583 240,332 300,733 12,391 1,424 702 2,046 35,005 204 301,780
From United States to United States Ports.	Up.			1,424 702 1,424 702 101,780
From Canadian to to United States	Down.		13,963 1,545 107,435	
Fro Cana to United Por	Up.		13,845 10,725 66,881 11,457	9,733 6,390 154,170 1,828 1.1
	Down.		58,559 547,737 7,547 28,142 476,735 4,207 4,322	87,642 599,062 8,828 24,145 544,679 45,481 5,174 7,126
From Canadian to Canadian Ports.	Up.		11,415 203,211 56,763 69,714 871 6,512 16,632 5,002	7,750 204,078 9,714 70,393 551 13,561 17,339 4,174
		1891.	Welland Canal. St. Lawrence Canals. Chambly Canal. Rideau Canals. Ottawn Canals. —St. Peter's Canal. Murray Canal.	Welland Canal St. Lawrence Canals. Chambly Canal Rideau Canals. Ottawa Canals St. Peter's Canal Trent Valley Canal

B. H. TEAKLES, Compiler of Canal Statistics.

RATES OF TOLLS

Canal Statistics.

No. 23.—RATES of Tolls on the Canals WELLAND, ST. LAWRENCE, RIDEAU, OTTAWA AND CHAMBLY CANALS (O.C., 25th April, 1873.)

The Rates of Tolls are divided into Six Classes, as under, and as 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. John's, each way.
Class No. 1.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Vessels, steamper ton. do sail do	0 01½ 0 02¼	$\begin{array}{c} 0 & 01\frac{1}{2} \\ 0 & 02\frac{1}{4} \end{array}$	$\begin{array}{ccc} 0 & 02\frac{1}{4} \\ 0 & 03\frac{3}{4} \end{array}$	$\begin{array}{ccc} 0 & 00\frac{3}{4} \\ 0 & 01\frac{1}{2} \end{array}$	0 00 3 0 01 1	0 01½ 0 02¼	0 00§ 0 01	0 01½ 0 02§
Class No. 2.								
Passengers, 21 years of age and upwards	0 10 0 05	0 10 0 05	0 20 0 10	0 10 0 05	0 05 0 02	0 08 0 04	0 02 1 0 01 <u>1</u>	0 09 3 0 04 2
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., 1st Feb., 1888). Plaster, gypsum Salt Salt meats or fish in barrels or otherwise Agricultural products, vegetable, not enumerated. Agricultural products, animals, not enumerated. Stone, for cutting.	0 15	0 20	0 20	0 15	0 10	0 07	0 06	0 19≩
Class No. 4.								
All other articles, not enumerated.	0 15	0 20	0 20	0 20	0 10	0 26	0 14	0 29

of the Dominion of Canada, 1892.

TRENT VALLEY CANAL (O.C., 25th JULY, 1888.)

1st Section.	2nd Section.	3RD SECTION.	4TH SECTION.	Тнкоисн.	3371-2412-
Fenelon Falls. to Bobcaygeon.	Bobcaygeon to Buckhorn.	Buckhorn to Burleigh.	Burleigh to Lakefield.	Fenelon Falls. to Lakefield.	Whitlaw's to Hastings.
Tolls chargeable at Fenelon Falls.	at	Tolls chargeable at Buckhorn.	Tolls chargeable at Burleigh.	Tolls chargeable at Fenelon Falls.	Tolls chargeable at Whitlaw's.
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	& cts.
0 00 18 0 00‡	. 0 00 3 0 00 4 .	0 00 3 0 00 1 5	0 00 3 0 00 1 6	0 00 3 0 01	$\begin{array}{ccc} 0 & 00\frac{3}{18} \\ 0 & 00\frac{1}{4} \end{array}$
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

Canal Statistics.

No. 23.—Rates of Tolls on the Canals Welland, St. Lawrence, Rideau, Ottawa and Chambly 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. Anne's Lock, each way.	Ottawa to St. John's, each way.
Class No. 5.	\$ ets.	\$ ets.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
0,000	,	-				l i		l
Bark Barrels, empty, each. Boat knees, each. Floats, per 1,000 lineal feet Firewood, per cord, in vessels. do do rafts. Hoops. Meets and appres tolegraph poles	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	0 191 0 031 0 081 2 05 0 23 0 301 0 30
Masts and spars, telegraph poles, per ton of 40 cubic ft., in vessels.	0 15	0 15	0 15	0 05	0 05	0 08	0 07	0 131
Masts and spars, telegraph poles, per ton of 40 cubic feet, in rafts. Railway ties, in vessels, each do rafts, each	0 20 0 01 0 02	0 20 0 01 0 02	0 20 0 01 0 02	$\begin{array}{c} 0 \ 10 \\ 0 \ 00\frac{1}{2} \\ 0 \ 01 \end{array}$	0 10 0 00½ 0 01	0 15 0 003 0 02	0 10 0 003 0 01	0 22½ 0 01% 0 02½
Sawed stuff, boards, planks, scant- ling and sawed timber, per M. feet, board measure, in vessels. Sawed stuff, boards, plank, scant-	0 30	0 30	0 30	0 15	0 10	0 11 1	0 063	0 20
ling and sawed timber, per M. feet, board measure, in rafts	0 60	0 60	0 60	0 30	0 20	0 19	0 09	0 361
Square timber, per M. cubic feet, in vessels	3 00	3 00	3 00	1 00	1 00	0 56	0 44	1 69
Square timber, per M. cubic feet, in rafts	4 50	4 50	4 50	2 00	2 00	1 12	0 63	3 13
ton of 40 cubic 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	0 20 0 02½	0 55 0 08
in vessels	0 40	0 40	0 40	0 40	0 20	0 23	0 12	0 42
in rafts	0 80 0 08	0 80 0 08	0 80	0.80	0 40	0 38	0 17	0 77
Staves and headings, brls., per M	0 40	0 40	0 08	0 08	0 05 0 15	0 06 0 15	0 06 0 10	0 13
do pipe, per M do W. India, per M. do salt barrel, sawn		1 50 0 75	1 50 0 75	1 00 0 60	1 00 0 25	0 75 0 45	0 50 0 25	1 75 0 65
or cut, per M	0 08 0 50	0 08 0 50	0 08 0 50	0 04 0 50	0 03 0 40	0 03 0 38	0 02 0 15	0 55 0 67 1
Hop poles, per 1,000 pieces	2 00	2 00	2 00	2 00	1 50	1 50	0 65	2 65
Special Class.								
Gypsum, crude (per O. C., 28th October, 1882)	0 15 0 20	0 05 0 20	0 20	0 05 0 15	West 0 10	ward 0 08	0 05	0 17
Stone, unwrought, corded and not suitable for cutting, per cord	0 75	0 75	0 75	0 60	0 371	0 28	0 24	1
Kryolite, iron ore or chemical ore	0 05	0 05	0 05	0 06	0 05	0 05	0 05	0 771

of the Dominion-Continued.

TRENT VALLEY CANAL.

1st Section.	2nd Section.	3RD SECTION.	4TH SECTION.	Тикоиси.	
Fenelon Falls	Bobcaygeon	Buckhorn	Burleigh	Fenelon Falls	Whitlaw's to Hastings.
Bobcaygeon.	to Buckhorn.	to Burleigh.	to Lakefield.	to Lakefield.	
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.	Tolls Charge able at Whitlaw's.
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ ets.	\$ ets.
0 01	0 01	0 01	0 01	0 04	0 01
0 00 1 0 00 1	0 001	0 001 0 001	0 00 1 0 00 1	0 01	0 00 1 0 00 1
0 00₹	0.004	0 00 1 0 13	0 00 1 0 13	0 01 0 52	0.001
0 13 0 03	0 13 0 03	0 13	0 13	0 32	0 13 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 02
0 02	0 02	0 02	0 02	0 08	0 02
0 01	0 01	0 01	0 01	0 04	0 01
0 001	0 001	$0.00\frac{1}{8}$	0 001	$0.00\frac{1}{2}$	0 00 1 0 00 1
0 001	0 001	0 001	0 004	0 01	0 004
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 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
0 008	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
0 003	0 003 0 02	0 003	0 003	0 03	0 002
0 02 0 10	0 02	0 02	0 02	0 08	0 02
0 051	0 051	0 051	0 10 0 05½	0 40 0 22	0 10 0 05½
0 001	0 001	0 001	0 001	0 02	0 001
0 05 0 20	0 05 0 20	0 05 0 20	0 05 0 20	0 20 0 80	0 05 0 20
0 2 0			0 20	0.80	0 20
Free. 0 01	Free. 0 01	Free. 0 01	Free. 0 01	Free. 0 04	Free. 0 01
0 031	0 033	0 031	0 031	0 14	0 031
0 031 0 003	0 003	0 003	0 003	0 03	0 003
Free.	Free.	Free.	Free.	Free.	Free.

Canal Statistics.

Sec. 76.—Standard for estimating weight, for canal tolls.

	Tons.		Tons.
2,000 lbs. avoirdupois. 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 Salt, 7 barrels Seed, 9 barrels. Sheep, 20.	1 1 1 1 1 2	Stone, 12 cubic feet Stone, 1 cord Whiskey, 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 40 cubic feet Shingles, 12 M. or bundles Split posts and feque rails, 1 Mille Staves and headings, pipe, 1 Mille do W. India, 1 Mille do barrel, 1 Mille Saw-logs, standard, 1 Square timber, 50 cubic feet Telegraph poles, 10 or 40 cubic feet Masts and spars, 40 cubic feet Railroad ties, 16 or 50 cubic feet All other woodenware, or partly manufactured wood, 40 cubic feet as per tariff. Traverses, 40 cubic feet or 5 pieces Floats, 50 lineal feet	1,12 1,13 1,13 1,13 1,13 1,13 1,13 1,13

Note.—By the Weights and Measures Act, Chapter 104 of the Revised Statutes of Canada, Section 14, all the above named articles are to be estimated by the cental of 100 lbs.

WAY RATES.

Sec. 77. The following way rates are to be levied on vessels and property passing the several subdivisions of the canals:—

Welland Canals.	Rat
1. From Port Maitland, Dunnville and Port Colborne to Port Robinson or Allanburg, not passing the lock, each way	
ing the lock, each way. 2. From Chippawa Cut, or any part thereof, to Dunnville, Port Maitland or Port Colborne. 3. From Dunnville to Port Colborne. 4. From Thorold to St. Catharines or Port Dalhousie.	
6. From Marshville or intermediate places to Port Maitland, Dunnville, Port Colborne and Port Robinson	
7. From Port Robinson to Allanourg or Thorold. 8. From Port Robinson to St. Catharines or Port Dalhousie 9. From St. Catharines to Port Dalhousie.	
0. From Dunnville to Maitiand 1. From Port Robinson through the lock and Chippawa Cut. 2. From Port Colborne to Port Maitland	
5. From Colborne, Dunnville, Maitland and Marshville to Thorold	
6. Through the Chippawa Cut only	
St. Lawrence Canals.	
Lachine. Tolls are to be levied on all vessels and property in proportion to the number of sections passed through	
CHAMBLY CANAL.	
Sec. 79. Vessels and property passing from Sorel to Chambly, to pay	

OTTAWA CANALS.

Sec. 80. The navigation is divided into three sections, viz., Grenville, Carillon and St. Ann's. Tolls are to be levied on all vessels and property in proportion to the number of sections passed through.

RIDEAU CANAL

Sec. 81. 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.

GENERAL.

Sec. 82. (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.

SPECIAL REGULATIONS RELATING TO TOLLS ON SOME OF THE CANALS.

Sec. 83. Coal may pass up all canals, except the Welland Canal, free of toll. O. C. June 7, 1869.

Sec. 84. Logs, lumber or other produce may pass free of toll down the Chippewa Creek, between the Aqueduct and Port Robinson. O. C. May 18, 1863.

NOTE.

O. C. June 27, 1890.

That the following words be added to Section 84:-

- (1) "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, as provided by the Order in Council of the 9th July, 1888.
- (2.) "Rafts may be passed through the Carillon Canal free of tolls, as pro-"vided by the Order in Council of the 9th July, 1888."
- Sec. 85. Iron ore, kyrolite or chemical ore, may pass through one section, or through all the canal sections aforesaid, for 5 cents per ton.
- Sec. 86. (a.) All goods having paid full toll through the whole line of the St. Lawrence Canals, or through the Lachine Canal, St. Ann'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, St. Ann's Locks, 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.
- (c.) 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.
- Sec. 87. 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.
- Sec. 88. During the season of navigation for 1889, the rate of toll for the passage of wheat, Indian corn, pease, barley and rye, when shipped for Montreal or for any port east of Montreal, shall be two cents per ton, such toll covering the Welland and the St. Lawrence Canals; and during the said period, if the ordinary full tolls for passage of the said food products through the Welland Canal have been paid, the said products shall be exempted from payment of any further toll for passage through any portion of the St. Lawrence Canal system, though not traversing the whole distance to Montreal. O. C. March 18, 1889.

HARBOUR DUES.

Sec. 89. 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.

Canal Statistics.

TOLLS AT SHEDS AT LACHINE CANAL BASIN.

Sec. 90. The following tolls shall be levied upon property stored at the sheds at the Lachine Canal Basin :-

			Centro.
Wheat and other grain, pe	r week,	per bushel	
Meal	do	per barrel	. 4
Pork, beef, butter and lard	do	do	. 5
Muscovado sugar	do	per hhd., 10 cents; per brl	. 5
Liquors	do	per pipe, 15 cents; per pun	. 12
Liquois	do	per hhd., 10 cents; per qr. cask	. 7
Iron (bars)	do	per ton	. 24
Iron, pig	do	do	. 12
Salt, except at the St.			
Gabriel Sheds	\mathbf{do}	per 100 minots	. 36
Salt at the St. Gabriel		•	
Sheds, Montreal, after			
the first 48 hours	do	per bag	. 1/2
Bales, crates, cases, &c.	do	per ton weight or measurement	. 24
Coals	do	per chaldron	
00445		•	-

Sec. 91. (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 can

be computed.

(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.

Flour.

Sec. 92. (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.

TOLLS ON VESSELS TRADING TO LOWER PORTS AND ENTERING THE LACHINE CANAL AT MONTREAL HARBOUR.

Sec. 98. The following rates of toll shall be levied upon vessels trading to lower ports, and entering the Lachine Canal from the harbour of Montreal, and on certain goods herein mentioned; said vessels to be allowed 48 hours for discharge of cargo before the following be incurred; and said discharge to be made below the St. Gabriel Lock.

Mills.

Steam-boats measuring 50 tons or upwards, per ton register, per day of 24 hours	. 8
All other vessels measuring 50 tons or upwards, per ton register, per day of 24 hours	s. 4
	Cents.
Steam-boats measuring under 50 tons register, each day of 24 hours	
All other vessels measuring from 25 to 50 tons register, per day of 24 hours	20
All vessels measuring less than 25 tons register, per day of 24 hours	
Coal, per chaldron	
Salt, per 100 minots	. 15
Iron of all kinds, per ton weight	. 15
Merchandise as in class No. 6 of the tariff of tolls on Dominion Canals	. 10

Provided always that the above tolls be levied only on goods for consumption in Montreal, and on vessels trading with that port. O. C. June 8, 1860.

CHARGES FOR WHARFAGE ON FIREWOOD ON WHARVES AND BANKS OF LACHINE CANAL.

Sec. 94. 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 crafts 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.

(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.

CANAL BASINS IN MONTREAL PART OF MONTREAL HARBOUR.

Sec. 95. 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 their cargoes on board sea-going vessels in that narrour, 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. (C. Aug. 3, 1878) the harbour. O. C. Aug. 8, 1878.

PHOSPHATES.

Sec. 96. 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 time for such

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 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.

CHARGES ON VESSELS WINTERING IN LACHINE CANAL.

Sec. 97. 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.

DUES ON VESSELS IN THE NEW BASIN, LACHINE CANAL.

Sec. 98. 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 basins of said canal and of the revenue that may be derived from their use, and the rates shall be levied by the Government on vessels loading or unloading in the new basins equal and similar to those levied by the Commissioners in respect of the old basin. O. C. Jan. 26, 1883.

Dues in the Harbour of Montreal under Acts 40 Vic., Chap. 53, and 42 Vic., Chap. 28.

Sec. 99 .- Tonnage Dues.

On steam-boats, for each day of twenty-four hours, or part of a day they remain in the harbour, reckoned from the hour of their arrival to that of their departure On all other vessels, per day, as aforesaid	Per ton register. 1 cent. do
Sec. 100. Wharfage Dues.	TD . 4
All goods, wares and merchandise, not elsewhere specified. Hay, straw, pig and scrap iron, pot and pearl ashes. Apples, crates and their contents, flour and meal, fish, meats, pitch, potatoes, tar, horses, neat cattle, sheep, swine	Per ton. 25 cents. 20 do
Ballast, clay, fire-bricks, gypsum, lime, marble, phosphates, sand, salt. Coal and coke, grain and seeds of all kinds. Special.—Bricks, 10 cents per 1,000; cordwood, 5 cents per cord; lumber, 10 cents per 1,000 feet, board measure.	10 do 7½ do
Bullion specie.	Free.

Note.

Sec. 101. (a.) On all goods, wares and merchandise whatsoever, the quantity of which by weight, measurement or other mode of estimate provided for in the tariff of the next preceding section can not be conveniently ascertained, it shall be lawful for the Harbour Commissioners to levy a rate of $\frac{1}{4}$ of 1 per cent on the value thereof.

(b.) Each entry shall pay not less than 5 cents.

(c.) All property landed on the wharfs for re-shipment shall only pay one wharfage.
(d.) The ton mentioned in the tariff of wharfage dues shall be 2,000 lbs. weight or 40 cubic feet measurement, according to the bill of lading.

Sec. 102 .- Standard for Estimating Weights.

Ashes, pot or pearl	5 brls. to 1 ton.
Apples, flour, meal, potatoes	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.

Canal Statistics.

TOLLS ON FLOATED TIMBER, &C., ENTERING THE BASIN AT LACHINE.

Sec. 103. 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.
m: 1	05		
Timber, square or round, of all kinds, above 12 x 12, per M cubic feet	20	(20	30
Timber, square or round, of all kinds, above 12 x 12, per M cubic feet	20	20 15	35
Timber, square or round, of all kinds, above 12 x 12, per M cuoic feet	20		
Timber, round or flatted, of all kinds, under 12 x 12, per M lineal feet	20		30
Timber, round or flatted, of all kinds, under 12 x 12, per M lineal feet. Planks and boards to include all kinds of sawed lumber in rafts, per M feet board measure. Saw-logs, 12 feet long, if longer in same proportion per log.	20 3 1		30 3 2
Timber, round or flatted, of all kinds, under 12 x 12, per M lineal feet. Planks and boards to include all kinds of sawed lumber in rafts, per M feet board measure. Saw-logs, 12 feet long, if longer in same proportion per log.	20 3 1	15 2 15 5	30 3 2 10
Timber, round or flatted, of all kinds, under 12 x 12, per M lineal feet Planks and boards to include all kinds of sawed lumber in rafts, per M feet board measure. Saw-logs, 12 feet long, if longer in same proportion per log Floats, per 100 Traverses, per 100.	3 1 10 10	15 2 1 2 5 5	30 3 2 10 10
Timber, round or flatted, of all kinds, under 12 x 12, per M lineal feet. Planks and boards to include all kinds of sawed lumber in rafts, per M feet board measure. Saw-logs, 12 feet long, if longer in same proportion per log. Floats, per 100. Traverses, per 100. Fence posts and rails, per M	3 1 10 10 10	15 2 15 5	30 3 2 10 10 10
Timber, round or flatted, of all kinds, under 12 x 12, per M lineal feet. Planks and boards to include all kinds of sawed lumber in rafts, per M feet board measure. Saw-logs, 12 feet long, if longer in same proportion per log. Floats, per 100. Traverses, per 100 Fence posts and rails, per M Staves, barrel, per M.	3 1 10 10 10 10 8	15 2 1 2 5 5	30 3 2 10 10 10 8
Timber, round or flatted, of all kinds, under 12 x 12, per M lineal feet. Planks and boards to include all kinds of sawed lumber in rafts, per M feet board measure. Saw-logs, 12 feet long, if longer in same proportion per log. Floats, per 100. Traverses, per 100. Fence posts and rails, per M Staves, barrel, per M do pipe do	3 1 10 10 10 10 8 8	15 2 1 2 5 5	30 2 10 10 10 8 8
Timber, round or flatted, of all kinds, under 12 x 12, per M lineal feet. Planks and boards to include all kinds of sawed lumber in rafts, per M feet board measure. Saw-logs, 12 feet long, if longer in same proportion per log. Floats, per 100. Traverses, per 100. Fence posts and rails, per M Staves, barrel, per M. do pipe do do West India, per M.	3 1 10 10 10 10 8 8 8	15 2 1 2 5 5	30 3 2 10 10 10 8
Timber, round or flatted, of all kinds, under 12 x 12, per M lineal feet. Planks and boards to include all kinds of sawed lumber in rafts, per M feet board measure. Saw-logs, 12 feet long, if longer in same proportion per log. Floats, per 100. Traverses, per 100. Fence posts and rails, per M Staves, barrel, per M do pipe do	3 1 10 10 10 10 8 8 8	15 2 1 2 5 5	30 2 10 10 10 8 8

NOTE.

O. C. 27th June, 1890.

3. That the following words be added to Section 103:—"The monthly charge "of 3 cents per cord on firewood is cancelled, as provided by Order in Council "of the 4th February, 1880."

Note.

Sec. 104, (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 superintendent may direct.

(c.) The rates on timber to take effect upon the completion of the booms in Lachine Canal. O. C. June 8, 1860.

CHARGES FOR WINTERING VESSELS IN RIDEAU CANAL.

Sec. 105. 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 season	8 00
do	do barges	do	
Inside locks	do steamers	do	
do ot	ner stations do	do	

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.

CHARGES FOR REPAIRING VESSELS ON THE BANKS OF CANALS.

Sec. 106. (a) Persons using the banks of the Lachine Canal as a site for the repair of their vessels 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. shall be subject to a charge of four dollars, payable in advance, for each vessel; the period during which

Sec. 107. 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 superin-

tendent

(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 mouth, a further sum of one dollar being charged for each additional month, or fraction of a month, the vessel may remain.

(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.

(f.) These rules shall be understood as applying to all cases where the canal bank is used in a manner for the repairs of vessels, whether such vessels are actually hauled up or not.

O. C. August 6, 1881.

ST. PETER'S CANAL.

Sec. 109. On each and every vessel passing through the said canal, two cents per ton on vessel and one cent per ton on the freight, each way. O. C. June 23, 1883.

ORDER IN COUNCIL.

12th December, 1889.

On a memorandum dated 10th of December, 1889, from the Minister of Railways and Canals, representing that in certain instances it has been the practice to tie up vessels for the winter alongside of canal piers, but not inside the gates, and that consequently such vessels thereby, to some extent advantaged, do not receive there the protection from the rise and fall of water which they would obtain inside, that nevertheless they have been charged with winterage dues.

The Minister recommends that henceforward, including the winter now current, but not otherwise retroactive, no charges be made for vessels so wintering outside the locks of any Government canal.

The Committee submit the above recommendation for your Excellency's approval.

O. C. 16th May, 1890.

His Excellency, under the authority conferred upon him by Chapter 37 of the Revised Statutes, intituled: "An Act respecting the Department of Railways and Canals," and by and with the advice of the Queen's Privy Council for Canada, is pleased to order that the rules and regulations for the management, maintenance, proper use and protection of the Canals of the Dominion of Canada, made and established by the Order in Council of the 26th day of October, 1889 (Consolidated Orders in Council of 1889), lished by the Order in Council of the 26th day of October, 1889 (Consolidated Orders in Council of 1889). together with any amendments thereof or additions thereto, shall be, and the same are hereby made applicable to the Murray Canal, with the exception of such sections or provisions as relate especially and only to other works named herein.

O. C. 20th May, 1890.

His Excellency, in pursuance of the provisions of Chapter 37 of the Revised Statutes, intituled: "An Act respecting the Department of Railways and Canals," and by and with the advice of the Queen's Privy Council for Canada, is pleased to order that the rates of tolk to be imposed and collected on the Murray Council for Canada, is pleased to order that the rates of tolk to be imposed and collected on the Murray Council for Canada, is pleased to order that the rates of tolk to be imposed and collected on the Murray Council for Canada, is pleased to order that the rates of tolk to be imposed and collected on the Murray Council for Canada, is pleased to order that the rates of tolk the rate of one wighth of the control of the c Canal, now open for regular traffic, shall be and the same are hereby fixed at the rate of one-eighth of those charged for passage through the St. Lawrence Canals.

ORDER IN COUNCIL.

27th September, 1890.

On a memorandum dated 25th September, 1890, from the Minister of Railways and Canals, representing that under date the 20th August, 1890, an Order in Council was passed prohibiting 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.

The Minister recommends, as this prohibition has entailed the use of tugs and consequently expense to the parties concerned, and upon the advice of the Deputy Head of the Department of Railways and Canals, that all tugs used solely for the purpose 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 works on that section.

The Committee submit the above recommendation for your Excellency's approval.

ORDER IN COUNCIL.

27th day of September, 1890.

PRESENT:

HIS EXCELLENCY THE GOVERNOR-GENERAL IN COUNCIL.

His Excellency, under the authority conferred upon him by Chapter 37 of the Revised Statutes, intituled: "An Act respecting the Department of Railways and Canals," and by and with the advice of the Queen's Privy Council for Canada, is pleased to declare the now completed Tay Canal to be part of the Queen's Privy Council for Canada, is pleased to declare the now completed Tay Canal to be part of the Rideau Canal, and that the rules and regulations for the management, maintenance, proper use and protection of the canals of the Dominion of Canada, made and established by the Order in Council of the 26th of October, 1889 (Consolidated Orders in Council of 1889, chapter 115), together with any amendments thereof or additions thereto, shall be applicable to the said Tay Canal, and the same are hereby made applicable to the Tay Canal accordingly, with the exception of such sections or provisions as relate specially, and only to works other than the Rideau Canal named therein.

And His Excellency is further pleased, under the authority of the above cited Act, and by and with the advice of the Queen's Privy Council for Canada, to impose and authorize the collection of the following rates of toll upon the said Tay Branch of the Rideau Canal system, now open for regular traffic, namely —

namely :-

From Perth to Smith's Falls, 1 section, or 1 of Rideau Canal rates. From Perth to Kingston, 2 sections, or 2 Rideau Canal rates. From Perth to Ottawa Basin, 2 sections, or & Rideau Canal rates. From Perth to River Ottawa, 3 sections, or full Rideau Canal rates.

