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SESSIONAL PAPERS

VOLUME 7

SIXTH SESSION OF THE SEVENTH PARLIAMENT

OF THE

DOMINION OF CANADA

SESSION 1896



See also Numerical List, page 4.

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OF THE

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OF THE

PARLIAMENT OF CANADA

SIXTH SESSION, SEVENTH PARLIAMENT, 1896.

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- 4. Report of the Superintendent of Insurance for the year ending 31st December, 1895.
 - Printed for both distribution and sessional papers.
- 4a. Preliminary statements of the business of Life Insurance Companies in Canada, for the year ending 31st December, 1895. Presented 2nd March, 1896, by Hon. G. E. Foster.
 - Printed for both distribution and sessional papers.
- 4b. Abstracts of Statements of Insurance Companies in Canada, for the year ended 31st December, 1895.

 Printed for both distribution and sessional papers.

CONTENTS OF VOLUME 4.

- 5a. Reports of the High Commissioner in connection with the Department of Trade and Commerce.
 Printed for both distribution and sessional papers.
- Tables of the Trade and Navigation of Canada for the fiscal year ended 30th June, 1895. Presented 24th January, 1896, by Hon. J. F. Wood.......Printed for both distribution and sessional papers.

CONTENTS OF VOLUME 5.

- 7. Inland Revenues of Canada. Excise, &c., for the fiscal year ended 30th June, 1895. Presented 9th
- 7a. Inland Revenues of Canada. Inspection of Weights and Measures and Gas, for the fiscal year ended 30th June, 1895. Presented 9th January, 1896, by Hon. J. Costigan.

Printed for both distribution and sessional papers.

7b. Inland Revenues of Canada. Adulteration of Food, for the fiscal year ended 30th June, 1895. Presented 9th January, 1896, by Hon. J. Costigan.

Printed for both distribution and sessional papers.

- 8. Report of the Minister of Agriculture for the calendar year 1895. Presented 21st February, 1896, by
- Sa. Report on Canadian Archives, 1895. Presented 24th March, 1896, by Hon. G. E. Foster.

Printed for both distribution and sessional papers.

8b. Conference on the Copyright Question. Presented 23rd January, 1896, by Hon. W. H. Montague. Printed for both distribution and sessional papers.

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- Sc. Report of the Director and Officers of the Experimental Farms, for the year 1895. Presented 6th
- 8d. Criminal Statistics for the year 1895...... Printed for both distribution and sessional papers.

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- Annual Report of the Minister of Public Works, for the fiscal year ended 30th June, 1895. Presented 26th February, 1896, by Hon. J. A. Ouimet.... Printed for both distribution and sessional papers.
- 10. Annual Report of the Department of Railways and Canals, for the fiscal year ended 30th June, 1895. Presented 6th February, 1896, by Hon. J. Haggart.
- Printed for both distribution and sessional papers. 10a. Railway. Statistics of Canada, for the year ended 30th June, 1895. Presented 30th January, 1896,
- 10b. Canal Statistics for season of navigation, 1894. Presented 30th January, 1896, by Hon. J. Haggart. Printed in No. 10.

CONTENTS OF VOLUME 8.

- Annual Report of the Department of Marine and Fisheries (Marine) for the fiscal year ended 30th June, 1895. Presented 10th February, 1896, by Hon. J. Costigan.
- Printed for both distribution and sessional papers. 11a. Annual Report of the Department of Marine and Fisheries (Fisheries) for the fiscal year ended 30th June, 1895. Presented 28th February, 1896, by Hon. J. Costigan.
- Printed for both distribution and sessional papers 11b. Report of an investigation into the Pilotage System at St. John, N.B. Presented 24th January, 1896, by Hon. J. Costigan. Printed for both distribution and sessional papers.
- 11c. List of Shipping issued by the Department of Marine and Fisheries: being a list of vessels on the registry books of the Dominion of Canada on the 31st December, 1895.

Printed for both distribution and sessional papers.

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- 11d. Report of the Chairman of the Board of Steamboat Inspection, etc., for calendar year ended 31st December, 1895..... Printed for both distribution and sessional papers.
- 18. Report of the Postmaster General, for the year ended 30th June, 1895. Presented 23rd January, 1896,

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- 14. Annual Report of the Department of Indian Affairs, for the year ended 30th June, 1895. Presented 7th February, 1896, by Hon. T. M. Daly. Printed for both distribution and sessional papers.

CONTENTS OF VOLUME 11.

- 15a. Supplementary Report of the Commissioner of the North-west Mounted Police Force, 1895. Presented 16th April, 1896, by Hon. T. M. Daly... Printed for both distribution and sessional papers.
- Report of the Secretary of State of Canada, for the year ended 31st December, 1895. Presented
 23rd March, 1896, by Sir Charles Tupper..... Printed for both distribution and sessional papers.
- 16a. Civil Service List of Canada, 1895. Presented 17th January, 1896, by Hon. J. A. Ouimet.

 Printed for both distribution and sessional papers.
- 16b. Annual Report of the Department of Public Printing and Stationery of Canada, for the year ending 30th June, 1895, with a partial report for services during six months ending 31st December, 1895. Presented 9th March, 1896, by Hon. Sir Charles Tupper.

Printed for both distribution and sessional papers.

- 16c. Report of the Board of Civil Service Examiners for the year ended 31st December, 1895. Presented 20th March, 1896, by Sir Charles Tupper Printed for both distribution and sessional papers.
- Report of the Minister of Justice as to the Penitentiaries of Canada, for the year ended 30th June,
 Presented 7th February, 1896, by Hon. A. R. Dickey.

Printed for both distribution and sessional papers.

Report of the Department of Militia and Defence of Canada, for the year ended 30th June, 1895.
 Presented 30th January, 1896, by Hon. A. R. Dickey.

Printed for both distribution and sessional papers.

30. Statement showing the bounty paid on steel billets, manufactured in Canada, from 31st March, 1895, to 31st December, 1895. Presented 17th January, 1896, by Hon. J. F. Wood.

Not printed.

- 81. Statement showing the bounty paid on pig iron manufactured in Canada, from 4th April, 1895, to 9th January, 1896, and quantity produced. Presented 17th January, 1896, by Hon. J. F. Wood.
 Not presented.
- 28. Statement of all superannuations and retiring allowances in the civil service during the year ended 31st December, 1895, giving name, rank, salary, service, allowance and cause of retirement of each person superannuated; also whether vacancy filled by promotion or new appointment, and salary of any new appointee. Presented 17th January, 1896, by Hon. G. E. Foster...Not printed.

- 26. List of public officers to whom commissions have issued under chapter 19 of the Revised Statutes of Canada, during the year 1895. Presented 17th January, 1896, by Hon. J. A. Ouimet.

Printed in No. 16.

- 87. Report of the Commissioner of Dominion Police, for the year 1895, under Revised Statutes of Canada, chapter 184, section 5. Presented 17th January, 1896, by Hon, T. M. Daly. ... Not printed.

- 80. Statement in reference to fishing bounty payments for 1894-95, required by chapter 96 of the Revised Statutes of Canada. Presented 20th January, 1896, by Hon. J. Costigan...............Not printed.
- 81. Return of orders in council which have been published in the Canada Gazette and in the British Columbia Gazette, in accordance with the provisions of section 38 of the regulations for the survey, administration, disposal and management of Dominion lands within the 40-mile railway belt in the province of British Columbia. Presented 21st January, 1896, by Hon. T. M. Daly. Not printed.

- 88a. Return to an order of the House of Commons, dated 10th June, 1895, for a return showing: 1. Number of manufacturing industries in the town of Wingham, specifying the name of each and name of proprietor. 2. Number of hands employed in each factory. 3. The value of the output of each factory. 4. Amount of capital invested in each factory. 5. Total wages paid by each factory. 6. Value of raw material in each factory. Presented 23rd January, 1896.—Mr. McDonald (Huron).
 Not printed.

- 85a. Return to an order of the House of Commons, dated 3rd June, 1895, for a return showing all correspondence, reports, tenders received and contracts entered into for carrying mail matter between Battleford and Saskatoon, in the North-west Territories, during the past three years. Presented 24th January, 1896.—Mr. Martin.
 Not printed.
- 85b. Return to an order of the House of Commons, dated 3rd June, 1895, for copies of all petitions, letters and papers with reference to a daily mail service between Matane, in the county of Rimouski, and Ste. Anne des Monts, in the county of Gaspé. Presented 24th January, 1896.—Mr. Joncas.

- 38a. Supplementary return to No. 38. Presented 17th February, 1896.—Mr. Foster and Mr. Mulock.

 Not printed.
- 89a. Return to an address of the House of Commons to his excellency the Governor General, dated 29th January, 1896, for a return of all orders in council and official correspondence, and all other documents, not already laid on the table of this house, in reference to the Manitoba school question. Presented 6th February, 1896.—Mr. La Rivière... Printed for both distribution and sessional papers.

- 896. Return to an address of the House of Commons to his excellency the Governor General, dated 16th March, 1896, for copy of the report made by his honour the lieutenant governor of the Northwest Territories to his excellency the governor general respecting the bill intituled: "An ordinance to amend and consolidate, as amended, the ordinances respecting schools," passed by the legislative assembly at its last session, and which was reserved for the assent of his excellency; any order in council or report made in respect thereof and the said bill. Presented 26th March.
- 89c. Report of the commissioners appointed to confer with the government of Manitoba on the subject of the schools in that province. Also extracts of reports of the committee of the honourable the privy council of the 17th and 27th March, 1896, with reference to the appointment of a commission to confer with the government of the province of Manitoba on the subject of the schools in that province. Presented 6th April, 1896, by Sir Charles Tupper.

Printed for both distribution and sessional papers.

- 40. Return to an address of the House of Commons to his excellency the Governor General, dated 8th July, 1895, for copies of all petitions, correspondence, documents, or other papers from the electors of the riding of South Renfrew, or any one or more of them, or any other person, addressed to the governor general or the minister of railways, in reference to the closing of the railway station at Barry's Bay, a station on the Ottawa, Amprior and Parry Sound Railway, in the county of Renfrew, and for papers or correspondence, as above, containing complaints of any persons against the said railway company, for inconvenience and business losses occasioned by the closing of said railway station, and for papers or correspondence, as above, complaining against the action of said railway company, so largely assisted by government moneys, for inconveniencing and injuring public business, in attempting to coerce an individual into giving the company land or privileges which the company could not obtain by action at law. Presented 6th February, 1896. - Mr. Casey.
- 41. Return to an address of the House of Commons to his excellency the Governor General, dated 27th January, 1896, for copies of correspondence by letter or telegram between the government and Sir Charles Tupper, Bart., concerning his present visit to Canada. Presented 7th February, 1896.— Mr. Casey. Not printed.
- Return to an address of the House of Commons to his excellency the Governor General, dated 29th January, 1896, for copies of all petitions, applications, letters, etc., asking for a commutation of the sentence of death recorded against Valentine Shortis, into imprisonment for life, and of all letters and memorials asking that the law be allowed to take its course; also the report of Mr. Justice Mathieu, and the report of the Minister of Justice, and any decision, order or warrant dealing with the said case. Also a statement showing whether any petitions for commutation of the death sentence were submitted to council, and, if so, what decision (if any) was arrived at in regard thereto. Also for copies of any correspondence between his excellency the governor general and the colonial secretary, whether by cablegram or otherwise, on the same subject. Presented 11th February, 1896.—Messrs. Bergeron, Mulock and Davies.
- Printed for distribution only. 48. Report of the Board of Visitors for the Royal Military College, for the year 1895. Presented 12th
- 48a. Report of Mr. Sandford Fleming, C.M.G., a member of the Board of Visitors of the Royal Military College. Presented 25th March, 1896, by Sir Adolphe Caron......Printed for distribution only. 486. Letters from the Commandant of the Royal Military College, submitting remarks on the Report of the Board of Visitors of said College, and also on the Report of Mr. Sandford Fleming, C.M.G.,

a member of said board. Presented 25th March, 1896, by Sir Adolphe Caron.

Printed for distribution only. 48c. Letter and report from the general officer commanding the Canadian militia, in reference to the Royal Military College at Kingston. Presented 26th March, 1896, by Sir Adolphe Caron.

Printed for distribution only. Return to an address of the House of Commons to his excellency the Governor General, dated 3rd February, 1896, for copies of all orders in council and correspondence relating to the appointment of the Honourable E. G. Prior, and of the Honourable John F. Wood, to the privy council of Canada; and copies of the commissions or instruments appointing them to the privy council, and appointing them also to the respective offices which they now hold in the administration. Pre-

- 46. Return to an address of the House of Commons to his excellency the Governor General, dated 27th January, 1896, for a statement showing the names of all persons appointed to any positions in connection with the customs at Toronto since 1st July, 1891, with dates of appointments and salaries of such appointees. Presented 17th February, 1896.—Mr. McMillan...... Not printed.
- 47. Return to an address of the House of Commons to his excellency the Governor General, dated 10th February, 1896, for copies of the order in council appointing the Hon. Désiré Girouard one of the judges of the supreme court of Canada. Presented 17th February, 1896.—Mr. Tarte.

Not printed.

A. 1896

- 50. Return to an order of the House of Commons, dated 10th June, 1895, for copies of all papers and correspondence connected with the part ownership of the Moose Jaw town site by the government of Canada, including a statement of the amount of money received by the town site trustees, the amount received by the government of the Dominion, the number of lots still held by the Dominion government, and the amount of taxes paid annually by the government since Moose Jaw was erected into a municipality. Presented 24th February, 1896.—Mr. Davin.

Not printed.

- 54. Return to an order of the House of Commons, dated 10th February, 1896, for a full return of the census of the North-west Territories recently taken by the mounted police, showing the number of male and female inhabitants in each division and showing boundaries of divisions. Presented 27th February, 1896. Mr. Martin.
 Not printed.

- 58. Return to an order of the House of Commons, dated 17th February, 1896, for copies of all letters, petitions, correspondence or documents of any nature whatsoever, asking the government to take the necessary steps to secure the ownership of the Raie des Chaleurs Railway, with a view to making it a branch of the Intercolonial Railway. Presented 9th March, 1896.—Mr. Joncas.

Not printed.

- •1. Report upon the Sweating System in Canada. Presented 13th March, 1896, by Sir Charles Tupper.

 Printed for both distribution and sessional papers.
- 61a. Supplementary return to No. 61. Presented 24th March, 1896.
 - Printed for both distribution and sessional papers.

- 66. Return to an order of the House of Commons, dated 16th March, 1896 for a copy of the list of electors for the constituency of Yale and Cariboo. Presented 23rd March, 1895.—Mr. Martin.

Not printed.

- 67. Return to an order of the House of Commons, dated 27th January, 1896, for a return showing: The number of employees on the Intercolonial Railway on the 30th June last, distinguishing between temporary and permanent employees. The number of miles of railway operated at same date. The number of stations and stationmasters. The number of cars put on the line during the fiscal year ending 30th June, 1895, and charged to working expenses. The number of engines put on the line and charged to working expenses. The number of cars put on and charged to capital account The number of engines put on and charged to capital account. The number of tons of new rails put down and charged to working expenses. The number of tons put down and charged to capital account. The number of ties put down and the number charged to working expenses and capital account respectively. The number of bridges repaired or put in and charged to capital account and the number put in or repaired and charged to working expenses. The number of overhead bridges renewed and charged to working expenses and the number to capital account. The amount spent on fencing and charged to working expenses and the amount charged to capital account. The total amount spent on new buildings of any kind along the line, and the portion charged to capital account and working expenses respectively. The total amount spent in repairs of buildings and the amount charged therefor to capital account and working expenses respectively. The amount spent on drains, ditches and culverts along the line, over and above what was done by section-men, and the portion thereof charged to working expenses and the portion to capital account. Presented 23rd March, 1896.—Mr. McMullen and Mr. Davies......Not printed.
- 68a. Supplementary return to No. 68. Presented 26th March, 1896.—Mr. McMullen......Not printed.
- 70. Return to an order of the House of Commons, dated 9th March, 1896, for a detailed statement of the cost of the Freight Rates Commission. Presented 23rd March, 1896.—Mr. Martin...Not printed.
- Detailed statement of correspondence between the high commissioner's office in London, and the privy council office, 1880 to 1896. Presented 23rd March, 1896, by Sir Charles Tupper

Not printed.

- 71a. Detailed memorandum showing the nominal value and actual cost of the Canadian silver and copper coinage, procured through the high commissioner, between the years 1883 and 1895, inclusive, and also the saving effected. Presented 24th March, 1896, by Sir Charles Tupper. ... Not printed.
- 72. Statement of the affairs of the British Canadian Loan and Investment Company, on the 31st December, 1895. Presented 23rd March, 1896, by the Hon. The Speaker Not printed.
- 78. General statements and returns of baptisms, marriages and burials in the districts of Montmagny and Ottawa, for the year 1895. Presented 23rd March, 1896, by the Hon. The Speaker.

Not printed.

74. Copy of the Joint Report of the Commissioners appointed under Article I of the Convention between the United States of America and the United Kingdom of Great Britain and Ireland, for the delimitation of the boundary line between the United States and the Dominion of Canada, dividing Alaska from British Columbia, together with an approved minute of council thereon of 25th February, 1896. Presented 25th March, 1896, by Sir Charles Tupper.

Printed for both distribution and sessional papers.

- 77. Return to an order of the House of Commons, dated 3rd February, 1896, for a copy of the report of the engineer appointed to examine and report on the state of the breakwater at Tignish, Prince Edward Island, during the year 1895. Presented 2nd April, 1896.—Mr. Perry......Not printed.

- 81. Return to an order of the House of Commons, dated 16th March, 1896, for a return showing the name of each licensee to whom fishing licenses were granted by David Sharp, of Port Dover, Ontario, fishery overser, for the years 1894 and 1895, together with the amount received for each license so granted in the years 1894 and 1895 aforesaid. Presented 13th April 1896.—Mr. Charlton.

 Not printed.
- Interim report on the effect of the Chicago drainage channel on the levels of the great lakes.
 Presented 13th April, 1896, by Hon. J. Costigan.

Printed for both distribution and sessional papers.

- 88. Return to an order of the House of Commons, dated 16th March, 1896, for copies of all papers relating to the sale of lots numbers fifteen and sixteen, on the west side of Cayuga street, in the village of Cayuga, in the province of Ontario, to W. A. Mitchell, or any other person, including copy of petition and signatures, asking for the sale of said lots; also information as to whether at any time in the past, application has been made to the government for permission to use the said lots as a burial place, and whether permission by the government or any official of the government, was given for the use of the said lots for such purpose; also whether the government at the time the said lots were sold was aware that they had been used as a burial place, and that several hundred bodies were buried there. Presented 13th April, 1896.—Mr. Charlton ... Not printed.
- 84a. Supplementary return to No. 84. Presented 22nd April, 1896.—Mr. McShane... Not printed.
- 86. Return to an order of the House of Commons, dated 25th March, 1896, for copies of all papers and correspondence between E. Adams, formerly inspector of boilers, etc., at Kingston, and now chairman of board of steamboat inspectors, and the department of marine and fisheries, relative to any complaints by said Adams against T. Donnelly, hull inspector at Kingston, or relative to his discharge of the duties of that office. Presented 20th April, 1896.—Mr. BordenNot printed.

- 89. Return to an order of the House of Commons, dated 10th February, 1896, for a statement of the sums appropriated by parliament for improving the navigation of the St. John river, New Brunswick, and its tributaries, during the years from 1887 to 1895, inclusive; also statement as to what amount of such appropriation was annually expended in such improvements in said river and its tributaries during the same period, together with memorandum as to what points in said river

CANADA

REPORT

OF THE

MINISTER OF PUBLIC WORKS

ON THE WORKS UNDER HIS CONTROL

FOR THE FISCAL YEAR ENDED 30TH JUNE, 1895

Submitted in accordance with the Provisions of Chapter 36, Section 37, of the Revised Statutes of Canada

PRINTED BY ORDER OF PARLIAMENT



OTTAWA

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

1896

[No. 9-1896.] Price 20 cents.

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

MAY IT PLEASE YOUR EXCELLENCY:

The undersigned has the honour to lay before Your Excellency the Report of the Department of Public Works, for the fiscal year ended 30th June, 1895.

Respectfully submitted,

J. ALD. OUIMET,

Minister of Public Works.

OTTAWA, 12th February, 1896.

ALPHABETICAL INDEX

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do do	• • • • • • • • • • • • • • • • • • • •	Public buildings &c	xviii xviii	5, 3 5, 10, 35, 25
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ďο		Translators' room, Sussex street.		6, 25
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de	0	Navigation opens, &c	xiii	21
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	orough	Repairs to wharf	xv	14, 5
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Pelée I	alanda	Telegraph lines, &c.	vii vviii	21, 217, 23
Pembro	oke	Post office, &c.		6, 11, 25
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Percé.		. Navigation opens, &c	xiii	21
Peterb	prough	Navigation opens, &c		6, 11, 25
0	io	Slide repairs		15
Potit C	wa River	Dams, slides, booms, &c		19, 15
Petit (Can	Boat landing.		2 1
Petite :	Rivière (St. Francois)	Removal of boulders	xx	16, 7
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Phillip	sburg	Pier Dredging		1
Pickeri	ng Harbour	Dredging		19, 11
	N.S	. Custom-house	<u>-</u>	3, 8, 25
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de)	Navigation opens, &c	xiii xvi	21 3, 2
do	Island	Post office, &c. Wharf repairs.	XV	14, 5
lers		Below Quebec	1 1	, i
Pinette	9	Repairs to pier	xix	15, 7
cointe	du Chene	. Wharf. &c., extended	l xivi	15, 18, 62, 9
Point 1	Edward	Immigration building.		6, 25
Pointe	aux Esquimaux	Boat landing		1
	St. Pierre			j
Pond C	Preek	Bridge repairs	xxii	20, 1
ortage	e du Fort	Bridge	l xxiil	20, 18
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do do	*****************	Immigrant building		17, 1
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ort D	aniel	Repairs to pier		16, 7 21
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ort E	lgin	Dredging, &c.	1	17, 19, 19
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		Dredging do	xvi	18, 9
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rinting Bureau	Expenditure &c		5,
roperty	. Purchased and sold	x	, 1
do	Leased	xiii	1
do Ottawa	Generally Repairs, &c.	1V	£ 33 6
uaco	Repairs to dam	vii xiv	5, 33, 2 15,
uamichan	Indian office		10,
uebec	Citadel buildings	xx	4, 9, 30, 2
dodo	Civil service exam. office		
do	Clerk or Works office. Culler's office	xx	4, 9, 2 4, 9, 30, 2
do	Custom house	XX	4, 9, 30, 2
do	Dredging		18, 1
a o	Drill hall		
do	Engineer's office. Examining warehouse		4, 2
do	Harbours generally		4
ao	Hmmigrant huilding		4
do	Navigation opening and closing of	l viiil	
dodo	Observatory Post office, wing, &c		4, 9, 3
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ao	Queen's wharf, building		4, 9, 2
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ainy River	Construction		,
do			
ed River		xiii	19, 1
egina	Clerk of works office		7, 12, 2
do	Post office		7, 13, 2
do do	Court house, &c	xv	7, 12, 38, 2
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do	Governor's residence.	xv	7, 12, 38,
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chmond	Immigration building	AAI	20, 2
do	. Public building	xxi	4,
deau Hallmouski	Ottawa	xviii	6, 33,
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ver Beaudette	Clearing channel		4 ,
do du Lièvre	Protection to dom	xx	16,
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ver des Prairies	Improvements to wharf.		
uo au sua	Protection work	1 **	16,
do Grande Dergeronne	1	1	
do Mackinac	Clearing channel Improvements	[·····	İ
uo mauawaska	KAnaira to slide	1 1	1
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do Uttawa (above Pembroke) do Richelieu	Channel improvements		
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do do (Isle Gros Bois)	Head gates.		19, 1

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Roberval	Pier, repairs	xx	16, 76
Rondeau Harbour	Repairs to landing pier		17, 80
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. Stephen, N.B	Post office, &c		3, 9, 2
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Vinnipeg	Architect's office	····	6, 2
do	Crown Timber office	· · · · · · · ·	6, 2
do	Custom-house	j	6, 11, 2
do	Dominion Lands office		6, 11, 2
do	Engineer's office		6, 12, 2
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do	Indian office		7, 12, 2
do	Inland Revenue office		7, 2
do	Military buildings		7, 2
do	Navigation opens, &c	xiii	2
do	Post office, &c		7, 12, 2
do	Public buildings	xiii	6, 11, 37, 2
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DEPARTMENT OF PUBLIC WORKS,
OTTAWA, 27th January, 1896.

The Honourable J. A. OUIMET,
Minister of Public Works,
Ottawa.

Sir,—I have the honour to submit to you the report of the operations of the Department of Public Works for the fiscal year ended on the 30th June, 1895.

The various services under the control of the department, consist of:—The construction and maintenance of harbour and river improvement works, public buildings, and telegraphs. These have been well looked after by the chiefs of the several branches whose duties are to report upon the works necessary to be done during the fiscal year, under the several appropriations voted by Parliament, carry out the works of construction, repairs and maintenance ordered from time to time under the authority of Parliament and the instructions of the Minister, and certify all accounts and estimates for the works so executed.

HARBOURS AND RIVERS.

The branch referring to harbours and rivers improvement works, which is under the direction of the Chief Engineer of the department, covers the construction of all docks, breakwaters, piers and landing wharfs over the entire Dominion, the maintenance and repairs of the same, the dredging of the several harbours and rivers under the control of Canada, as well as the maintenance of and repairs, to slides, booms and other works used and constructed for the passage of lumber from the lumber manufacturing grounds to the several shipping points in Canada. The importance of the duties connected with this very extensive branch of our operations may well be judged of by the fact, that they have extended during the last fiscal year over one hundred and twenty different points in Canada, and that dredging has been performed at forty nine different places, including the maintenance of that great avenue of trade and commerce, the River St. Lawrence between Montreal and Quebec, the total number of cubic yards of excavated material removed approximating, in round figures, 1,200,000 yards. This work of dredging was executed with a plant comprising nineteen dredges, sixteen tugs, fifty-six scows, three stone lifters and one snag boat.

DREDGING.

The materials excavated, comprise all possible varieties from hard pan and large boulders in the Ship Channel at Barre à Boulard, where the average cost was 54\frac{3}{4} cents per yard, to sand, clay and mud on the River Kaministiquia, where the cost of removal only averaged 8\frac{1}{6} cents per yard. The demand for dredging this year was very large, owing to unprecedented low water in the harbours and rivers, especially in Ontario, where the water level had been reduced in some places as much as three feet. This state of things created great difficulty for vessels enter ing several of the harbours, where the depth at the entrance has been maintained by periodical dredging, to the level required by the trade. Relief was given in as many places as was possible with the plant, and the appropriations at the disposal of the

department. The total expenditure on dredging was \$111,569.70, not including the work on the Ship Channel between Montreal and Quebec, where the expenditure was \$89,929.81.

WHARFS AND PIERS.

The sum expended in the construction of new works or in partly rebuilding or extending existing wharfs and piers was, during the last fiscal year, \$456,841.37 and that expended on repairs, \$67,220.07. The repairs needed on existing works are extensive and require more than the amounts which it is possible to place at the disposal of the department each year. Such is the case especially in some parts of the Maritime Provinces where the suddenness and terrible force of autumn and spring gales, together with the ravages of the teredo and limnoria worms, tend to weaken in a comparatively short time, the strongest works and place them in a state of decay which subsequently commands a large expenditure for repairs and mainte nance. The damages caused by these terrible worms, the teredo and limnoria, have been observed on several of the new works, where timbers were considerably eaten up after a period of barely six months, and were rendered too weak to be of much use after a period of eighteen months or two years. The timber becomes perfectly honey-combed, its diameter is reduced by one half or more and its power of resistance in a short time is practically gone. A heavy storm will then come and the work is wholly or partially swept away. This danger has, of late, been partly obviated by the use of creosoted timber, but the fact that the timber in question is not manufactured in Canada and has to be procured in the United States, nearly doubles the cost of the work, while at the same time it prevents the use of our native timber.

It is therefore to be hoped that Canadian enterprise will be directed towards the establishment of that industry in our own country.

In Western Canada, most important works have been carried on and completed, especially at Goderich, Owen Sound and Toronto. At the latter place the eastern entrance is nearly finished, only a short length of one of the side piers requiring to be levelled and planked to make the whole work complete. This important structure, which has been designed to give a sixteen feet channel into the harbour of Toronto, has been successfully carried out by Messrs. Murray & Cleveland, under the active and careful superintendence of the resident engineer.

In this province, as well as in the province of Quebec, the province of Manitoba and in the North-west Territories, the existing works have been cared for and maintained as far as the means at the disposal of the department rendered it possible.

FRASER RIVER, B.C.

In British Columbia, a considerable sum of money has been expended for the improvement of the harbours and navigable rivers of that province, and especially the Fraser River, where a problem of considerable magnitude will have to be met and disposed of by the department. The channel of this river, mainly towards its mouth, has been undergoing important changes especially after the very heavy freshets which caused so much damage during the last two years. The submarine dams made up of brush mattrasses, which had been constructed and sunk to direct the current of the river and preserve the channel utilized for navigation, have, it is

true, for a time fulfilled their mission and been of vast usefulness, but the enormous flow of water, caused by the freshets, the scouring of the bottom and the erosion of the very friable banks of the river, have opened new ways for the water, created new channels and disturbed the conditions of navigation to such an extent, that entirely new works and of considerable magnitude will be required to counteract the action of these disturbing elements, and give a water way which will have the permanency as well as the depth required. The department is now at work on that question which has been an object of close and careful study for many years, by the able representative of the department in British Columbia, who has supplied the Chief Engineer with well prepared reports and data which will enable him to submit a comprehensive and full report on this very important question.

The works now in existence for the descent of timber on the Ottawa, St. Maurice, Trent and Saguenay Rivers, as well as the several graving docks constructed and owned by the department at Esquimalt, B. C., Kingston, Ont., and Lévis, Que., have been maintained in a good state of efficiency, the dues collected for the use of these several works having been as follows:—

COLLECTION OF REVENUE.

Gross c	ollections f	or the year 1894	-95	\$101,864	27
Net	do	do		90,302	85
The ex	penditure f	or the same peri	od has reached a		
			••••	83,081	5 0
So that the excess of the gross revenue for the year					
ove	er the expe	enditure has been		18,782	77
And th	at of the n	et revenue	•••••	7,231	35

SLIDES AND DOCKS.

The excess of revenue over expenditure is especially noticeable in the returns for the Ottawa and St. Maurice Districts, but as regards the graving docks, outside of Lévis where the collection was \$13,995.19 and the expenditure \$8,321.62, it must with regret be stated that the revenue has fallen far short of the previous year. At Esquimalt the competition of smaller docks at various points on the coast, together with the fact that since the construction of the dock, the Imperial war ships do not pay any dockage dues, but only the ordinary expenses, have reduced the returns very materially.

At Kingston, on the complaint of the vessel owners that the high rates were prohibitive and prevented the use of the dock by a large number of vessels, the rates have been reduced as an experiment for one year, but the reduction in question, which has naturally had for a result a serious decrease in the returns, has not been met by a corresponding increase in the number of vessels using the dock. It would therefore appear advisable to restore the old rates, in order to make the dock, as heretofore, as self-supporting as possible.

The slide at Alma, on the Saguenay River, not being any more utilized for the passage of timber, will require to be abandoned, as it is the cause of yearly expenditure without returns for its use, and as there is no likelihood of its ever being required in the future.

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It is gratifying to state that all the dues accrued on the revenue producing works during the year, have been collected.

PUBLIC BUILDINGS.

The total amount expended in connection with the branch of the department which relates to the construction and maintenance of the public buildings under the supervision of the Chief Architect, was \$760,617.33. The new buildings which had been commenced previous to the fiscal year under review, viz., the post offices at Lunenburg, N.S., Chatham, N.B., Smith's Falls, Ont., the court house at Wolseley, N.W.T., the Lazaretto at Tracadie, N.B., and the drill hall at Toronto, have been completed and are occupied, with the exception of the Lazeretto, which is now being fitted up with the required furniture, and will be occupied probably next month.

The drill hall at Toronto, an imposing structure, the cost of which was in the neighbourhood of \$300,000, exclusive of the site which was given by the city, was constructed in a remarkably quick and successful manner by the late John Stewart, contractor of Ottawa. The building is built of brick with stone dressings and is 300 feet long by 183 feet wide.

The main hall for drilling purposes is 280 feet long by a width of 125 feet. In the centre of the south side of the building are the officers' quarters, 47 by 50 feet and four stories in height. The roof is of iron, covered with galvanized iron, and there are armouries on both sides of the building, two stories high. The building is lighted by electricity and is heated by hot water. The work was well executed by the contractor and will provide ample accommodation for the militia force of Toronto.

TRACADIE LAZARETTO.