A portion of a section to be charged as a whole section.

Canal Statistics.

AT THE GOVERNMENT HOUSE, AT OTTAWA.

MONDAY, 18th day of May, 1891.

PRESENT:

HIS EXCELLENCY THE GOVERNOR-GENERAL IN COUNCIL.

His Excellency, in virtue of the powers vested in him by Section 13 of Chapter 37 of the Revised Statutes, intituled: "An Act respecting the Department of Railways and Canals," and by and with the advice of the Queen's Privy Council for Canada, is pleased to order that all 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.

(Signed)

JOHN J. McGEE,

Clerk, Privy Council.

The Right Honourable The Minister of Railways and Canals.

O.C. 18th May, 1891.

Whereas, in consequence of the operations of the contractors for the enlargement of the Cornwall Canal, access to the river wharf opposite the town of Cornwall is temporarily prevented for the steamers of the Richelieu and Ontario Navigation Company, such steamers being obliged, in place of stopping at such wharf, to pass through the two locks at the lower entrance of the canal to another wharf in that town;

His Excellency, under the authority conferred upon him by Section 13 of Chapter 37 of the Revised Statutes, intituled: "An Act respecting the Department of Railways and Canals," and by and with the advice of the Queen's Privy Council for Canada, is pleased to order that during the current season the steamers of the said Richelieu and Ontario Navigation Company shall be allowed passage free of toll through the said two locks at the lower entrance of the Cornwall Canals.

(Signed)

(Signed),

JOHN J. McGEE,

Clerk, Privy Council.

O.C. 31st October, 1890.

His Excellency, under the authority conferred by him by Chapter 37 of the Revised Statutes, intituled: "An Act respecting the Department of Railways and Canals," and by and with the advice of the Queen's Privy Council for Canada, is pleased to impose and authorize the collection of the following tolls and dues 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.	Winterjng.	Per Day.	Per Week.
Over 15 tons	\$ 30 20	8 4 3	\$ 12 10

AT THE GOVERNMENT HOUSE AT OTTAWA.

Monday, the 4th day of April, 1892.

PRESENT:

HIS EXCELLENCY THE GOVERNOR-GENERAL IN COUNCIL.

His Excellency, having had under consideration the Tariff on Tolls on the Canals of the Dominion, and the several Orders in Council, under which a special rate has from time to time been established temporarily on certain food products passing through the Welland Canal, and through the St. Lawrence Canals, for shipment at Montreal and ports east of Montreal, is pleased to order in virtue of the powers vested in him by Chapter 37 of the Revised Statutes intituled "An Act respecting the Department of Railways and Canals," and by and with the advice of the Queen's Privy Council for Canada, that the following amendments shall be, and the same are hereby made to the Tariff of Tolls in force in the said Canals, viz. :-

That a refund be made of a portion of the Canal tolls collected on wheat, Indian corn, pease, barley, rye, oats, flax seed and buckwheat which have been carried through the Welland Canal, and the St. Lawrence Canals to Montreal or to any port east of Montreal in all cases where the said products so carried are exported, and in such cases only.

That this rebate be such as to reduce the tolls to two cents per ton of the said products or any of them, and that the conditions of such refund be the following:-

That the products aforesaid on which the rebate of tolls may be claimed shall be shown to have been originally shipped for Montreal or for some port east of Montreal and shall be shown to have been carried to Montreal or to some port east of Montreal, and actually sent out of the country.

160

That the right to this rebate shall not be lost by reason of intermediate transhipment, provided that the place of such transhipment is one within the Dominion of Canada.

That the right to this rebate shall extend to any portions of cargoes lightered at Port Colborne and reshipped at Port Dalhousie, and also to shipments of the above named products made from any Canadian Lake Ortanic port. Lake Ontario port.

That payment of the amount to be refunded be made, from time to time, as cargoes of the said products

are despatched for export from Montreal or from some port east of Montreal

That this Order in Council remain in force for the present year, 1892, only.

(Signed)

JOHN J. McGEE,

Clerk, Privy Council.

Certified Copy of a Report of a Committee of the Honourable the Privy Council, approved by His Excellency the Governor-General in Council on the 18th of May, 1892.

On a memorandum dated 19th April, 1892, from the Minister of Railways and Canals, submitting a memorandum, copy herewith, from the proper Officers of the Department of Railways and Canals upon certain objections raised by the Montreal Board of Trade, by forwarders and others to the existing tonnage and wharfage charges on vessels and freight using the basins of the Lachine Canal at Montreal. From such memorandum, which is of a detailed and explanatory character, it appears that the complaints made are well founded, the complications shown being due to the fact that the various Orders in Council have from time to time been passed, fixing and changing rates and charges to meet particular cases as they arcse; and pending a general revision of the whole matter of Canal regulations, tolls, and charges which seems to be desirable, it is expedient that the subject of these complaints should be dealt with at once seems to be desirable, it is expedient that the subject of these complaints should be dealt with at once.

The Minister, accordingly, on the advice of the Canal Revenue Officers, endorsed by the Superintending Engineer of the Lachine Canal, and the Deputy Head of the Department of Railways and Canals, recom-

mends the adoption of the following:

1st. The cancellation of Section No. 93 of Consolidated Orders in Council of the 26th October, 1889. Chapter 115, and the substitution therefor of the following:-

Wharfage Dues on Coal for local consumption in Montreal.

Section 93. 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 5 cents a ton.

Coal screenings shall be charged 3 cents a ton.

2nd. The cancellations of Sections Nos. 98, 99, 100, 101, and the substitution of the following:—

Wharfage Dues in all basins of the Lachine Canal on Sea-going vessels.

Section 98. 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 :-

	ot elsewhere specified		per ton.
Hay, straw, pig and scrap iron, pot	and pearl ashes	20	go
Apples, crates and their contents, flo	our and meal, fish, meats, pitch, potatoes, tar,		
horses, neat cattle, sheep and sy	vine	15	do
Ballast, clay, fire-bricks, gypsum, li	me, marble, phosphate, sand, salt, coal and		
	ls	71	do
	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 !			

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 re-shipped from the wharfs or vessels into sea going vessels, shall pay wharfage dues equal to one section of canal tolls, viz., 32 cents per 1,000 feet board measure.

The Committee submit the above recommendation for Your Excellency's approval.

(Signed) JOHN J. McGEE, Clerk, Privy Council.

To the Honourable
The Minister of Railways and Canals.

AT THE GOVERNMENT HOUSE AT OTTAWA.

Monday, the 6th day of June, 1892.

PRESENT :

HIS EXCELLENCY THE GOVERNOR-GENERAL IN COUNCIL.

His Excellency, in virtue of the provisions of Chapter 37 of the Revised Statutes, intituled: "An Act respecting the Department of Railways and Canals," and by and with the advice of the Queen's Privy Council for Canada, is pleased to order that the provisions of the Order in Council of the 29th day of April, 1891, under which, in the case of steamers specially chartered for the conveyance of excursion par-161

Canal, Statistics.

ties, going and returning in the same boat on the same day, one-half only of the usual rates of passenger tolls were charged for passage through the Lachine Canal and the St. Anne Lock, and for passage through the Welland Canal, in the case of excursion parties leaving Toronto or Hamilton for St. Catharines, and excursion parties leaving St. Catharines for Toronto or Hamilton, shall be, and the same are hereby continued in force for the present season of navigation only.

(Signed)

JOHN J. McGEE, Clerk of the Privy Council.

The Honourable

The Minister of Railways and Canals.

AT THE GOVERNMENT HOUSE AT OTTAWA.

FRIDAY, the 15th day of July, 1892.

PRESENT :

HIS EXCELLENCY THE GOVERNOR-GENERAL IN COUNCIL.

Whereas, by a clause of the Order in Council of the 4th April, 1892, respecting the rebate to be allowed on certain food pooducts traversing the Welland and St. Lawrence Canals bound for Montreal or some port east of Montreal for exportation, it was provided that the right to such rebate should extend to shipments of the said products made "from any Canadian Lake Ontario port," this provision being taken from the Order in Council of the 29th April, 1891;

And whereas it was not intended that the restriction in favour of Canadian Lake Ontario ports, should be continued.

should be continued;

should be continued;

His Excellency, under the provisions of Chapter 37 of the Revised Statutes, intituled: "An Act respecting the Department of Railways and Canals," and by and with the advice of the Queen's Privy Council for Canada, is pleased to order that the said Order in Council of the 4th April, 1892, shall be and the same is hereby amended by the omission of the word "Canadian" from the clause in question; and that such amendment shall have force and effect from the 4th day of April last.

(Signed) JOHN J. McGEE,

Clerk of the Privy Council.

AT THE GOVERNMENT HOUSE AT OTTAWA.

MONDAY, the 19th day of July, 1892.

PRESENT :

HIS EXCELLENCY THE GOVERNOR-GENERAL IN COUNCIL.

Whereas application has been made for the extension to the Trent Valley Canals of the concession of reduced passenger rates for excursion parties now enjoyed on the Lachine and Welland Canals under an Order in Council of the 6th of June, 1892.

His Excellency, under the provisions of Chapter 37 of the Revised Statutes, intituled: "An Act respecting the Department of Railways and Canals," and by and with the advice of the Queen's Privy Council for Canada, is pleased to order that for the present season of navigation only, steamers specially chartered for the conveyance of excursion parties going and returning the same day, one-half of the usual passenger tolls shall be charged for passage through the Trent Valley Canals.

(Signed)

JOHN J. McGEE, Clerk of the Privy Council.

The Honourable

The Minister of Railways and Canals.

AT THE GOVERNMENT HOUSE AT OTTAWA.

TUESDAY, the 2nd day of August, 1892.

PRESENT :

'HIS EXCELLENCY THE GOVERNOR-GENERAL IN COUNCIL.

His Excellency, under the authority conferred upon him by Chapter 37 of the Revised Statutes, and by and with the advice of the Queen's Privy Council for Canada, is pleased to order that the provisions of the Order in Council of the 6th June, 1892, reducing by one-half the usual passenger tolls on the Lachine Canal (such reduction applying to cases where excursion parties are conveyed in steamers specially chartered for that purpose, going and returning the same day, shall be, and the same are hereby extended to the Beauharnois Canal for the present season of navigation only.

(Signed)

JOSEPH POPE,

Asst. Clerk of the Privy Council.

AT THE GOVERNMENT HOUSE AT OTTAWA.

FRIDAY, the 14th day of October, 1892,

PRESENT :

HIS EXCELLENCY THE GOVERNOR-GENERAL IN COUNCIL.

His Excellency, in virtue of the provisions of Chapter 37 of the Revised Statutes, intituled: "An Act respecting the Department of Railways and Canals," and by and with the advice of the Queen's Privy Council for Canada, is pleased to prescribe the following scale of charges 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	00
Barges	4	00
Grenville Canal, Steamers, for season		
Barges	4	00
Inside Locks, Ste. Anne, Carillon and Grenville Canals, Steamers, per		
season		
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.

(Signed)

JOHN J. McGEE, Clerk of the Privy Council.

Certified Copy of a Report of a Committee of the Honourable the Privy Council, approved by His Excellency the Governor-General in Council, on the 2nd November, 1892.

On a memorandum dated 28th October, 1892, from the Minister of Railways and Canals, representing that he is in receipt of a letter from the manager of the Collins' Bay Rafting and Forwarding Co. of which the following is a copy :-

"COLLINS' BAY, 19th September, 1892,

"To the Minister of Railways and Canals, "Ottawa, Ont.

"Dear Sir,—I am in receipt of a communication from Robert Rae, Esq., Commodore of 'The Yacht Club of Chicago,' with reference to the bringing of a large number of yacht through the canals next season to attend the World's Fair in Chicago, and he suggest that your Government should make the canals for all yachts from abroad free for the round trip, and asks me to lay the matter before your department with that end in view. It is understood that 'The Ocean Racing Yacht Club,' 'The International Yacht Club of England' will attend provided their way is made easy to Chicago. The Danish, Russian, German, French, Italian and Greek Yacht Clubs have been invited, but before accepting will require information on the subject of the way of getting from Montreal to Chicago and the cost thereof. It is proposed by the Royal Yacht Club that there be an Ocean race across to Montreal, and afterwards for the fleet to rendezvous at Macinac to meet the Canadian and American yachts from there to race to Chicago for a prize to be given by the American Yacht Clubs. for a prize to be given by the American Yacht Clubs.

"If your Government should decide to accede to this proposition and give public notice to that effect or advise me I will forward same to the President of the Yacht Club of Chicago.

"Yours truly,
"Collins' Bay Rafting and Forwarding Co. (Ltd.) "Per A. LEGER, Jun., (Signed) Manager."

The Minister, in view of the interests attaching to the projected scheme, recommends that the courtesy of free passage through the Dominion canals be extended to all pleasure yachts attending the Chicago Exhibition in 1893, and that he be authorized to inform the company accordingly in reply to their letter.

The committee submit the above recommendation for Your Excellency's approval.

(Signed) JOHN J. McGEE,

Clerk of the Privy Council.

The Honourable

The Minister of Railways and Canals.

REPORTS.

RAILWAY STATISTICS

OF CANADA

AND CAPITAL, TRAFFIC AND WORKING EXPENDITURE OF THE RAILWAYS OF THE DOMINION.

1892.

PRINTED BY ORDER OF PARLIAMENT



OTTAWA

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

1893

[No. 9b-1893.] Price 5 cents.

CANADIAN RAILWAYS.

OFFICE OF THE CHIEF ENGINEER,

RAILWAYS AND CANALS,

OTTAWA, 21st March, 1893.

Sir.—I have the honour to submit to you the Railway Statistics of the Dominion for the year ended on the 30th June, 1892, compiled from sworn returns made by the several railway companies to the Minister of Railways and Canals. I introduce, in the first place, a table showing the growth of the railways from year to year, since the opening of the first line in 1837.

Year.	Miles in Operation	Year.	Miles in Operation
36	Q	1865	2,1
37	16	1866	2,1
38	16	1867	2,2
39	16	1868	2,2
10	16	1869	2,4
11	16	1870	2,4
12	16 16	1871	2,4
13	16	1070	2,5
4	. 10	11	2,6
<u> </u>		1874	2,6
16	59	1876.	4,8
17	59	11 1077	5,1 5,5
18	59	1878.	6,1
50	71	1879.	6,4
ñ	93	1880.	6,8
32	212	1881.	7,2
33	423	1882.	7.8
54	657	1883.	8,7
55	855	1884.	9,6
56	1,296	1885.	10,
57	1,428	1886.	10.0
58	1,654	1887	11,6
59	1,997	1888	12,
60	2,087	1889	12.6
61	2,087	1890	13,2
<u>62</u>	2,110	1891.	14,0
§3	2,110	1892	14,8
34	2,145		

The table appended may be summarized as follows:—	
Miles of railway completed (track laid)	14,870
do sidings	1,923
do iron rails in main line	607
do steel do	14,263
Capital paid (including the four following items)	,
Government bonuses paid	149,224,064
do loans paid	21,687,755
do subscriptions to shares paid	300,000
Municipal aid paid	13,981,248
Miles in operation	14,588
Earnings	\$51,685,768
Working expenses	36,488,228
Net earnings	15,197,540
Passengers carried	13,533,414
Freight carried (tons)	22,189,923
Train mileage	44,448,468
Passengers killed	14
Number of elevators	5υ
do guarded level crossings	131
do unguarded do	9,232
do overhead bridges	401
do level crossings of other railways	193
do junctions with other railways	310
do do branch lines	193
do engines owned	1,922
do do hired	39
do sleepers and parlour cars owned	148
do do do hired	7
do first class cars owned	870
do do hired	39
do second class and immigrant cars owned.	632
do do do hired	2
do baggage, mail and express cars owned	575
do do do hired	16
do cattle, box and freight cars owned	32,676
do do do hired	2,992
do platform cars owned	15,205
do do hired	195
do coal and dump cars owned	3,582
do do hired	2

Nominal Capital Paid.

	Miles Constructed.	Amount.	Per Mile.	Remarks
		\$ cts.	\$ cts.	
Ordinary share, Capital	14,870	244,844,381 52	16,465 66	
Preference do	14,870	99,555,900 39	6,695 08	
Bonded debt		305,120,199 76	20,519 18	
Aid from Dominion Government	14,870	144,214,383 56	9,698 34	•
do Ontario do	6,063	6,171,181 44	1,017 84	1487
do Quebec do	2,783	12,033,012 76	4,323 75	1 2 1 2 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3
do New Brunswick Government	1,360	4,365,355 71	3,209 82	8 E E
do Nova Scotia do	830	1,999,695 87	2,409 27	# T 5
do Prince Edward Island do	211		_,100	Agual to an average of \$1,815.56 per mileon total mileage.
do Manitoba do	1,400	2,390,690 00	1,707 63	qual to a age of \$1 per mile
do British Columbia do	695	37,500 00	53 95	Equal age of per m
do North-west Territories Government	1,528			1245
do Municipalities in Ontario	6,063	10,354,744 37	1,707 87	<i>-</i>
do do Quebec	2,783	2,419,218 62	869 28	
do do New Brunswick		296,500 00	218 01	
do do Nova Scotia	830	277,685 00	334 56	
do do Prince Edward Isl'nd	211			
do do Manitoba	1,400	595,600 00	425 43	
do do British Columbia		37,500 00	53 95	
do do North-west Ter	1,528			
Capital from other sources		10,278,200 67	691 20	
Total paid Capital	14,870	844,991,749 67	56,825 27	

Government and Municipal Loans, Bonuses, &c., promised to Railways completed and under construction.

		Amount.	
		\$	ct
Ominion Gover	nment	148,083,305	93
ntario	do	6,365,507	4
uebec	do	15,438,567	' 1
ew Brunswick	do	4,617,346	; 8
ova Scotia	do	2,175,995	
anitoba	do	2,391,740	0
ritish Columbia		37,500	0
unicipalities in		10,409,041	7
do	Quebec	4,256,674	1 (
ďο	New Brunswick	316,500	
do .	Nova Scotia	289,685	
ďο	Manitoba	595,600	
do	British Columbia	37,50 0	0 (
do	North-west Territories.	25,000) (

FA	та	r.	A	cc	NT TO	TO	JTE	

	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. Coupling cars Collisions and derailments. Striking bridges. Walking or being on track Explosions Other causes	4 2	8 16 1 20	4 9 2 2 1 67	27 20 5 10 22 2 89
Other causes	$\frac{2}{14}$	31	109	57 235

LAND GRANTS made by Governments to Railways completed and under construction.

Name of Railway.	Government.	Acres Granted.	Acres Sold.	Amount Realized.
Alberta Railway and Coal Co	Dominion	1,409,189	835,248	1,101,733
Calgary and Edmunton	do	2,176,000	2,720	9,520
<u>.</u>		, . ,	3,624,355	11,214,623
Canadian Pacific	do	26,568,000	Town sites -	,,
			net	1,312,995
Esquimalt and Nanaimo		1,900,000	217,956	712,654
Great North-West Central	dο	2,880,600		• • • • • • • • • • • • • • • • • • • •
Manitoba and North-Western		2,918,400	447,527	736,505
Manitoba and South-Eastern.	do	704,000		
Manitoba and South-Western Colonization	do	1,396,500	259,012	1,055,883
Qu'Appelle, Long Lake and Saskatchewan.	do	2,229,333	131,445	131,593
Winnipeg and Hudson Bay	do	*		
Wood Mountain and Qu'Appelle	do	1,536,000		
	Quebec	140,000	1	
Lake Temiscamingue Colonization	do	250,000		
Lower Laurentian	do	480,000		
Montreal and Western	do	350,000	1	
Ottawa and Gatineau Valley		450,000		· · · · · · · · · · · · · · · ·
Quebec and Lake St. John	do	1,840,000		
Western Counties	Nova Scotia	150,000		

^{*6,400} acres per mile in Manitoba; 12,800 per mile in N.-W. Territories. No distance named.

The statistics have again been greatly delayed owing to the difficulty of obtaining the returns of many of the smaller companies, some of which were not received until February, and that of Montreal and Lake Maskinongé Railway has not yet come in, although numerous applications have been made to the company.

The Act requires that these returns be made on or before the 1st October, and I can only repeat the recommendation I have so often made already, that the law

relating to these returns be enforced.

I have the honour to be, sir,

Your obedient servant, COLLINGWOOD SCHREIBER,

Chief Engineer, Railways and Canals.

THE SECRETARY,

Department of Railways and Canals.

Table showing Locations of the Railways of the Dominion of Canada, 30th June, 1892.

Name of Pollway	Description.	Dista	nce.
Name of Railway.	Description.	Miles.	Total.
Alberta Railway and Coal Co	Late North-Western Coal and Navigation Co.—From Dunmore, on C.P.R., westerly to colliery at Leth- bridge, and from Lethbridge to Coutts.	: 1	174:10
Albert Southern Baie des Chaleurs Bay of Quinté and Navigation Co.	Metapedia to Paspebiac (60 miles of track laid). Deseronto, on Bay of Quinte, Lake Ontario, to Deser-		174·12 17·00 100·00
Brantford, Waterloo and Lake	onto Junction, Grand Trunk Railway Brantford, Ont., to Waterford, Ont.		3.50
Erie	Moncton, on Intercolonial Railway, to Buctouche, N.B.		17·00 32·00
Sto Maria	Brockville to Westport	191 · 97 105 · 00	45.00
Canada Atlantic	City of Ottawa to Boundary. Crosses the St. Law-rence at Coteau by bridge. Connects with Grand		296 · 97
Central Counties	Trunk Railway at Coteau aud Lacolle		138.00
Canada Southern	Main Line—Windsor to Suspension Bridge. Amherstburg Branch—Essex Oentre to Amherstburg. St. Clair Branch—St. Clair Junction to Courtright.	226 18 15 70 62 63	21.00
	Fort Erie Branch—Fort Erie to Welland Junction Erie and Niagara Branch—Fort Erie to Niagara	17 · 50. 30 · 60	
	Oil Springs Branch—Oil Springs to Oil City	5·50 7·00	
a	Leamington and St. Clair—Comber to Leamington	13.80	378.91
Canada Eastern	Late Northern and Western of New Brunswick— Gibson to Chatham Junction, I. C. R Blackville to Indiantown Chatham to Chatham Junction	107 · 00 9 · 00 11 · 00	
Canadian Pacific:	Charles to Charles the Charles		127 · 00
Owned	Main Line—Montreal to Vancouverdo Quebec to St. Martin's Junction	2,904·70 159·80	
(Formerly North Shore Ry.)	Branch—Grand Piles Junction to Grand Piles	26.90 2.00	
(do Joliette do St. Félix	13 60	
	do do St. Eustache do St. Lin Junction to St. Lin do Buckingham to Buckingham Village	15 00	
	do Buckingham to Buckingham Village	7.50	
	do Sudbury to Copper Mines	45 00 5 00	
	do Winnipeg Junction to Emerson	182 50 64 50	
	do Rosenfeldt to Gretna	13:70	
	do Winnipeg to West Selkirk do do Stonewall.	22 50 18 00	1
	do Glenboro' to Nesbitt.	114 50 27 20	
	do New Westminster Junct'n to New Westm'tr. do Mission Junction to Mission. Vancouver to Coal Harbour	8 20 10 00 1 20	
	Total mileage owned	3,768 · 90	
Leased lines	Atlantic and North-West (in Canada)— South end Lachine Bridge to Maine boundary	182 · 50	

TABLE showing Locations of Railways, &c .- Continued.

	Dista	ince.
Description.	Miles.	Total
St. Lawrence and Ottawa— Ottawa to Prescott	58:40	•
Mile End Junction to Scuth End Lachine 9 10 Bridge. 9 10 Montreal to Toronto 339 00 London to Windsor 112 50 Toronto Junction to Strachan avenue 3 20 Credit Valley— Toronto Junction to St. Thomas 116 10 Streetsville Junction to Melville Junction 31 70	463 80	
Toronto, Grey and Brucc— Toronto Junction to Owen Sound		-
Guelph Junction— Guelph Junction on Credit Valley Ry. to Guelph West Ontario Pacific—London to Woodstock St. John and Maine—Carleton, N.B., to Vanceboro'. New Brunswick Railway (in Canada)— Gibson to Woodstock. 62 90 Newbury Junction to Edmunston 105 50 Aroostook Junction to Boundary. 4 98 Reignible to St. Lahr	15·00 26·60	
New Brunswick and Canada Ry. (in Canada McAdam Junction to St. Stephen. 33.90 Watt do St. Andrews 27.50 McAdam do Woodstock. 50.80 Debec do Maine boundary 5.00		
Fredericton Ry.—Fredericton Junction to Fredericton. Columbia and Kcotenay—Robson to Nelson— Kootenay Lake to Columbia River. Manitoba South-Western Colonization— Manitou to Deloraine. 101 00 Winnipeg to Glenboro'. 104 20 Elm Creek to Barnsley. 12 60	22·10 27·70	
Total mileage leased	1.764 98	3
do operated		5,533
Intercolonial—		
	Ottawa to Prescott. 51 80 Chaudiere Junction to Sussex st., Ottawa. 6 60 Ontario and Quebec— Mile End Junction to Scuth End Lachine Bridge. 9 10 Montreal to Toronto. 339 00 London to Windsor. 112 50 Toronto Junction to Strachan avenue. 3 20 Credit Valley— Toronto Junction to St. Thomas. 116 10 Streetsville Junction to Melville Junction. 31 70 Cataract to Elora. 27 30 Toronto, Grey and Brucc— Toronto Junction to Owen Sound. 116 90 Orangeville Junction to Teeswater. 69 40 Glenannan to Winghan. 5 00 Guelph Junction— Guelph Junction on Credit Valley Ry. to Guelph West Ontario Pacific—London to Woodstock. St. John and Maine—Carleton, N.B., to Vanceboro'. New Brunswick Railway (in Canada)— Gibson to Woodstock. 62 90 Newbury Junction to Edmunston. 105 50 Aroostook Junction to Boundary. 4 98 Fairville to St. John. 2 30 New Brunswick and Canada Ry. (in Canada— McAdam Junction to St. Stephen. 33 90 Watt do St. Andrews. 27 50 McAdam do Woodstock. 50 80 Debec do Maine boundary. 5 00 Fredericton Ry.—Fredericton Junction to Fredericton. Columbia and Kootenay—Robson to Nelson— Kootenay Lake to Columbia River. Manitoba South-Western Colonization— Manitou to Deloraine. 101 00 Winnipeg to Glenboro'. 104 20 Elm Creek to Barnsley. 12 60 Total mileage leased. do operated. Intercolonial— Halifax to Lévis. 675 00 Moncton to St. John. 89 00 Truro to Stellarton. 44 00 Stellarton to Mulgrave. 82 00 Stellarton to Mulgrave. 82 00 Stellarton to Mulgrave. 91 00 New Glasgow to Pictou Landing. 8 00	St. Lawrence and Ottawa—Ottawa to Prescott.

TABLE showing Locations of Railways, &c.—Continued.

	N indian	Dista	nce.
Name of Railways.	Description.	Miles.	Total.
Canadian Government Railways	Branch to North Sydney 5 00	1,141 00	
	Prince Edward Island— 147 00 Main Line—Alberton to Georgetown 38 40 Branch—Mount Stewart to Souris 38 40 do Alberton to Tignish 13 10 do County Line to Cape Traverse. 12 10	210 60	
Caraquet	From Gloucester Junction, Intercolonial Railway, 5 miles south of Bathurst Station, easterly along the south shore of Baie des Chaleurs to Shippigan Harbour, N.B.		1,351·60 68·00
Carillon and Grenville.	Carillon to Grenville, P.Q., connecting at both termini with Ottawa River Navigation Company's steamers (Gauge, 5 ft. 6 in.)		13.00
	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 and Quebec, in Township of Rawdon		104·00
Central Railway of New Bruns- wick	From Norton Station, on the Intercolonial Railway, to Chipman	44.66	
Cornwallis Valley			14:00
and Parisboro).	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 Cheron Pailway.	32.00	
Drummond County	Glasgow Railway Ste. Rosalie, P., Q., junction with Grand Trunk Railway, to Ball's Wharf on River St. Lawrence, connects with Canadian Pacific Railway at Drummond-ville.		46·00
Elgin, Petitcodiac and Havelock.	From Elgin, County of Albert, N.B., to Petitcodiac Junction with Intercolonial Railway; thence to Havelock, in County of King's.		28:00
Esquimalt and Nanaimo. Fredericton and St. Mary's Rail-	,		75·78 78·00
way Bridge	Over the St. John River, connecting the Frederictor Railway, at Fredericton, with the Northern and Western Railway at St. Mary's	H	1.33

TABLE showing Location of Railways, &c .- Continued.

Name of Ballman	Deminis	Dista	nce.
Name of Railway.	Description.	Miles.	Total
rand Trunk—			
Grand Trunk Division (owned)	. Main Line-Point Edward to Point Lévis and Island		
	Pond	719·50 10·25	
	Sarnia Extension—Point Edward to Great Western	3.00	
	Branch—Montreal leading to Wharves	0.75	
	Three Rivers Branch—Arthabaska to Doucet's Landing	35 25	
	Kingston Branch-Main Line to Kingston	2.25	
	Galt and Waterloo Branch—Waterloo and Berlin to	14.50	
	Galt. London Branch—St. Mary's to London	14 50 22 00	
	Champian Dranch—St. Lambert to Roundary St.		
	Jacques Cartier Union—Jacques Cartier to Canadian	66.00	
	Pacing Danway Junetion	6.50	
	Blackwell to St. Clair Tunnel Northern and North-western Railways—	5.00	
	Toronto to Gravenhurst	111 · 60	
	Allandale to Collingwood.	31 76	
	Collingwood to Meaford. Elmsvale to Hillsdale.	20.50	
	I UIT DOVEL (Lake Line) to Hamilton	2 · 28 40 · 25	
	Daniilon to Allandale (Lake Simoos)	93.82	
Great Western Division	Beeton to Collingwood Main Line—Niagara Falls to Windsor Story Creek	39.83	
With the control of t		229 50 2 56	
	Branch—Hamilton to Toronto do Harrisburg to Guelph	37 40	
•	uo mantibuliy ki brantiora	27·18 8·00	
	Sariia Draiich— Komoka to Sarnia	50.85	
	Petrolea Branch—Wyoming to Petrolea. Loop Line—Fort Erie to Glencoe.	4:75	
	Allanburg Branch—Allanburg to Clifton Junction	145 55 8 32	
	Welland—From Port Colborne to Port Dalhousie Ont	25 14	
Leased and operated	Sundry connections	1.50	
Deased and Operated	and faimersion to Kincardine	168 · 15	
	LONGON and Port Stanley—London to Post Stanley— I	23.84	
	London, Huron and Bruce—Hyde Park to Wingham Junction	69.01	
	Drailtiord, Noriolk and Port Burwell—Brantford to	05 01	
	Iusonourg Junction	34.78	
	NOTE.—The Georgian Bay and Lake Erie Railway includes the former Georgian Bay and Wellington,		
	Fort Dover and Lake Huron, and Stratford and Huron		
	Railways. Buffalo and Lake Huron—Goderich to Fort Erie	160.00	
	Georgian Bay and Lake Erie—Port Dover to Wiarton	162·00 172·75	
	South Norioik—Simcoe to Port Rowan	17 00	
	Montreal and Champlain Junction—Brosseau to Dun- dee and Ste. Martine to Valleyfield	81 · 25	
	Northern and Pacific Junction (from Northern Rail-	01 20	
	way at Gravenhurst to Junction with Canadian	111.05	
	Pacific Railway at La Vase River, Lake Nipissing). North Simose—Colwell to Penetanguishene	111 · 37 33 · 34	
	Cobourg, Blairton and Marinora—Cohourg to Har-	22 01	
	wood	ļ	
	l. ———i	18.00	
	Waterloo Junction—		
	Waterloo to Elmira, Ont Several connections between lines	10·25 8·91	

TABLE showing Locations of Railways, &c .- Continued.

	Description.	Dista	ince.
Name of Railway.	Description.	Milles.	Total.
Grand Trunk—Continucd. Leased and operated	Brought forward. Midland Railway Division— Main Line—Belleville to Midland	36 25 8 75 32 00 12 25 26 50	
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		3,157·63 2·22
Great Eastern	Constructed from junction with South-eastern Railway at Yamaska to River St. Francis. 6:00 Constructed from Nicolet to Junction with Grand Trunk Railway at St. Grégoire 7:00	10.00	
Montreal and SorelGreat Northern	Constructed from junction with Grand Trunk Railway at St. Lambert to Armstrong opposite to Sorel Constructed from St. Andrews on Ottawa River to junction with C.P.R. at Lachute 7:00 Constructed from St. Jérôme to Ste, Julienne 18:00	44 67	
Great North-west Central Hereford	Constructed from junction with C.P.R. at Chater, westward to Hamiota. From International Bouldary to Dudswell, County Wolfe, connects with Canadian Pacific Railway at Cookshire, and with Quebec Central at Dudswell. Dudswell to Lime Quarries (Dominion Lime Company)	50·93 48·20	
Irondale, Bancroft and Ottawa.	Constructed from junction with Grand Trunk Railway near Kinmount Station to Irondale Located to Bancroft, 50 miles.		53 · 00 12 · 00
Joggins	Maccan Station, I.C.R., to Joggins Mine. Richibucto, N.B., to Intercolonial Railway Richibucto to St. Louis.	27:00	12.00
	Main Line—Kingston to Pembroke Glendon Branch—Bedford to Zanesville do To Robertsville Mines	103 · 00 4 · 00 1 · 00	
Kingston and Pembroke	Glendon Branch—To Doran's Mills, Charcoal Works, McLaren's Mills, Bethune's Mines, Lavant Mills, Clyde Forks Mills and Francis Mills	4.75	
Kingston, Napanee and Western.	(Connects with Grand Trunk at Kingston, Canadian Pacific at Sharbot Lake and at Renfrew.) Late Napanee, Tamworth and Quebec:— Napanee to Tamworth. Yarker to Harrowsmith. Tamworth to Tweed	28:50	
	11		56.45

TABLE showing Locations of Railways, &c.—Continued.

Name of Railway.	Description	Dista	ince.
Name of Ranway.	Description.	Miles.	Total.
L'Assomption Lake Erie, Essex and Detroit	L'Epiphanie Station, C.P.R., to L'Assomption		3.00
River Lake Temiscamingue Colonization	From Walkerton, Ont., on G.T.R., to Learnington, on Canada Southern Railway		42.00
Railway	Between Mattawa and head of Lake Kippewa, in various sections.		15.50
Lower Laurentian (formerly St. Lawrence, Lower Laurentian and Saguenay.	From St. Tite, on C.P.R., to Rivière à Pierre, on Quebec and Lake St. John Railway		39.50
Manitoba and North-western	Portage la Prairie to Yorkton Shell River Branch Leased—Saskatchewan and Western—Minnedosa to Rapid City.	223·05	
Massawippi Valley	From Lennoxville to Vermont boundary, there connecting with Connecticut and Passumpsic Rivers Railway; also connects with Grand Trunk and C.P.R. at Lennoxville	32.00	249 97
Montreal and Lake Maskinongé Montreal and Vermont Junction.	Branch—Stanstead Junction to Stanstead.* From St. Félix to St. Gabriel de Brandon. From Junction with Stanstead, Shefford and Chambly Railway, 24 miles east of St. John's, P.Q., to Junction with Vermont and Canada Railway, at Vermont		34 · 00 13 · 00
Montreal and Western	Champlain and St. Lawrence Junction Railway Constructed from St. Jerôme, on C. P. R., to Ste.		23.60
Montreal and Ottawa Montreal, Portland and Boston	Agathe Agathe Vaudreuil Junction, C.P.R., to Rigaud. Junction with Grand Trunk at St. Lambert to Farnham Marieville to St. Césaire	(30·50 16·00
New Brunswick and Prince Edward Island	From Sackville Station, Intercolonial Railway, to Cane		40.60
Northern Pacific and Manitoba.	Tormentine. Winnipeg to International boundary. Winnipeg to Portage la Prairie. Morris to Brandom. Connection with C. P. R. at Winnipeg.	65°30 52°50	36:00
Nosbonsing and Nipissing. New Glasgow Iron, Coal and Railway Company.	From Lake Nosbonsing to Lake Nipissing		264.50 5.50
Nova Scotia Central	From Middleton, on the Windsor and Annapolis Railway, to town of Lunenburg, on the Atlantic		12·50
Orford Mountain	Eastman, on C. P. R., to Kingsbury, Que. (10 miles		73.50
Ottawa and Gatineau Valley	Canadian Pacific Railway Station at Hull, Que., to	1	26:50
Parry Sound Colonization	From Scotia, on Northern and Pacific Junction Railway, to Bear Lake.	İ	30·00 20 00
Pontiac and Renfrew	Railway, to Bristol Mines, County Pontiac, One	1	4 25
Pontiac Pacific Junction	From Junction with Canadian Pacific Railway at Aylmer, Que., to Pembroke, Ont	;]	85.00
Port Arthur, Duluth and Western	(Rails laid on 71 miles from Aylmer.) Port Arthur to International boundary (Connects with C. P. R. at Port Arthur and Fort William; 70 miles track laid.)	~	85.20

TABLE showing Locations of Railways, &c.—Continued.

	Description.	Dista	nce.
Name of Railway.	Description.	Miles.	Total.
Qu'Appelle, Long Lake and Sas- katchewan	From Canadian Pacific Railway at Regina, northwesterly to Prince Albert		254 · 50
Quebec and Lake St. John	Quebec to Roberval	191·00 5·00	
Quebec Central.	Main Line—Sherbrooke to Harlaka Junction, Inter- colonial Railway, 5 miles from Lévis, Que Chaudière Branch—Beauce Junction to St. Francis Angus Branch—East Angus to Angus Mills	137 50 15 00 1 00	196 00
	(Connects with Grand Trunk, Passumpsic and C.P.R. at Sherbrooke.)		153.50
Quebec, Montmorenci and Char- levoix	Hedleyville, Parish of St. Roch, Quebec, to Ste. Anne.		21.00
Stanstead, Shefford and Chambly.	From Junction with Montreal and Vermont Junction Railway, near St. John's, Que., easterly to Waterloo (Connects with South-eastern, and Chapleau and St. Lawrence Junction Railways.)	•••••	43.00
Shore Line (formerly Grand Southern).	St. John to St. Stephen, N.B	· · · • · · · · · · · ·	82 50
Stewiacke Valley and Lansdowne.	Graham's Siding, Intercolonial Railway, to Upper Stewiacke, thence to Lansdowne (10 miles under		07 .00
Shuswap and Okanagon	construction). From junction with Canadian Pacific Railway at Sicamous to Lake Okanagan. Main Line—West Farnham to Boundary Line Northern Division—Sutton Junction to Sorel. Branch—Drummondville to Wheatland Bridge. Between Newport and Rickford—Part of Line in Canada. Lake Champlain and St. Lawrence Junction—Stanbridge to St. Guillaume.	33 · 80 95 · 50 7 · 60	
St. Catharines and Niagara Cen-	(Connects with Connecticut and Passumpsic Railway, Grand Trunk and Stanstead, Shefford and Chambly.)		200 10
tral St. John Bridge and Railway Extension	St. Catharines, Ont., to Niagara Falls		12 35
St. John Valley and Rivere du Loup		1	1 75
Salisbury and Harvey	under construction)	45.00 2.00 1.00	
Harvey Branch St. Lawrence and Adirondack	Albert to Harvey. From Junction with Canada Atlantic near Valleyfield to International Roundary		50°25 3°00
Thousand Islands	to International Boundary Gananoque to Gananoque Station, G.T.R. Rivière du Loup, Que., on Intercolonial, to Edmunds ton, N.B., on the New Brunswick Railway. Branch—Edmunston to Connors on St. John River.	81 00	
	13	32.00	113.00

TABLE showing Locations of Railways, &c .- Continued.

N	Description	Dista	nce.
Name of Railway.	Description.	Miles.	Total.
Tobique Valley	From Perth Centre on C.P.R. to Plasterrock (14 miles built) From Fairbank Junction on Grand Trunk to Don and		28 00
Toronto Belt Line	From Fairbank Junction on Grand Trunk to Don and from Carlton to Swansea.		12.85
Waterloo Junction	Waterloo to Elmira		10 25
		84.00	87 00
Windsor and Annapolis	Branch—Wilmot to Forbrook	3.20	
Leased Line	Windsor Branch-Windsor to Windsor Junction,		:
	Intercolonial Railway, 14 miles from Halifax	32.00	119:50
Wood Mountain and Qu'Appelle.	Station, to Fort Qu'Appelle, thence north-westerly		
Winnipeg and Hudson Bay	(17 miles under construction) Winnipeg to Port Nelson on Hudson Bay (Constructed 40 miles, Winnipeg to St. Laurent on Lake Manitoba.)		110·00 650·00

No. 1.-Summary Statement of Capital for the Year ended 30th June, 1892.