The lazaretto at Tracadie, will provide quarters infinitely better adapted for the care of the lepers than the low, small and rickety buildings in which the Rev. Sisters in charge, and their patients, have lived since the establishment of the leper quarantine at Tracadie. The first lazaretto was built in 1844, on Sheldrake Island, in the Miramichi, when twenty lepers were admitted. It is stated that before that date, at least fifteen persons had died in the district, making at least thirty persons who contracted the disease, during a period of fifteen years, the first leper having died in 1828. This shows, how necessary was the establishment of the quarantine, as a means of checking and stamping out this disease. For many years it was confined to Tracadie, but now only one-third of the patients are natives of that place, the others coming from surrounding districts and parishes.

The Lazaretto was transferred to Tracadie in 1849, but the buildings were destroyed by fire in 1852, and those now occupied were then erected. However the accommodation therein given, was so contracted and so out of keeping with the work required to be done, that upon the very strong representations of the Rev. Mr. Babineau, chaplain of the Lazaretto, and the medical officer, Dr. Smith, to the Minister of Agriculture, a vote was obtained from Parliament and the present building commenced in May, 1894. The work was pushed with such vigour that the contract was finished in October last, and there is every hope that in a month or so the Reverend Religieuses in charge will be able to occupy the building with their patients.

Beyond furnishing better accommodation for the patients and the Sisters, whose self-sacrificing spiritin taking care of one of the most repulsive forms of suffering humanity, is beyond all praise, the better quarters now offered will be an incentive to persons suffering from the disease to enter the lazaretto, where they will receive better treatment and more comfort than they can find in their own houses, and thus by absolute segregation the disease will be circumscribed, and within a certain period it is hoped will eventually disappear.

The number of lepers now in the lazaretto is 20, 14 males and 6 females.

POST OFFICE, VICTORIA.

During the fiscal year, four new buildings were commenced by the department, viz., the post offices at Pictou, N.S, Rimouski, Que., Victoria, B.C., and the drill hall at Halifax. The two first buildings are of the type of similar buildings already constructed by the department and will be completed during the next fiscal year. The new post office at Victoria is of grander proportions and has been designed to meet all the requirements and to house under the same roof all the various public services in the city, with the exception of public works and marine, which will remain in the present custom house building. The building is to be constructed of cut stone and the length of the principal or main portion will be135 feet by a width of 73 feet and four stories in height. Extending from the main building will be the examining and bonded warehouse, 100x37 feet, two stories in height. The roof is to be of wood with copper covering. The ground floor and part of the basement will be occupied by the post office, the first floor by the customs and savings bank, and the second floor by the inland revenue and post office inspectors' offices. The building will be heated by hot water and as designed will give ample accommodation for all departmental requirements. It is constructed on the block of land inclosed by Government and Wharf streets and a lane running along the rear end of the lot-

DRILL HALL, HALIFAX.

The drill hall at Halifax is very much similar in type to that constructed at Toronto, except that it is to be built of stone—that material being procurable at an easy distance and to the total cost not presenting a material difference with that of a building of brick and stone. Its length will be 303 feet and width 156 feet. The hall for drilling purposes will be 250 feet in length by 110 feet in width, and the officers' quarters will be 65 feet by 20 feet and four stories in height. The roof will be constructed of iron, with galvanized iron covering and there will be armouries on one side of the building, two stories in height. The work will be done by Mr. John Askwith of Ottawa, and the building will stand on the lots of land bounded by Cunard, Maynard, North Park, and John streets.

MAINTENANCE OF BUILDINGS, HEATING, ETC.

The work of maintenance of the several public buildings under the charge of this department, which number about 175, has been well carried on during the past fiscal year. Several important repairs have been executed to those structures, as mentioned in the appendices attached to this report, and the various water, gas and heating services have been kept in good repair. Some seven thousand tons of coal were purchased for the heating of the buildings outside of Ottawa, while two

thousand tons were purchased for the Ottawa buildings. The price of coal is being gradually reduced, the rates for 1894-95 having been somewhat below those of 1893-94 while the reduction still keeps on for the year 1895-96. This will explain how he appropriation for heating public buildings has remained at the same amount or the years 1894-95 and 1895-96, although the number of buildings has gradually increased.

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

The only important casualty this year in connection with the public buildings was the destruction by fire of the immigration building at Halifax, on the 27th January, 1895. Steps have been taken at once, jointly by the Departments of Interior, Railways and Canals and this department, to provide new buildings which will be constructed during the fiscal year 1895-96.

TELEGRAPHS.

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

	Land lines.	Cables.
	Miles.	Miles.
In Newfoundland In Nova Scotia In New Brunswick In Quebec In Ontario In British Columbia. In North-west Territories.	238 76 932 24	21 12 164 9
•	2,487	206

These several lines are under the direction and management of the Superintendent of Government Telegraphs, Mr. D. H. Keeley, who succeeded the late Mr. F. N. Gisborne in that important position. The British Columbia lines are the Ashcroft-Barkerville, the Victoria to Cape Beale, the Nanaimo to Comox and the Alberni-Nanaimo connections. The line in Ontario gives connection between Leamington, Pelée Point and points on Pelée Island. The Quebec system of telegraphs is divided into five sections, that from Baie St. Paul to Chicoutimi, the River and Gulf Line from Murray Bay to Point aux Exquimaux, the quarantine line from Quebec to Grosse Ile and the Anticosti and Magdalen Islands systems. In New Brunswick the Government lines give communication between Chatham and Escuminac, and also between Eastport and Campobello, Grand Manan, Cheney's and Whitehead Islands.

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

These lines were all constructed at various times when urgently applied for and between points where private companies did not deem it expedient nor profitable to add to their existing lines or to complete the connections required. Pre-eminently among those lines which have rendered incalculable services stands that constructed on the shore of the St. Lawrence from Murray Bay to Point aux Esquimaux in the gulf, and the cable connections uniting the mainlands of Quebec and Nova Scotia with Anticosti and Magdalen Islands. They were first built for the purpose of the fisheries and signal service and have given great assistance not only as regards the fishing industry, but also as regards the signalling of vessels coming up the Gulf and River St. Lawrence, as well as the reporting of distressed and wrecked shipping. The usefulness of those lines would, it is claimed, be greatly enhanced were they extended further down the gulf, and it has already been strongly represented that such extension is a paramount necessity, the more so as the route between Canada and Great Britain, by the Straits of Belle Isle, being the shortest, is the one more generally used. This route presents, however, in some seasons of the year certain difficulties as regards navigation, and the government has already recognized the utmost importance that every possible safeguard and aid to navigation should be afforded by the construction in the straits of lighthouses, fog-horns, signal stations, etc. It is thought, however, that, if to the great assistance already given to navigation, was added the extension of that line of telegraph eastwards, in case of accidents to vessels, help might speedily be afforded and the risk of loss of life and property greatly lessened. By computation on the chart, the distance from the present terminus of our line at Pointe aux Esquimaux to Belle Isle is 440 miles.

All the other lines in New Brunswick and Nova Scotia have been kept up to the required standard as much as practicable, but the operations have in some cases been retarded by the lack of proper means to effect the repairing of the cables whereever interruption has taken place.

REPAIRS.

At present the repairs are executed with the steamer "Newfield," which is the property of the Marine Department, and its services can only be obtained, of course, when they are not pre-engaged for their own work. Furthermore, the sudden storms in the gulf and on the Nova Scotia coasts, compelling that steamer to seek shelter often at long distances, cause great loss of time in carrying on the required renewals and repairs. Notwithstanding these drawbacks the service is kept as regular and uninterrupted as practicable, and this is done with great success conidering the difficulty which is met by the superintendent in the way above mentioned in providing the communications which the establishment of the various lines was designed to afford.

GENERALLY.

The total volume of correspondence handled by the department during the fiscal year under review, amounts in round figures to about 25,000 letters received, 17,000 letters sent and nearly 10,000 cheques issued and despatched from this department. The work all around is gradually increasing and is being performed by a staff the cost of which is less by \$15,000 than when you took office in 1892-93.

You will please hereunder find a summary of the various reports submitted by the officers in charge of the several branches of the department.

The work specially mentioned in said appendices 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, this report, and also the principal appendices, are arranged alphabetically.

ACTS OF PARLIAMENT.

TITLES:—The titles of such Acts as were passed at the last session of Parliament which have any bearing on the department, will be found in Appendix No. 5, page 179.

ART GALLERY-NATIONAL.

Two oil paintings were the additions to the collection in the gallery during the fiscal year; their titles are—

- "At the gravel pits," a diploma picture by Wm. Cruikshanks, R.C. A.
- "A Venetian bather" by the late Paul Peel, R. C. A.

The number of persons who registered their names in the visitors' book, during each fiscal year, since the gallery was inaugurated, were as follows:—

1882–83	8,261
1883–84	9,928
1884–85	
1885–86	8,792
1886–87	
1887–88	
1888–89	
1889–90	18,048
1890-91	21,289
1891–92	20,026
1892–93	16,717
1893–94	13.366
1894–95	
***	,

The Art Gallery occupies the first floor of the Victoria Hall, on O'Connor Street. The Government Fish Hatchery is in the basement, and the Fisheries Exhibit is kept on the ground floor of the same building.

The re-opening of the Fish Hatchery, during a portion of the year, may have had a tendency to increase the number of visitors.

The showing for the year is very satisfactory to all who take an interest in art n Canada.

The report of the curator is given in Appendix No. 13, page 239.

BRITISH COLUMBIA.

Buildings:—The following is a summary of the works carried out in connection with the public buildings in this province, during the fiscal year:

New Westminster, post office.—Repairs to roof, glazing, plumbing, etc.

Victoria, customs house.—Alterations, repairs, and furniture, etc., supplied.

- do marine hospital.—Drain repaired and cleaned.
- do post office, etc.—Ordinary repairing to plumbing, gas fixtures, etc.
- do new public building.—Plans prepared and contract entered into for the construction of the building.
- do new drill hall, outbuildings, fuel-rooms and other improvements provided.
- do military storehouse.—Tenders called and contract for construction entered into.

William's Head, quarantine station.—General provisions for the safety and preservation of the plant were carried out.

(See Appendix No. 2, page 39.).

HARBOURS AND RIVERS:—During the fiscal year covered by this report, extensive operations for the security and improvement of navigation were carried out as follows, viz.:—

Columbia River, above Golden.—Improvements to navigation.

Columbia River, below Kootenay

do

Columbia River, at Revelstoke.—Protection works.

Fraser River, Garry Bush

do

Fraser River, mouth of .- Jetty works.

Fraser River.—Survey of river.

Kicking Horse River.—Protection works.

Kootenay River.—Improvements to navigation.

Skeena River.—Removal of obstructions.

(See Appendix No. 3, page 82.)

DREDGING:—The work of removing Beaver and Dredger rocks in the inner and middle basins, respectively, of Victoria harbour, was continued during the year. The former has been removed to a depth of 14 feet mean low water, and a portion of the latter to the same depth.

(See Appendix No. 3, page 138.)

COLLECTOR OF REVENUE.

Mr. E. T. SMITH:—This officer, who formerly had charge of the collection of the dues pertaining to slides and booms, was this year, entrusted with the collection of the revenue from graving docks and from river works or locks, as well. The duties have been very satisfactorily performed, there being no arrears of recent origin, remaining unpaid at the end of the year. His report is contained in Appendix No. 4, page 163. It gives a detailed account of the transaction of the year as regards the income from graving docks, locks and slides and booms, etc.

CONTRACTS.

APPENDIX No. 6, page 183, contains a list of the contracts entered into by the department during the year, with the names of contractors and the amount or price paid for works, services and supplies. In the same appendix can be seen a description of all property acquired or disposed of, together with the particulars of leases made by, or to Her Majesty, by the department.

CORRESPONDENCE.

APPENDIX No. 14, page 243, is a statement wherein is shown the number of official letters sent and received by the respective branches of the department, during each fiscal year, since 1867.

DREDGING PLANT.

The following is an inventory of dredging apparatus and plant, the property of the department, which was operated by and under its direction and management, during the last fiscal year:—

In the Maritime Provinces.

The steam hopper dredge "St. Lawrence."

do do "Canada."

The dipper dredge "New Dominion" and 4 scows.

do do "Prince Edward," 3 scows and 1 water scow.

do do "George McKenzie," 3 scows and 1 water scow.

In Quebec and Ontario.

The dipper dredge "Queen," 2 scows and tug "Ottawa."

do do "Nipissing," 2 new scows and tug "St. Paul."

do do "St. Louis," 2 scows, coal scow and tug "Sensation."

The elevator dredge "No. 9," 3 scows and tug "Delisle."

The dipper dredge "Challenge," 2 scows and tug "Trudeau."

do do "Ontario," 3 scows and tug "Sir John."

Stone lifter No. 1.

In Manitoba.

The dipper dredge "Winnipeg," tug "Sir Hector," 2 scows and 1 coal barge.

In British Columbia.

The snag boat "Samson."

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

Ship Channel, River St. Lawrence.

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

NEW DREDGING PLANT:—In addition to the above, the department has in course of construction an elevator dredge for use in the St. Lawrence ship channel, and a steel tug to be used as a tender for the new dredge. This new dredge is similar in design, power and capacity to the "Laval," built last year.

The department has also in course of construction a new steel dipper dredge, for use in the Maritime Provinces.

EXPENDITURE.

ACCOUNTANT'S STATEMENT:—This statement of departmental expenditure is contained in Appendix No. 1, commencing at page 1. It shows in detail the works provided for in last year's estimates, and the gross amounts expended on each.

	The statement	may	be	condensed	as	follows.	viz. :	_
--	---------------	-----	----	-----------	----	----------	--------	---

Graving docks	24 ,680	89
Public buildings-Construction repairs, etc	738,478	00
" -Engineers supplies, heating,		
light, etc	187,968	24
Harbours and breakwaters-Construction repairs,		
staff and maintenance, etc	a543,427	5 8
Harbours and breakwatersDredging	111,569	70
" -New dredging plant,		
repairs, renewals, etc	102,353	11
Slides and booms-Construction, repairs, staff, etc	b66,060	4 3
" —Collection of dues	6,334	37
Roads and bridges-Construction and repair	19,229	7 3
Telegraph lines—Construction, repair, operation, etc.	63,146	20
Miscellaneous-Including salaries of departmental		
staff, etc	165,971	28
Total expenditure	\$2,033,219	53

aExpenditure for improving ship channel between Montreal and Quebec is included in this item.

bExpenditure for construction, and all purposes included.

Another statement by the chief accountant is given in Appendix No. 16, page 252. It shows in detail the nature of the minor expenses, annually necessary for the preservation against ordinary decay and "wear and tear" of public buildings.

GRAVING DOCKS.

Canada has three graving docks of sufficient capacity to accommodate the largest ships on the ocean, and one at Kingston on the great lakes of sufficient siz to enable any craft that can use the Welland Canal to enter it. The Pacific dock at Esquimalt, the Ontario dock at Kingston and the St. Lawrence dock at Lévis are

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

The dimensions of these docks are as follows:-

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

					F'eet
Ler	gth			.,	445
Wie	dth at	coping level			100
	do	bottom			73
	do	entrance			62
Der	oth of	water on sill at	high water	ordinary spring tides	$26\frac{1}{2}$
d	.0	do	do	neap tides	$20\frac{1}{2}$

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

	\mathbf{Feet}
Length on the floor	*280
Width do	47
Width at coping level	79
Depth	
Depth of water on sill at low water	
Width of entrance	55
(The level of Lake Ontario has a range of $3\frac{1}{2}$ feet.)	

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

THE ESQUIMALT—Completed by this department in 1887:—

	Feet
Length over keel blocks	430
Width at bottom	41
do coping level	90
do entrance	
Depth of water on sill at high water, ordinary springs	$26\frac{1}{2}$
(Spring tides rise 7 to 10 feet, neaps 5 to 8 feet.)	

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

	\mathbf{Feet}
Length	585
Width at coping level	
do bottom	72
do entrance	89 1
Depth of water on sill at ordinary spring tides	30
(Spring tides rise 6 feet, neaps 3 feet.)	

A more extended description of the graving docks operated by the department will be found in Appendix No. 3, page 143, and the revenue or income from each in Appendix No. 4, page 165.

Officials.—A list of the graving dock officials and employees, with age, date of appointment, salary, etc., is contained in Appendix No. 10, page 207, of this report.

MANITOBA.

Buildings:—Improvements, repairs, alterations etc., were carried out as follows viz.:—

Brandon, Post Office:—Plumbing repaired, furniture supplied, offices painted, etc.

do Industrial School:—Supplementary hot air heating apparatus, cistern, etc., supplied and building transferred to department of Indian affairs.