	LENGTH OF LINE.	Ordinary Sha	E CAPITAL.	Preference Share Capital.	Bonded Debt.		Dominion Governmen	ST AID.		Provincial (OVERNMENT AID.	•	, N	UNICIPAL AID.		CAPITAL FROM OTHER SOURCES.		Capital.	FLOATING DEBT.		
NAME OF RAILWAY.	Completed (rails laid). Unde Construction.	uc- Authorized. Subscrib	ed. Paid Up.	Authorized. Subscribed. Paid Up.	Authorized. Subscribed. Paid Up.	Rate of Interest.	Loan. Bonus.	Paid Up.	Provinces.	Loan.	Bonus, Subscrip Bonus, to Shar Bond	otion e or Paid Up.	Loan. Bon	Subscripti to Shares Bonds.		Subscribed. Paid Up	. Subscribed.	Paid Up.	Amount, Rate of Interest	Total Cost of Railway and Rolling Stock.	REMARKS.
Name and the second sec	Miles. Miles	. \$ cts. }	ets. \$ ets	\$ cts. \$ cts. \$ cts.	\$ cts. \$ cts. \$ c	Per cent.	\$ cts. \$ c3s	\$ cts.		\$ ets.	\$ cts. \$	cts. \$ cts.	\$ cts. \$	cts. \$ 0		\$ ets. \$ 0		1	\$ cts. percent.	\$ ets.	
1 Alberta Railway and Coal Co	174 12 17 00 182 50 60 00 3 50	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$egin{array}{c c} 0 & 0 & 125,920 & 00 \\ 0 & 00 & 176,000 & 00 \\ 0 & 00 & 30,000 & 00 \\ \hline \end{array}$	0 1,795,500 00 1,795,500 00 1,795,500 00	159,588 93	6	51,200 00 - 156,800 00 - 620,000 00 - 96,000 00	156,800 00 524,175 00 58,900 00	do		52,500 00 711,122 02 1,030,000 00 185,000 00	48,500 00 699,192 08 650,100 12 179,073 50	5,0	325,000	325,000 00		4,691,046 29 253,700 00 6,751,088 02 1,950,000 00 165,500 00	224,880 00 6,735,158 08 1,204,275 12 142,500 00		4,997,728 94 193,000 00 6,213,364 56 97,565 00	See Dominion land grant.
# 6 Beauharnois Junction 7 Brantford, Waterloo and Lake Frie **8 Brantford, Norfolk and Port Burwell 9 Brockville, Westport and Sault Ste. Marie 10 Buctouche and Mancton	19 50 17 00 34 78 45 00 32 00	500,000 00 225,000 30,000 1,125,000 00 1,125,000 250,000 00 250,000	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0	340,000 00 340,000 00 340,000 00 1,125,000 00 1,125,000 00 310,000 00 310,000 00 3,715,982 20 3,715,982 20	5	57,600 00 192,000 00 102,400 00	105,200 00 67,020 00	,,,		96,000-00	94,500 00		0 00 25,000	114 000 00		281,000 00 686,600 00 30,000 00 2,558,000 00 758,400 00 7,237,639 20	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		30,000 00	Linked with Montreal and Champlain Junction Railway.
‡11 Buffalo and Lake Huron 12 Calgary and Edmonton 13 Canada Atlantic *14 Canada Central 223 60 45 00	162 00 253 97 42 138 00 268 60	(i) 1,000,000 00 250,000 2,000,000 00 2,000,000		4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5,549,946 66 5,549,946 66 5,549,946 6 4,650,090 00 3,450,000 00 3,450,000 0 1,823,333 33 1,823,333 :		314,400 00 1,525,250 00 344,439 84	1,525,250 00	Ontario. Quebec. Ontario. New Brunswick.	1	270,000 00 }	455,000 00 1,479,000 00 353,500 00		42.500	00 42,500 00		5,799,946 66 7,234,400 00 4,870,083 33	5,574,946 66		6,271,639, 20 1 6,746,223 82 1	Dominion land grant.
15 Canada Eastern 365-11 16 Canada Southern 365-11 Leamington and St. Clair 13-80 *17 Canadian Pacific	. 127 00	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	15,000,000 00 2,000 00	0	20,000,000 00 19,573,600 59 19,573,600 78,960,188 17 78,960,188 1		51,200 00 25,000,000 00 (53,949,933 65	51,200 00 25,000,000 00	Ontario do		147,858 65 37,500 00 643,545 00	147,858 65 37,500 00		0 00 00 00 00 00 00 00 00 00 00 00 00 0	33,000 00		35,148,159 24 00 177,023,188 17	35,130,159 24 177,023,188 17		142,667,882 00 1	5
18 Canadian Government Railways— Intercolonial	t	950,000 00 950,00	950,000		500 (NN) (N) 500,000 (O) 500,000 (6	3,750,081 38	3,750,081 38 30,404,577 65	New Brunswick		180,000 00	180,000 00					3,750,081 38			54,593,478 65 3,750,081 38	9 7
20 Caraquet	68 00 13 00 21 00 104 00 74 66 18 00	950,000 00 950,000 200,000 00 100,000 500,000 00 450,000 450,000 00 450,000 900,000 00 900,000 1,000,000 00 1,000,000	100,000 00 100,000 00 315,000 00 450,000 00 900,000 00	0 300,000 00 300,000 00 300,000 00	900,000 00 900,000 00 900,000 0	5 6 	226,012 54	159,251 54	Ontario. do New Brunswick. Ontario.	26,000 00	126,500 00 277,665 00 18,740 00	126,500 00 277,665 00 44,740 00	15,0 93,5 113,5		15,000 00 93,500 00 113,500 00		1,854,000 00 100,000 00 675,000 00 970,000 90 2,363,677 54 1,158,240 00	100,000 00 540,000 00 970,000 00 2,236,916 54	86,000 00 6 2,000 00	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0 1 2 2 3 4
†25 Cobourg, Blairton and Marmora. *26 Columbia and Kootenay. 27 Cornwallis Valley. *28 Credit Valley. 29 Cumberland Railway and Coal Co. 30 Drummond County.	27·70 14·00 175·10 46·00 62·81	1,000,000 00 250,00 100,000 00 95,60 1,000,000 00 1,000,00 650,000 00 650,00	95,600 0 95,600 0 1,000,000 0 400,000 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	693,500 00 693,500 0 260,000 00 260,000 00 260,000 0	6	112,000 00 44,800 00 44,800 00 201,920 00 82,652 82	39,850 00 182,405 00	Nova Scotia Ontario. Nova Scotia		44,800 00 531,000 00 189,030 93 549,000 00 107,500 00	44,800 00 531,000 00 144,230 93 300,170 54 107,500 00	1,085,9	0 00	27,685 00 1,085,000 00 15,000 00	41,612 29 41,612	1,055,500 00 212,885 00 1,616,000 00 1,233,830 93	807,300 00 212,885 00 1,616,000 00 1,184,080 93	59,091 79 7	758,141 73 2 2 2 2 752,372 72 2 998,279 62 3	Included in Ontario and Quebec.
31 Elgin, Petiteodiac and Havelock 32 Erie and Huron 33 Esquimalt and Nanaimo *34 Fredericton 35 Fredericton and St. Mary's Bridge Co.	28·00 75·75 78·00 22·10 1·33	200,000 00 165,25 110,000 00 105,50 3,000,000 00 1,500,00 500,000 00 500,00 104,012,600 10 99,913,28	0 00	0	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		96,000 00 750,000 00 300,000 00 30,000 00 142,633 33	750,000 00 330,000 00 15,142,633 33	New Brunswick.		83,000 00 230,000 00	83,000 00		0 00	13,000 00 257,500 00 80,000 00	15,754 07 15,754 1,037,016 14 1,037,016	14 3,287,016 14 910,000 00 580,000 00	2,987,016 14 728,200 00 400,000 00		1,297,754 07 3 3 3 414,086 75 3	Dominion land grant.
#36 Grand Trunk #37 Grand Trunk, Georgian Bay and Lake Erie #38 Grand Junction #39 Great Eastern #40 Great Northern.	883 25 172 75 85 40 13 00 25 00 50 93	1,150,000 00 1,150,00 2,000,000 00 590,00	1,150,000 0 160,000 0	0	1,250,000 00		48,000 00 22,400 00 229,500 00 160,000 00	21,888 00 40,345 00			336,000 00	336,000 00			929,000 00 263,000 00 6,000 00	269,201 00 269,201	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2,678,270 00 467,388 00 1,272,877 75 268,278 00	269,201 20 6 to 8	4	In Midland system.
41 Great North-west Central. ‡42 Great Western *43 Guelph Junction ‡44 Hamilton and North-western. 45 Harvey Branch. 46 Hereford (including Dominion Lime Co.'s Line).	540.75 15.00 173.90 3.00 53.00	30,000 00 10,00 60,000 00 49.50 800,000 00 800,00	32,500 0 30 800,000 0	0	13,262,056 01 13,262,056 0 1,992,413 33 1,992,413 3 800,000 00 800,000 00 800,000 0 3,375,000 00		51,200 00 9,600 00 179,200 00 160,000 00	5,553 57 170,560 00	do New Brunswick Quebec.		565,020 00	565,020 00 9,000 00 103,000 00	155,000 00	20,000			13,262,056 01 236,200 00 3,333,029 33 68,100 00 1,882,200 00	13,262,056 61 222,000 00 3,333,029 33 47,053 57 1,873,560 00		a 4.	Dominion land grant. Included in Grand Trunk. Included in Grand Trunk.
47 Irondale, Bancroft and Ottawa ‡48 Jacques Cartier Union 49 Joggins 50 Kent Northern 27 00 St. Louis and Richibucto 7 00	12:00 8 6:50 12:00 34:00	00 9,000,000 00 53,50 200,000 00 20,00 350,000 00 350,00 100,000 00 80,00 750,000 00 44,50	29,000 0 0 00 350,000 0 0 00	0	175,000 00	6	42,400 00 58,334 27 22,400 00 268,400 00	37,500 00 80,734 27 192,944 00			38,400 0	35,200 00	157,5	0 00	157,500 00	5,490 43 5,490	243,500 00 20,000 00 430,800 00 316,734 27 875,890 43	68,500 00 20,000 00 422,700 00 236,734 27 800,434 43		20,000 00 4 168,061 25 4 246,000 00 5	9
51 Kingston, Napanee and Western 52 Kingston and Pembroke 53 L'Assumption 54 Lake Champlain and St. Lawrence Junction 55 Lake Erie and Detroit River 56 Lake Temiscamingue Colonization	112·75 3·00 61·40 42·00 15·50	5,000,000 00 4,485,00 19,000 00 19,00 600,000 00 600,00 1,000,000 00 200,00 100,000 00 50,00	0 00	00	2,160,000 00 572,000 00 572,000 0 378,000 06 378,000 06 500,000 00 500,000 0	6	48,000 00 11,200 00 342,400 00 240,200 00	11,200 00 118,400 00	Quebec		456,493 00 7,350 00 380,000 00 250,000 00 178,630 00	456,493 00 3,675 00 250,280 00		0 00	491,000 00 36,000 00 45,000 00	7,289 18 7,289 80,000 00 80,000	6,070,813 00 37,550 00 1,409,000 00 1,094,689 18	5,994,613 00 24,875 00 1,264,280 00 690,689 18	3,189 87	924,500 35 5 4.064,956 00 5 5 660,689 18 5	1 2 2 2 3 3 4 4 5 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6
†57 London, Huron and Bruce †58 London and Port Stanley 59 Lower Laurentian †60 Madoc Junction to Bridgewater 61 Manitoba and North-western	69 01 23 84 39 50 8 75 234 50	1,500,000 00 12,000,00 12,000,000 00 12,000,00 00 750,000 00 250,40	0 00 5,837,500 0	00	78,000 00 3,241,200 00 3,241,200	5&6	217,600 00	217,600 00		652,440 00	168,000 00	178,630 00 168,000 00 652,440 00	215,6	25,000	311,500 00 00	220,000 00 220,000	1,424,986 00 1,121,811 00 1,130,600 00 16,524,240 00	1,424,986 00 1,121,811 00 1,105,600 00 10,361,740 00		1,424,986 00 5 1,121,811 00 5 615,000 00 5 	7 8 9 0 In Midland system. 1 Dominion land grant.
62 Manitoba and South-eastern *63 Manitoba and South-western Colonization. 64 Massawippi Valley \$65 Midland. \$66 Montreal and Champlain Junction.	217 80 34 00 173 97 61 75	1,000,000 00 700,00 1,000,000 00 735,00 6,600,00 250,00 100,000 00 25,00	$ \begin{array}{c cccc} 0 & 00 & & & 700,000 & 0 \\ 0 & 00 & & 735,000 & 0 \\ 0 & 00 & & 6,600,000 & 0 \\ 0 & 00 & & 250,000 & 0 \\ 0 & 00 & & 25,000 & 0 \end{array} $	100	. 3,744,000 00 2,544,000 00 2,544,000)	80,000 00 30,000 00 42,200 00	30,000 00 41,280 00	Manitoba Quebec Ontario Quebec do	900,000 00	168,350 20	900,000 00 168,350 20 150,000 00 87,250 00	144,8 21,7		00 65,000 00 144,870 85 21,774 00		250,400 00 4,144,000 00 880,000 00 14,380,634 38 959,367 33 254,450 00	4,144,000 00 800,000 00 14,380,634 38 959,367 33		800,000 00 6 16,973,680 21 6	2 Dominion land grant. 3 Dominion land grant.
67 Montreal and Lake Maskinonge 68 Montreal and Ottawa 69 Montreal, Portland and Boston 70 Montreal and Sorel 71 Montreal and Vermont Junction 72 Montreal and Western	16 00	1,000,000 00 227.20 986,60 1,000,000 00 750,00 00 10,000,000 00 300,00 3 500,000 00 300,00 0 3 000,00 00 300,00	0 00 986,600 0 0 00 750,000 0 0 00 5,000 0	X0 00 20	730,000 00 730,000 00 901,000 730,000 00 730,000 00 730,000 00		192,000 00 112,000 00 361,270 00	93,757 57	do do do Quebec New Brunswick.		142,500 00 232,000 00 262,500 00 472,500 00 76,000 00	129,710 00 231,122 00 116,645 00 100,000 00 76,000 00	25,0 14,1	0 00	2,800 00 25,000 00	72,000 00 72,000	564,500 00 2,144,600 00 1,868,600 00	204,970 00 2,143,722 00 1,690,402 57 285,396 00	260,000 00 6	$1,320,000 00 \mid 7$	78 8 9 9 Operated by Central Vermont. No return of capital. Operated by Central Vermont.
*73 New Brunswick *74 New Brunswick and Canada 75 New Brunswick and Prince Edward Island 76 New Glasgow Iron, Coal and Railway Co	175 68 117 20 36 00 12 50 205 48	3,500,000 00 3,000,00 2,288,000 00 1,178,00 500,000 00 212,80 	0 00 1,178,000 (0 00 212,850 (00 610,000 00 610,000 00 610,000 00) 170,000 00 170,000 100,000 100,000 5,413,144 66 5,413,144	6	118,400 00 40,000 00 1,320,000 00	113,440 00	do do Nova Scotia Ontario		575,000 00 108,000 00 40,000 00 196,188 00	575,000 00 99,708 90 196,188 00	47,5	0 00 00 0 00 00 0 00 00 390,000	23,000 00 47,500 00 631,980 00	158,225 26 158,225	7,689,640 80 2,580,500 00 539,250 00 242,225 26 6,241,312 66	158,225 26 6,241,312 66	27,558 03	272,208 66 7 158,226 26 7 *3,609,986 67 7	3 4 4 5 5 6 6 7 * In Grand Trunk.
†78 Northern and Pacific Junction 79 Northern Pacific and Manitoba *80 North Shore 81 Nosbonsing and Nipissing 82 Nova Scotia Central *83 Ontario and Quebec	264 50	$\begin{array}{c} 1,000,000 \ 00 \ 1,000,00 \ 00 \ 1,000,00 \ 00 \ $	0 00 500,000 0 0 00 205,000 0 0 00 2,000,000 0	00	6,010,000 00 6,010,000 00 6,010,000 5,225,000 00 1,593,533 60 1,593,533 0 2,800,000 00 1,000,000 00 1,000,000 19,502,591 33 19,502,591		954,000 00 256,000 00 99,200 00	*954,000 00 230,700 00	Nova Scotia Ontario	2,546,000 00	533,300 00	532,250 00 2,546,000 00 402,819 94	52,5	0 00	52,500 00	233,000 00 233,000	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	7,542,250 00 5,593,533 60 205,000 00 4 2,566,519 94		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Dominion Government pay to Quebec Government 5 per cent per annum on this amount.
84 Orford Mountain 85 Ottawa and Gatineau Valley 86 Parry Sound Colonization 87 Pontiac and Renfrew 88 Pontiac Pacific Junction	10 00 16 30 00 10 20 00 4 25 61 00 10 70 00 15	00 1,000,000 00 50,00 00 1,000,000 00 1,000,00 200,000 00 50,00 250,000 00 100,00 00 3,000,000 00 300,00 50 1 200 000 00 249,00	0 00 4,000 0 0 00 5,000 0 0 00 20,000 0 0 00 300,000 0	00	1.368,000 00		33,200 06 320,000 06 128,000 06 19,200 06 337,100 06 271,200 06	126,372 00 30,400 00 13,600 00 174,828 00	do Ontario. Quebec do		124,000 00 445,982 00 148,500 00 17,500 00 600,000 00 240,000 00	38,713 07 363,050 00 30,000 00 17,433 60 426,000 00 194,174 00	101,0				273,200 00 1,765,982 00 326,500 00 136,700 00 1,338,100 00	75,713 07 493,422 00 65,400 00 51,033 60 900,828 00	223,602 57 7 400,428 89 7	25,700,201 49 8 	* Includes West Ontario Pacific and Credit Valley. 5 6 6 7 7 8
89 Port Arthur, Duluth and Western. 90 Qu'Appelle, Long Lake and Saskatchewan 91 Quebec Central. 92 Quebec and Lake St. John 93 Quebec, Montmorency and Charlevoix. *94 Quebec, Montreal, Ottawa and Occidental.	254·00 153·50	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0 00 210,000 (8 00 3,044,098 (3,800,000 (00 00 00	3,814,980 00 3,814,980 00 3,814,980 00 4,749,867 00 4,749,867 00 3,796,000 00 3,796,000 00 3,500,000 00 3,500,000	5	348,342 00 1,003,495 00 96,000 00 1,440,000 00	60,342 00 844,927 73 65,600 00	Quebec do	1,176,956 00	924,000 00 2,748,000 00 192,000 00 727,000 00	795,410 00 1,502,966 00 138,000 00 1,903,956 00 2	103,6	450,000	40,000 00 103,000 00 450,000 00 796,644 62		800,290 00 4,024,980 00 9,169,307 00 11,797,495 00 338,000 0	4,024,980 00 8,752,717 00 10,393,893 73 213,600 00	380,532 65 7	*2,515,770 00 9 10,393,894 00 9 594,624 02 9	* Dominion land grant. Grading, masonry and bridging only.
95 Salisbury and Harvey 96 Saskatchewan and Western 97 Shore Line 98 Shuswap and Okanagan	45°00 15°47 82°50 50°79	1,000,000 00 659,50 232,50 445,400 00 445,40 750,000 00 750,00	0 00 232,500 (0 00 425,000 (0 00 750,000 (000 77,500 00 77,500 00 000	599,573 33 599,573 33 599,573 181,040 00 181,040 825,000 00 825,000 00 825,000 1,250,000 00 1,250,000 00 1,139,523		29,665 45		New Brunswick Manitoba New Brunswick	50,000 00	455,000 00	455,000 00 50,000 00 416,800 00	70,0	00 00	70,000 00 10,000 00 3,000 00		9,302,956 00 1,813,738 78 551,040 00 1,698,400 00 2,163,200 00	3 1,813,464 34 551,040 00 1,669,800 00		*	Dominion Government pay to Quebec Government 5 per cent of this amount. From return of 1887. In Manitoba and North-western. From return of 1884. Exclusive of rolling stock.
99 Stanstead, Shefford and Chambly 100 St. Catharines and Niagara Central ‡101 St. Clair Tunnel 102 St. John Bridge and Railway Extension *103 St. John and Maine	12:35 2:22 1:75 91:80	500,000 00 500,00 300,000 00 100,00 700,000 00 200,00 2,666,666 66 2,654,11 00 400,000 00 133,60	0 00	00 00 13 44	696,632 20 696,632 20 696,632 2,500,000 00 2,500,000 00 2,500,000 125,000 00 125,000 00 125,000 243,333 33 216,664 00 216,664	0 6	146,400 00 375,000 00 500,000 00	375,000 00 433,900 00	Ontario New Brunswick do do		5,181 81 880,000 00 300,00 195,000 00	5,181 81 0 00 1,180,000 00	80,000 00	100,000			1,196,632 26 426,400 06 3,575,000 06 830,181 81 4,110,817 44	0 1,196,632 20 246,759 00 2,945,000 00 588,713 94 4,110,817 44	238,840 90 5	461,760 00 10 3,183,840 90 10 584,698 30 10	Operated by Central Vermont.
104 St. John Valley and Rivière du Loup. 105 St. Lawrence and Adirondack. *106 St. Lawrence and Ottawa 107 South Eastern ‡108 South Norfolk. 109 Stewiacke Valley and Lansdowne	20 22 58 40 147 70 17 00	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	00 00 350,000 0 00 00 2,012,500 0 00 00 20,000 0	00 789,909 20 789,909 20 789,909 20	973,334 00 973,334 00 2,000,000 00 2,000,000 00 170,000 00 170,000 00 170,000 00 54,750	$egin{pmatrix} 0 & & 6 & & \dots \\ 0 & & 5 & & \dots \end{bmatrix}$	82,624 00 54,400 00 \$236,800 00	40,256 00 54,400 00	Ontario. Quebec Ontario. Nova Scotia		70,400 00 497,007 10 80,000 00	65,216 00 497,007 10		90,000 528,000 00 00			517,400 00 503,024 00 2,153,243 20 5,037,507 10 309,400 00	455,472 00 0 2,153,243 20 0 5,037,507 10 0 309,400 00			94 55 66 77 78 * Exclusive of rolling stock.
110 Temiscouata. 111 Thousand Islands. 112 Tobique Valley. 2113 Toronto Belt Line	113 00 4 08 14 00 12 85	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	991,000 (991,000 (90,000 (99,900 (50,000 (00 00 00	2,258,133 33 2,258,133 33 2,258,133 8,000 00 8,000 00 280,000 00 140,000 00 63,000 650,000 00 462,500 00 462,500 3,500,000 00 3,500,000 00 3,500,000	$egin{array}{cccccccccccccccccccccccccccccccccccc$	670,800 00 54,400 00 134,400 00	10,400 00 73,000 00	New Brunswick.		241,500 00 }	35,000 00	25,0	00 00	25,000 00 10,000 00		579,140 00 4,261,433 32 132,400 00 384,400 00 512,500 00	3 4,206,433 33 0 88,400 00 0 200,900 00 512,500 00	832 00	2,022,000 00 11 91,306 32 11 273,000 00 11 512,500 00 1	10 11 12
*114 Toronto, Grey and Bruce \$\frac{1115}{10} Toronto and Nipissing		+ 27,6	00 00 27,600 0 00 00 50,000 0	00	205,000 00	.	35,200 (x		do		158,212 00 312,000 00 241,276 00	375,282 00 158,212 00 312,000 00 241,276 00	488, 186, 47,	00 00	988,000 00 476,702 59 186,000 00 47,000 00		30 6,015,665 30 674,312 00 498,000 00 237,200 00	5,986,011 36 662,514 59 0 498,000 00 234,800 00		5,547,338 12 11 	In Midland system. In Midland system. Reclusive of rollings tock.
118 Wellington, Grey and Bruce 119 Whitby, Port Perry and Lindsay 120 Western Counties *121 West Ontario Pacific 122 Windsor and Annapolis 87.5 Windsor Branch 32.0	46.50 87.00 26.60	1,000,000 00 400,8 500,000 00 210,0 489,100 00 489,1	00 00 400,800 00 00 00 489,100	00 00 00 1,073,100 00 1,068,136 00 1,068,136 00	1,457,844 00 974,794 00 974,794 0 1,338,333 00 1,305,771 00 1,305,771	5	500,000 0 256,000 0 1,089,674 0	256,000 00	do Nova Scotia		94,957 59 679,100 00	94,957 59 729,100 00	222,	94 93	682,000 00 222,094 93 250,000 00	1	1,694,409 35 317,052 55 2,854,694 00 466,000 00 3,952,681 00	2 317,052 52 0 2,854,694 00 277,000 00	j 114,789 27	1,694,409 33 1	18 1 Midland system. 20
123 Winnipeg and Hudson Bay 124 Wood Mountain and Qu'Appelle	40 00	15,000,000 00 2,000,000 00 201,0 3 50		00	9	6	3,030,633 05 132,052,672 8	8 144,214,383 56	Manitoba NW. Territories.	5,657,396 00 2	25,069,261 24 300,00	256,000 00		00 00	00 13,981,247 9	10,278,200 67 10,278,200	1,506,000 0 226,000 0	0 541,793 00 0 20,100 00		1 ' '	Dominion land grant.
* Forming part of the Canadian Pacific Railway system.					The second secon					-			· ·		1		1	1			<u>a kanangan da kan</u>

SUMMARY STATEMENTS

No. 2.—Summary Statement of Characteristics of

		Length o	f Line.	1		Weight per Yard.			
Name of Railway.	Completed. (Rails laid.)	Under Construction.	Iron Rails.	Steel Rails.	Length of Siding.	Iron Rails.	Steel Rails.		
1 Alberta Railway and Coal Co				174 · 12		Lbs.			
Harvey Branch 3.00 J 3*Baie des Chaleurs	20 · 00 60 · 00	1		20 · 00 60 · 00			56 56		
Bay of Quinté Railway and Navigation Co Brantford, Waterloo and Lake Erie Brockville, Westport & Sault Ste. Marie Buctouche and Moncton	3°50 17°00			3 · 50 17 · 00 45 · 00 32 · 00	1.80		. 56 56		
8 Calgary and Edmonton	253 97			253·97 159·00	7:00		56		
Central Counties 21) 10 Canada Eastern 11 +Canada Southern	127 00		32 12	127 · 00 346 · 79	6.00		56 & 60		
12 Canadian Government Railways— ‡Intercolonial Prince Edward Island 13 §Canadian Pacific				1141·00 85·20	143 · 25 15 · 70	40	56 57 <u>1</u> 67 50 & 52		
Onization 217 80	5533 · 88		70:00	5463 88	- 639 93	45 & 56	54 to 72		
New Brunswick and Canada. 117 20 Fredericton	13.00) 	13.00		3·25 ·25	65	50		
16 Central Ontario 17 Central of New Brunswick 18 Cornwallis Valley 19 Cumberland Railway and Coal Co 20 Drummond County 21 Elgin, Petitcodiac and Havelock	74.66 14.06 46.06 62.83 28.00) 		28 00	1·00 10·00 3·20 2·00		52 & 56 56 56 & 57 56 & 60 44 52 56		
22 Erie and Huron 23 Esquimalt and Nanaimo 24 Fredericton and St. Mary's Railway an Bridge Co 25 Grand Trunk. Buffalo and Lake Huron 162 00 Grand Trunk, Georgian Bay	. 78·00	5		=0.00	2:00		54 & 56 50 & 54 60		
and Lake Erre									

^{*} Not in operation.

Roads, &c., for the year ending 30th June, 1892.

r Mile.		Elevators.	No. Le	vel	Bridges.	ad Bridges	of other	with other	with branch	st Curve.	Mile of nt.		
Number of Ties per Mile.	Nature of Rail Fastening.	Number of Grain Elevators	Guarded.	Not guarded.	No. of Overhead Bridges.	Height of Overhead above rail level.	Level Crossings of Railways.	No. of Junctions with other Railways.	No. of Junctions with branch lines.	Radius of Sharpest Curve.	No. of Feet per Mile of heaviest gradient.	Gauge of Railway.	Number.
						Feet.				Ft.		Ft.	
1	Plain fishplates			10 11			1	2		573 955	52·8	3·0 4·81	1
2640 2600	do			16	3	22		1		717		4.8	
3000 2700 2640 2640 2600	do do Fisher bridge jointPlain fishplatesAngle and plain plates			11 18 35 18 30	1 1 	20	1	1 2 2 1 2		400 955 717 955 1146	90 39·6 58 73 53	4·81 4·81 4·81 4·81	4 5 6 7 8
	Plain fishplates	$\cdot \cdot \cdot$	6	105 30	3	22	6	4	1	2865 955		4.8	
2640 2800	Angle and plain platesdo do do		3	376	16	19	-			913	75	4·8 4·8	11
2640 2640	do dodo do do do do do do do do do do do do d	. 1	9	429 956	29 2	18½ to 35 17½		24	20	694 396	65 90	4·84 3·6	12
2640 to 3168	Angle and plain plates	. 8	24	2681	79	20 to 22	2 46	67	48	500	237	4.8	13
2600 1760 2640 2640	Plain fishplates Chairs Plain fishplates do		j	34 8 94 40 21	1	17	7	1 4		1000 1910 955 955	100 105 74	4·8 5·6 4·8 4·8	15 16 17
2600 2600 2640 2200 2240	do do Angle and plain plates Plain fishplatesdo			13 37 22 108					1 1	955 826 717 661	160 60 90	4 · 8 4 · 8 4 · 8 4 · 8 2 · 4 · 8	19 20 21 21
2992	Angle and fishplates		· •••	15	İ	2	3			574	80	4.8	2
2564	Angle plates			1					2	1433	5 50	4.8	1 24
	§ Double track 11.85 m	iler				376½ n	vilde :)	-1-1- 1				

3762 miles of double track.

No. 2.-Summary Statement of Characteristics of

_			-OUMMA	KI D	TATEME	NT OF C	цагаете	ristics of	
			Length o	f Line.	• <u>-</u>		Weight per Yard.		
Number.	Name of Railway.	Completed. (Rails laid.)	Under Construction.	Iron Bails.	Steel Rails.	Length of Siding.	Iron Rails	Steel Rails.	
							Lbs.	Lbs,	
	London and Port Stanley 23 84 Wellington, Grey and Bruce . 168 13 London, Huron and Bruce 69 01 Brantford, Norfolk and Port Burwell 34 78 Waterloo Junction 10 25 Midland 178 97 Toronto and Nipissing 11 50 Grand Junction 85 40 Whitby, Port Stanley and Lindsay 46 50 Victoria 53 25 Northern 205 48 Northern and Pacific Junc 111 37 Hamilton & North-Western 173 90 South Norfolk 17 00 Cobourg, Blairton & Marmora 18 00 Made June to Bridgewater 75	3157 63		141 · 00	3016-63	645 · 50	56	56 to 79	
27 28 29 30	Madoc Junc. to Bridgewater. 8 .75 Jacques Cartier Union 6 .50 Great Eastern 13 .00 Montreal and Sorel 44 .67 Great Northern Great North-West Central Hereford 18 Hereford 19	57 · 67 25 · 00 50 · 93 53 · 00 12 · 00 12 · 00	8:00		13:00 44:67 25:00 50:93 53:00 12:00 12:00	3·33 2·55 5·51		56 56 56 56 56 56 56	
33	Kent Northern Kingston and Pembroke Kingston, Napanee and Western	112.75		3·50 9·75	30·50 103·00 56·45		67 50 to 84	56 56	
35	L'Assomption	3.00			3·00 42·00	.25		56 56 56	
37 38	Lake Temiscamingue Colonization Lower Laurentian				15·50 39·50			16 & 30 56	
	Manitoba and North-Western. 234 50) Saskatchewan and Western. 15 47 Massawippi Valley	249 97 34·00			249 97 34 00			56 50 & 60	
41 42	Montreal and Lake Maskinonge	13 · 00 16 · 00			13 00 16 00	.50		56 56	
44	Montreal and Vermont Junc Montreal, Portland and Boston	40.60			23 60 40 60	1 40		60 & 72 56	
46	*Montreal and Western New Brunswick and P. E. Island *New Classrow Iron, Cool and Ry, Co.	30 · 50 36 · 00 12 · 50			30 50 36 00	1.50		56 56	
48	New Glasgow Iron, Coal and Ry. Co. Northern Pacific and Manitoba Nosbonsing and Nipissing	264 · 50 5 · 50			12 50 264 50 5 50	16 00 1 25		56 56 56	
50	Nova Scotia Central *Orford Mountain	73·50 10·00			73 50 10 00	2.50		56 56	
52 53	Ottawa and Gatineau Valley *Parry Sound Colonization	30·00 20·00	10.00		30 · 00 20 · 00	.75		56 56	
54 55	Pontiac and Renfrew Pontiac Pacific Junction *Port Arthur, Duluth and Western	4·25 61·00 70·00	10.00		4 · 25 61 · 00	·75 3·00		56 56	
	Tort Arthur, Duluth and Western	70 00	19 90		70.00	4:00		56	

Roads, &c., for the year ending 30th June, 1892—Continued.

		•	ain Elevators.	No. Le cross	of vel sings	ead Bridges.	Height of Overhead Bridges above rail level.	ngs of other	No. of Junctions with other Railways.	No. of Junctions with branch lines.	Radius of Sharpest Curve.	per Mile of dient.	lway.	77
	Nature of Rail Fastening.		Number of Grain Elevators	Guarded.	Not guarded.	No. of Overhead Bridges		Level Crossings Railways.	No. of Junct Railways.	No. of Juncti lines.	Radius of Sh	No. of Feet per heaviest gradient.	Gauge of Railway.	Number.
0	Angle and plai	n plates	. 12	77	2678	237	Feet. 15 to 28	59	63	88	Ft.	105	Ft.	25
									9		2002			
000000000000000000000000000000000000000	do do do do do do	in fishplates			12 18 18 28 3 4 8			2	1	1	2865 2292 1237 955 955 1000 958 1000	53 53 60 66 60 79	4 8 4 8 4 8 4 8 4 8 4 8 4 8 4 8	222333333333333333333333333333333333333
,))))	do	m hanplaces			36 1 1 43 . 25	3 1 		4	1	l	882 955 1433 917	88 20 60	4·8 4·8 3·0 4·8	1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
,,,,,,,	do do Angle plates	in plateses			1 19 . 9 . 19 . 50			1		l l 2 l	955 1146	76 52 48 52	4·8 4·8 4·8 4·8 4·8	44444
,,,,,,,,	do do do Angle plates Plain fishplat	98			. 26	5 1 3 1	21	5		l	1000 955 573 956 819 955	66 86 68 68 61 132 61 135 61 74	4 8 4 8 4 8 4 8 4 8 4 8	444455
	Angle and pla	in plates	::			21		1		l 1	573 958	5 100	4·8	3 52

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.
58 G G G G G G G G G G G G G G G G G G G	bu'Appelle, Long Lake & Saskatchewan. Juebec and Lake St. John Juebec Central. Juebec, Montmorency and Charlevoix. Alisbury and Harvey. Hore Line Huswap and Okanagan Lanstead, Shefford and Chambly L. Catharines and Niagara Central. St. Clair Tunnel, Yard & Approach L. John Bridge & Ry. Extension Co. St. John Valley and Rivière du Loup L. Lawrence and Adirondack Jouth-Eastern Lake Champlain and St. Lawrence Junction Stewiacke Valley and Lansdowne Chousand Islands Tobique Valley. Toronto Belt Line Vestern Counties Vindsor and Annapolis 87 50 Windsor Branch 32 00 Winnipeg and Hudson Bay Wood Mountain and Qu'Appelle	196 00 153 50 21 00 45 00 82 50 50 79 43 00 12 35 2 22 20 10 13 00 4 08 14 00 12 85 87 00 119 50 40 00	6·00 10·00	1 · 00 39 · 00 29 · 00 68 · 60 	21 00 6 00 82 50 50 79 14 00 12 35 2 22 1 75 	12: 00 10: 75 1: 50 5: 25 2: 50 3: 38 5: 50 65 10: 00 32: 50 32: 50 1: 00 25 4: 50 5: 00 2: 00	60 35 to 56 56 56 & 67	56 60 70 56 60 70 56 56 56 65 56 65 56 & 60

^{*}Length of tunnel, 6000 ft., inside diameter, 19 ft. 10 in. + Only under construction. ‡ Not in operation.

Roads, &c., for the year ending 30th June, 1892—Concluded.

Number of Ties per Mile.	• Nature of	Rail Fastening.	Grain Ele	No. Leveross	rel ings	Overhead Bridges.	Height of Overhead Bridges above rail level.	Level Crossings of other Railways.	No. of Junctions with other Railways.	o. of Junctions with branch lines.	Radius of Sharpest Curve.	o. of Feet per Mile of heaviest gradient.	Gauge of Railway.	£i.
Number			Number of	Guarded.	Not Guarded.	No. of	Height	Level Raily	No. of Raily	No. of lines.	Radius	No. of heavi	Gauge	Number.
							Feet.				Ft.		Ft.	
2600 2640 2640 2640 2600 2600 2400 2600 2640 2640	Plain fishplates do do do do do do do Angle plates	and sleeves and chairs. s.		1	26 5 31 15 12 42 17 	2	22 23 22 19 & 19	3 3 2 2	2	2 1	1146 717 882 1433 573 636 717 1433	106 76 53 80 85 57 60 85 106 80	4 · 8 · 4 · 8 · 5 · 4 · 8 · 6 · 4 · 8 · 6 · 4 · 8 · 6 · 4 · 8 · 6 · 4 · 8 · 6 · 4 · 8 · 6 · 4 · 8 · 6 · 6 · 6 · 6 · 6 · 6 · 6 · 6 · 6	58 59 60 61 62 63 64 65 66 67 68
2640 3000 2600 2640 2640 2640 2640	Plain fishplates do do Angle plates do	S		1	38 8 12 1 16 1	3			2 1 1 1 5 4		819 660 717 717 600 693	84 78 179 84	4 8 4 8 4 8 4 8 4 8 4 8	73 74 75 75 76
	-		. 5	0 13	1 923	2 401	l	. 193	310	193				-

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 Koom Cars.
Number.		Com- pleted.	Under Con- struc- tion.	Owned.	Hired.	Owned.	Hired.	Owned.	Hired.
	Alberta Railway and Coal Co. Albert Southern	174·12 20·00		18 2			i		
5	Baie des Chaleurs. Bay of Quinté Railway and Navigation Co Brantford, Waterloo and Lake Erie. Brockville, Westport and Sault Ste. Marie Buctouche and Moncton	60·00 3·50 17·00 45·00 32·00		$\frac{3}{2}$	5				
8	Calgary and Edmonton	253 97	42.00	21	¦				
11	Central Counties	127 · 00 378 · 91		128					
	Intercolonial	1,141 · 00 210 · 60				15	· · • ·		
	Manitoba and South-western Colonization. 217.80 North Shore. 205.50 St. Lawrence and Ottawa. 58.40 Toronto, Grey and Bruce. 191.30 Outario and Quebec. 463.80 Credit Valley. 175.10 West Ontario Pacific. 26.60 Guelph Junction. 15.00 St. John and Maine. 91.80 New Brunswick 175.68 New Brunswick and Canada 117.20 Fredericton 22.10	5,533 88		572	.*17	111	*7	In f	
15 16 17 18 19 20 21 22 23 24	Columbia and Kootenay. 27 70 Caraquet			3 1 1 1 8 4 2	2				
	London and Port Stanley	3,157 · 63		722		*5			3

Rolling	Stock	for the	Year e	nded	3 0th	June,	1892.
---------	-------	---------	--------	------	--------------	-------	-------

Number of First	Class Cars.	Number of Second	Grant Cars.	Number of Bag-	gage, Mail and Express Cars.	Number of Cattle and Box Freight	Cars.	Number of Plat-	form Cars.	Number of Hop-	ing Cars.		Remarks.
Owned.	Hired.	Owned.	Hired.	Owned.	Hired.	Owned.	Hired.	Owned.	Hired.	Owned.	Hired.	Number.	
4 2 1 1 1 5 40 92 17	9	3 1 1 1 1 1 2 17 101 15		2 1 1 5 2 30 63 4		26 2 5 20 1 510 12 2027 2174 178	20	4 7 45 15 6 10 20 337 78 294 2130 *125	777			2 3 4 5 6 7 8 9 10 11	Not in operation. Operated by Can. Pac. Ry. *Coal cars.
178	*5	159		166	11	1080 8	1100	3331		471		13	*Special trust. also 772 vans, tool cars, snow ploughs, &c., owned by Co. 42 do do Special trust.
1 2 2 1 1 2 1 2 8 11	2	1 3 3 1 2 2 1		2 1 3 2 1 1 3 3		4 3 34 6 8 9 12 29		16 3 94 222 12 27 20 9 12 72		186	2	14 15 16 17 18 19 20 21 22 23 24	
390		225		214		16014		6568	• • • •	• • • •		25	*Colonist sleeping cars.

No. 3.—Summary Statement of the different descriptions of

NO. 5.—SUMMARY STA	I I I I I I I I I I I I I I I I I I I	n the d	11101			Пр		
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.
Victoria	25 · 00 50 · 93 53 · 00 12 · 00 12 · 00 34 · 00 112 · 75 56 · 45 3 · 00 42 · 00 15 · 50 39 · 50 249 · 97 34 · 00 16 · 00 25 · 60 25 · 60 25 · 60 26 · 60 27 · 60 28	•	1 2 2 10 5 1 4 2 2 5 5	1 2 1 4				
43 Montreal and Vermont Junction 44 Montreal, Portland and Boston 45 Montreal and Western 46 New Brunswick and Prince Edward Island. 47 New Glasgow Iron, Coal and Railway Co. 48 Northern Pacific and Manitoba. 49 Nosbonsing and Nipissing. 50 Nova Scotia Central. 51 Orford Mountain. 52 Ottawa and Gatineau Valley. 53 Parry Sound Colonization. 54 Pontiac Pacific Junction. 55 Pontiac Pacific Junction. 56 Port Arthur and Western.	40·60 30·50 36·00 12·50 264·50 5·50 73·50 10·00 20·00 4·25	16 00 10 00	3 2 9 1 5 1 2 1 4	1 3				
7 Ort Arthur and Western 77 Qu'Appelle, Long Lake and Saskatchewan 58 Quebec and Lake St. John 59 Quebec Central 60 Quebec, Montmorency and Charlevoix. 61 Salisbury and Harvey 62 Shore Line. 63 Shuswap and Okanagan 64 Stanstead, Shefford and Chambly 65 St. Catharines and Niagara Central 66 St. Clair Tunnel, yard and approaches.	254:00 196:00 153:50 21:00 45:00 82:50 50:79 43:00	20.00	14 12 3 2 5		2	In		

+					, 1	e ±		ين		호호	1	-)	
Number of First	Class Cars.	Number of Second	grant Cars.	Number of Bag-	Express Cars.	Number of Cattle and Box Freight	Cars.	Number of Plat- form Cars.		Number of Hop- per and Dump-	ing Cars.		R emarks.
Owned.	Hired.	Owned.	Hired.	Owned.	Hired.	Owned.	Hired.	Owned.	Hired.	Owned.	Hired.	Number.	
11 16 99 17 77			3		22	12 1 1 1 222 166 1 107 117		12 6 4 164 77 74 17 30		21		31 32 33 33 33 34 4	Operated by Maine Central. Not in operation. 1
•••			11 4 22 5 11 99 11188		3 2 2 9	14	150 150 150 150 150 150 150 150 150 150	33 10 179 34 49 22 55 55	0			444444444444444444444444444444444444444	1 Rolling stock furnished by C. P. Ry. 2 3 do Central Vermont. 4 4 5 Not in operation. 6 6 7 6 8 9 6 6 6 7 6 7 6 7 7 7 8 8 9 6 7 7 8 8 9 7 8 8 9 8 9 9 9 9 9 9 9 9 9 9
•••	5 4	i	2		3	1	7	::::::	2		25		63 Line still in contractors' hands. 64 Operated by Central Vermont. 65

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	or Drawing Econi
Number.	Completed.	Under Con- struc- tion.	Owned.	Hired.	Owned.	Hired.	Owned.	Hired.
57 St. John Bridge and Railway Extension Co. 58 St. John Valley and Rivière du Loup. 59 St. Lawrence and Adirondack. 70 South Eastern. 147.70 \\ Lake Champlain and St. Lawrence Junction 61.40 f. 71 Stewiacke Valley and Lansdowne. 72 Temiscouata. 73 Thousand Islands. 74 Tobique Valley.	20 · 22 209 · 10 113 · 00 4 · 08 14 · 00	10.00	30 5 1		2	In f	orme	er
Toronto Belt Line	119·50 40·00		5 13				2	
Total	14,869 74	210.20	1922	39	135	7	13	

M 1.. 2 . 2

Number of First	Class Cars.	Number of Second	Class and Emi- grant Cars.	Number of Bag-	gage, Mall and Express Cars.	Number of Cattle	Cars.	Number of Plat-	- torm Cars.	er c	ig great		Remarks.
Owned.	Hired.	Owned.	Hired.	Owned.	Hired.	Owned.	Hired.	Owned.	Hired.	Owned.	Hired.	Number.	

No. 4.—Summary Statement of the Operations of the year

	,					
	•			TRAIN M	ILEAGE.	
	Name of Railway.	Mileage.				
Number.			Passenger Trains.	Freight Trains.	Mixed Trains.	Total Train Mileage.
1	Alberta Railway and Coal Co	174 · 12		116,148	79,570	195,718
	Albert Southern	20.00		110,140	266	266
3	Bay of Quinté Navigation Co 3 50 \ Kingston, Napanee & Western. 56 45	59 · 95	19,032	47,157		66,189
4 5	Brantford, Waterloo and Lake Erie Brockville, Westport and Sault Ste. Marie.	17·00 45·00	1,360	124	25,000 28,002	25,000 29,486
6 7	Buctouche and Moncton	32·00 253·97			21,952 37,504	21,952 37,004
8	Canada Atlantic	159:00	204,974	243,120	13,090	461,184
	Canada Eastern	$\frac{127.00}{378.91}$	40,860 1,214,222	10,287 2,148,410	70,357 158,350	$\begin{array}{c} 121,504 \\ 3,520,982 \end{array}$
11	Canadian Government Railways— Intercolonial	1,141 .00	1,355,893	3,247,258	in foregoing	4,703,151
12	Prince Edward Island	210.60	74,763	167,966	do	242,729
	Atlantic and North-west 182 50 Manitoba and South-western Colonization					
	North Shore 205 50 St. Lawrence and Ottawa 58 40		•			
	Toronto, Grey and Bruce 191 30 Ontario and Quebec	* # 99 00	F 950 004	7.040.001	001.000	14 004 054
	Credit Valley	5,533 88	5,373,824	7,940,081	981,069	14,294,974
	Guelph Junction		Į.			
	New Brunswick		!			
19	Fredericton	68:00			99 800	00 ton
14	Caraquet Carillon and Grenville Central Ontario	13·00 104·00	8,500 64,896	500 20,208	28,500	28,500 9,000 150,000
16	Central of New Brunswick	74·66 14·00	,	20,200	50,600 10,023	50,600 10,023
18	Cumberland Railway and Coal Co Drummond County	46.00 62.81	in following 38,400	63,214	in foregoing	63,214 71,496
20 21	Elgin, Petitcodiac and Havelock	28·00 75·75	47,849	46,021	16,794 42,390	16,794 135,900
22	Esquimalt and Nanaimo Fredericton & St. Mary's Ry. & Bridge Co.	78 00 1 33	in following		in foregoing	
24	Grand Trunk					
	Grand Trunk, Georgian Bay & Lake Erie	distance & manufacture				
	June					
	Beauharnois Junc19·50					
	Wellington, Grey and Bruce 168 13 London, Huron and Bruce 69 01					
	Brantford, Norfolk and Port Burwell	3,157 63	5,424,598	8,988,806	2,328,486	16,741,890
	Waterloo June		, 22,		_,=25,=36	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Midland					
	Whitby, Pt. Perry & Lindsay. 46 50	30	I	i	l .	1

and M:1.	ara for th	A 17091	ended	30th	June,	1892 .	

Engine Mileage.	Total Number of Passengers Carried.	Tons of Freight of 2,000 lbs. Hendled.	Average Rate of Speed of Passen- ger Trains—Miles per Hour.	Average Rate of Speed of Freight Trains—Miles per Hour.	Number.	Remarks.
247,990	3,043	135,356		14	1	
266	30	391		19	2	-
66,189	57,513	129,863	24	17	3	
25,000 30,132 21,952 37,601	20,473 42,290 9,660 3,996	14,599 8,638 8,363 7,155	20	15	4 5 6 7	
543,921	134,855	553,713	35	15 15	8	
124,634 4,574,407	33,665 623,342	56,978 3,174,065	25 40	20	10 11	yi
5,641,880 307,421	1,297,732 139,389	1,264,575 51,064	25 20	15 14		
18,423,631	3,150,684	4,068,575	27	17	12	
30,000 9,500 150,000 50,600 10,332 143,530 71,496 16,794 163,005 122,496	6,898 8,590 53,602 12,836 16,739 23,421 20,866 6,621 104,013 38,548 5,390	02,004	20 17 20 25 16 25	18 20 15 17 20 20 16 18 12	13 14 15 16 . 17 18 19 20 21 22 23	4. 5. 6. 7. 8. 9. 0. 1. 1.
22,488,233	5,899,096	8,249,038	30	18	24	34
					-	+ -
		l	-	31	l	1

No. 4.—SUMMARY STATEMENT of the Operations

Victoria	114 2,66 41,300 47,44 1,500 14,50 39,656 65,73	5,008 72 5,762 60 11,500 18,366 120,000 3,960 00 23,788 14,980 59 5,328 15,146	Total Train Mileage. 5,008 8,548 88,760 13,900 3,966 86,788 14,980 160,743 200,445
Northern	47,40 47,44 1,50 45,000	72 5,762 in foregoing 11,500 18,366 120,000 3,960 00 23,788 14,980 59 5,328 15,146	8,548 88,760 13,000 18,366 215,000 3,960 86,788 14,980
Northern	47,40 47,44 1,50 45,000	72 5,762 in foregoing 11,500 18,366 120,000 3,960 00 23,788 14,980 59 5,328 15,146	8,548 88,760 13,000 18,366 215,000 3,960 86,788 14,980
Madoc Junc. to Bridgewater 8.75 Jacques Cartier Union 6.50 5 St. Clair Tunnel 2.22 22 6 6 Great Eastern 13.00 Montreal and Sorel 44.67 7 7 Great Northern 25.00 8 Great Northern 25.00 39 Hereford 50 93 9 Hereford 53.00 12.00 12.00 12.75 34.00 12.75 34.00 12.75 34.00 12.75 34.00 12.75 34.00 12.75 35.00 12.75 36.00 12.75 36.00 12.75 36.00 12.75 36.00 12.75 36.00 12.75 36.00 36	47,40 47,44 1,50 45,000	72 5,762 in foregoing 11,500 18,366 120,000 3,960 00 23,788 14,980 59 5,328 15,146	8,548 88,760 13,000 18,366 215,000 3,960 86,788 14,980 160,748
5 St. Clair Tunnel 2: 22 6 Great Eastern 13: 00) Montreal and Sorel 44: 67) 7 Great Northern 25: 00 8 Great North-west Central 50: 93 9 Hereford 53: 00 0 Joggins 12: 00 1 Kent Northern 34: 00 2 Kingston and Pembroke 112: 75 3 L'Assomption 3: 00 4 Lake Erie and Detroit River 42: 00 5 Lake Tremiscamingue Colonization 15: 50 6 Lower Laurentian 39: 50 7 Manitoba and North-western 234: 50 8 Massawippi Valley 34: 00 9 Montreal and Lake Maskinonge 13: 00 1 Montreal and Ottawa 16: 00 1 Montreal and Vermont Junc 23: 60 3 New Brunswick and P. E. Island 36: 00 4 Northern Pacific and Manitoba 264: 50 5 Nosbonsing and Nipissing 5: 50 6 Nova Scotia Central 73: 50 7 Ottawa and Gatineau Valley 4: 25 9 Pontiac Pacific Junc. 61: 00 9 Pontiac Pacific Junc. 60: 00 9 Pontiac Pacific Junc.	47,40 47,44 1,50 45,000	72 5,762 in foregoing 11,500 18,366 120,000 3,960 00 23,788 14,980 59 5,328 15,146	8,548 88,760 13,000 18,366 215,000 3,960 86,788 14,980 160,748
6 Great Eastern 13 00 57 67 Montreal and Sorel 44 67 7 Great Northern 25 00 39 9 Hereford 55 00 34 00 12	47,40 47,44 1,50 45,000	72 5,762 in foregoing 11,500 18,366 120,000 3,960 00 23,788 14,980 59 5,328 15,146	8,544 88,766 13,000 18,366 215,000 3,966 86,783 14,986 160,743
Montreal and Sorel	47,40 47,44 1,50 45,000	72 5,762 in foregoing 11,500 18,366 120,000 3,960 00 23,788 14,980 59 5,328 15,146	8,544 88,766 13,000 18,366 215,000 3,966 86,783 14,986 160,743
Great North-west Central 50 93 Hereford 53 00 Hereford 53 00 Joggins 12 00 Kent Northern 34 00 Kingston and Pembroke 112 75 Kingston and Pembroke 112 75 Lake Tremiscamingue Colonization 15 50 Lake Temiscamingue Colonization 15 50 Lake Temiscamingue Colonization 15 50 Lake Temiscamingue Colonization 249 97 Saskatchewan and Western 234 50 Saskatchewan and Western 15 47 Manitoba and North-western 234 50 Saskatchewan and Western 15 47 Massawippi Valley 34 00 Montreal and Lake Maskinongé 13 00 Montreal and Ottawa 16 00 Montreal and Ottawa 16 00 Montreal and Vermont Junc 23 60 Now Brunswick and P. E. Island 36 00 Northern Pacific and Manitoba 264 50 Nova Scotia Central 73 50 Ottawa and Gatineau Valley 20 00 Pontiac and Renfrew 4 25 Pontiac and Renfrew 4 25 Ottawa and Gatineau Valley 20 00 Quebec and Lake St. John 196 00 Quebec Central 153 50 Quebec Montmorency and Charlevoix 21 00 Salisbury and Harvey 45 00 Shuswap and Okanagan 50 79 Stanstead, Shefford and Chambly 43 00 St. Lawrence and Adirondack 20 22	47,40 47,44 1,50 45,000	72 5,762 in foregoing 11,500 18,366 120,000 3,960 00 23,788 14,980 59 5,328 15,146	8,54 88,76 13,00 18,36 215,00 3,96 86,78 14,98 160,74
9 Hereford	47,40 47,44 1,50 45,000	60 in foregoing 11,500 18,366 120,000 3,960 00 23,788 14,980 59 5,328 15,146	88,76 13,00 18,36 215,00 3,96 86,78 14,98 160,74
3 L'Assomption 3 '00	1,50 95,000	00 11,500 18,366 120,000 3,960 00 23,788 14,980 59 5,328 13 15,146	13,00 18,36 215,00 3,96 86,78 14,98 160,74
3 L'Assomption 3 '00	14,500	120,000 3,960 00 23,788 14,980 59 5,328 13 15,146	215,00 3,96 86,78 14,98 160,74
3 L'Assomption 3 '00	14,500	3,960 23,788 14,980 59 5,328 13 15,146	3,96 86,78 14,98 160,74
4 Lake Erie and Detroit River 42 '00	48,500 14,50	23,788 14,980 59 5,328 13 15,146	86,78 14,98 160,74
6 Lower Laurentian. 39 50 7 Manitoba and North-western 234 50 249 97 Saskatchewan and Western 15 47 34 00 8 Massawippi Valley 34 00 9 Montreal and Lake Maskinonge 15 00 1 Montreal and Ottawa 16 00 1 Montreal and Vermont Junc 23 60 2 Montreal and Vermont Junc 23 60 3 New Brunswick and P. E. Island 36 00 4 Northern Pacific and Manitoba 264 50 5 Nosbonsing and Nipissing 5 5 50 6 Nova Scotia Central 73 50 7 Ottawa and Gatineau Valley 40 00 8 Pontiac and Renfrew 4 25 9 Pontiac Pacific Junc 50 0 Qu'Appelle, Long Lake & Saskatchewan 196 00 1 Quebec Central 15 50 3 Quebec, Montmorency and Charlevoix 21 00 4 Salisbury and Harvey 45 00 5 Shore Line 82 50 6 Shuswap and Okanagan 50 79 7 Stanstead, Shefford and Chambly 43 00 8 St. Catharines and Niagara Central 12 35 9 St. John Bridge and Ry. Extension 175 5 Use 50 5 St. Lawrence and Adirondack 20 22		5,328 13 15,146	160,74
Manitoba and North-western 234 50 Saskatchewan and Western 15 47 34 90 90 90 90 90 90 90 9	19 656 65 75	5,328 13 15,146	160,74
Saskatchewan and Western 13 47 8 8 Massawippi Valley 34 00 9 Montreal and Lake Maskinongé 13 00 13 00 10 Montreal and Ottawa 16 00 16 00 18 Montreal and Vermont Junc 23 60 3 New Brunswick and P. E. Island 36 00 4 Northern Pacific and Manitoba 264 50 5 Nosbonsing and Nipissing 5 50 6 Nosbonsing and Nipissing 5 50 6 Nova Scotia Central 73 50 73 50 73 50 73 50 74 75 75 75 75 75 75 75		13 15,146	
9 Montreal and Lake Maskinonge			200,44
Montreal and Ottawa 16 00 Montreal, Portland and Boston 40 60 Montreal and Vermont Junc 23 60 New Brunswick and P. E. Island 36 00 Northern Pacific and Manitoba 264 50 Northern Pacific and Manitoba 264 50 Northern Pacific and Manitoba 73 50 Northern Pacific and Manitoba 264 50 Northern Pacific and Manitoba 264 50 Northern Pacific and Manitoba 264 50 Ontake Scotia Central 73 50 Ottawa and Gatineau Valley 40 00 Pontiac and Renfrew 4 25 Pontiac Pacific Junc 61 00 Qu'Appelle, Long Lake & Saskatchewan 254 00 Quebec Pacific Junc 153 50 Quebec Central 153 50 Quebec Montmorency and Charlevoix 21 00 Salisbury and Harvey 45 00 Shore Line 82 50 Shuswap and Okanagan 50 79 Stanstead, Shefford and Chambly 43 00 St. Catharines and Niagara Central 12 35 Ottawa and Pacific Junc 175 Ottawa and View 17	72,286 113,01	1	
2 Montreal and Vermont Junc 23 60 3 New Brunswick and P. E. Island 36 00 4 Northern Pacific and Manitoba 264 50 5 Nosbonsing and Nipissing 5 50 6 Nova Scotia Central 73 50 70 Ottawa and Gatineau Valley 40 00 8 Pontiac and Renfrew 4 25 9 Pontiac Pacific Junc 61 00 0 Qu'Appelle, Long Lake & Saskatchewan 254 00 1 Quebec and Lake St. John 196 00 2 Quebec Central 153 50 3 Quebec, Montmorency and Charlevoix 21 00 4 Salisbury and Harvey 45 00 5 Shore Line 82 50 6 Shuswap and Okanagan 50 79 7 Stanstead, Shefford and Chambly 43 00 8 St. Catharines and Niagara Central 12 35 9 St. John Bridge and Ry. Extension 1 75 0 St. Lawrence and Adirondack 20 22		11,564	11,56
3 New Brunswick and P. E. Island 36 · 00 4 Northern Pacific and Manitoba 264 · 50 5 Nosbonsing and Nipissing 5 · 50 6 Nova Scotia Central 73 · 50 73 · 50 70 Ctawa and Gatineau Valley 20 · 00 8 Pontiac and Renfrew 4 · 25 9 Pontiac Pacific Junc 61 · 00 00 Cu'Appelle, Long Lake & Saskatchewan 254 · 00 10 Cuebec and Lake St. John 196 · 00 12 Cuebec Central 153 · 50 3 Cuebec, Montmorency and Charlevoix 21 · 00 4 Salisbury and Harvey 45 · 00 5 Shore Line 82 · 50 5 Shore Line 82 · 50 6 Shuswap and Okanagan 50 · 79 7 Stanstead, Shefford and Chambly 43 · 00 8 St. Catharines and Niagara Central 12 · 35 9 St. John Bridge and Ry. Extension 1 · 75 0 St. Lawrence and Adirondack 20 · 22	25,338 18,09	96 7,552	50,98
4 Northern Pacific and Manitoba 264 '50 5 Nosbonsing and Nipissing 5 50 6 Nova Scotia Central 73 '50 73 '50 70 'ttawa and Gatineau Valley 40 '00 8 Pontiac Pacific Junc 61 '00 61 '00 61 '00 61 '00 254 '00 10 Unit of the pacific Albert Saskatchewan 10 Unit of the pacific Albert Saskatchewan 11 Unit of the pacific Albert Saskatchewan 12 Unit of the pacific Albert Saskatchewan 14 Unit of the pacific Albert Saskatchewan 153 '50 3 Unebec Central 153 '50 3 Unebec Montmorency and Charlevoix 21 '00 4 Salisbury and Harvey 45 '00 5 Shore Line 82 '50 5 Shore Line 82 '50 5 Shore Line 82 '50 79 79 Stanstead, Shefford and Chambly 43 '00 8 St. Catharines and Niagara Central 12 '35 9 St. John Bridge and Ry. Extension 175 175 Unit of the pacific Albert Saskatchewan 175 175 Unit of the pacific Albert Saskatchewan 18 '10 Unit of the pacific Albert Saskatchewan 19 '10 Unit of the pacific Albert Saskatchewan 19 '10 Unit of the pacific Albert Saskatchewan 19 '10 Unit of the pacific Albert Saskatchewan 19 '10 Unit of the pacific Albert Saskatchewan 19 '10 Unit of the pacific Albert Saskatchewan 19 '10 Unit of the pacific Albert Saskatchewan 19 '10 Unit of the pacific Albert Saskatchewan 19 Unit of the pacific Albert Saskatchewan 19 Unit of the pacific Albert Saskatchewan 19 Unit of the pacific Albert Saskatchewan 19 Unit of the pacific Albert Saskatchewan 254 '00 Unit of the pacific Albert Saskatchewan 254 '00 Unit of the pacific Albert Saskatchewan 254 '00 Unit of the pacific Albert Saskatchewan 254 '00 Unit of the pacific Albert Saskatchewan 254 '00 Unit of the pacific Albert Saskatchewan 19 Unit of the pacific Albert Saskatchewan 19 Unit of the pacific Albert Saskatchewan 19 Unit of the pacific Albert Saskatchewan 19 Unit of the pacific Albert Saskatchewan 19 Unit of the pacific Albert Saskatchewan 19 Unit of the pacific Albert Saskatchewan 19 Unit of the pacific Albert Saskatchewan 19 Unit of the pacific Albert Saskatchewan 19 Unit of the pacific Albert Saskatchewan 19 Unit of the pacific Albert	(5,016 103,31 4,140 7,95		191,94 34,79
6 Nova Scotia Central	01,744 110,05		246,63
7 Ottawa and Gatineau Valley 20 00 8 Pontiac and Renfrew 4 25 9 Pontiac Pacific Junc 61 00 0 Qu'Appelle, Long Lake & Saskatchewan 254 00 1 Quebec and Lake St. John 196 00 2 Quebec Central 153 50 3 Quebec, Montmorency and Charlevoix 21 00 4 Salisbury and Harvey 45 00 5 Shore Line 82 50 6 Shuswap and Okanagan 50 79 7 Stanstead, Shefford and Chambly 43 00 8 St. Catharines and Niagara Central 12 35 9 St. John Bridge and Ry. Extension 1 75 0 St. Lawrence and Adirondack 20 22	12,80	00	12,80
8 Pontiac and Renfrew 4 · 25 9 Pontiac Pacific Junc. 61 · 00 0 Qu'Appelle, Long Lake & Saskatchewan 254 · 00 1 Quebec and Lake St. John 196 · 00 2 Quebec Central 153 · 50 3 Quebec, Montmorency and Charlevoix 21 · 00 4 Salisbury and Harvey 45 · 00 5 Shore Line 82 · 50 6 Shuswap and Okanagan 50 · 79 7 Stanstead, Shefford and Chambly 43 · 00 8 St. Catharines and Niagara Central 12 · 35 9 St. John Bridge and Ry. Extension 1 · 75 0 St. Lawrence and Adirondack 20 · 22		61,860	61,86 6,08
0 Qu'Appelle, Long Lake & Saskatchewan 254 '00 1 Quebec and Lake St. John 196 '00 2 Quebec Central 153 '50 3 Quebec, Montmorency and Charlevoix 21 '00 4 Salisbury and Harvey 45 '00 5 Shore Line 82 '50 6 Shuswap and Okanagan 50 '79 7 Stanstead, Shefford and Chambly 43 '00 8 St. Catharines and Niagara Central 12 '35 9 St. John Bridge and Ry. Extension 1 '75 0 St. Lawrence and Adirondack 20 '22		0,000	
1 Quebec and Lake St. John 196 00 2 Quebec Central 153 50 3 Quebec, Montmorency and Charlevoix 21 00 4 Salisbury and Harvey 45 00 5 Shore Line 82 50 6 Shuswap and Okanagan 50 79 7 Stanstead, Shefford and Chambly 43 00 8 St. Catharines and Niagara Central 12 35 9 St. John Bridge and Ry. Extension 1 75 0 St. Lawrence and Adirondack 20 22		42,254	42,25
2 Quebec Central 153 50 3 Quebec, Montmorency and Charlevoix 21 00 4 Salisbury and Harvey 45 00 5 Shore Line 82 50 6 Shuswap and Okanagan 50 79 7 Stanstead, Shefford and Chambly 43 00 8 St. Catharines and Niagara Central 12 35 9 St. John Bridge and Ry. Extension 1 75 0 St. Lawrence and Adirondack 20 22)4,455 79,89	63 52,605 98 in foregoing	52,96 184,35
3 Quebec, Montmorency and Charlevoix 21 '00 4 Salisbury and Harvey 45 '00 5 Shore Line 82 '50 6 Shuswap and Okanagan 50 '79 7 Stanstead, Shefford and Chambly 43 '00 8 St. Catharines and Niagara Central 12 '35 9 St. John Bridge and Ry. Extension 1 '75 0 St. Lawrence and Adirondack 20 '22	13,418 104,19		295,44
5 Shore Line 82 50 6 Shuswap and Okanagan 50 79 7 Stanstead, Shefford and Chambly 43 00 8 St. Catharines and Niagara Central 12 35 9 St. John Bridge and Ry. Extension 1 75 0 St. Lawrence and Adirondack 20 22	17,153 4,11		51,26
6 Shuswap and Okanagan		33,319 56,332	33,31 56,33
8 St. Catharines and Niagara Central 12 35 9 St. John Bridge and Ry. Extension 1 75 0 St. Lawrence and Adirondack		3,060	3,06
9 St. John Bridge and Ry. Extension	38,514 41,29		99,64
0 St. Lawrence and Adirondack 20 22	12,000	. 6,000	18,00
1 South-Eastern 147 40)	1 701	80 8,085	25,38
	l 1,72 1 5,58	28 69,250	591,15
rence Junc			
2.Temiscouata	15,377 276,55	70,238 12 5,024	71,36
Western Counties 87 00	15,377 276,55 1,130	12.1 20.1124	- 20,92 92,76
5 Windsor and Annapolis 87:50)	15,377 276,55 1,130 13,392 2,5		
Totals 14,587 89 15,	15,377 276,55 1,130	10 36,533	257,40

of the year and Mileage, &c.-Concluded.