(See Appendix No. 2, page 37.)

HNAUSA WHARF:—This place is situated on the west shore of Lake Winnipeg, 82 miles from Winnipeg City. During the year a contract for the construction of a wharf 360 feet long and twenty feet wide was entered into. This wharf is being built in order to accommodate the neighbouring settlements, and to enable a small steamer plying on the lake, to land and receive passengers and freight at this point.

DREDGING:—The work of dredging the mouth of the Red River and the east channel of the same river, below the town of Selkirk, was continued by the dredge "Winnipeg" during the working season, 44,400 cubic yards were removed at a cost of \$10.288,82, or an average of 23 cents per cubic yard.

(See Appendix No. 3, page 136.)

MAJOR'S HILL PARK.

The contractor has fully maintained the reputation of this popular resort, for neutness and taste. While the natural attractiveness of the park, is being as far as possible preserved, many features of artificial beauty, and decoration are annually introduced.

(See Appendix No. 2, page 35.)

NAVIGATION—OPENING AND CLOSING OF.

DATES:—The various customs officials will again accept the thanks of the department, for the great promptness with which they responded to the circular asking for information regarding the opening and closing of navigation, and the ormation of ice, at the ports mentioned in the usual table, which is appended as Appendix No. 11, page 210. This annual record has been kept in the department since 1867 and is interesting, as it shows the open ports and the period during which some were annually closed.

NEW BRUNSWICK.

BREAKWATERS AND PIERS:—Repairs and improvements to breakwaters, piers and wharfs were carried out in this province as follows, viz:—

Buctouche—Wharf, which was destroyed by fire, was rebuilt. Cape Tormentine Works—Worm-eaten timber was replaced. Hopewell Cape—Ballast-wharf was partly re-constructed.

Negro Point, Breakwater—Stone and concrete protection works, to secure the safety of the light-house at the extremity of the work, were constructed.

Pointe du Chêne—Considerable improvements were made and the works extended.

Quaco West-Improvements to dam.

River St. John-Many improvements in the way of dredging and construction of works were effected.

Tynemouth Creek—East pier was repaired and part of a rocky ledge obstructing channel was removed.

(See Appendix No. 3, pages 59 to 65.)

Buildings:—Works in connection with the construction and preservation of public buildings were effected as follows, viz.:—

Bathurst, post office.—Repairs to waste pipes, etc.

Chatham, post office.—This building was completed and occupied.

Moncton, public building.—Hot water boilers were replaced, plumbing, plastering and floors repaired and improved.

Partridge Island, quarantine station.—Considerable necessary repairs, replacements and whitewashing was done.

Portland (St. John), post office.—A large amount of general repairs were required and effected.

St. John, custom house.—A brick partition, mantle and grate, furniture, speaking tubes, etc., were constructed or supplied.

do post office.—Repairs were made to stonework, lead flashing, plumbing, electric bells, locks, furniture, etc., and a new flag staff supplied.

do savings bank.—Terra cotta drain pipes were replaced by cast-iron pipe, etc.

Tracadie, lazaretto.—The building is nearly completed.

Woodstock, public building.—Brickwork was partly renewed, stonework repointed and some woodwork repainted.

(See Appendix No. 2, pages 27; No. 1, pages 3 and 8.)

Dredging:—Operations for the removal of shoals and bars and general harbour improvements by dredging were carried on during the fiscal year in the following places, viz.:—

Fisher and Chestnut Shoals,

York Co.,

Moss Glen-Kennebecasis River,

King's Co.,

Oromocto Shoals,

Sunbury Co.,

Pointe du Chêne,

Westmoreland Co.

(See Appendix No. 1, page 18; No. 3, page 92.)

NORTH-WEST TERRITORIES.

Buildings:—The subjoined is a summary of the works executed in connection with public buildings in the North-west Territories during the fiscal year, viz:—

Wolseley, court house.—This building has been practically completed.

Lethbridge, public building.—The building was completed and furnished with a hot-air heating apparatus.

Regina government house.—Fire protection was provided and some other necessary repairs and improvements attended to.

do court house.—Building was completed, fitted up and occupied.

Moosomin, court house.—A contract to effect some additions and improvements to the plan of the structure was entered into, and the work is nearly completed.

See Appendix No. 1, page 12 and Appendix No. 2, page 38.

NOVA SCOTIA.

BREAKWATERS, PIERS, WHARFS, ETC.:—The operations of the department towards the construction of harbour and river works in the province of Nova Scotia during the fiscal year 1894-95 may be summarized as follows, viz.:—

Babin's Cove, Richmond Co.-Winter service wharf completed.

Bass River, Colchester Co.-Wharf in course of construction.

Bear Trap, Lunenburg Co.—Channel re-opened.

Blanche Harbour, Shelburne Co.—Groin extended.

Blue Rock, Antigonish Co.—Completing stone protection work to breakwater.

Boularderie Island (Monday Point), Cape Breton Co.-Wharf completed.

Broad Cove, Inverness Co.—Re-constructing wharf.

Broad Cove, Lunenburg Co.—Repairs to breakwater.

Caribou Island, Pictou Co.-Raising causeway.

Church Point, Digby Co.—Constructing a block of cribwork to protect breakwater.

Cow Bay, Cape Breton Co.—Repairs.

Cribbin's Point, Antigonish Co.—Ballasting and repairing wharf.

Grand Etang, Inverness Co.-Harbour works.

Great Village, Colchester Co.—Repairs to wharf.

Harbourville, King's Co.-Repairs to western breakwater.

Hiltz's Narrows, Lunenburg Co.—Repairs to warping pier.

L'Ardoise, Richmond Co.—Repairs to breakwater.

Little Harbour, Lunenburg Co.-Widening channel.

Margaree, Inverness Co.-Repairing and re-ballasting breakwater.

do do —Beach protection work.

Margaretville, Annapolis Co.—Repairing breakwater.

McNair's Cove, Antigonish Co.-Close piling, etc.

Meagher's Beach, Halifax Co.—Repairing beach protection work.

Monk's Head, Antigonish Co.—Boat channel.

Nyanza, Victoria Co.—Wharf completed.

Parrsboro', Cumberland Co.—Repairs to pier.

Pictou Island, Pictou Co.-Repairs to west wharf.

Port George, Annapolis Co.—Repairs to breakwater.

Port Medway, Queen's Co.—Repairs to beach protection works.

Port Mouton, Queen's Co.—Re-building pier.

do (South-west) Queen's Co.—Repairs to breakwater.

Roseway Beach, Shelburne Co.—Renewing beach protection.

South Ingonish, Victoria Co.—Cribwork protection work.

Three Fathom Harbour, Halifax Co.—Repairs to beach protection work.

Three Island Cove, Richmond Co.-Improving channel.

Trout Cove, Digby Co.—Repairs to breakwater.

White Haven, Guysboro Co.—Repairs to canal.

(See Appendix No. 1, page 14, and Appendix No. 3, pages 46 to 58.)

Buildings:—The works conducted for the preservation, improvement and repair, of the public buildings of this province during the last fiscal year, may be briefly reviewed as follows, viz.:—

Amherst, public building.—Fire hose supplied and minor repairs effected.

Annapolis, post office.—Some minor general repairs were done.

Antigonish, post office.—Water service was provided and some repairs done. Baddeck post office.—Heating apparatus replaced and other improvements effected.

Dartmouth, post office.—A safe and some furniture supplied and incandescent light installed.

Halifax, drill hall.—Under construction.

- do Dominion building.—General repairs.
- do examining warehouse.—Elevator, drains and plumbing repaired.
- do immigration building.—Temporary accommodation provided after destruction of buildings by fire.

Lunenburg, post office.—Completed, fitted up and occupied.

New Glasgow, public building.—Furnace replaced by a Gurney double crown heater.

Pictou, post office.—In course of construction.

Sydney, public building.—Storm doors repaired.

Truro, post office.—Waste pipes and drain repaired and improved.

Windsor, post office.—Furnace snpplied.

(See Appendix No. 1, page 3, and Appendix No. 2, page 25.)

DREDGING:—The departmental dredging plant, available for work in the province of Nova Scotia, was engaged during the season at the following places, viz:—

Acadia Company's wharf,
Cheticamp harbour,
D'Escousse harbour,
Dwyer's wharf,
Eastern Passage,
Herring Cove,
Mabou harbour,
Poulamond harbour,
Salmon River harbour,
Sambro harbour,
Spry Bay harbour,
Yarmouth harbour,

Pictou Co.
Inverness Co.
Richmond Co.
Pictou Co.
Halifax Co.
Halifax Co.
Inverness Co.
Richmond Co.
Halifax Co.
Halifax Co.
Halifax Co.
Halifax Co.
Yarmouth Co.

OFFICIALS.

APPENDIX No. 7, page 193, is a list of the chief officials who held prominent positions, or are now holding the principal offices in the department. The statement covers the period from 1841 to 1896.

ONTARIO.

BREAKWATERS, PIERS, WHARFS, ETc.:—The harbour and river improvements executed in the province of Ontario, during the year covered by this report, are briefly enumerated in the subjoined list:

Burlington Channel, Wentworth Co.—Repairs to pier.

Dyer's Bay, Bruce Co.-Construction of landing pier.

Goderich, Huron Co.-Extension of piers.

Kingston, Frontenac Co.—Removal of Point Frederic shoal.

Kingsville, South Essex Co.—Repairs to landing pier.

Owen Sound, Grey Co.—Sheet-pile revetment work etc.

Port Albert, Huron Co.-Extension of piers.

Port Rowan, Norfolk Co.—Repairs to landing pier.

Rondeau, Kent Co.-Repairs to landing pier.

Sault Ste. Marie, Algoma Co .- Repairs to landing pier.

Southampton, Bruce Co.—Repairs to breakwater and piers.

Thornbury, Grey Co.—Repairs to landing pier.

Toronto Harbour, (eastern entrance), York Co.—Harbour improvements.

(See Appendix No. 1, page 17 and Appendix No. 3, page 78.)

Buildings:—The following epitome is a record of the works executed under the supervision of the department during the fiscal year, for the construction, preservation and repair of the public buildings in the province of Ontario, viz.:—

Almonte, public building.—A water tank and other requirements supplied. Amherstburgh post office, etc—Electric light installed and other conveniences furnished.

Barrie, post office. - Woodwork painted, and minor repairs.

Belleville, post office.—Store room and other improvements provided and some repairs done

Berlin, post office, etc.—Painting done, shutters supplied and minor repairs executed.

Brampton, post office, etc.—Painting, plastering, tinting, etc., done.

Brantford, post office, etc.—Painting done, plumbing, etc., improved.

Cobourg, post office, etc.—Minor repairs to building and furniture.

Cornwall, post office, etc.—Repairs to heating apparatus, etc.

Galt, post office, etc.—Painting and tinting, etc., done, cement floor, etc., renewed.

Gananoque, post office, etc.—Chimney repaired and other work of a general renovating character done.

Guelph, post office, etc.—Considerable work, to renew ordinary wear and tear was done.

Orillia, public building.—Lot fenced and graded and a plank sidewalk laid.

- Ottawa central experimental farm.—Some general repairs were executed by the staff.
 - do eastern block, departmental building.—Minor improvements were made and some necessary conveniences supplied.
 - do fisheries, museum and art gallery.—The roof covering was renewed and general repairs and improvements necessary to protect the building, effected.
 - do government house.—Extensive additions, renovations and improvements were effected.
 - do government printing bureau.—Some ventilators, pipes, wiring. etc., supplied.
 - do Langevin block.—Minor repairs to roofing and some fixtures supplied.
 - do Major's Hill park.—Some benches supplied and old ones repaired and painted.
 - do parliament buildings.—Old boilers were replaced by modern ones and many necessary conveniences supplied and some alterations made.
 - do parliament grounds.—Some desirable additions, repairs and improvements were made to the walks, etc. The snow was removed, ice stored and distributed.
 - do street maintenance.—The portion of the streets on which the public buildings are bordering have been largely maintained by the department, and were kept in the usual serviceable condition during the year.
 - do western block, departmental buildings.—One new office was fitted up and requisites of a minor nature provided in several others.
- Smith's Falls, public building.—The building was completed, fitted, furnished and occupied.
- St. Catharines, public building.—Iron and woodwork were painted and some repairs effected.
- St. Thomas, public building.—Flag staff supplied and sundry repairs made to plastering, furniture and fittings.
- Stratford, public building.—The building has been enlarged, a story added to its height, etc. The work is nearly completed.
- Toronto, drill hall.—This structure, which was described in a former report, has been completed and occupied.
- Trenton, post office, etc.—The plaster was cleaned, repaired and tinted, iron and wood painted and some requisite conveniences provided.
- Walkerton, post office.—Repairs were made to eavestroughs, stairway, etc., and yard was gravelled.
- Windsor, public building.—Sundry repairs were made to fixtures, furniture, etc.

PARLIAMENT HILL GROUNDS.

Contract:—The contractor responsible for the keeping and dressing of Parliament Hill, performed his duty in a manner entirely satisfactory to the department.

PRINCE EDWARD ISLAND.

Breakwaters, Piers, Wharfs, Etc.:—The following is a list showing in brief, the works conducted by the department, during the fiscal year, in the province of Prince Edward Island:—

Bay Fortune, King's Co.—Harbour improvements.

Bay View, Queen's Co.-Repairs to pier.

Campbell's Cove, King's Co.-Repairs to breakwater.

China Point, Queen's Co.-Repairs to pier.

Georgetown, King's Co.-Repairs to pier.

Hurd's Point, Prince Co.—Improvements.

Kier's Shore, Prince Co.-Improvements.

Lambert's Pier, King's Co.-Repairs to pier.

Miminegash, Prince Co.-Repairs to works.

New London, Queen's Co.—Repairs to works.

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

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

Rustico, do -Improvements.

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

Stephen's do -Improvements.

St. Mary's Bay, King's Co.-Improvements.

Wood Islands, Queen's Co.—Reconstruction and repair of eastern break-water.

(See Appendix No. 1, page 15; No. 3, page 66.)

Buildings:—The departmental operations in connection with the public buildings in the province of Prince Edward Island, during the fiscal year, were confined to the following:—

Charlottetown Public Building.—Repairs to electric bells, plumbing, etc.

Summerside Public Building.—Minor repairs to doors, and some walls kalsomined.

Dredging:—In 1894-95, the dredge "Prince Edward" operated for some time at Cardigan, removing 23,625 cubic yards of material; also at the Annandale pier and the wharfs at Dundas, where 24,435 cubic yards of sand and mud were removed.

QUEBEC.

Breakwaters, Piers, Wharfs, Etc.:—The operations of the department in connection with harbour and river works in the province of Quebec, during the last fiscal year, may be briefly stated as follows, viz.:—

Baie St. Paul, Charlevoix Co.-Extension of wharf and repairs to block.

Cacouna, Témiscouata Co.—Construction of wharf.

Cap de la Magdeleine, Champlain Co.—Extension of wharf.

Chicoutimi, Chicoutimi Co.-Wharf improvements.

Etang du Nord, Gaspé Co.—Repairs to breakwater.

Grandes Bergeronnes.—Removal of rocks.

Grande Décharge, Chicoutimi Co.-Extension of pontoon.

Isle Verte, Témiscouata Co.—Wharf improvements.

Lake St. John District.—Improvements to navigation.

Matane, Rimouski Co.—Repairs to pier.

Murray Bay, Charlevoix Co.-Repairs to pier.

New Carlisle, Bonaventure Co.-Repairs to pier.

Petite Rivière Saint-François, Charlevoix Co.—Removal of boulders.

Port Daniel, Bonaventure Co.-Repairs to pier.

Queen's Wharf, Quebec .- Repairs to wharf.

Rivière du Lièvre, Ottawa Co.—Protection to dam.

Rivière du Sud, Montmagny Co.-Protection works.

River St. Maurice,-Improvements to navigation.

Roberval, Chicoutimi Co.-Extension of wharf, etc.

St. Jean, Montmorency Co.—Reconstruction of pier.

St. Laurent, Montmorency Co.—Repairs to pier, etc.

St. Michel, Bellechasse Co.—Repairs to pier.

Touladie River.—Témiscouata Co.—Improvements to navigation.

Trois Pistoles, Témiscouata Co.—Improvements to wharf.

Yamaska Lock, Yamaska Co.—Repairs to dam.

Buildings:—Improvements, repairs and works necessary for the preservation utility and usefulness of the public buildings in the province of Quebec, were carried out as hereinafter stated, during the fiscal year ended 1st July, 1895, viz.:—

Aylmer, post office.—Woodwork was painted.