Engine Mileage.	Total Number of Passengers Carried.	Tons of Freight of 2,000 lbs. Handled.	Average Kate of Speed of Passen- ger Trains—Miles per Hour.	Average Rate of Speed of Freight Trains—Miles per Hour.	Number.	Remarks.
5,008 8,993 88,760	3,730 2,443 13,625	5,337 7,171 78,126	23	19	25 26 27 28 29 30	Not operated during last 12 months. Trains run by Canadian Pacific Railway.
17,000 18,366 260,000 3,960 130,185	10,147 4,025 46,273 6,079 73,739	51,393 12,132 78,682 1,064 138,540 2,192	15 18 25 15 35	15 18 15 25	31 32 33 34 35	
14,980 204,366	4,421 32,227	5,529 80,193	20 27 24	20 15 12	36 37 38	
14,065 50,986 191,944 37,499 289,129	68,187 23,205 51,406 119,964 17,440 45,497	2,480 20,666 728,123 34,016 121,131 154,570	20 23 30 20 25	20 12 12 18 13 25	39 40 41 42 43 44 43	The Company have failed to respond to numerous applications for their Return.
13,600 61,860 6,086 45,016 53,542 225,507	51,347 10,075 16,894 5,356 84,736	16,067 5,421 4,917 19,028 12,556 111,497	20 25 20 20	20 25 12 20 12	46 47 48 49 50 51	3 9 9
316,001 52,808 36,721 57,897 3,060	127,858 190,875 10,757 13,042 1,287	138,950 4,996 24,056 12,646 2,400 742,305	25 20 24 23	15 15 18 12	5: 5: 5: 5: 5: 5:	3 1 5 7
99,643 18,000 25,890	131,638 25,719 117,659 9,935	41,620 127,224 6,581	30	20 15 18	56 66	o Operated by Canadian Pacific Railway. Operated by Central Vermont Ry. from 11th January to 30th June, 1892.
681,559 72,300	241,639 16,921	566,297 24,294 16,763	28 20 15	17 15	6	2
20,928 109,734 257,405	19,306 68,063	23,979	27 22	20	6	4
56,994,253		22,189,923			- -	

No. 5.—Summary Statement of Description of

=		110. 0	.—SUMM	ARY STA	TEMENT O	Descri	ption of
·	Name of Railway.	Mileage.	Flor	ır.	Grain	n.	Live
Number.			Barrels.	Tons.	Bushels.	Tons.	Number.
	Alberta Railway and Coal Co	174·12 20·00	6,760	676	14,421	252	205
3	Harvey Branch	59.95	48,520	4,755	160,800	4,020	217
5	Brantford, Waterloo and Lake Erie Brockville, Westport & Sault Ste. Marie Buctouche and Moncton	17 · 00 45 · 00 32 · 00	5,640 6,954	564 695	90,000 30,011	2,700 970	
7	Calgary and Edmonton	253 · 97 159 · 00	5,147	514	47,585	973	670
10	Central Counties. 21 00 1 Canada Eastern	127 · 00 378 · 91	207,520 45,035 1,696,050	20,752 4,503 169,605	49,225 29,520,116	87,330 838 689,244	į.
	Canadian Government Rys.— Intercolonial. Prince Edward Island	1,141 · 00 210 · 60	954,015 15,633	95,401 1,564	3,776,677 620,465	79,040 10,649	
	Atlantic and North-west	5,533 · 88	2,355,433	235,542	28,528,163	724,868	335,954
	Caraquet	68:00 13:00	5,000	500	5,000	87	50
18 16	Central Ontario	104 · 00 74 · 66	18,200	1,820	92,000	2,760	2,140
18	Cornwallis Valley Cumberland Ry. and Coal Co Drummond County	14:00 46:00 62:81	2,660 13,424 1,370	1,342	9,848	47 167	
21 22	Elgin, Petitcodiac and Havelock Erie and Huron Esquimalt and Nanaimo Fredericton and St. Mary's Ry. & Bridge	28.00 75.75 78.00	2,970 150,803 2,700	15,080	3,907 484,852 1,064	66 13,790 56	5,249
	Co. Grand Trunk 883 25 Buffalo and Lake Huron 162 00 G. T., Georgian Bay and Lake Erie 172 75 Montreal and Champlain Junction 61 75 Beauharnois Junc. 19 50 Great Western 540 75 London and Port Stanley 23 84 Wellington, Grey and Bruce 168 13 London, Huron and Bruce 69 01 Brantford, Norfolk and Port Burwell 34 78	1 33					

Freight Carried for the Year ended 30th June, 1892.

Stock.	Lumbe of all kinds Firewoo	except	Firev	vood.	Manu- factured Goods.	All other Articles.	Total Weight Carried.		Remarks.
Tons.	Feet.	Tons.	Cords.	Tons.	Tons.	Tons.	Tons.	Number.	
175	1,122,000 $172,000$	2,244 390			2,113 1		135,356 391	1 1	*Including 129,666 tons of coal.
1,086	26,430,000	39,745	12,269	24,539	12,856	42,862	129,863	3	
25 1,060 280 2,872	451,200 582,000 5,865,000 1,009,368	769 897 1,716 1,288 244,360	2,320	1,291 3,480 67,338	3,997 3,165 17,067	1,019 3,167 935	14,599 8,638 8,363 7,155 553,713	5 6 7 8	•
$456 \\ 173,403$	15,597,777	*22,948 301,745	5,601	7,001 36,070		14,441 1,378,360	56,978 3,174,065	9 10	*Including 2,530 tons of hemlock bark.
12,156 904	175,474,340 5,570,441	219,343 8,296	11,078		309,328 25,842	527,151 in forego- ing.	1,264,575 51,064	11	
95,475	685,093,916	896,699	131,367	232,787	1,020,558	, 852,646	4,058,578	5 12	
25 100 1,220		+6,300 1,100 +5,873	4,280		73	175	350 72,50	$0 14 \ 0 15$	*Including 627 tons
8 8 204	463,000 12,156,000 9,585,000	700 15,195 11,175	H		5,52	*431,616 in forego-	453,85	3 18	8 *Coal.
348 1,421 895	22,112,833	28,026	338	700	2,210	28,085	89,31	2 21	
						23,139	23,13	9 23	Not classifie
· .							1		
		:	5		THE REAL PROPERTY IN				· : !

No. 5.—Summary Statement of Description

	Name of Railway.	Mileage.	Flou	r.	Grain	n.	Live
Number.			Barrels.	Tons.	Bushels.	Tons.	Number.
	Waterloo Junction. 10°25 Midland 173°97 Toronto and Nipissing. 111°50 Grand Junction. 85°40 Whitby, Port Perry and Lindsay 46°50 Victoria. 53°25 Northern 205°48 Northern and Pacific Junc. 111°37 Hamilton and North-western 17°90 South Norfolk 17°00 Cobourg, Blairton and Mar- 18°00	3,157·63	5,833,750	583,375	60,407,600	1,510 190	2,270,070
25	mora 18:00 Madoc Junc. to Bridgewater 8:75 Jacques Cartier Union. 6:50 St. Clair Tunnel	2.22	· · · · · · · · · · · · · · · ·				·
26	Great Eastern	57 67					
ണ	Montreal and Sorel	25.00	3,770	977		• • • • • • •	
28 28	Great NorthernGreat North-west Central	50.93	980	377 98		5,800	
29	Hereford	53.00	5,965	597	10,020	200	
30	Joggins	12:00 34:00	2,404 5 201	262 532	13,990 15,485	354 263	20
	Kent NorthernKingston and Pembroke	112.75	5,321 $6,150$			2,925	
29	L'Assumption.	3.00	475	50			i
34	Lake Erie and Detroit River	42:00 15:50		324			
	Lake Temiscamingue Colonization Lower Laurentian	39.50	1,294	129			
	Manitoba and North-western. 234 50	249 97	33,862	3,386	1,854,160	49,724	6,383
20	Saskatchewan and Western 15 47 S Massawippi Valley	34.00	6,400		1	5,410	1
3	Montreal and Lake Maskinongé	13.00				0,410	
40	Montreal and Ottawa	16.00 40.60		82	3,222	77	33
		10 00				· · · · · · · · · · · · · · · · · · ·	•••••
45	Montreal and Vermont Junction.	23.60					
4	New Brunswick and P. E. Island Northern Pacific and Manitoba	36.00 264.50				285 50,687	
4	Nosbonsing and Nipissing	5 50			1,010,200		
4	Nova Scotia Central	73.50		123			4
4	Ottawa and Gatineau Valley	30 · 00 4 · 25		108	7,270	144	
4	Pontiac Pacific Junction	61 00	9,055	906			
5	Qu'Appelle, Long Lake & Saskatchewan Quebec and Lake St. John	254 · 00 196 · 00		504 1,674			
	2 Quebec Central	153 50		7,421	21,004	1,261	
	Quebec, Montmorency and Charlevoix.	21.00	1,545	}	1	İ	1
	Salisbury and Harvey]	5,646	142	5
5	5 Shore Line	82.50	21,500	2,100	4,400	92	30
	6 Shuswap and O'Kanagan	50·79 43·00		44,538	4,629,966	136,58	
			1 '	13,000	1,020,000		,
5	8 St. Catharines and Niagara Central	12:3		1,25	6,09€	18	3
õ	9 St. John Bridge and Ry. Extension 0 St. Lawrence and Adirondack	$\begin{bmatrix} 1.78 \\ 20.25 \end{bmatrix}$.		

of Freight Carried, &c .- Continued.

Tons. Feet. Tons. Cords. Tons. Tons. Tons. \$\frac{2}{2}\$ \frac{1}{2}	Stock.	Lumb of all kinds Firewo	except	Firev	vood.	Manu- factured Goods.	All other Articles.	Total Weight Carried.	ı.	Remarks.
	Tons.	Feet.	Tons.	Cords.	Tons.	Tons.	Tons.	Tons.	Numbe	•
180,000 270 940 1,410 220 3,000 5,337 27 during last 12 mo 363 20,511,330 30,767 4,484 7,786 461 37,952 78,126 29 38,000 217 1,675 3,052 2,400 12,132 31 10 4,200 184 10 15 116 699 1,064 33 1,064	454,014	718,553,500	1,026,505	620,536	310,268	570,048	3,794,638	8,249.038	3 2 1	
180,000	• • • • • • •							•••••	25	Included in Gran Trunk.
180,000									26	*Not in operatio
363		180,000		940					27	during last 12 mo
3		20 511 330		4,484		461	37,952	78.126	129)
13,980,000	3		217		1.675	$1,026 \\ 3,052$	749,531 2,400	51,393 12,132	3 30	*Including coal.
1,606			20,970	9,726	17,955	32,857	3,300	78,682	32	
2,412,000 2,412 1,512 2,268 720 5,529 36 For 6 months endi 3,094 4,917,000 7,375 952 1,906 12,216 2,492 80,193 37 30th June, 1892. 2,480 38,245 675 *106,018 152,278 38 *Including ore at 2,0666 2,93 131 134 229 1,607 332 2,480 40 20,666 41 *Agricultural pr ducts. 203,874 22,329,333 33,494 13,500 20,202 8,970 34,877 12,131 44 819 1,228 1,269 17,843 34,016 43 tons of hay. 208,8016,000 12,024 1,440 2,680 1,052 3,686 12,123 42 *Including 10,9 12,131 44 154,570 154,570 45 *Saw-logs. 208,016,000 1,025 16 30 1,052 3,686 5,421 47 4,917 48 *Iron ore. 243 418,000 736 2,115 *3,348 1,929 1,724,583 1,972 1,077 1,616 2,903 2,879 13,8 32,544,000 42,820 27,350 44,033 4,488 3 3,544,000 42,820 27,350 44,033 4,488 3 3,544,000 42,820 27,350 44,033 4,488 62,993 1,132 3,302 *58,403 138,950 52 *Including coppore, asbestos, pul 1,149 51 tons iron ore. 243 3,544,000 42,820 27,350 44,033 4,488 3,544,000 42,820 27,350 44,033 4,488 3 3,574,000 52,993 1,132 3,302 *58,403 138,950 52 *Including coppore, asbestos, pul 1,149 51 tons iron ore. 243 3,544,000 42,820 27,350 44,033 4,489 53 138,950 52 *Including coppore, asbestos, pul 1,149 51 tons iron ore. 244 488 666 36,373 480 905 931 1,048 2,187 4,996 53 1ime, and coal. 25 4,056 54 Not classified. 26 57 *Including 4,454 to of hay.	1 606						102,734	138,540	34	.i
3,094					9 968			2,192 5,529	35	*Not classified.
1,290	2 004			. 1		1				
22 98,653 131 134 229 1,607 332 2,480 40 *20,666 20,666 41 *Agricultural pr ducts. 203,874 22,329,333 33,494 1,228 1,269 17,843 34,016 43 tons of hay. 113 7,696,000 11,544 819 1,228 1,269 17,843 34,016 43 tons of hay. 20 8,016,000 12,024 1,440 2,680 154,570 45 +Saw-logs. 20 8,016,000 1,025 16 30 1,052 3,058 5,421 47 4,917 48 *Iron ore. 243 418,000 736 2,115 *3,348 1,929 +7,788 19,028 49 *Including pulpwo 782 1,724,583 1,972 1,077 1,616 2,903 2,879 12,556 50 +Including pulpwo 62,993 1,132 3,302 *58,403 188,950 52 *Including coppore, asbestos, pul 1,132 3,302 *58,403 188,950 55 *Including coppore, asbestos, pul 1,132 3,364 54 54 54 54 54 54 54 54 54 55 56 56 56 56 56 56 56 56 56 56 56 56		4,917,000		.,02		1	1	•	1	
203,874 22,329,333 33,494	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • •		104			332		139	COpper matte
203,874	22	98,653	131	134				20,666	41	*Agricultural Dro
113	203 974	na naa 999	22 404				+309,453		1	ducts
20	113	7,696,000	11,544					04,010	140	tons of hav.
20 8,016,000 12,024 1,440 2,680 1,052 3,058 5,421 47 4,917 48 *Iron ore. 1,220 16,067 46 5,421 47 4,917 48 *Iron ore. 1,224 148,000 7,36 2,115 *3,348 1,929 77,788 19,028 49 *Including pulpwo 1,724,583 1,972 1,077 1,616 2,903 2,879 12,556 50 +Including pulpwo 1,38 32,544,000 42,820 27,350 44,033 3,302 *58,403 138,950 52 *Including copp 62,993 1,132 3,302 *58,403 138,950 52 *Including copp 0,000 1,000	647	2,820,000	4,934	13,500		l	+154,570	154,570	45	tSaw-logs.
						1.052	3.058	16,067	146	-
782	•••••	736,000					*4,917	4.917	7148	*Iron ore
138 32,544,000 42,820 27,350 44,033 7,467 14,934 111,497 51 tons iron ore. 4,438						1,929 2,903	2,879	19,028	5 49 5 50	
53 327,633 480 905 931 1,048 2,187 4,996 53 lime, and coal. 63 3,957,000 5,200 309 487 1,475 2,4056 54 Not classified. 210 201,165 24,248,666 36,373 323,645 742,305 57 *Including 4,454 to of hay. 1 1,863 92 168 6,165 31,986 41,620 58 127,224 12			42,820	27,350	44,033	7,467	14,934	111.497	51	tons iron oro
53 327,633 480 50 24,056 24,056 34 Not classified. 63 3,957,000 5,200 309 487 1,475 3,229 12,646 55 210 201,165 24,248,666 36,373 210 2,400 56 Not classified. 1 1,863 92 168 6,165 31,986 41,620 58 127,224 127,224 59 Not classified.	4,438	• • • • • • • • • • •	62,993			1				
63 3,957,000 5,200 309 487 1,473 3,229 12,646[55 210 201,165 24,248,666 36,373 323,645 742,305 57 *Including 4,454 to of hay. 1 1,863 92 168 6,165 31,986 41,620 58 0f hay. 1 1,863 92 168 6,165 31,986 41,620 58 127,224 127,224[59]Not classified	53	327,633	480	905	931	1,048		4,996	J I U G	lime, and coal
201,165 24,248,666 36,373	63	3.957.000	5,200	309	487	1,475	3,229	12,646	5155	i i
1	210			• • • • • • •			2,190 *323,645	2,400 742,30) 56 5 57	Not classified.
1. 1,863 92 168 6,165 31,986 41,620 58 127,224 59 Not classified	1		'		100		ļ į		1	of hav.
6.581 6.581 6.581 6.7 Classified	1			92	1			41,620 127 22) 58 1 50	,
30th June, 1892.	•• •• ••	••••••					6,581	6,58	1 60	From 11th Jan

No. 5.—Sunmary Statement of Description

£.	Name of Railway.	Mileage.	Flor	ır.	. Grai	in.	Live
Number.	,		Barrels.	Tons.	Bushels.	Tons.	Number.
61	South Eastern	209 10	267,804	26,780	4,843,073	115,515	16,192
63 64	Tence 3 unction 61 40) Tenniscouata. Thousand Islands. Western Counties. Windsor and Annapolis 87 50)	113 · 00 4 · 08 87 · 00	16,411 3,550 11,288	355 1,129	14,834 2,096	289	
	Windsor Branch	119:50	55,183				

of Freight Carried, &c .- Concluded.

Stock.	Lumber of all kinds except Firewood.		Firewood.		Manu- factured Goods.	All other Articles.	Total Weight Carried.	r.	Remarks.
Tons.	Feet.	Tons.	Cords.	Tons.	Tons.	Tons.	Tons.	Number.	
3,922	90,118,880	117,656	15,317	22,976	107,772	171,676	566,297	61	
157 337 155	4,297,500 1,622,000 9,571,000	6,446 2,434 13,055		8,965 2,760	9,810	3,538	16,763 23,979	63 64	
2,494	8,483,745	12,726	1,587	2,380	28,664	*68,133	119,915	65	*Minerals, apples potatoes and hay.
1,171,493		3,338,854		895,522	2,708,672	9,145,059	22,189,923		

No. 6 .- SUMMARY STATEMENT of Earnings

Number.	Name of Railway.	Mileage.	Passenger Traffic.	Freight Traffic.	Mails and Express Freight.
-		<u></u>			
1 Alb	ert Railway and Coal Co.	174 12	\$ cts. 14,265 66	\$ cts. 191,596 82	\$ cts 4,085 61
2 Alb	ert Southern	20.00	14 05	178 80	
3 Bay	Iarvey Branch	59 · 95	21,861 11	104,500 84	8,235 93
4 Bro	ingston, Napanee and Western 56 45	17 00	6,437 89	6,602 76	104 62
5 Bro	ckville, Westport and Sault Ste. Marie	45.00	10,872 80	12,678 40	210 85
	ctouche and Monctongary and Edmonton	32 · 00 253 · 97	3,867 79 18,224 84	8,427 43 29,469 78	2,042 85
8 Car	nada Atlantic	159:00	106,841 11	385,817 56	23,602 55
9 Car	Central Counties	127:00	25,193 93	52,759 24	3,780 15
10 Car	nada Southern	378 91	1,262,361 55	3,561,201 17	161,304 40
	nadian Government Railways— ntercolonial	1,141.00	961,427 94	1,803,529 03	180,485 00
F	Prince Edward Island	210.60	70,959 21	69,983 23	16,075 00
	nadian Pacific				
l N	Ianitoba & South-western Col'n . 217'80				
	North Shore				
1	Coronto, Grey and Bruce 191 30				
	Intario and Quebec	5,533.88	5,509,277 32	13,091,396 12	768,828 88
1	West Ontario Pacific		, , , , , ,	, ,	
	Guelph Junction 15:00 St. John and Maine 91:80				
1	New Brunswick				
1	redericton 22 10				
13 Co	Columbia and Kootenay 27 70 raquet	68:00	5,029 22	11,817 20	2,053 35
	rillon and Grenville	13.00	2,031 14	182 50	2,000 0.
15 Ce	ntral Ontario	104·00 74·66	31,356 91 7,745 96	51,023 17 6,519 37	8,519 60
17 Co	rnwallis Valley	14.00	4,671 02	5,854 19	
	mberland Railway and Coal Coummond County		9,076 30 13,270 33	15,925 58 38,972 15	1,965 23 394 59
20 El	gin, Petiteodiac and Havelock	28:00	2,242 65	7,548 00	676 08
21 Er 22 Es	ie and Huron quimalt and Nanaimo	75·75 78·00	48,132 55 83,774 41	54,160 52 70,296 30	5,864 59 3,675 29
23 Fr	edericton & St. Mary's Ry. & Bridge Co		523 55	2,837 44	3,0.0
	and Trunk883°25 Buffalo and Lake Huron162°00		٠		
	Grand Trunk, Georgian Bay and				
1	Lake Erie				
1	beaunarnois Junc 19 50)				
	Great Western				
1	Wellington, Grey and Bruce168 13				
	London, Huron and Bruce 69 01 Brantford, Norfolk & Pt. Burwell. 34 78	3,157 63	5,463,983 34	11,621,037 42	676,675 6
1 '	Waterloo Junc				
'	Toronto and Nipissing 111.50	!			
1 (Grand Junction	1		1	
1	Victoria 53 25			i	
1 7	Northern	I			1

for	the	WARP	ended	30th	June,	1892.
ıor	the	Vear	enaea	JUUI	Juno,	

Other Sources.	Total Gross Earnings.	Total Net Earnings.	Proportion of earnings to working expenses.	Farnings per train mile.	Number.	Remarks.
\$ cts.	\$ cts. 209,948 09	\$ cts. 31,011 64 62 68	Perct. 117 75	Cents. 107 27 72 50	1 2	
• • • • • • • • • • • • • • • • • • • •	192 85		163	207 32	3	
2,626 34	137,224 22	53,360 91 540 57	104	52.58	4	
158 15	13,145 27 23,762 05 12,453 37 49,737 47	2,28093 $-5,50656$ $16,97960$	110 69 152	80 · 58 56 · 73 132 · 62	5 6 7	
54,435 79	570 697 01	201,419 77	154	123.74	8	
1,405 93 4,832 99	83,139 25 4,989,700 11	23,332 92 1,599,050 99	139 147	68:42 141:71	9 10 11	
425 25	2,945,441 97 157,442 69	493,935 03 132,263 69	86 54	62.63 64.86		
1,419,601 85	20,789,104 17	8,347,977-89	167	145 43	12	
12,732 85 365 73 132 81 92,901 88* 1,292 70 30 00 5,541 89	18,899 77 2,213 64 103,632 53 14,631 06 10,658 02 119,868 99 53,929 77 10,496 73 108,157 66 163,287 89 3,360 99	- 2,180 52 - 1,350 76 - 2,617 10 - 14,147 07 401 53 65,650 77 19,388 88 195 8 31,734 75 - 71,169 10 1,610 99	89 62 97 51 104 221 156 102 141 70	66 31 24 59 69 08 28 91 106 33 189 62 75 43 62 50 79 58 133 30	14 15 16 17 18 19 20 21 22	*Coal.
· ·····	17,761,696 42	4,971,459 27	139	106 09	2	•
		: :		41	:	