Grosse Ile, quarantine station.—The ss. "Challenger" was cleaned, painted and such alterations and renewals made to the scientific and disinfecting apparatus, etc., as were necessary to preserve it in good order and ready for use.

Joliette, public building.—Hot-water heating apparatus was repaired.

Montreal, custom house.—Many necessary renewals, repairs and improvements to building, fittings, fixtures, etc., were effected.

- do examining warehouse:—Some painting and repairing of a general nature were done.
- do inland revenue office:—Roof was painted, furnace altered, laboratory fitted up, etc.
- do post office: —Considerable repairs, alterations and improvements were effected.

Quebec, citadel:—The usual cleaning, painting and burnishing, previous to His Excellency's annual visit were done.

- do culler's office.—A new coil was placed in one of the rooms.
- do custom house.—Repairs of a general character were executed.
- do post office.—Heating apparatus supplied, and fittings for new wing are being provided.
- St. Hyacinthe, post office.—Some minor repairs to glazing, plastering, etc., were done.
- St. Jérome, public building.—Flag staff, porch and some windows, etc., were provided.

Sherbrooke, post office.—Painting, tinting, varnishing, cleaning, painting, etc., were done.

Sorel, post office, etc.—Repairs and renewals to water service.

West Farnham, post office.—Building was completed, fitted and occupied.

A new public building is in course of crection at Richmond, in this province. It will be a two story structure, with attic and basement, 40×40 feet, with a one story annex 40×17 feet. Material—brick on a stone foundation. It will accommodate the post office, customs, examining warehouse, and inland revenue offices, with caretaker's quarters.

On the 4th of May a contract was signed for the erection of a post office, etc., building at Rimouski. This structure will also be built of brick on a stone foundation. It will be 40×30 feet, two storys, with basement and attic, and a one story annex 26×18 feet. It will, in addition to the post office, contain the examining warehouse, customs and inland revenue offices, and the attic for the caretaker.

REVENUE.

The statement below is a summary of the revenue collected from works under the departmental control during the fiscal year:

SLIDES AND BOOMS.

Ottawa district	\$52 ,311	52		
St. Maurice district	15,755	97		
Saguenay do	9,148	74		
Total from slides and booms		 \$	77,216	23
GRAVING DOCKS.				
Lévis	\$13,995	19		
Kingston	•			
Esquimalt	•			
Total for graving docks		••••	23,193	67
TELEGRAPH LINES.				
LowerSt. Lawrence and Maritime Provinces	\$ 5,526	23		
Ontario and Pelee Island line	127	12		
North-west telegraph lines	1,771	62		
British Columbia (Comox line)	906	5 9		
Total from telegraph lines			8,331	5 6
RIVER WORKS-LOCKS.	-			
River du Liévre lock	\$ 404	30		
River Yamaska	357	78		
Arrears	674	29		
Total from river works			1,436	37
Total amount of revenue collected.	•••••	\$	110,177	88
•				

(See Appendix No. 4, page 163, and Appendix No. 12, page 220).

ROADS AND BRIDGES.

Bridges:—During 1894-95 repairs were made under the supervision of the department, to the following bridges, viz.:—

Grand River bridge, at York, Ont.

Ottawa City bridges, at Ottawa, Ont.

Des Joachims bridge, River Ottawa.

Portage du Fort bridge, River Ottawa.

Belly River bridge, at Lethbridge, N.W.T.

Old Man's River bridge, at Macleod, N.W.T.

And bridges were built at the following places, viz.:-

Pond Creek, flowing into Ottawa River, P.Q.

Cartier, River St. Louis, P.Q.

River St. Louis Feeder, P.Q.

Details of the work performed will be found in the Chief Engineer's report, Appendix 3, page 155, and the cost in Appendix No. 1, page 20.

SLIDES AND BOOMS.

Dues:—The report of the collector of revenue is contained in Appendix No. 4, page 164. It shows the total amount of revenue collected during the year from slides and booms to have been as follows, viz:—

Ottawa district	\$ 52,311	52
St. Maurice district	15,755	97
Saguenay	9,148	74

Total amount collected...... \$77,216 23

The total dues accrued during the fiscal year

\$77,216 23

Efforts are being made to collect some of the old arrears, as explained in the collector's report, but as many of the firms against whom the claims stand have ceased to exist, or became insolvent, they may in many cases he considered worthless.

PRESENT CONDITION OF WORKS:—In the report of the Chief Engineer of the department—Appendix No. 3, commencing at page 147—will be found the reports of the several officers who are in charge of and superintend the slides and booms in the various districts.

The works have, as already set forth in a previous paragraph, been maintained in a state of efficiency; many necessary repairs, reconstruction and improvements were made, with the view of preserving their usefulness and keeping those required, available, to accommodate and facilitate in the best possible manner the great lumbering industry of the country.

STAFF EMPLOYED:—A list of the slides and booms employees, showing the names, the date of birth, when employed, date of appointment, and salary of each one, is given in Appendix No. 8, page 196.

SURVEYS AND EXAMINATIONS.

During the fiscal year included in this report, surveys and examinations were made by officers, under instructions from the department, at ninety-eight different localities, in the several provinces as follows:—

British Columbia	1
Manitoba	2
New Brunswick	40
North-west Territories	2
Nova Scotia	24
Ontario	20
Prince Edward Island	15
Quebec	16

These surveys and examinations were ordered with the view of obtaining reliable and accurate information, from the report of experienced officers, touching the possibility, practicability and utility, of undertaking the construction of works, which in the public interest are either strongly recommended to, or strenuously urged upon, the consideration of the Government.

The names of the localities which were visited for this purpose, last year, will be found in Appendix No. 3, page 157.

TELEGRAPHS.

As already stated in the preliminary pages of this report, this service was maintained in a fair state of efficiency, a full report of which will be found in the superintendent's report, Appendix No. 12, page 215.

TEREDO NOTES.

The animal known as the *Teredo* or "ship worm," has been so destructive to timber structures such as breakwaters, piers, wharfs, etc., erected by the depart ment in the Maritime Provinces, that any information of a practical or scientific character, that may enable its depredations to be guarded against, cannot fail to be of interest and of great value. The paper on this subject, by Mr. E. T. P. Shewen, Resident Departmental Engineer at St. John N. B., which is appended in Appendix No. 15, page 247 and which was read before the Natural History Society of New Brunswick, is a valuable contribution to literature on this subject and is therefore annexed to this report.

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

A. GOBEIL,

Deputy Minister.

APPENDIX No. 1

STATEMENT OF EXPENDITURE

DURING FISCAL YEAR ENDED 30th JUNE, 1895

 $\mathbf{B}\mathbf{Y}$

O. DIONNE, ACCOUNTANT

(Reference No. 166388.)

APPENDIX No. 1.

STATEMENT showing the amount expended by the Department of Public Works, Dominion of Canada. during the fiscal year ended 30th June, 1895.

PUBLIC BUILDINGS. Nova Scotia. Amherst post office, &c	21,198 01	425 40 141 90 10 90 998 60	\$ cts.	9 75 57 50 113 46 425 40 141 90 1,210 90
Amherst post office, &c. Annapolis do Antigonish do Saddeck do Dartmouth do Halifax Assistant Receiver General's officerent do Dominion building do drill hall do engineer's officerent	21,198 01	425 40 141 90 10 90 998 60	1 200 00	57 50 113 46 425 40 141 90
Antigonish do Baddeck do Dartmouth do Halifax Assistant Receiver General's office—rent do Dominion building do drill hall	21,198 01	425 40 141 90 10 90 998 60	1 200 00	57 50 113 46 425 40 141 90
Antigonish do Baddeck do Dartmouth do Halifax Assistant Receiver General's office—rent do Dominion building do drill hall	21,198 01	425 40 141 90 10 90 998 60	1 200 00	113 46 425 40 141 90
Baddeck do Dartmouth do Halifax Assistant Receiver General's officerent do Dominion building do drill hall do engineer's officerent	21,198 01	425 40 141 90 10 90 998 60	1 200 00	425 40 141 90
Dartmouth do Halifax Assistant Receiver General's officerent do Dominion building do drill hall do engineer's officerent	21,198 01	141 90 10 90 998 60	1 900 00	141 90
do Dominion buildingdo drill halldo engineer's office—rent	21,198 01	998 60	1,200 00	1,210 90
do Dominion buildingdo drill halldo engineer's office—rent	21,198 01	998 60		
do engineer's office—rent	22,100 01	81.85		998 60 21,198 01
		81.85	100 00	100 00
do examining warehouse-rent		01 00	1,707 50	1,789 35
do examining warehouse—rent. do immigrant shed. do Lawlor's Island quarantine station. do penitentiary—rent. unnenburg post office, &c. Nappan experimental farm. New Glasgow post office, &c.		167 72	[167 72
do penitentiary—rent	2,042 14		0 94	2,042 14 0 24
unenburg post office, &c	6,590 14		0 24	6,590 14
Nappan experimental farm		158 81		158 81
New Glasgow post office, &c		549 95		549 95
Picton custom-house		53 23		4 70 53 23
do post office	11,971 80		1	11,971 80
Richmond immigration shed		16 00		16 00
New Glasgow post office, &c. North Sydney do lictou custom-house do post office lichmond immigration shed. sydney post office do quarantine station—Keating Point Cruro post office, &c Windsor do Verwouth do	95.07	679 47		679 47
Prize post office. &c	35 01	173 20		95 07 173 20
Windsor do		169 43		169 43
rarmouth do		98 21		98 21
Prince Edward Island.				
Charlottetown Dominion building	27 62	649 63	500 00	1,177 25
do marine hospital	103 45	13 04		3 48 116 49
Summerside do		228 01		298 28
New Brunswick.				
Bathurst post office, &c		35 18		35 18
Carleton do .		17 90		17 90
Chatham do	8,763 81	2 50		8,766 31
Dalhousie do		6 45 653 37		6 45 653 37
Parliouse do Fredericton do Moncton do Novesstle do Portland de		173 78		173 78
Newcastle do		31 60		31 60
Portland de	9 619 07	109 90 5,383 24	130 90 50 00	240 80
tortiand to Str. John custom-house do immigrant shed do Partridge Island quarantine station do post office	3,013 07	10 70	50 00	15,046 31 10 70
do Partridge Island quarantine.station	66 06			66 06
do post office	• • • • • • • • • • • • •	588 08		588 08
				577 51 57 2 5
do steamboat inspector's office	.	26 23		26 23
Tracadie lazaretto	25,925 91			25,925 91
Woodstock post office, &c		343 50		343 50
Carried forward	86,470 83	12,817 95	3,688,64	102,977 42

Brought forward. 86,470 93 12,817 95 3,688 64 102,977 42	Name of Works.	Construction and Improvement.	Repairs.	Staff and Main- tenance.	Total.
Maritime Provinces. 984 11 984 11 984 11 Quebc. Quebc. 27 75	PUBLIC BUILDINGS—Continued.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Aylmer post office.	Brought forward	86,470 93	12,817 95	3,688 64	102,977 42
Quebec Q	Maritime Provinces.			Ì	
Aylmer post office. 27 75 201 90 201	GENERALLY			984 11	984 11
Coaticook do Dunde custom-house. Grosse Ile quarantine station. Grosse Ile quarantine station. 2,031 62 Hull post office, &c. 61 94 Joliette do 26 40 Lachine do 289 94 Laprairie do Lachine do 381 50 Lavis cattle quarantine station. 381 50 381 50 do immigrant shed. 381 50 do immigrant shed. 381 50 do Donninion buildings generally. 40 Donninion buildings generally. 40 Donninion buildings generally. 40 Examining warehouse. 40 Donninion buildings generally. 40 Examining warehouse. 40 Donninion buildings generally. 41 Donninion buildings generally. 41 Donninion buildings generally. 42 Donninion buildings generally. 43 Donninion buildings generally. 44 Donninion buildings generally. 45 Donninion buildings generally. 46 Donninion buildings generally. 47 Donninion buildings generally. 48 Donninion buildings generally. 49 Donninion buildings generally. 40 Donninion buildings generally. 50 Donninion buildings generally. 51 Donninion buildings generally. 51 Donninion buildings generally. 52 Donninion buildings generally. 53 Donninion buildings generally. 54 Donninion buildings generally. 55 Donninion buildings generally. 56 Donninion buildings generally. 56 Donninion buildings generally. 57 Donninion buildings generally. 58 Donninion buildings generally. 59 Bonninion buildings generally. 50 Donninion buildings generally. 51 Donninion buildings generally.	Quebcc.				
Valleyfield post office (rent). 14 20 329 70 343 9 West Farnham post office. 481 70 481 7 Ontario. Alexandria reformatory 5,369 28 5,369 2 Almonte post office, &c. 434 40 434 4 Annerstburg do 325 25 325 2 Arnprior do 3 00 3 0 Barrie do 126 55 126 5 Belleville do 467 40 467 4 Berlin do 462 41 462 4	Coaticook do Dundee custom-house Grosse Ile quarantine station. Hull post office, &c. Joliette do Lachine do Lachine do Laprairie do Lévis cattle quarantine station. do immigrant shed. Montreal custom house. do Dominion buildings generally. do examining warehouse. do inmigration office. do inland revenue office. do inland revenue office. do do St. Lawrence street. do do St. Catherine do Quebec, citadel buildings. do civil service examination office. do clerk of works' office. do culler's office. do custom house. do Dominion buildings generally. do drill hall. do engineer's office (rent). do examining warehouse. do post office, new wing, &c. do Princess Louise quarantine building. do Queen's wharf building. Kichmond post office, &c. Rimouski do Rivière du Loup post office, &c. (Fraserville). Sherbrooke do St. Henri do St. Hyacinthe do St. John's do Three Rivers custom house.	2,031 62 7,119 23 22,954 92 1,672 90 6,000 00 797 21 95 79 222 33 60 05 3,735 15 27,962 51	201 90 118 73 61 94 26 40 228 94 115 50 381 50 142 57 296 30 1,386 90 189 30 273 61 4,894 27 113 43 13 08 1,946 83 18 00 276 47 2,192 88 11 67 525 00 65 60 1,756 21 9 17 1,424 93 242 07	338 10 417 57 132 00	27 75 201 90 118 73 2,031 62 61 94 26 40 228 94 115 50 381 50 381 50 1,386 90 189 30 273 61 27,849 19 113 43 13 08 1,946 83 18 00 259 86 40 00 276 47 1,672 90 132 00 164 72 2,192 88 117 65 60 95 79 222 33 60 05 1,756 21 1,424 93 3,3977 22 27,962 51 1,424 93 3,3977 22 27,962 51 144 75
Ontario. Alexandria reformatory 5,369 28 5,369 2 Almonte post office, &c. 434 40 434 4 Amherstburg do 325 25 325 2 Arnprior do 3 00 3 0 Barrie do 126 55 126 5 Belleville do 467 40 467 4 Berlin do 462 41 462 4	Valleyfield post office (rent)		14 20	329 70	343 90 481 70
Alexandria reformatory 5,369 28 5,369 28 Almonte post office, &c. 434 40 434 44 Amherstburg do 325 25 325 2 Arnprior do 3 00 3 0 Barrie do 126 55 126 5 Belleville do 467 40 467 4 Berlin do 462 41 462 4		-			
	Alexandria reformatory Almonte post office, &c. Amherstburg do Arnprior do Barrie do Belleville do	3 00	325 25 126 55 467 40		5,369 28 434 40 325 25 3 00 126 55 467 40 462 41
	Carried over			-	205,698 03