No. 6.—Summary Statement of Earnings

TOGITIMAT!	Name of Railway.	Mileage.	Passenger Traffic.	Freight Traffic.	Mails and Express Freight.
	,		\$ cts.	\$ ets.	\$ ets
	Hamilton and North-western 173 90				
	South Norfolk				
	Madoc Junc. to Bridgewater 8 75	! !			
•	Jacques Cartier Union 6:50	0.00	1 20 00 00		
ß	St. Clair Tunnel	2 22	20,007 00	114,719 68	• • • • • • • • • • • • • • • • • • • •
•	Montreal and Sorel 44 67	57.67			
7	Great Northern	25 00	1,488 14	1,964 16	200 00
•	Great North-west Central	50.93	3,066 00	11,409 21	175 74
1	Hereford	53.00 12.00	8,478 73	33,167 50	998 52
i	Joggins Kent Northern	34.00	2,901 19 3,167 95	14,964 21 6,125 37	278 20 861 84
2	Kingston and Pembroke	112.75	34,346 36	91,089 79	8,553 34
3	L'Assomption	3 00	1,058 00	301 99	259 25
ŧ	Lake Erie and Detroit River	42.00 15.50	28,414 59	52,759 92	4,967 66
;	Lower Laurentian	39.50	8,766 89 1.155 19	21,755 77 $3,356 16$	• • • • • • • • • • • • • • • • • • • •
	Manitoba and North-western 34.50)	249 97	1	,	10.400.14
,	Saskatchewan and Western		61,504 83	155,352 13	10,466 14
3	Massawippi Valley	34·00 13·00	57,675 33	99,752 41	1,971 90
)	Montreal and Lake Maskinongé	16.00	5,588 26	1,616 29	367 17
Į	Montreal, Portland and Boston	40.60	16,258 99	21,376 16	2,310 79
į	Montreal and Vermont Junc New Brunswick and P. E. Island	23 60	52,784 91	106,574 34	6,537 97
Ì	New Brunswick and P. E. Island Northern Pacific and Manitoba	36:00 264:50	5,992 07	13,658 44	1,167 57
	Nosbonsing and Nipissing	5.50	66,506 59	190,240 43 33,450 00	4,862 09
I	Nova Scotia Central	73.50	26,171 46	18,269 28	1,145 28
	Ottawa and Gatineau Valley	30.00	4,433 05	4,534 68	126 12
١	Pontiac and Renfrew	4·25 61·00	10 100 10	504 40	
	Qu'Appelle, Long Lake and Saskatchewan	254.00	12,169 12 18,546 20	18,782 65 35,067 59	2,342 90 2,680 73
Ì	Quebec and Lake St. John		43,497 06	97,436 35	7,006 36
	Quebec Central	153 50	116,441 43	153,036 33	9,951 34
ŀ	Quebec, Montmorency and Charlevoix Salisbury and Harvey	21.00 45.00	35,770 00 5,992 22	4,294 69	0.400.09
	Shore Line	82.20	16,624 61	12,911 65 14,958 12	2,468 03 3,059 20
ì	Shuswap and Okanagan	50.79	3,160 25	5,743 14	227 35
1	Stanstead, Shefford and Chambly	43.00	14,915 00	28,531 49	4,818 72
	St. Catharines and Niagara Central St. John Bridge and Railway Extension	12:35 1:75	5,901 62	13,524 06	195 37
1	St. Lawrence and Adirondack	20.22	24,350 60 4,959 24	39,945 62 5,158 51	1,298 37
	South Eastern 147 70)		.,	.,,130 01	
-	Lake Champlain and St. Lawrence	209 · 10	171,814 21	391,134 41	17,712 41
-	Junc	113.00	11 747 97	05 105 91	e 575 AG
	Thousand Islands.	4.08	14,747 87 3,913 09	25,195 21 10,967 37	6,575 0 3 1,501 11
Ì	Western Counties	87.00	65,600 49	23,555 84	7,709 69
1	Windsor and Annapolis	119.50	136,854 45	148,621 38	13,683 33
	Windsor Branch				
į	Total	14,587 89	14,788,465 57	33,230,121 75	1,995,059 75

for the	vear e	nded 30th	June.	1892—Concluded
TOT THE	year e	naea sota	ı June,	1092—Objectuaca

Other Sources	Total Gross Earnings.	Total Net Earnings.	Proportion of earnings to working expenses.	Earnings per train mile.	Number.	Remarks.
\$ cts.	, § cts	s ets	р. с.	Cents.		
173 20 17,495 24 21 00 237 43 10,509 70 4,229 22 132 07 530 83 719 32 11,714 35 1,994 73 3,994 40 5,353 90 1,523 33 260 16	134,726 68 3,652 30 14,650 95 42,644 75 18,316 80 10,155 16 151,484 73 1,640 24 86,142 17 30,760 09 4,511 35 237,832 80 163,628 86 7,703 79 39'945 94 165,897 22 20,818 28 262,139 94 33,450 00 46,305 34 9,03 85 504 40 45,009 02 56,294 52 149,934 50 283,370 50 45,417 69 22,895 23 34,902 09 9,130 74 48,265 21 20,564 26 65,594 59 10,117 75	73,481 26 271 54 4,372 97 -8,559 31 7,829 7 2,162 36 32,416 37 -2163 22 26,960 59 10,563 85 17 67 19,986 14 30,884 58 -1,103 58 2,936 06 27,684 06 27,684 06 5,581 54 -5,753 58 -47 92 10,205 44 539 66 -1,676 41 14,858 96 10,582 18 5,454 32 87,481 51 14,994 20 -371 23 -10,879 08 2,130 74 -8,894 66 4,013 42 44,659 13 -5,868 72	128 106 23 149 123 104 145 149 98 76	140 90 55 29 70 45 41 42 98 10 30 11 147 96 81 63 66 62 78 34 86 43 59 83 106 28 261 33 74 85 149 42 106 52 106 28 81 33 [95 91] 88 58 88 58 68 72 61 96 48 44 5114 24 5	27 28 29 30 31 33 33 34 35 36 37 38 39 41 42 44 44 45 46 47 7 7 7 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8	*Tolls n'passenger and freight cars and Not, operated during last 12 months. Prain mileage not given. For six months ending 30th June, 1892. Train mileage not given. Perating expenses not returned. Line in contractor's hands. To train mileage. Train mileage. Train mileage. Train mileage. Train mileage.
10,058 51 n former. 2,086 75 953 93	590,719 54 46,518 11 18,468 32 97 819 95	32,259 84 39 27 7,671 59 20,486 66	106 100 171 126 1	99 93 6 65 18 6 88 25 6	$egin{array}{c} 1 \ 2 \ 3 \end{array}$	
2,759 81	97,819 95 301,918 97	106,014 10	1	105 45 6 117 29 6		
672,121 35 5	1,685,768 42	15,197,539 91			-,	

No. 7.—Summary Statement of Operating

Number.	Name of Railway.	Mileage.	Maintenance of Line, Buildings, &c.	Working and Repairs of Engines.
1	Alberta Railway and Coal Co.	174 · 12	\$ ets. 30,817 93	\$ ets. 57,725 00
2	Albert Southern	20.00	· • • • • • • • • • • • • • • • • • • •	177 86
3	Kingston, Napanee and Western	59 95	20,260 51	28,935 57
4 5	Brantford, Waterloo and Lake Erie	17:00. 45:00	2,336 20 2,489 88	4,668 42 3,984 00
6 7	Buctouche and Moncton Calgary and Edmonton Canada Atlantic	32 · 00 253 · 97	4,799 58 12,740 18	3,208 73 11,068 93
8	Central Counties	159:00	57,016 85	137,686 18
9 10 11	Canada Eastern Canada Southern Canadian Government Railways—	127·00 378·91	17,507 59 495,458 47	23,276 90 970,803 58
12	Intercolonial Prince Edward Island Canadian Pacific	1,141 00 210 60	1,007,935 40 145,820 89	1,148,199 20 66,772 79
12	Atlantic and North-west 182:50 Manitoba and South-western Colonization 217:80 North Shore 205:50 St. Lawrence and Ottawa 58:40 Toronto, Grey and Bruce 191:30 Ontario and Quebec 463:80	i I		
	Credit Valley 175 10 West Ontario Pacific 26 60 Guelph Junction 15 00 St. John and Maine 91 80 New Brunswick 175 68 New Brunswick and Canada 117 20 Fredericton 22 10	5,533.88	2,509,857 78	4,211,725 04
13	Caraquet	68:00	6,942 85	6,429 00
14 15 16 17 18 19 20 21 22 23 24	Carillon and Grenville Central Ontario Central of New Brunswick Cornwallis Valley Cumberland Railway and Coal Co Drummond County Elgin, Petitoodiac and Havelock Erie and Huron Esquimalt and Nanaimo Fredericton and St. Mary's Railway and Bridge Co. Grand Trunk 883 25	104 00 74 66 14 00 46 00 62 81 28 00 75 75	29, 473 15 10,396 48 2,588 71 18,964 97 8,498 27 3,192 80 18,881 46 132,326 38	4,063 99 19,982 63 12,067 35
21	Buffalo and Lake Huron 162 00	3,157 · 63	2,340,587 24	4,537.376 58

Expenses for the year ended 30th June, 1892.

Working and Repairs of Cars.	General Operating Expenses.	Total.	Cost of Operating per train mile.	Number.
\$ ets. 9,690 78	\$ ets. 80,702 74	\$ ets. 178,936 45	Cents. 91 · 43	1
16 35	61 32	255 53	96.06	2
6,036 10	28,631 13	83,863 31	126.70	3
194 39 in following 463 75 1,662 18	5,405 69 15,007 24 9,487 87 7,286 58	12,604 70 21,481 12 17,959 93 32,757 87	50 42 72 85 81 81 87 34	4 5 6 7
37,044 89	137,529 32	369,277 24	80.07	8
2,793 31 575,387 96	16,228 53 1,348,999 11	59,806 33 3,390,649 12	49·22 96·30	9 10
452,683 13 18,368 26	830,559 27 58,744 44	3,439,377 00 289,706 38	73·13 119·35	11
808,365-62	4,911,177 84	12,441,126 28	87 · 03	12
751 19 4,204 63 1,386 23 65 33 4,049 37 913 67 164 00 3,682 92 14,548 34	6,957 25 3,564 40 49,451 05 6,203 25 3,538 46 11,221 25 13,061 60 3,123 30 29,670 82 48,439 44 1,750 00	21,080 29 3,564 40 106,249 63 228,778 13 10,256 49 54,218 22 34,540 89 10,301 15 76,422 91 234,456 99 1,750 00	73 96 39 60 70 83 56 87 102 33 85 77 48 31 61 34 56 23 191 39	13 14 15 16 17 18 19 20 21 222 23
1,366,310 91	4,545,962 42	12,790,237 15	76:39	24
			45	

No. 7.—Summary Statement of Operating Expenses

Number.	Name of Railway.	Mileage.	Maintenance of Line, Buildings, &c.	Working and Repairs of Engines.
			S cts.	\$ cts
	Cobourg, Blairton and Marmora 18:00			
	Madoc June. to Bridgewater 8.75			i N
	Jacques Cartier Union 6.50)	0.00	6 406 11	95 1100 40
25 26	St. Clair Tunnel	2 22	9,489 11	35,066 46
20	Montreal and Sorel	57 67	1 	
27	Great Northern	25.00	2,580 76	
28	Great North-west Central	50.93	3,805 58	4,465 71
29 30	Hereford	53.00 12.00	$\begin{array}{c} 24,227 & 80 \\ 2,946 & 62 \end{array}$	14,052 04 4.126 09
31	Kent Northern	34 00	1,349 30	4,081 25
32	Kingston and Pembroke	112.75	38,146 11	40,232 86
33	L'Aggumention	3 00	214 18	861 24
34	Lake Erie and Detroit River	42.00	11,141 04	20,743 16
35 36	Lake Temiscamingue Colonization Lower Laurentian	15.50 39.50	1,621 65	1,343 80
37	Manitoba and North-western	249 97	66,004 66	61,150 67
•	Saskatchewan and Western 15 47		,	•
38 39	Massawippi Valley	34.00 13.00	31,614 92	48,072 58
39 40	Montreal and Ottawa	16 00	2.844 11	3,595 13
41	Montreal, Portland and Boston	40.60	16,247 25	10,675 84
42	Montreal and Vermont Junction	23.60	28,524 66	42,794 93
43	New Brunswick and Prince Edward Island	36:00	7,009 45	5,069 38
44 45	Northern Pacific and Manitoba Nosbonsing and Nipissing	264 · 50 5 · 50	99,728 42 4,710 00	72,993 62 14,105 60
46	Nova Scotia Central	73.50	17,304 27	9,270 30
47	Ottowa and Gatingan Valley	30.00	3,153 55	2,213 77
48	Pontiac and Renfrew	4 25	1,286 40	894 41
49	Pontiac Pacific Junction	61:00	13,727 75	6,707 45
50 51	Qu'Appelle, Long Lake and SaskatchewanQuebec and Lake St. John	254 · 00 196 · 00	17,578 49 38,878 09	16,981 26 52,959 36
52 52	Onelec Central	153.50	52,326 11	52,912 62
53	Onebec, Montmorency and Charlevoix	21 00	7,498 23	10,362 73
54	Salisbury and Harvey	45:00	8,809 73	6,615 72
55	Shore Line Shuswap and Okanagon	82°50 50°79	19,985 97	12,269 13
56 57	Shuswap and Okanagon Stanstead, Shefford and Chambly	43.00	19,521 61	16,793 66
58	St. Catharines and Niagara Central	12:35	4,111 24	4,491 27
59	St. John Bridge and Railway Extension	1.75	1,326 66	
60	St. Lawrence and Adirondack	20.22	5,255 45	5,486 15
61	South Eastern	209 10	97,853 20	206,475 10
62	Temiscouata.	113.00	12,943 33	14,001 69
63	Thousand Islands	4.08	1,671 58	3,736 19
64	Western Counties	87.00	36,174 63	18,427 60
65	Windsor and Annapolis 87 50 Windsor Branch 32 00	119:50	88,233 96	45,226 72
	,, manor 2, milott	14,587 89	7,678,739 44	12,218,471 80

for the year ended 30th June, 1892—Concluded.

Working and Repairs o Cars.	General Operating Expenses.	Total.	Cost of Operating per train mile.	Numbers.	Remarks.
\$ cts	. 8 cts.	\$ cts.	Cents.		•
in foregoing	16,689 85	61,245 42		25	
				26	Not operated during last 12 months.
287 96 1,439 75 643 05 400 00	800 00 10,464 67 11,484 47 2,771 27 2,162 25	3,380 76 19,023 92 51,204 06 10,487 03 7,992 80	67:50 222:55 57:68 80:67 43:52	27 28 29 30 31	Trains run by Canadian Pacific Railway.
5,725 34 42 35 3,735 43	34,964 05 786 39 23,561 95 20,196 24 1,528 23	119,068 36 1,904 16 59,181 58 20,196 24 4,493 68	55°38 48°08 68°19 30°00	32 33 34 35 36	Train mileage not given. For 6 months ended 30th June, 1892.
15,427 82	75,263 51	217,846 66	135 52	37	
9,004 48	44,052 30	132,744 28	66 22	38	
2 45 2,144 56 8,835 78 368 59 13,556 49 2,080 00 70 00	2,365 68 7,942 23 58,057 79 2,789 12 81,614 99 12,602 32 9,455 33	8,807 37 37,009 88 138,213 16 15,236 54 267,893 52 33,497 92 36,099 90	76 16 72 59 72 00 43 79 108 62 261 70 58 36 140 55	39 40 41 42 43 44 45 46 47	
362 99	2,823 88	8,554 19 2,180 81		48	Train mileage not given.
2,563 65 1,248 13 4,083 70 15,552 92 2,189 62 2,124 58	75,097 34 10,372 91 5,716 43	30,150 06 45,712 34 144,480 18 195,888 99 30,423 49 23,266 46	71:35 86:30 78:37 66:30 59:34 69:83	50 51 52 53 54	*Including \$12,599.12 tolls to C. P. Ry.
1,580 21 1,040 06 300 30	7,648 03		81 · 27 57 · 36 91 · 95	55 56 57 58 59	Assumed. Not returned. Line in contractor's hands. [operating traffic. ‡Including \$18,128 charges of C. P. R. for
770 56	19,608 80: 4,474 31	20,935 40 15,986 47	62 18	60	From 11th January to 30th June, 1892.
67,982 85	186,148 55	558,459 70	94 · 47	61	
1,784 99 56 54 5,741 70	17,748 83 5,332 42 16,989 36	46,478 84 10,796 73 77,333 29 195,904 87	65 12 51 59 83 36 76 11	62 63 64 65	
3,491,907 16	- <u>-</u>	36,488,228 51	10 11	30	

No. 8.—SUMMARY OF ACCID NT

							===
	Name of Railway.	Mileage.	Passengers, Employees, or Others'	Fell Car Eng	s or	Jum on of Train Eng when	r off ns or ines n in
Number.			Others	Killed.	Injured.	Killed.	Injured.
1 2	Alberta Railway and Coal Co	174·12 20·00		1		1	
3	Harvey Branch	59.95	Employees Others				
4 5 6	Brantford, Waterloo and Lake Erie	17:00 45:00 32:00	Others				
8	Calgary and Edmonton Canada Atlantic 138 00 \ Central Counties 21 00 \	253·97 159·00	Employees		1	1	i
9	Canada Eastern	127.00	(Employees	9	2	::::	i
10 11	Canada Southern	378 91	Others Passengers			1	······································
	Intercolonial	1141 · 00	Others	$\begin{bmatrix} 1 \\ 1 \end{bmatrix}$	9	1	8 2
	Prince Edward Island	210.60	Employees	.	1		
12	Canadian Pacific 3563 40 Atlantic and North-west 182 50 Manitoba and South-western Colonization 217 80 North Shore 205 50 St. Lawrence and Ottawa 58 40 Toronto, Grey and Bruce 191 30 Ontario andQuebec 463 80 Credit Valley 175 10 West Ontario Pacific 26 60 Guelph Junction 15 00 St. John and Maine 91 80 New Brunswick 175 68 New Brunswick and Canada 117 20 Fredericton 22 10 Columbia and Kootenay 27 70	5533 · 88	Passengers Employees Others	. 10			9 20 6
13 14	Caraquet	68 00 13 00				.	
15	Central Ontario	104 00	(Wmydowood				
16	Central of New Brunswick		(Others	1		• • • • •	
17 18	Cornwallis Valley	14:00 46:00					
19	Drummond County	62.81			.		
20 21	Elgin, Petiteodiac and Havelock Erie and Huron	28·00 75·75		: :::	:1:::	: : : : :	
22 23	Fsquimalt and Nanaimo Fredericton and St. Mary's Railway and Bridge Co	78·00 1·33	Employees		 	. 1	
24	Grand Trunk 883 25 Buffalo and Lake Huron 162 00 Grand Trunk, Georgian Bay and Lake Erie. 172 75 Montreal and Champlain Junction 61 75 Beauharnois Junction 19 50 Great Western 540 75 London and Port Stanley 23 84 Wellington, Grey and Bruce 168 13 London, Huron and Bruce 69 01 Brantford, Norfolk and Port Burwell 34 78						

for the year	ended:	30th	June,	1892.
--------------	--------	------	-------	-------

on o T na	work r near rack king up ains.	An O He out	ads	C	iplin g ars.	by th	isions, or Trains rown rom rack.	star ly bei	lking, nding, ving or ng on rack.		ions.		iking dges.		her ses.	Tot	als,	
Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Number.
					13	1		1 3	1					1 2			8	1 2 3 4 5 6 7 8 9 10 11
3 ····			1	3	137	3 11 2	1 16 1	1 9 20	4 14			ř	3	1 12 13	2 70 19	9 49 36	17 284 43	12
••••	1				1				1							1	3 1 3	13 14 15 16 17 18 19 20 21 22 23

No. 8.—SUMMARY OF ACCIDENTS for

!	Name of Railway.	Mileage.	Passengers, Employees, or Others.	Fell Car Eng	sor	Trai Eng whe	ping r off ns or rines en in tion.
Numper.		,	others.	Killed.	Injured.	Killed.	Injured.
	Waterloo Junction 10·25 Midland 173·97 Toronto and Nipissing 111·50 Grand Junction 85·40 Whitby, Port Perry and Lindsay 46·50 Victoria 53·25 Northern 205·48 Northern and Pacific Junction 111·37 Hamilton and North-western 173·90 South Norfolk 17·00 Cobourg, Blairton and Marmora 18·00 Madoc to Bridgewater 8·75 Jacques Cartier Union 6·50	3157 · 63	{Passengers Employees Others	8	5 32 3	1 2 7	6 5 -8
25 26 27 28 29 30 31 32 33 34 35 36 37	St. Clair Tunnel Great Eastern 13:00 Montreal and Sorel 44:57 Great Northern Great North-west Central Hereford Joggins Kent Northern Kingston and Pembroke L'Assumption Lake Erie and Detroit River Lake Temiscamingue Colonization Lower Laurentian Manitoba and North-western 234:50 Saskatchewan and Western 15:47 15:47 Saskatchewan and Western 15:47 15:47 Saskatchewan and Western 15:47 15	2·22 57·67 25·00 50·93 53·00 12·00 34·00 42·00 40·00 40·00 40·00 40·00 40·00 40·00 40·	Employee Others				
38 39 40 41	Massawippi Valley Montreal and Lake Maskinonge Montreal and Ottawa Montreal, Portland and Boston	34·00 13·00 16·00 40·60	Employees Others Passengers				
42 43 44 45 46 47 48 49 50 51	Montreal and Vermont Junction New Brunswick and Prince Edward Island Northern Pacific and Manitoba Nosbonsing and Nipissing Nova Scotia Central Ottawa and Gatineau Valley Pontiac and Renfrew Pontiac Pacific Junction Qu'Appelle, Long Lake and Saskatchewan Quebec and Lake St. John	5:50 73:50 30:00 4:25 61:00 254:00 196:00	(Employees Employees Employee Employees (Employees	1			1
53 54 55 56	Quebec Central Quebec, Montmorency and Charlevoix Salisbury and Harvey Shore Line Shuswap and Okanagan	153 50 21 00 45 00 82 50 50 79	Others				
57	Stanstead, Shefford and Chambly	43.00	Passengers Employees Others	.]			
58 59	St. Catharines and Niagara Central	12·35 1·75		.		.	

the year ended 30th June, 1892 -Continued.

n o: Tr vaki	work r near ack ng up sins.	Putt Ari or Hea out Wind	ds of		pling ers.	by T thr fr	sions, or rains own om ack.	stano lyi	ling, ng, r g on	E) plosi		Stri Brid	king lges.	Oth Case		Tota	ls.
Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.
•••	2			4 2	148 5	1 2	2 10	1 7 29	5 30			1	3	1 15 9	2 35 20	4 38 51	·15 240 66
										-							·
· · · .										::::					: 		
				1	1			I .	i	1					 		
• • • •				.			1				1		: :				1
• • • •																	
• • • •				: ::::	 			: ::::							i	1	
• • • •	• • • • • •				1									. 1	1	. 1	
• • • •		: : : :		: ::::				.	1			$\cdot \cdots $	$\cdot \cdots $				
• • • •	• • • • • •	• • • •	.	.						1			.			. 1	
• • • •	• • • • • •	• • • •	$\cdot \cdots $	$\cdot \cdots $													
• • •		• • • •	$\cdot \cdots $	• • • •				: : : : :	j		: :::						1
٠		.	.								.		: :		٠	:	· · · · · ·
• • •			$\cdot \cdots $														1:::::
• • •	• • • • •		.		$\cdot \cdot \cdot \cdot \cdot \cdot$!				: :::::			
• • •				.	1	. 1	į	İ	1			.j					4
1	1			-			1	1 .	1				: :::		. 15	2	1
• • •			.i		l l	,	. J <u>.</u> .				-1						
• • •	. •		1		1	1				1 :							. 1
			• • • •		• • • • • •	1 .	1	1	. 1							1	:
٠.,						14				1			•• •••		4	·····;	. 1
• • •					1	i	: ::::							::I .		1 2	5
٠								. 1	1					•• ••••		. 1	1
• • •	: :					:: :::	1									: ·····	
٠								1	1								
• • •	· · · · · ·															•• ••••	
• • •					1	i		1	1	1		••				1	. 2
٠.	•• ••••			[1							4		
• • •				. 1	.												

No. 8.—Summary of Accidents for

	Name of Railway.	Mileage.	Passengers, Employees, or Others.		from s or ines.	Jum on o Train Eng whe mot	r off ns or ines n in
Number.		-	Others.	Killed.	Irjured.	Killed.	Injured.
60 61 62 63 64 65	St. Lawrence and Adirondack	20 · 22 209 · 10 113 · 00 4 · 08 87 · 00 119 · 50	Passengers. Employees. Others. (Employees. Others.		4	1	

the year ended 30th June, 1892—Concluded.

on o	work or near rack king up rains.	He Out	tting rms or ads of od'ws	•	upling Cars.	by 'th	isions, or Frains rown rom rack.	star ly bei	lking, nding, ying or ing on rack.		Ex- sions.		riking idges.		ther uses.	То	tals.
Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.
•••	1		: 1			1	1	1	3 2					1	12 1	3 1	2 41 3 1 1
5	17	••••	23	10	340	22	38	89	82	1		2	6	57	203	233	879

No. 9.—Lines of Railway owned by Coal and Iron Mines, for the Year ended 30th June, 1892.

Name.	Length of Railway.	Gauge.	No. of Engines.	No. of Waggons.	Remarks.
Nova Scotia.	Miles.	Feet.			
Intercolonial Coal Mining Co	8:00 3:00 10:50 3:50	4 8 4 8 4 8 4 8 4 8 5 3 0	4 2 3 2	168 20 9 25	
Cape Breton.	25.00		11	222	
Old Bridgeport	0 38	4·8½			Rolling stock furnished by International Coal and Railway Co.
General Mining Association— Sydney and Victoria Sydney and Louisburg Gowrie International	9·58 *43·00 1·50 13·00	4·8½ 3·00 3·6 4·8½	3 4 2 4	217 270 142 240	2 passenger cars. 3 passenger cars. 6 platform do
Caledonia	1.00	4.81	2	120	1 flanger.
	68 · 46		15	989	

^{*32 00} miles not in operation.

No. 10.—Statement of Aid granted to Railways—Constructed and under Construction—by Governments, for the year ended 30th June, 1892.

Abert (now Salisbury and Harvey) Albert (now Salisbury and Harvey) Albert (now Salisbury and Harvey) Basic de Mayure Balley (lie Mayure Balley (lie Mayure Balley (lie Mayure Balley (lie Mayure Balley (lie Mayure Balley (lie Mayure Balley (lie Mayure Balley (lie Mayure Balley (lie Mayure Balley (lie Mayure Balley (lie Mayure Balley (lie Mayure Balley (lie Mayure Balley (lie Mayure Balley (lie Mayure Balley (lie Mayure Balley (lie Mayure Balley (lie Mayure Canada (lie Mayure Canad	Name of Railway.	Loan.	Total.	Bonus.	Total.	Subscription to Shares or Bonds.	Total.
## Harvey) ### Grand Junction ### Grand Junc		65					
### Bit 200 ### Biris #### Biris #### Biris #### Biris #### Biris #### Biris #### Biris #### Biris #### Biris #### Biris #### Biris #### Biris #### Biris #### Biris #### Biris #### Biris #### Biris #### Biris ##### Biris ##### Biris ##### Biris ###### Biris ###### Biris ##################################	Albert (now Saliabury and Harvey)	* 90 665 48	. cts	.eq.		ee cts.	•
ake Erie ake Erie ake Erie ake Erie ake Erie ake Erie by 6000 192,400 192,000 192,000 193,400 15,142,633 15,142,633 15,100	August Mouthern Base des Chaleurs	C# 000'e7		51 900 00			
ake Erie sault Ste. Marie 52,400 192,400 192,400 112,000 113,000 124,439 124,439 124,439 124,439 12,000 12,000 12,000 12,142,633 13,142,633 14,800 15,142,633 15,142,633 16,000 16,000 16,000 16,000 17,000 18,000	Belleville and North Hastings-Grand Junction			620,000 00			
ault Ste. Marie sault Ste. Marie sault Ste. Marie sault Ste. Marie sanada Eastern) salada Eastern) salada Eastern) by 4439 salada Eastern) salada Eastern) salada Eastern) salada Eastern) salada Eastern) salada Eastern) salada Eastern) salada Eastern) salada Eastern) salada Eastern) salada Eastern s	Beauharnois Junction		::	22,400 00			
### 192,000 192,000 192,000 193,000 1	Brockville Westrort and Cake Fine			96,000			
102,440 102,440 15.05,250 15.05,250 15.05,250 15.05,250 15.00	Buctouche and Moneton			192,000 00			
314,400 314,400 325,404,577 326,406 326,404,577 326,406 326,404,577 326,406 326,406 326,406 326,406 326,406 326,406 326,406 326,406 326,606 32	Canada Atlantic		:	102,400 00			•
15, 15, 15, 15, 15, 15, 15, 15, 15, 15,	Canada Central		:: :: ::	314,400 00			
anada Eastern) 224,001 225,012 224,489 224,489 44,800 44,800 44,800 44,800 22,400 82,600 82,600 80,000 80,000 80,000 80,000 15,142,633 33 48,000 15,120 15,120 15,120 15,800 15,800 15,800 15,800 15,800 15,800 15,800 15,800 15,800 15,900 16,900	Consoliet Corsoliet		: : : : : : : : : : : : : : : : : : : :	1,525,250 00			
anada Eastern) 24,439 124,439 124,430 26al Company elock Railway Bridge Company 300,000 300,000 15,142,633 33 48,000 750,000 750,000 223,400 760,000 15,120 15,120 15,120 15,120 15,120 15,120 15,120 15,100 15,120 15,100 15,100 15,100 15,100 15,000	Central of New Branswick			00,104,00			
24,439 mpany mpany 44,800 44,800 201,920 201,920 22,400 W Bridge Company 300,000 15,142,633 33 48,000 160,000 160,000 161,200 160,000 166,800 166,800 166,800 166,900 166,900 166,900 166,900 166,000 166,000	anada F			226,012 54			
mpany 44,800 44,800 20,920 20,	Columbia and Kootenay	:		24,439 84			
#4,800 #4,800 #1,800 #1,800 #201,920 #21,920 #2,840	Cornwallis Valley	: : : : : : : : : : : : : : : : : : : :		112,000 00			
y Bridge Company 300,000 00 ke Erie 15,142,633 33 4eet) C. P. R. 553,	Denne Callway and Coal Company		:	44,800 00			
y Bridge Company 300,000 00 ke Erie 15,142,633 33 meet) C. P.R. 53	:			90 200 200			
y Bridge Company 300,000 00 ke Erie 15,142,633 33 weet) C. P.R. 53, 53, 55, 55, 55, 55, 55, 55, 55, 55,	Elgin, Petiteodiae and Havelock			22.400 00			
W Bridge Company 300,000 00 ke Erie 15,142,633 33 15,142,633 33 4eet) C.P.R. 53,	frie and Huron		: : : : : : : : : : : : : : : : : : : :	82,652 82			
W Bridge Company ke Erie 15,142,633 33 ke Erie 5,142,633 33 west) C. P. R.			:::::::::::::::::::::::::::::::::::::::	00 000'96			
ke Brie 15,142,633 33 weet) C.P.R. 4 KG 202 07		300 000 00	:::::::::::::::::::::::::::::::::::::::	750,000 00			
ke bine weet) C.P.R.		15.142 633 33		30,000 00			
#eset) C. P. R. 53,	rest Eastern	3 3 5 5		40 000 00			
**eet) C.P.B.	rest Northern			250,000,000			
West) C. P. R. 4. RO 200 GP	ruelph Junction	:::::::::::::::::::::::::::::::::::::::		160,000 00			
West) C. P. R.	larvey Branch			51,200 00			
783 (C.P.R. 53, 4 Kg 204 or	projected			9,600 00			
weet) C.P.R	itercolonial					2	
+ KO 994 04	Mernational (Atlantic and North-west) C.P.R.		:	53,949,933 65			
4 KO 994 07	Section of the contract of the			160,000 00			
	ent Northern	T KO 994 04	:	42,400 00			

+ Rails. *\$14,665.45 rails.

A. 1893

Name of Railway.	Loan.	Total.	Bonus.	Total.	Subscrip- tion to Shares or Bonds.	Total.
	. cts.	* cts.	ee cts.	es cts.	* cts.	es cts.
Kingston Napanee and Western		:	268,400 00			
Kingston and Pembroke			48,000 00 11,900 00			
L'Assomption Lake Erie and Detroit River			342,400 00			
Lake Temiscamingue Colonization			240,200 00			
Learnington and St. Clair (now in Canada Southern).	:		217,600 00			
Lower Laurenblan. Massawinni Vallev			80,000 00			
Montreal and Lake Maskinonge.	:		42,200 00			
Montreal and Champlain Junction	:		100,000			
Montreal and Ottawa			112.000 00			
Montreal and Western			361,270 00			
New Brunswick and Prince Edward Island.			118,400 00			
New Glasgow Iron and Coal Co.			20,000 00 20,000 00			
Northern and Western of New Brunswick (now Canada Lastern) Northern and Pacific Innation			1,320,000 00			
Nova Scotia Central			256,000 00			
*Ontario and Quebec.		:	00 006 00			
Orford Mountain			320,000 00			
Parry Sound Colonization			128,000 00			
Pontiac Pacific Junction			337,100 00			
Pontiac and Renfrew	:		92,200 00			
Port Arthur, Duluth and Western			3,750,081 38			
Onelsee and Lake St. John.			1,003,495 00			
Quebec Central		:	348,342 00			
and Charlevoix		•	10,000 000 000 000 000 000 000 000 000 0			
Quebec, Montreal, Ottawa and Occidental, Quebec to Montreal	:		+1.440.000 00			
			146,400 00			
St. Louis, Richibucto and Buctouche.			22,400 00			
St. John Bridge and Railway extension.	200,000 00					
St. John Valley and Rivière du Loup.			188,800 188,800 189,800 180,800 180,800 180,800 180,800 180,800 180,800 180,800 180,800 180,80			
St. Lawrence and Adirondack			375,000 00			
St. Carl and Company			163,200 00		_	

South Norfolk Stewische Valley and Lansdowne Stewische Valley and Lansdowne Themsousta. Thousand Islands. Tobique Valley. Toronto, Grey and Bruce Westroko Junction. West Ontario Parific. Western Counties. Windsor and Annapolis.	16,0	30,633 05	236, 800 00 670, 800 00 674, 400 00 134, 400 00 155, 200 00 256, 000 00 500,000 00	132,062,672,88		•
Ontario Government. Canada Atlantic. Canada Central			270,000 00 . 479,000 00		•	
Canada Southern Central Ontario Cobourg, Blairton and Marmora, Credit Valley Erie and Huron	26,000 00					
Georgian Bay and Lake Erie Hamilton and Nath-western. Irondale, Bancroft and Ottawa Kingston and Pembroke London, Huron and Bruce.			336,000 00 565,020 00 30,000 00 456,493 00 178,630 0)			
Northern. Parry Sound Colonization. Port Arthur, Duluth and Western. Toronto and Nipissing. Lake Simcoe Junction. Toronto, Grey and Bruce Victoria. Wellington, Grey and Bruce Whitby, Port Perry and Lindssy			196,188 00 148,500 00 240,000 00 105,212 00 53,000 00 375,280 00 312,000 00 311,276 00 94,957 59			
QUEBRC GOVERNMENT.		- - - - - - - - - - - - - - - - - - -		6,339,507 44	-	
1,030,000 00			1,030,000 00 185,000 00 200,000 00 155,000 00 42,000 00 103,000 00 391,122 02			

Name of Railway.	Loan.	Total.	Bonus.	Total.	Subscription to Shares	Total.	
	9		84 84	9		96	c ts
Querec (rovernment—Concluded.					· ·	•	3
Lake Champlain and M. Lawrence Junction	:		380,000 00				
Lake Temiscamingue Colonization Kallway Company							
Lévis and Kennebec			+ 00,				
	:	:	168,000				
Missisquoi Valley (now Atlantic and North-west—C.F.K)			150,000 00		_		
Montreal and Ottawa			142,500 00	-			
Montreal, Portland and Boston.		:	232,000 00				
Montreal and Sorel		:	262,500 00		-		
Montreal and Western.			472,500 00				
Montreal and Lake Maskinonge			194,000,00				
Orford Mountain	:		445.982.00				
Ottawa and Gatinesh Valley.			000,000				
Pontiae and Facine Junction.			17,500 00				
Policial and Ivaluated Dishapa and Take St. John			2,748,000 00				
Duebec Central	:		924,000 00				
Quebec, Montreal, Ottawa and Occidental, including North Shore	3,722,956 00	:	727,000 00				
Juebec, Montmorenci and Charlevois.	-: :::: ::-:	:	192,000 00				
South-Eastern.			70,000 TO				
St. Lawrence and Adirondack	:		241,500 00				
Westernice and Manager (now Atlantic and N.W.—C.P.R.)			92,000 00				
Waveling and tracking the contract work of the college w		3,722,956 00		11,715,611 12			
NEW BRUNSWICK GOVERNMENT.							
4.11 (G.1]. L 3. U			455.000 00				
Albert (now Salisbury and Larvey)			52,500 00				
Albert Southern			96,000 00				
Paradist.			180,000 00				
			132,00r 00				
Chatham Branch (now part of Canada Eastern)	:		32,000 00				
			230,000				
Grand Southern (now Shore Line)	: : : : : : : : : : : : : : : : : : : :		90,000,00				
Harvey Branch	:		135,000,00				
Kent Northern		:	20,00				

300,000 00		·	- an are belleviole	300,000 00
4,317,346 81	2,125,995 87	583,300 00	37,500 00	157,121,934 12
575,000 00 108,000 00 321,500 00 107,500 00 145,685 00 5,181 81 4,890,000 00 135,000 00 70,000 00	44,800 00 643,545 06 33,400 00 40,000 00 11,119 94 189,000 00 679,100 00	538,300 00	37,500 00	
	50,000 00	1,858,440 00		21,688,029 06
	50,000 00	652,440 00 900,000 00 50,000 00 256,000 00		21,688,029 06
New Brunswick and Canada New Brunswick and Prince Edward Island Northern and Western flow Canada Rastern) Elgin, Petitoodiac and Havelock St. Martin's and Upham (now Central of New Brunswick) St. John Bridge and Railway Extension St. John Bridge and Rivière du Loup St. John Valley and Rivière du Loup St. Louis, Richibucto Temiscousta Tobique Valley Nova Scoria Government.	nd Coal Co. (Eastern Extension) sal Co. and Railway and Coal Co.)	Manitoba and North-western. Manitoba South-western Colonization Manitoba South-western Colonization Northern Pacific and Manitoba Saskatchewan and Western Winnipeg and Hudson Bay	BRITISH COLUMBIA GOVERNMENT. Canadian Pacific	Total aid from Government

Subscriptions to Shares Total.	s cts.	25,000 00	30,000 00 7,500 00 5,000 00	
Total. ti	s cts.	5,000 00	116,000 00	322,500 00 20,000 00 113,500 00 15,000 00
Bonus.	es cts.	25,010 00 9,000 00 5,000 00	36,000 00 15,000 00 15,000 00 5,000 00 6,000 00 15,000 00 15,000 00 15,000 00 386,000 00	200,000 00 15,000 00 15,000 00 15,000 00 15,000 00 15,000 00 15,000 00 15,000 00 1,500 00 113,500 00 113,500 00
Total.	e cts.			
Loan.	* cts.			
Name of Railway.	•	Bay of Quinté and Navigation Company Brantford, Waterloo & Lake Erie. do do do	Brockville, Westport and Sault Ste. Marie	Canada Southern do do do do do do do Canadian Pacific Cobourg, Blairton and Marmora. Central Counties Central Ontario.
Municipalities.	ONTARIO.	City of Brantford City of Brantford Village of Oakland Village of Westerford	73.6	nsend an. erdon araka araka burg and Durham

00 000 00	00 000 to	2,000,000 00 000,000 00	000 100 100 100 100 100 100 100 100 100					
00 000,09	200,000 00 1135,000 00 75,000 00 77,000 00 350,000 00 55,000 00 10,000 00 11,000 00 15,000 00 20,000 00	155,000 00 30,000 00 20,500 00 11,000 00 14,000 00 16,000 00	15,000 00 10,000 00 10,000 00	25,000 00 25,000 00 25,000 00		115,000 115,000 10,000 20,000 20,000 20,000 20,000 20,000	28,888,84 86,989,88 86,989,88 86,889,88 86,889,88 86,889,88	22,000 00 10,000 00 60,000 00
			Georgian Bay and Lake Erie			9999		දි දි දි දි දි වේද විසිදු දි
op	Credit Valley do do do do do do do do do do do do do	Erie and Huron. do do do do do do do do do	Georgian Bay do do			8888	දිල්ල්ල්ල්	දිදිදිදිදිදිදිදි
County of Prince Edward	do Oxford do Wellington. do Waterloo do Peel do Halton. Gity of Torento do St. Thomas Town of Milton. do Brampton do Ingersoll do Orangeville. Village of Streetsville		do Woodhouse.	do North do Town of Woodstock Township of East Oxford. Woodstock	Town of Woodstock. do Stratford. County of Perth Township of Mornington	do Listowel. Town of Listowel. Township of Wallace. Town of Palmerston.	Township of Manto Town of Harriston Township of Normanby do Bentinck	do Fideslie do Arran do Amabel do Kippel do Albemarle.

No. 10.—STATEMENT of Aid granted to Railways by Municipalities.—Continued.

Total.	\$ cta.	100,000
Subscriptions to Share or Bonds.	\$ cts. 50,000 00 20,000 00	
Total.	\$ cts.	675,596 00
Bonus,	\$ cks. 29,000 00 29,000 00 15,000 00 15,000 00 17,000 00 38,000 00 38,000 00 38,000 00 38,000 00 38,000 00 29,000 00 20,	20,400 00 15,000 00 10,000 00
Total.	\$ cts.	
Loan.	\$ ct8.	
Name of Railway.	an Bay and Lake Erie Junction Junction Junction Junction Junction Junction Junction Junction do do do do do do do do do	do do do do con- Lake Erie, Essex & Detroit River. do do do con-
Municipalities.		Township of Nottawasagado South Colchester do Garfield.

Township of East Gwillimbury do North do do Georgina do Whitechurch	Lake Simcoe Junction do do do do do do do do	25,000 00 20,000 00 20,000 00 15,000 00	80 80		
Village of Leamington	Leamington and St. Clair, in Carrada Southern do do do do do do do	12,000 00 15,000 00 6,000 00			
	London, Huron and Bruce. do do do do do do do do do do do do do d	15,000 00 17,500 00 25,000 00 15,000 00 15,000 00 25,000 00 25,000 00	on one one		
do Morris do Morris do Stanley Village of Clinton do Exeter do Kincardine and Wigan city of London.	ප්‍රච්ච විදු වූ විදු වේදී වේදී වේදී වේදී වේදී වේදී වේදී වේදී වේදී වේදී වේදී වේදී වේදී වේදී වේදී වේදී වේදී	10,000 10	. 6		
hedash	Midlanddo do do do do do do do do do do do do d	50,000 00 30,000 00 12,500 00 12,500 00 21,370 85 2,000 00 4,000 00			
: : : : :	*Napanee, Tamworth and Quebec do do do do do do do do do do do do do	30,000 1,500 30,000 15,000 15,000 100 100 100 100 100 100 100 100 100	144,870 83 90 90 90 90 90 157,500 90	00 000	
of Sincoe. of Sincoe. Orillia. nips of Collingwood, Euphrasia		30,000 00 12,500 00 99,480 00		200,000 00	

* Now Kingston, Napanee and Western.

No. 10 .- STATEMENT of Aid granted to Railways by Municipalities - Continued.

	Total.	\$ cts.					000 000	00 00 00				
	Sabscrip- tions to Shares or Bonds.	& cts.				80,000 00	20,000 00	60,000 00 30,000 00	,			
	Total.	æ cts.	, 62	00,000,00	00 000°04	00,000,00			10,000 00		988 500 00	000000000000000000000000000000000000000
•	Bonus.	s cts.	25,000 00 10,000 00 15,000 00 2,500 00	25,000 00 15,000 00	5,000 00 20,000 10 40,000 00	:	:		150,000 00 10,000 00 30,000 00 50,000 00 10,000 00	50,000 00 44,000 00 15,000 00 15,000 00	12,500 00 2,000 00	40,000 00 45,000 00 45,000 00 30,000 00 35,000 00
	Total.	& cts.				00 000 00	20, 200, 200	300,000,00				
	Loan.	& cts.				80,000 00		200,000 00 100,000 00				,
0	Name of Railway.		Ontario and Quebec	Port Arthur, Duluth and Western do	South Norfolkdo do do	St. Catharines and Niagara Central	ор ср	St. Lawrence and Ottawado	Thousand Islands Toronto and Nipissing do do do do do do do do do	op op op op	do do ob	Toronto, Grey and Bruce
The state of the s	Municipalities.	ONTARIO - Continued.	Town of Smith's Falls do Merrickville Township of West Winchester do Thamesford	Town of Port Arthur Municipality of Neebing	Town of Simcoe. Township of Charlotteville. do South Walsingham.	Gity of St. Catharines	Town of Thorold.	City of Ottawa Town of Prescott	do Gananoque City of Toronto Township of Scarboro do Markham do Overidge	do Brock. do Eldon. do Basley do Somewille Touts of Texton Pricely and Long	ford Town of Uxbridge	Albion Caledon Mono <pre></pre>

	988,000 00	47,000 00	632,000 00	222,094 93
15,000 00 30,000 00 30,000 00 30,000 00 15,000 00 15,000 00 38,000 00 5,000 00	85,000 00 22,000 00 24,000 00 24,000 00 7,000 00 10,000 00 2,000 00	16,000 1,000 10,	2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2	1 2
		and Bruce do do do do do do do do do do do do do d	do do do do do do do do do do do do do d	235,000 00
8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Victoria do do do Waterloo Junction do do do do	Wel	do do do do do do do do do do do do do d	
Orangeville. Mount Forest Toronto. County of Grey (Group) Owen Sound. Minto. Minto. Howick Gorrie and Wroxeter. Teeswater. Culross.	Town of Lindsay Village of Fenelon Falla. Vollage of Fenelon Falla. County of Halburton Township of Woolwich do Peel Village of Elmira. do St. Jacobs.	Fergus Peel O. Elona Co. Maryboro Nichol Wallace Minco Minco Howick Listowell Grey Elma Morris	W. Wawanosh. Ashfield Turnbury Kincardury Kincardury Town of Whitby. Township of Whitby do Reach do Scugog County of Victoria, Village of Port Perry Manufachuring Co.	

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.
QUEBRC.		es cts.	es cts.	* cts.	e cts.	s cts.	s cts.
Farnham Town of Nicolet. Municipality of St. Leonard.	Canadian Pacific Drummond County do			10,000 00	20,000 00		
Parish of St. Antoine do St. Denis.	Great Eastern do			10,000 00			
Parish of St. Sophie. Village of New Glasgow. County of Compton.	Great Northern do International, now in Atlantic and			4,000 00 2,000 00	00 000 9	99	
St. Pie SL'Ange Gardien. SSt. Pail Philipsburg.	North-west, C. P. K. Lake Champlain & St. Lawrence. do do do do do	,		20,000 00 10,000 00 6,000 00 15,000 00	120	00 000 (527	225,000 00
:::	Lower Laurentian. Massawippi Valley do					40,000 00	25,000 00
Township of Melbourne and Brompton Gore	Missisquoi & Black River Valley, now in Atlantic and North-west, C. P. R.					25,000 00 20,000 00	65° 660° 660° 660° 660° 660° 660° 660° 6
Ormiston, &c. Municipality of Rigaud Municipality of Rigaud	Champlain d Ottawa			2,000 800 90	21,774 00	20,000 00	85,000 00
	Montreal, Portland and Boston			15,000 00	2,800 00		
Town of Sorel. Village of Boucherville. do Varennes Parish of St. Roch.	Montreal and Soreldo do do do			12,('00 00 600 00 1,000 00 500 00	14,100 00		

		450,000 00																					- 528,000 00	15,000 00	1,393,000 00
		450,000 00		-		-				20,000 20,000 20,000 20,000	63,000,00	25,000 00	20,000 00	98 88 88 88	30,00	15,000	10,000	15,000 00	25.00 25.00 30.00 30.00	15,000 00	88	10,000 00		15,000 00	
101 000 00		103,000 00							25,000 00														25,000 00		429,674 00
100,000 00 1,000 00	25,000 00 25,000 00 25,000 00 3,000 00							90	20,000,00	:	:			:							:				
		:							2.434.000 00			:							:		:				2,434,000 00
			1,000,000 00	1,000,000 00 100,000 00 200,000 00	8,80 90,90 90,90 90,90	12,000 00 12,000 00	10,000 00 15,000 00	10,000 00 25,000 00																	
nction		John	Ottawa and	: : :	. : :	- : :	දෙද	: : 응용	op	:	:						:		:			: : : : : : : : : : : : : : : : : : : :		og, now Atlan-	
Pontiac Pacific Junctiondo	Quebec Central do do	Quebec and Lake St. John	Quebec, Montreal, Occidental	- පිහි	900	ි පි	, 00 00	မှမ	op	South-Eastern		op -	9-6	: : : :	ор.	: : :::	do		ф -	9-6			Terminoconsta	Waterloo and Magog, now Atlan- tic and North-west, C.P.R.	•
			:						mil	:	:					le.							barm		
County of Pontiac	Parish of Sherbrooke. do Dudswell	City of Quebec	Montreal	do Three Rivers	St. Sauveur de Quebec.	Village of St. Thérèse	St. Jérôme	St. Scholastique	St. Jerusalem of Argenteuil	20 Brome	of Brome	Button	Fotton	West Farnham	do East do	Waterioo.	County of Drummond	Of Wickham.	Sorel	Village of Actonvale	Township of Roxton.	Shefford	3	Σ.	
County of Village of	Parish of Sherl do Dude do West	City of Qu	do Mo	88 GF.	St. Sauver	Village of	do S Village of	St. Schola	St. Jeruss	County of	Township	qo	84	Village of	ල.	용-은	County of	Township	9	Village of	Township	op	do W	Municipal	

No. 10,-STATEMENT of Aid granted to Railway Municipalities-Concluded.

	Total.	s cts.			,					00 000'09	00 000'09		100,000 00	100,000 00		
	Subscription to Shares or Bonds.	ee cts								60,000 00			100,000 00			
	Total.	• cts.		70.000.00	90000	30,300,500	23,000,00		47,500 (10	13,000 00	233,500 00	27.685 00	170 000 00		4,000 00 8,000 00	189,685 00
•	Bonus.	*	40,000 00	30,000 00	50,000 00 30,000 00		12,000 00 11,000 00	12,500 00 22,000 00 13,000 00	13,000 00		:	27,685 00	00 000 02	00 000 000		
	Total.	e cts.	:			5	2006		20,000 00		23,000 00					
	Loan.	s cts.				2, 2000 00 2000 00 2000 00			20,000 00							
	Name of Railway.		Albert, (Salisbury and Harvey)	ор	Frederictondo	*Grand Southerndo	New Brunswickdo	New Brunswick and Canada do do do	and West rick, Canada titcodiacan	St. John and Maine		Cornwallis Valley	Western Counties	74T	New Grasgow realway, 1704 and Coal Co. Stewiscke Valley and Lansdowne	
	Municipalities.		rar.	Harvey Parishes				lity of Calais do Houlton			5	County of King's	•	Digby	County of Pictou	

City of Winnipeg Conadian Pacific 200,000 00 County of Selkirk Selkirk 35,000 00 County of Selkirk 100,000 00 Town bit of St. Andrews 100,000 00 Town of Mortis 100,000 00 County of Westborne 50,000 00 County of Westborne 50,000 00 Municipality of Shoal Lake 20,000 00 An Minicipality of Shoal Lake 20,000 00 An Minicipality of Shoal Lake 20,000 00 Asskatchewan and Western 10,000 00 British 10,000 00 Gity of New Westminster 550,600 00 NORTH-WEST TERRITORIES, Wood Mountain and Qu'Appelle 25,000	MANITOBA.		-		-	-	-
Manitoba and North-western 75,000 00 50,000 00 80,000 00 80,000 00 80,000 00 600 00 600 00 Saskatchewan and Western 10,000 00 Canadian Pacific Canadian and Qu'Appelle	City of Winnipeg County of Selkirk Township of St. Andrews Town of Morris.	Canadian Pacific	•				
10,000 00	County of Westborne Town of Portage la Prairie do Minnedosa Municipality of Shoal Lake do Stratholair	Manitoba and North-western.		75,000 00 50,000 00 30,000 00 20,000 00 40,000 00	370,000 00		
Canadian Pacific.	Rapid City.	Saskatchewan and Western	:	10,000 00	215,600 00 10,000 00		
Wood Mountain and Qu'Appelle.	BRITISH COLUMBIA. City of New Westminstor		`		595,600 00 37,500 00		
		Wood Mountain and Qu'Appelle.			25,000 00		

No. 10.—Statement of Aid granted to Railways—Constructed and under Construction—by Governments and Municipalities, 195,039,963 Grand Total. 148,083,305 93 6,365,507 44 15,438,567 12 4,617,346 81 2,175,996 87 2,391,740 00 37,500 00 888888 286,674 289,685 37,500 25,000 300,000 00 2,670,500 00 Total. Subscrip-tion to Shares or Bonds. 8888 cts. cts. 167,689,434 30th June, 1893—Concluded. Total. SUMMARY. 2888888 3,056,541 233,500 (189,685 (595,600 0 37,500 0 Bonus. cts. ŝ 2,992,000 00 24,680,029 Total. 16,030,633 05 26,000 00 3,722,956 00 50,000 00 1,858,440 00 Loan. Governments. British Columbia..... Quebec Quebec New Brunswick