	Name of Works.			Repairs.	Staff and Main- tenance.	Total.	
PI	UBLIC BU	ILDINGS—Continued.	\$ cts.	\$ cts.	\$ ets.	\$ cts.	
	Broug	ght forward	164,494 82	35,313 11	5,890 12	205,698 05	
	Ontar	io-Continued.					
Brampton	, office, &c			181 18		181 18	
Brantford	do			232 60		232 60	
Brockville			2,450 00	618 33		3,068 33	
Carleton I	Place do			11 00		11 00	
Cayuga	do			62 94		62 94	
Chatham	do			18 40		18 40	
Clifton	do		· · · · · · · · · · ·	4 40	· · · · · · · · · · · · · · · · · · ·	4 40	
Cobourg	dο			288 50		288 50	
Cornwall	do	/····		265 44		396 76	
Dundas Calt	do	(rent)	· · · · · · · · · · · · · · · · · · ·	8 50	625 00	633 50	
Galt Gananoqu	do e do			603 18 · 151 30		603 18 151 30	
Goderich	do			11 10		101 30	
				1,043 67		1,043 67	
Hamilton	custom-hou	se	••••	244 35		244 35	
do	post office.	• • • • • • • • • • • • • • • • • • • •		689 54		689 54	
		e				998 13	
		ouilding (rent)			2 37	17 50	
do :	military coll	ege		6 90		6 90	
	post office			1,200 42		1,200 42	
Lindsay	do					189 00	
London cu	istom-house					1,629 72	
		ilding				12 00	
do po Lucan						1,600 65	
Napanee	do			351 42 61 52		$\begin{array}{c} 351 & 42 \\ 61 & 52 \end{array}$	
Orangevill	le do			99 52		99 5 2	
Orillia	do &c.		4.279 25			4,279 25	
Ottawa-I	Bank of Otta	wa building (rent)	.		2,720 00	2,720 00	
do	do	(lighting)			41 27	41 27	
do c	anal office.					50 38	
do c	entral cham	bers (rent).			200 00	200 00	
do c	eivil service e	examination office (rent)			412 56	412 56	
do e	examining w	arehouse (rent)			850 00	850 00	
do e	experimental	iarm	• • • • • • • • • • • • • • • • • • • •	3,907 40		3,907 40	
do g	geological ini do	useum (rent)	· • • • · · · · · · · •	2,169 78	310 00	2,479 78	
		(lighting)gallery, re-covering roof		1 616 95	654 45	654 45 3,740 00	
		canery, re-covering room			2,123 75	822 09	
do	do (li	ghting)	• • • • • • • • • • • • • • • • • • • •	622 03	2,296 19	2.296 19	
do r	orinting bur	eau		2,643 61	2,230 13	2,643 61	
do	do	(lighting).			966 50	966 50	
	do	engineer and firemen			3,432 68	3,432 68	
do 1	public buildi	engineer and firemen		103,088 39		103,088 39	
do	· do	electric light and gas	.		16,394 70	16,394 70	
do	do	grounds			5,784 33	5,784 33	
ďο	do	heating			61,383 77	61,383 77	
do	do	Langevin block		4,862 28	· · · · · · · · · · · · · · · ·	4,862 28	
do	do	do engineer and		!	10.075.09	10,675 63	
do	do				10,675 63	1,235 55	
do	do	do removal of			1,235 55	1,230 00	
	.10				400 00	400 00	
do	do	Major's Hill park			3,761 88	3,761 88	
do	do	Parliament building — re-			5,,01 55	-,	
		newal of boilers	4,901 81		<i>.</i>	4,901 81	
do	do	removal of snow			1,532 39	1,532 39	
do	do	Supreme Court (lighting)	·	165 15	74 85	240 00	
ďο	фo	do (firemen, &c.)			456 25	456 25	
do	do	telephonic service	· · · · · · · · · · · · · · · · · · ·		4,179 43	4,179 43	
	~ .	ed forward	150 0 0-	100 000 00	100 400 0-	467,898 15	

	Name	of Works.	Construction and Improvements.	Repairs.	Staff and Main- tenance.	Total.
	UBLIC BUII	LDINGS—Continued.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
	Brough	t forward	176,257 20	165,237 28	126,403 67	467,898 15
	Ontario-	Concluded.				
Ottawa,	public buildings	s, translators' rooms, Sussex			240 00	940.00
do	do	street (rent) translators' rooms, Sussex				240 00
do	do	street (lighting)			37 05	37 05
do	do	water workshops (rent, &c.)	• • • • • • • • • • • • • • • • • • • •		15,102 78 812 50	$\begin{array}{c} 15,102 \ 78 \\ 812 \ 50 \end{array}$
do	do	do (lighting)			568 65	568 65
		do (lighting) street and bridges (lighting)		• • • • • • • • • • • • • • • • • • • •	4 000 00	1,200 00
t ob	Victoria Hall	street and bridges (lighting)			14 40	14 40
Pembrok	e nost office &			26.90	11.10	26 90
Peterbox	ough custom-ho	use—fencing &c	300.00	2 00		302 00
ob	roet office	use renemb, do	000 00	194 48		194 48
Petroles	nost office &c	street and bridges (lighting) use—fencing, &c it building (rent) building &c	9 192 93	101 10		9,192 93
Point Ed	lward immigran	t building (rent)	0,102 00		2 50	2 50
Port Art	hur immiorant	building		32 66	2 00	32 66
do	and in the control in the	Are	3 159 33	02 00		3,159 33
Port Col	borno do	α.σ.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0,100 100	36.08		36 98
Port Ho	ne do	•••••		237 00		237 00
Prescott	do do	*******		52 98		52 98
Public B	mildings genera	lly			1,960 09	1,960 09
Ridean	Hall—heating	annaratus electric lighting			1,000 00	2,000 00
Itiacua .	new da	apparatus, electric lighting, iry, &clight (allowance)of snow	12,954 36	17.997 77		30,952 13
do	fuel and	light (allowance)	12,001 00	11,001	8 000 00	8,000 00
do	removal	of snow			517 50	517 50
						547 50
Smith's	Falls post office	0	14 900 07		1 1	14.328 07
Stratford	do do	(temporary)—rent	21,020	519 34	600 00	1,119 34
do	do	, &c (temporary)—rent. to make good damage by fire.		1		-,110 01
-		fire.	9,998 26	l. 	l	9,998 26
Strathro	v do		215 00	20 85		235 85
St. Cath	arines do			843 12	l. <i></i> l	843 12
St. Thon	nas do	***************************************		424 14	l	424 14
Toronto	-Assistant rece	eiver general's officeexamination office (rent)	1	382 12	l l	382 12
do	civil service e	examination office (rent)	1 <i></i>		121 23	121 23
do	custom house		1	502 66		502 66
do	drill hall	ice (rent)	32,479 95			32,479 95
do	engineers' off	ice (rent)	1		252 12	252 12
do	examining wa	arehouse	1	1,553 79		1,553 79
do						177 17
do	post office		! <i>.</i>	1,363 69		1,363 69
Trenton	post office, &c.	ne omce.		184 72		184 72
Walkert	on do .			68 02		68 02
Windsor	•			158 78		158 78
	34	anitoba.		,		
			}			
Birtle in	migrant shed .		1	15 00		15 00
Brandon	custom-house.		1	397 84		397 84
ďο	experimental f	arm].,	718 43		718 43
ďο	immigrant she	d	.]`	28 00		28 00
do	industrial scho	ol	10,642 75			10,642 75
n do	post office			305 25		305 25
		office, &c				5,249 26
		lly		100 00	827 61	827 61
	eg architect's off	ice		189 33		189 33
do	crown timoer	office		258 80		258 80
do	custom-nouse			443 04	•••	443 04
do	Dominion la	nds office, &c heating ap	0 900 00	940 40	}	0.710.40
.a.		&c		342 40	101 50	2,710 40
do	engineer's on	ice (rent)			481 50	481 50
	Camia	d forward	977 145 11	192,714 54	157,689 10	627,548 75
	Carrie	4 101 Walu	241,140 11	. 102,114 04	· 101,000 10	041,040 10

Name of Works.	Con- struction and Im- provements.	Repairs.	Staff and Main- tenance.	Total.
PUBLIC BUILDINGS—Continued.		\$ cts.	\$ cts.	\$ cts.
Brought forward	277,145 11	192,714 54	157,689 10	627,548 75
Manitoba—Concluded.				
Winnipeg examining warehouse do immigrant shed do Indian office do inland revenue office. do military store-house do post office.		237 89 36 60 3 50 37 50		72 25 237 89 36 60 3 50 37 50 492 84
North-west Territories.				
Calgary court-house, &c do immigrant building do post office, custom-house, &c.	8,009 24	150 82 30 56	300 00	198 24 150 82 8,039 80 300 00
do registry office, &c	2,009 12	188 00 55 90 10 00		188 00 2,065 02 10 00 6 20
do custom-house and court-housedo do safe	506 25			11,936 64 506 25 0 40
Macleod court-house (rent). do custom-house. Maple Creek court-house. Moose Jaw do	212 60 604 20	233 25 38 50	250 00	327 60 233 25 212 60 642 70
do post office Macleod court-house (rent) do custom-house Maple Creek court-house Moose Jaw do Moosomin do addition, &c Prince Albert do &c do crown lands and timber agents' office. do registry office. Public buildings generally. Red Deer industrial school.	5,967 66	686 15		1,819 78 686 15 5,967 66 1 88
Regina clerk of works office (rent)		38 50 203 11	25 00	1,245 96 782 00 63 50 203 11
do court-house. do do land and registry office. do Dominion lands office. do jail and lunatic asylum	24,137 37	1 70 36 45		98 44 24,137 37 1 70 36 45
do LieutGovornor's residence		3,256 86 193 32		3,256 86 193 32 8,335 28
British Columbia.		,] 	
Agassiz experimental farm Nanaimo post office New Westminster custon-house do Dominion lands office do drill hall.	39 85	8 50 50 15 102 35		1,204 80 8 50 50 15 102 35 39 85 2 10
do penitentiary—retaining wall do post office Public buildings generally. Vancouver post office, &c Victoria appraiser's office	1,259 13		315 80	53 55 315 80 2,228 15 92 44 225 56
do custom-house do drill hall and accessory buildings do engineer's office (rent) do marine hospital	. 2,998 46		938 00	2,998 46 963 58 6 91
Carried forward	. 345,775 79	201,828 86	160,763 86	708,368 51

	The State of						
Name o	of Works.			Construction and Improvements.	Repairs.	Staff and Main- tenance.	Total.
PUBLIC BUIL	DINGS-C	ontinued		\$ ets.	\$ cts.	\$ cts.	\$ cts.
Brought	forward			345,775 79	201,828 86	160,763 86	708,368 51
British Columbi Victoria post office (new) do do (old) do savings bank build William's Head quarantine ings, &c.	etention		494 73 12 45		23,702 68 494 73 12 45 5,900 23		
go, &c,				375,378 70			738,478 60
Expenditure on Account Services Mentioned.	of	Supplies for En- gineers, &c.	Heating.	Lighting.	Water.	Total.	
Nova Scotia.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	
Amherst post office Annapolis do Antigonish do Arichat do Baddeck do Dartmouth do Halifax Asst. Receiver	400 00 400 00 200 00 249 96		268 50 90 00	108 48 38 55 22 22 82 42	40 00 9 85 2 16 00	726 12 567 12 268 50 312 22 457 55	
General's Office do Dominion building do examining ware-		14 73	54 64 870 69				
do immigrant build'g. do immigrant build'g. Lunenburg post office New Glasgow do North Sydney do Pictou custom-house Sydney post office Truro do Windsor do Yarmouth do &c	400 00 400 00 400 00 400 00 400 00	7 39 1 32 3 30 32 52 5 60	150 50 111 93 206 20 185 33	5 495 8: 0	2 100 00 0	628 17 162 50 1,088 23 950 82 538 13 730 06 960 38 750 70	
Prince Edward Island.					}		
Charlottetown Dominion building	1,737 46	14 09	44 8	26 5	5 225 0 0	. 245 39	
New Brunswick.	450 00	10 89	368 5	9 25 0	0	. 854 48	
Bathurst post office, &c Carleton, St. John, post office, &c Chatham post office, &c Chatham post office, &c Dalhousie do Fredericton do Moncton do Newcastle do Portland do St. John custom-house do penitentiary do post office	100 00 159 00 400 00 400 00 400 00 400 00 1,840 75	9 88 3 80 6 70 15 50 47 47 5 50 88 45	45 0 375 7 205 1 276 0 246 4 368 3 34 0 1,665 0 27 1	2 150 0 3 83 7 9 22 7 9 485 9 5 456 5 2 364 8 23 3 339 9	13 0 0 13 0 0 48 0 0 134 0 1 333 6	0 308 02 628 31 631 69 0 1,216 78 1,252 45 1,180 59 39 52 4,267 82 257 13	
Carried forward			ļ	-	-	-	738,478 60

Name	of Works.			Con- struction and Im- provements.	Repairs.	Staff and Main- tenance,	Total.
PUBLIC BUII	DINGS-0	Continued		\$ ets.	\$ ets.	\$ cts.	\$ cts.
Brough	Brought forward			375,378 70	202,336 04	160,763 86	738,478 60
Expenditure on Account Services Men-	Salaries of Engineers &c.	Supplies for En- gineers, &c.	Heating.	Lighting.	Water.	Total.	
TIONED—Continued.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	
Brought forward	14,980 17	431 98	8,688 59	14,351 02	2,650 28	41,105 04	
New Brunswick-Con.							
St. John savings bank St. Stephen's post office,			251 01	108 56	17 50	377 07	
&c	400 00 400 00 414 63		151 40 170 66 242 75	8 51		587 19	
Woodstock post office, &c. Quebec.	414 03	5 40	242 (0	100 00	34.00	330 10	
Aylmer post office	88 34 400 00 150 00 400 00 99 99 19 50	15 75 2 50 7 36 23 49 18 35	238 25 292 76 227 43 135 72 148 58 74 12	252 25 347 00 72 00 87 97 42 90	40 00 112 00 108 00 31 52 40 00	904 26 814 79 378 69 269 33 74 12	
do Dominion public buildings do drill hall	1,650 00					1,650 00 456 00	
do examining ware- house do Inland Revenue	1,140 00	437 61	1,850 68	721 62	585 97	4,735 88	
office	600 00 4,419 95 72 75 48 00	49 81	864 74 162 25 300 65	7,091 80	2,154 31	14,580 61 464 43 48 00 840 65	
do Dominion public buildings	1		ļ		59 05	59 05	
do examining ware house	1,415 00		300 28	624 00	42 79	924 28	
do quarantine station building, Louise embankment		1 20	4 58			4 55	
do Queen's whari			267 50			267 50	
Rivière du Loup (Fraser- ville) post office	250 00 430 00	29 61 38 56	410 00 324 00 183 14 214 4	29 90 678 40 5 216 00 7 29 90	0 62 50 0 250 00 7 25 25 5 150 00	693 18 1,524 51 1,137 71 269 71 1,023 90	

Name	Name of Works.					Staff and Main- tenance.	Total.
PUBLIC BUIL	LDINGS-C	Continued		\$ cts.	\$ cts.	\$ cts.	\$ ets.
Brough	t forward			375,378 70	202,336 04	168,763 86	738,478 60
Expenditure on Account Services Mentioned—Continued.	of	Supplies for En- gineers, &c.	Heating.	Lighting.	Water.	Total.	
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	
Brought forward	32,107 33	1,274 65	19,751 90	27,943 30	6,923 60	88,000 78	
${\it Quebec}{\rmConcluded}.$							
St. John's post office St. Roch, Que. do St. Vincent de Paul Peni			173 25 68 00		40 00	875 75 68 00	
tentiary Three Rivers custom-house do post office. Valleyfield post office. West Farnham post office	600 00	8 56	616 50 412 97 222 50 50 24 51 38	189 16 205 15 27 60	90 00	917 65 86 84	
Ontario.					İ		
Almonte post office, &c Amherstburg post office, &c Belleville do Berlim do Brampton post office, &c Brantford do Brockville do Carleton Place do Cayuga do Chatham do Clifton do Cobourg do Cornwall do Dundas do Galt do Gananque custom-house do post office Goderich do Guelph do Hamilton custom-house. do grill shed do post office do military college do post office do post office do military college do post office do post office do post office do post office do post office do post office do post office do post office do post office do post office do post office do post office do post office do post office do post office do post office do post office	400 00 400 00 400 00 400 00 400 00 400 00 50 00 850 00 400 00 475 00 400 00 400 00 600 00 800 00	7 55 20 50 19 50 19 50 19 21 36 8 20 6 25 16 75 17 70 9 28 2 75 2 88 8 38 8 2 58 36 55 1 25 2 85 5 00 5 70 17 49	927 25 335 85 17 85 143 85 125 56 622 44 566 77 199 56	121 10 250 00 548 80 274 60 210 96 6 325 65 674 20 6 41 40 6 406 25 283 70 513 58 75 04 0 141 00 20 09 273 88 78 10 56 2,048 70 121 20 56 60 75 00 6446 65 75 00 69 976 65 9 976 65	22 56 50 00 83 22 66 00 19 22 30 44 170 00 57 00 47 56 68 22 73 00 60 00 60 00 70 8 12 0 71 90 71 90 1,000 00 70 8 12 0 80 00 8 60 46 8 00 8 60 46	734 40 955 50 1,643 95 958 01 826 71 1,261 826 1,585 86 449 70 60 50 1,497 81 1,118 50 945 97 1,340 36 954 60 954 60 954 60 222 15 720 46 954 60 954 60 954 85 680 68 360 00 4,902 98 560 601 49 601 49 601 49 602 98 603 96 604 90 605 96 607 90 607 90 607 90 607 90 607 90 607 90 607 90 609	

. Name	e of Works.			Construction and Improvements.	Repairs.	Staff and Main- tenance.	Total.
PUBLIC BUII Brought	DINGS—			\$ cts.	\$ cts. 202,336 04	\$ cts. 168,763 86	\$ ets.
Expenditure on Account Services Men-	Salaries of Engineers, &c.	Supplies for En- gineers, &c.	Heating.	Lighting.	Water.	Total.	
TIONED—Continued.	 \$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	
Brought forward		1,565 28	29,422 84	38,353 46		126,804 94	
Ontario—Concluded.							
Pembroke post office. Peterboro' custom-house do post office. Petrolea do Port Arthur post office. Port Colborne do Prescott custom-house do post office. Smith's Falls post office, &c. Stratford post office, &c. Strathroy do St. Catharines do St. Thomas do Trenton do Toronto custom-house do do uninion public buildings do drill hall Toronto examining ware-house Toronto inland revenue	500 00 399 98 300 00 240 00 400 00 500 00 400 00 400 00 400 00 450 00 550 00 1,100 00 758 05 3,471 00	17 35 41 10	149 03 133 75 202 00 185 90 249 42 	291 10 168 21 268 36 23 75 332 43 558 60 256 00 156 52 58 74 88 70	91 00 3 00 71 25 25 80 97 38	1,100 00 1,550 12 4,396 70	
office	598 33 1,000 80 400 00	5 98 5 90	260 20 680 61 208 18	299 55 2,826 71 346 88	34 80 328 43 20 00	1,192 88 4,842 53 980 96	
Windsor post office, &c	1,000 00	8 00	452 30	786 96	120 00	2,367 26	
Brandon Dominion lands office Brandon custom-house do experimental farm do immigrant building				72 00 48 00		72 00 48 00 147 20 66 50	
do industrial school. do inland revenue office			116 40	48 00		116 40 48 00	
do post office Minnedosa Dominion lands office	480 00	57 70	621 25 84 72	423 05	76 00	1,658 00 84 72	
Winnipeg Crown timber office		3 00	216 00 555 00	302 94	72 00	219 00 929 94	
do Dominion lands office			8 50	45 90	22 50	76 90	
Carried forward	61.779 29	1.906 58	37.185.95	46 758 20	11.519 13	159,149 15	738.478 60

Name o	Name of Works.					Staff and Main- tenance.	Total.	
PUBLIC BUIL	DINGS-0	Continued	•	\$ cts.	\$ cts.	\$ cts.	\$ cts.	
Brough	t forward			375,378 70	202,336 04	160,763 86	738,478 60	
EXPENDITURE ON ACCOUNT SERVICES MEN- TIONED—Continued.	Salaries of Engineers &c.	Supplies for En- gineers, &c.	Heating.	Lighting.	Water.	Total.		
	\$ cts.	\$ cts.	\$ cts,	\$ cts.	\$ cts.	\$ ets.		
Brought forward	61,779 29	1,906 58	37,185 95	46,758 20	11,519 13	159,149 15		
Manitoba-Concluded.								
Winnipeg engineer's office	 		15 00		1 	15 00		
do examining ware- house do immigrant shed.		0 90	501 80 341 80			509 63 763 96		
do Indian office do post office			$\begin{array}{c c} 219 & 60 \\ 2,797 & 50 \end{array}$		275 00	219 60 7,006 93		
North-west Territories.								
Battleford Dominion lands office			65 00		 	65 00		
do clerk of works					Į	600 00 25 20		
office do court-house, &c do immigrant build-		39 25				607 99		
do post office do registry office	360 00	36 55 12 60	383 85 598 14 75 00			1 '1		
Edmonton Dominion		}	56 50					
do land and regis-			108 00)		108 00		
try office Estevan Dominion lands	l .	1				1		
office Indian Head experimental			49 00]	49 00		
farmLethbridge court-house do post office	179 60	; ; ;	184 8 87 75	12 50)	279 91		
Macleod court-house	160 39): 24 50	42 00)				
Medicine Hat court-house Moosomin court-house	1 471 76) 50 90	255 3	41 88	3	11 25 819 78		
Moose Jaw court-house do post office		4 90	$\begin{bmatrix} & 138 & 78 \\ \dots & & \end{bmatrix}$. 200) <i>.</i>	2 00		
Prince Albert barracks do court-house	, }			1	3			
Prince Albert Registry			1		1			
office Red Deer Dominion Lands	3	10 05)	460 70		
office		38 75	72 0 992 2		31 40	72 00 1,079 13		
do Dominion lands office do Lieut. Governor's		.		. 56 85	5	. 56 85		
residence		. 1 50				1 50		
Carried forward.	66,691 93	3 2,389 93	45,001 6	50,221 8	5, 13,107 43	3 177,412 78	738,478 60	

Name	of Works.			Construction and Improvements.	Repairs.	Staff and Main- tenance.	Total.
PUBLIC BUII Brough	LDINGS—			\$ ets.	\$ ets.	\$ cts.	\$ cts.
	1				,000 01	100,700 00	100,210 00
Expenditure on Account Service Mentioned—Concluded.	Salaries of Engineers &c.	Supplies for En- gineers, &c.	Heating.	Lighting.	Water.	Total.	
	\$ cts.	& cts.	\$ cts.	\$ cts.	\$ cts.	\$ ets.	
Brought forward	66,691 93	2,389 93	45,001 64	50,221 85	13,107 43	177,412 78	
NW. Territories—Con.							
Regina post office do registry office Yorkton Dominion lands office		4 25	248 80 182 80			253 05 182 80	
office		• • • • • • • •	89 80		•••	89 80	
Wetaskiwin Dominion lands office Whitewood Immigrant			47 55			47 55	
Whitewood Immigrant building Wolseley court-house			59 75 179 15			59 75 179 15	
British Columbia						1,0 10	
Agassiz Experiment I farm Bella Bella Indian office . Metlakatla Indian office do Indian school Nanaimo post office	500 00	4 80	57 00 27 00 122 00 136 50 105 00	250 45	. 	57 00 27 00 122 00 136 50 896 25	
office	500 00		67 70		125 14		
New Westminster post office Quamichan Indian office Vancouver post office Victoria do do custom-house			16 00 666 92 204 82 146 57	1,059 95 914 65	31 35	1,695 87	
do barracks do appraiser's office. do drill-hall		5 69	22 62 26 52 185 30	12 75 633 26	18 00	22 62 57 27 824 25	
do do office do Marine hospital.		1	8 05 45 86	12 75 6 80		12 75 14 85 45 86 8 00	
do Weights & Meas- ures office							
William's Head Quarantine station British Columbia generally		2 93				526 33 2 93	
Dominion Buildings generally		<u></u>	1,649 71			1,649 71	
Totals	68,525 23	2,537 08	49,869 86	53,353 61	13,682 46	187,968 24	187,968 24
Carried	forward			375,378 70	202,336 04	348,732 10	926,446 84

7	Name of Works.				Staff and Main- tenance.	Total.
Brough	it forwa	rd	\$ cts.	\$ ets. 202,336 04	\$ cts.	\$ cts. 926,446 84
HARBOURS A	AND B	REAKWATERS, &c.				
	Nova	Scotia.				
Bass River—pile will Bayfield wharf (new Bear Trap wharf Blanche harbour Blue Rock breakwa Boularderie Island do Ross F Broad Cove breakwa do Marsh Cape St. Mary wha Cariboo Island wha Church Point whar Cow Bay breakwat Cribbin's Point who D'Escousse wharf Devil's Island what Digby pier Great Village whan Halifax graving do Harbours generally Harbourville wharf Ingonish South, broad Margaree Margaretville pier Meagher's Beach. McNair's Cove pier Meagher's Beach Monk's Head, cuttish harbour Nyanza wharf Parrsboro' wharf Parrsboro' wharf Pictou Island beach Port George pier Port Medway brea Port Mouton Roseway South Gut wharf. Three Fathom har Three Islands Cov West Arichat Whitehaven chann	narf. v). tter wharf (! erry. rater breakwarf f. er. er. ck (subs f. eakwate do do do do do do do do do do do do do	Monday Point). ater ou County). idy) er, land expropriated closing up trench, &c o secure facilities for fisher nnel from lake to Antigon-	3,059 34 5,785 19 2,833 00 34 15 299 38 970 00 15,998 25 10,000 00 419 96 400 00 516 85 1,654 56 300 00 180 19	299 76 497 57 499 99 500 00 439 88 346 59 4,289 45 279 91 100 00 105 50 450 26 110 71 60 00 1,364 01 4,293 87 239 90 1,445 82 494 07 872 31 1,502 49 1,398 16 350 80 817 62 50 10 11 88 150 00 200 00 6 55	2,417 11	2,160 97 3,059 34 5,785 19 40 00 299 76 497 57 2,833 00 34 15 499 99 500 00 439 88 299 38 346 59 4,289 45 279 91 970 00 100 00 2,417 11 110 71 60 00 635 88 1,364 01 4,293 87 239 90 1,002 00 1,445 82 450 26 10,000 01 1,398 16 872 31 400 00 516 85 1,502 49
		vrd	429,117 58	-	351,149 21	·
		1			•	

Name of Works.	Con- struction and Improve- ments.	Repairs.	Staff and Main- tenance.	Total.	
HARBOURS AND BREAKWATERS-Con.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	
Brought forward	429,117 58	223,553 24	351,149 71	1,003,820 03	
Prince Edward Island.					
Bay Fortune harbour	1,020 62	36 00		750 00 21 75 2 00 1,020 62 36 00	
Chapel Point pier. Church Point pier. Georgetown pier Harbours generally Hurd's Point pier Kier's Shore wharf—extension		503 92 150 00	2,425 60	150 00 2,425 60 201 87	
Kier's Shore wharf—extension Lambert pier Miminigash pier. New London breakwater North Cardigan pier North Rustico breakwater.		624 08 6 20 1,287 83		2,587 95 92 50 508 38 624 08 6 20 1,287 83	
Pinette pier Port Selkirk pier Souris breakwater—reconstruction Stephen's pier St. Mary's Bay pier St. Peter's Bay pier Wood Islands breakwaters	3,707 60	92 60 499 98 2 82		100 00 10 75 3,707 60 92 60 499 98 2 82 8,940 00	
New Brunswick.				,	
Buctouche wharf Burnt Church wharf. Campbellton Ferry landing Cape Tormentine breakwater. Gardner's Creek wharf (new). Harbours generally. Hopewell Cape wharf Partridge Island quarantine wharf. River St. John—Upper river. \$1,913 25 Grand Falls. \$580 69 Kier's wharf—Govt. grant \$500 90 Spring Hill. \$1,355 50	107 03 136 00 123 15	577 12	2,417 10	1,500 00 107 03 136 00 577 12 123 15 2,417 10 789 60 5 25	
Tobique	4,415 44		 	4,415 44	
Oromocto—protection of banks of Oromocto and Thatch Islands				1	
Shediac harbour—new breakwater for protection of Intercolonial Ry. wharf at Point du Chêne. St. John Harbour—Negro Point breakwater Tynemouth Creek wharf. West Quaco harbour—repairs to dam.	21,010 35 3,333 71			21.010.35	
Quebec.					
Baie des Pères, Lake Temiscamingue—pier. Baie St. Paul—Wharf at Cap aux corbeaux. do —Isolated block. Beloeil booms and piers Berthier (en bas) pier. Cacouna pier extension. Cap de la Madeleine—wharf addition. Chicoutimi wharf.	2,017 34 2,798 85	945 63 1,488 90 7 45 1,993 27	120 00	945 63 2,389 77 1,488 90 120 00 7 45 2,017 34 2,798 85 1,993 27	
		-	356,111 91	·	

Brought forward.	Name of Works.		Con- struction and Im- provements.		·s.	Staff and Main- tenance.	Total.	
Quebec	HARBOURS AND BREAKWATERS—Con.	\$	cts.	\$	cts.	\$ cts.	\$ cts	
Coteau du Lac pier 1,249 99 24	Brought forward.	475,756	44	244,564	70	356,111 91	1,076,433 05	
Gathneau pier 1,288 10 1,288 10 1,558 Grand Pabos 1,558 Grand Pabos 1,558 99 1,558 99 1,558 99 1,558 99 1,558 99 1,558 99 1,558 99 1,558 99 1,558 99 1,558 99 1,558 99 1,558 99 1,790 1,558 99 1,790 1,558 1,790 1	$\it Quebec$ —Concluded.							
Lower St. Lawrence, landing places for fishing boats = Anse à Louise.	Coteau du Lac pier. Etang du Nord breakwater. Gatineau pier. do river	1,288	 10	1,799 2	90	. 	1,799 90	
Lower St. Lawrence, landing places for fishing boats = Anse à Louise.	Grand Fabos. Grande Décharge wharf—Lake St. John Grande Rivière wharf—extension. Harbours generally. Lala any Cruce vice.	1,558 400 3,284	99 00 33	45	· · · ·	1,790 41	1,558 99 400 00 3,284 33 1,790 41	
Lower St. Lawrence, landing places for fishing boats = Anse à Louise.	Laprairie ice piers. Lévis graving dock	2,554	 95	903	02 34	8,321 62	45 55 903 02 737 34 2,554 95 8,321 62	
Anse aux Griffons. 364 43 Petit Cap 97 90 Pointe Jaune. 762 31 Rivière au Renard 228 06 Magog wharf, purchase of 2,500 00 Malbaie pier. 175 69 175 69 Matane do 975 13 975 13 975 13 Mistassini river 500 00 New Carlisle pier 101 00 111 15 111 15 Petite Rivière St. François 101 00 111 15 111 15 Petite Rivière St. François 105 94 165 94 165 94 Piers below Quebec 3,699 02 3	Lower St. Lawrence, landing places for fishing boats—		19			, , , , , , ,	4,214 19	
Magog wharf, purchase of	Anse aux Griffons							
Philipsburg pier. 165 94		1,999 2,500	93 00 	175 975	69 13		1,999 93 2,500 00 175 69 975 13	
Color Colo	Philipphurg rier	165	04			\·····	165 94	
Rimouski wharf—extension 51 23 347 70 34	Port Daniel wharf	7	20	998	54		614 80 7 20 998 54	
do Grandes Bergéronnes 299 94 299 94 do L'Assonption 50 12 50 10 do Mackinac 1,251 00 1,251 0 do Richelieu—Belœil channel guide piers 144 79 144 79 do Saguenay—dredging below Chicoutimi 5,998 64 5,998 64 do Ste. Anne de la Pérade 14,906 05 14,906 05 do St. Lawrence—ship channel between Quebec 89,929 81 89,929 81 do St. Louis—head gates 99,929 81 125 00 125 00 do St. Maurice—channel between Grandes Piles 1,721 50 1,721 50 1,721 50 do Touladie 387 43 407 80 620 30 1,028 1 Roberval pier, Lake St. John 4,200 31 4,200 31 4,200 31 St. Irénée pier 21 50 56 00 56 00 St. Laurent pier do 56 00 56 00 56 00 St. Michel pier 802 23 802 23	Rimouski wharf—extension Rivière des Prairies do du Lièvre—claim for damages.	51 347 3,756	23 70 04	267	70	840 34	51 23 347 70 4,864 08	
do Saguenay—dredging below Chicoutimi 5,998 64 14,906 05 14,906 05 14,906 05 14,906 05 14,906 05 14,906 05 14,906 05 14,906 05 14,906 05 125 00 125	do Grandes Bergéronnesdo L'Assomptiondo Mackinac	299 50 1,251	94 12 00			••••	299 94 50 12 1,251 00	
do St. Louis—head gates 125 00 125 00 do St. Maurice—channel between Grandes Piles and Latuque 1,721 50 1,721 50 387 43 40 Yamaska lock 407 80 620 30 1,028 1	do Saguenay—dredging below Chicoutimi do Ste. Anne de la Pérade	5,998 14,906	64 05				5,998 64 14,906 05	
do Touladie 387 43	do St. Louis – head gates					125 00	125 00	
St. Jean pier, Ile d'Orléans. 6,005 22 6,005 2 St. Laurent pier 56 00 56 0 St. Michel pier 802 23 802 2	do Touladiedo Yamaska lock Roberval pier, Lake St. John.	4,200	43 31	407	80	620 30	1,721 50 387 43 1,028 10 4,200 31	
St. Zotique pier	St. Jean pier, Ile d'Orléans. St. Laurent pier do St. Michel pier			56 802	00 23	· · · · · · · · · · · · · · · · · · ·	21 50 6,005 22 56 00 802 23	
	Trois-Pistoles pier		•••		00	·····	1,599 85 999 00	

Name of Works.	Name of Works. Construction and Improvements.		Staff aud Main- tenance.	Total.	
HARBOURS AND BREAKWATERS-Con.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	
Brought forward	623,011 43	260,759 67	371,508 60	1,255,279 70	
Ontario.					
Belleville harbour	2,989 48			2,989 48	
Burlington channel			000 00	1,499 98	
Cobourg harbour				998 96	
Collingwood harbour				30 00	
Colpoy's Bay pier	3,219 15	200 00		200 00	
Goderich harbour—extension of piers, &c	22,710 75			3,219 15 22,710 75	
Hamilton harbour—dredging				2,102 96	
Honara Baysurvey for location of wharf.			i	81 50	
Harbours generally			1.858 91	1,858 91	
Kaministiquia river	13,311 96		l	13,311 96	
Kingston dry dock			5,939 51	5,939 51	
do harbour	5,770 84		1	5,770 84	
Kingsville do		394 88		394 88	
Lakes Simcoe and Couchiching—regulation of waters.	117 43	1	1	117 43	
Owen Sound harbour—dredging and improvements	0 191 10			15,103 44	
Port Albert—extension of piers and dredging	9,131 18			9,131 18	
Port Arthur—dredging do repairs to breakwater	1,500 00	420 61		1,500 00	
do repairs to breakwater Port Elgin harbour		90.50		420 61	
Port Hope harbour - repairs to piers				29 50	
Port Hope harbour—repairs to piers Port Rowan wharf	2.136.35	2,490 77		2,490 77 2,136 35	
Port Stanley harbour—dredging	929 71			929 71	
Rainy river	74 99		Ì	74 99	
River Beaudette—cleaning out channel	2,994 21			2,994 21	
River Ottawa—narrows above Pembroke	459 24			459 24	
Rondeau harbour		360 18	<i></i>	360 19	
Sault Ste. Marie wharf—repairs		297 00		297 00	
Southampton harbour—repairs to breakwaters and			1		
landing pier.		276 86		276 86	
Thessalon wharf (new). Thornbury harbour Coronto harbour—eastern entrance, &c.	204 71			204 71	
Thornbury harbour	70 101 50	2,498 15		2,498 15	
Toronto harbour—eastern entrance, &c	02,161.76		· ··· ····	52,161 76	
Trenton do dredging	1,990 42			1,990 42	
Manitoba.					
Harbours generally	1 911 00			597 48	
	1,311 26			1,311 26	
North-west Territories.					
Harbours generally			3 53 55	353 55	
British Columbia.					
Columbia river, above Golden—improvements do at do protection of river banks	3,942 88 500 00)			
do below Revelstoke	172 70	11			
do protection of bank at Revelstoke and	-,-,-	17		13,973 99	
vicinity	7,010 84	11	ļ		
do below Kooteney—improvements	2,347 57	IJ	İ		
Esquimalt graving dock			10,419 76	10,419 76	
Fraser river—improvement of channel	29,803 28	1)	,	,	
do protection work at Garry Bush	2,999 91	1}		37,817 36	
do survey	5,014 17	IJ			
Harbours generally			2,822 75	2,822 75	
Cootenay (east) river—improvements between canal	4 00* 00	1		1 00x .00	
flat and Fort Steele	4,635 66	1	· · · · · · · · · · · · · · · · · · ·	4,635,66	
Carried forward					

Name of Works.	Construction and Improvements.	Repairs.	Staff and Main- tenance.	Total.
HARBOURS AND BREAKWATERS-Con.	\$ cts.	\$ cts.	\$ ets.	\$ cts
Brought forward	817,739 78	269,556 60	394,200 52	i 1,481,496 90
British Columbia—Concluded.				, ,
Skeena river	3,980 64 9,974 65			3,980 64 9,974 65
HARBOURS GENERALLY			3,102 52	3,102 52
Dredge vessels, repairsdo Maritime ProvincesDredging plant generally.	22,427 87 48,751 46	31,173 78		31,173 78 22,427 87 48,751 46
DREDGING.	,,,,,,,	1		10,701 10
(Reference No. 165,887.)				
Nova Scotia.			1	1
Cheticamp (Inverness) \$ 1,801 85 D'Escousse (Richmond) 605 75 Eastern passage (Halifax) 522 89 Herring Cove (Halifax) 3,533 96 Mabou Harbour (Inverness) 2,064 08 Pictou (Pictou): - Acadia Coal Co.'s wharf wharf \$ 151 43 Dwyer's wharf 286 04 Poulamond (Richmond) 1,884 55 Salmon River (Halifax) 2,841 81				
Sambro (Halifàx Cty.)			·	
Cardigan (King's) \$ 4,546 50 Grand River (King's) 4,702 38 ————————————————————————————————————	3			
New Brunswick.		,		
Pointe du Chêne (Westmoreland) \$ 5,579 34 Moses Glen (King's)				
13,135 1	3			
Total, Maritime Provinces \$39,986 7	0	1		İ
Quebec. Berthier (en haut) harbour\$ 5,538 75 Charlemagne (L'Assomption River)				
Carried forward. 13,169 36 39,986 7	002.054.40	300,730 38		1,600,907 8

Name of Works.	Construction and Improvements.	Repairs.	Staff and Main- tenance.	Total.
DREDGING-Concluded.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Brought forward\$39,986 70	902,874 40	300,730 38	397,303 04	1,600,907 82
Quebec—Concluded.	 	[1	
Brought forward 13,169 36				
Rivière St. Laurent, Ile Gros 382 66 Bois 382 66 Rivière St. Pierre 1,085 15 St. Placide harbour 1,438 66				
\$16,075 86 Generally				
\$20,807 O1	ļ			
Ontario.				
Amherstburg harbour \$3,337 05 Collingwood do 1,324 54 Goderich do 928 21 Kincardine do 3,195 83 Kingsville do 571 58 Midland do 2,252 65 Oakville do 1,461 51 Penetang'hene do 445 50 Pickering do 709 83 Port Arthur do 51 00 Port Elgin do 1,015 89 Port Hope do 96 59 Trenton do 186 18 Whitby do 197 50 Wingfield basin 1,536 00 \$17,309 86 Generally 2,621 34				
14,975 08				
General service				Ì
Total dredging	98,304 83		13,264 87	111,569 70
SLIDES AND BOOMS.				
Saguenay District-piers at discharge from Lake St.		4 0	_	
JohnSt. Maurice District	2,000 00 1,992 33	1,990 94 1,542 83	942 29 6,854 66	4,933 23 10,389 82
Ottawa do			24,307 86	24,307 86
Gatineau do 513 27 Madawaska do 6,994 03 Coulonge do 1,106 51		13,432 25		13,432 25
Black do			 	5,803 73
	1	l		I

Name of Works.	Con- struction and Im- provements.	Repairs.	Staff and Main- tenance.	Total.
SLIDES AND BOOMS—Concluded.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Brought forward	1,010,975 29	317,696 40	442,672 72	1,771,344 41
Trent District		5,170 29	2,023 25	7,193 54
ROADS AND BRIDGES.			,	
Quebec.				
Cartier bridge, river St. Louis				
Petit Canal bridgePond Creek bridge, Hull.	$\begin{array}{r} 175 \ 74 \\ 2,950 \ 86 \end{array}$			175 74 2,950 86
Portage du Fort bridge.	1,897 48			1,897 48
Ontario.				
Burlington channel—swing bridge	1,371 93		į	1,371 93
Ottawa City bridges :—		34 00		34 00
Chaudière bridges. \$2,751 64 Hull slide bridge. 102 05				
Maria street do 142 44 Sappers' do 463 64 Union 342 75				
Union do				
Wellington street. 2,189 68 Roadway between Ottawa and Hull. 487 74				
	l 		; ; ;	
Tota bridge.		300 00		300 00
North-west Territories.				
Battle river bridge	2 08	2 242 25		2 08
Bow do	1	110 99		3,342 35 110 99
Edmonton—bridges across the Saskatchewan Old Man's river bridge	695 23	851 86		695 23 851 86
TELEGRAPH LINES.				
Nova Scotia.				
Cape Sable \$ 688 45				ĺ
Cheticamp 777 86	<u>!</u>]
Low Point				
	1			
Prince Edward Island.				
Prince Edward Island and Mainland—(subsidy)	! .*************	,	1,946 66	1,946 66
New Brunswick.				
Bay of Fundy \$ 3,015 32				†
Escuminac				
C	1 010 005 00	200 (02 00	440.010.00	1 MOD #14 51
Carried forward \$ 9,763 55 2		333,985 83	446,642 63	1,799,714 34

Name of Works.	Con- struction and Im-	Repairs.	Staff and Main-	Total.
	provements.		tenance.	
TELEGRAPH LINES—Continued.	\$ ets.	\$ cts.	\$ ets.	\$ cts
Brought forward \$ 9,763 55	1,019,085 88	333,985 83	446,642 63	 1,799,714 34
Quebec.				
Anticosti Island		•		
East Bersimis\$ 5,088 75 West do 3,721 40	1,375 03 500 00	1,291 87		2,666 90 500 00
${m N}$ ewfoundland.				
Cape Rae 250 00				
GENERALLY 338 16	;			
Total, Lower St. Lawrence, &c			24,810 50 330 00	24,810 50 330 00
Ontario.			<u> </u>	
Pelée Island			1,603 79	1,603 79
North-west Territories.				
Lethbridge and Cardston telephone line and extensions GENERALLY	1,716 30			1,716 30 14,139 42
British Columbia.				
Ashcroft-Barkerville line. French Creek to Alberni canal. Lillooet—Connection with Ashcroft-Barkerville line. Generally.	2,614 95 783 50	931 03	994.82	931 03 2,614 95 783 50 9,994 82
TELEGRAPH SERVICE GENERALLY				1,108 33
			1,100 00	1,100 00
MISCELLANEOUS.				
Agent and contingencies, B.C. Surveys and inspections. Monuments to: the late Sir John A. Macdonald.	12,699 86		2,131 61 11,099 94	2,131 61 11,099 94 12,699 86
Maisonneuve—Govt. Grant Extra clerks—Secretary's branch \$23,646 03 Chief Engineer's Office 52,145 83 Chief Architect's Office 28,098 14 Telegraph service 2,900 00		•••••		1,000 00
Retiring allowances—Joseph Rosa, C.E \$1,003 75 C.E. Michaud do 1,003 75 J. Bowes, Architect. 1,080 00 W. B. Snow, C.E 365 00			112,790 00	112,790 00
Gratuity to the widow of the late John C. Allison, C.E. Funeral of the late Sir John S. D. Thompson			3,452 50 300 00 22,497 37	3,452 50 300 00 22,497 37
Carried forward	1,039,775 52	336,208 73	650,900 91	2,026,885 16

APPENDIX No. 1-Concluded.

Name of Works.	Con- struction and Im- provements.	Repairs.	epairs. Staff and Maintenance.	
COLLECTION OF SLIDE AND BOOM DUES.	\$ ets.	S ets.	\$ cts.	\$ cts
Brought forward	1,039,775 52	336,208 73	650,900 91	2,026,885 16
Saguenay District \$ 84 52 St. Maurice do 843 38 Ottawa do 2,518 79 Newcastle do 92 30 GENERALLY 85 53				
Ottoma District II Ottom I I			3,624 52	3,624 52
Ottawa District—Upper Ottawa Improvement Co.— Allowance re logs thro' Chenaux boom, 1894-95 Newcastle District—Costs re suit of Messrs.			1,557 69	1,557 69
Mossom, Boyd & Co., &c			1,152 16	1,152 16
Totals		336,208 73	657,235 28	2,033,219 53

DEPARTMENT OF PUBLIC WORKS, OTTAWA, 15th November, 1895. O. DIONNE, Chief Accountant.

APPENDIX No. 2

REPORT

o'N

PUBLIC BUILDINGS

THROUGHOUT THE DOMINION

FOR THE FISCAL YEAR ENDED 30TH JUNE, 1895

BY THE

CHIEF ARCHITECT

APPENDIX No. 2.

REPORT OF THE CHIEF ARCHITECT.

DEPARTMENT OF PUBLIC WORKS,

CHIEF ARCHITECT'S OFFICE,

OTTAWA, 18th September, 1895.

SIR,—I have the honour to transmit herewith the annual report of this branch, for the fiscal year ended 30th June, 1895.

I have the honour to be, sir,

Your obedient servant, THOMAS FULLER,

Chief Architect.

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

PROVINCE OF PRINCE EDWARD ISLAND.

CHARLOTTETOWN.

Repairs were made to electric bells, plumbing, etc.

SUMMERSIDE.

Minor repairs to doors were made and some of the walls kalsomined.

PROVINCE OF NOVA SCOTIA.

AMHERST.

Some rubber fire hose was supplied and some minor repairs effected.

ANNAPOLIS.

Some minor general repairs were effected.

ANTIGONISH.

A water service was put in and connected with that of the town; the inside plastering was repaired, the walls coloured and the ceilings whitened.

BADDECK.

The cast iron hot water heater having become unserviceable was replaced by a new one; new locks were provided for outside doors; the inside of building was painted, the walls kalsomined and ceilings whitened; wire mesh was put in between top of post office screen and ceiling and some new post office fittings supplied.

DARTMOUTH.

Some further furniture was supplied; a burglar proof safe was put in the post office and the electric incandescent light was installed.

HALIFAX.

DRILL HALL.

A block of land bounded by Maynard, Cunard, North Park Streets and John's Lane with frontage of 190, 304, 205 and 304 feet, respectively was acquired from a number of proprietors to be used as a site for the building; plans were prepared and tenders advertised for.

The building is to be 304 feet in length by a width of 160 feet, exclusive of a projection 20 feet by 65 feet 10 inches on Cunard Street front, and four projecting circular turrets in which are the staircases. The outside walls are to be of stone with brick backing, the partitions of brick, the principals of roof over hall are of The entire area of the building, excepting a part under the hall (140 feet by 110 feet) is to be excavated and occupied; the part under the hall being for bowling alleys, shooting galleries and band rooms. Between alleys and Maynard Street a gun shed 110 feet by 42 feet 6 inches to extend up through the ground floor and a lecture room is provided over the gun shed. Under the projection on Cunard Street are to be a kitchen, sewing rooms, and three store rooms, while on John's Lane will be fuel, band room, gun cleaning room and other stores, etc. The ground floor is to contain a drill hall 250 feet by 110 feet-64 feet in height from floor to apex of roof and 33 feet from floor to watlplate; and the Halifax Garrison Artillery are provided for on ground and first floor next John's Lane and Cunard Street. In projecting wing are officers' quarters on ground floor, with recreation and mess rooms, etc., on floor above. Plans, etc., prepared by this department.

DOMINION BUILDING.

Repairs were made to the hot water boilers and heating apparatus, drains, slating, cornice, floor of registration office and furniture, besides minor repairs in post office and inspector's office and some new furniture was supplied.

Work inspected by C. E. W. Dodwell, resident engineer, Halifax, N.S.

EXAMINING WAREHOUSE.

The elevator was repaired; the drains which were choked were overhauled and connected with city sewer at Hollis Street, and some repairs were done to plumbing. Work inspected by C. E. W. Dodwell, resident engineer, Halifax, N.S.

IMMIGRATION BUILDING.

Some usual and ordinary repairs to the building and fittings were effected.

On the 29th February, 1895, the entire group of buildings of the agency at the deep water terminus were destroyed by fire. Temporary accommodation for the immigrants was provided in a freight shed of the I.C.R. at Richmond, and a lunch counter was put in. The shelter of the apparatus used by the quarantine officer for disinfecting passengers' baggage was destroyed by the same fire and a new building had to be provided for its protection.

Work inspected by C. E. W. Dodwell, resident engineer, Halifax, N.S.

LUNENBURG.

POST OFFICE.

This building which was described in a previous report is completed and occupied.

Plans, etc., prepared by this department.

NEW GLASCOW.

PUBLIC BUILDING.

The wrought iron furnace of the hot water heating apparatus was taken out and replaced by a Gurney Double Crown heater, which was provided with a steel smoke pipe and connected.

PICTOU.

POST OFFICE.

This building which was described in my report of last year, was contracted for 8th August, 1894, is now in a forward state and is expected to be completed during this autumn.

Plans, etc., prepared by this department.

Works inspected by C. E. W. Dodwell, resident engineer, Halifax, N.S.; clerk of works, Jos. Hudson, Pictou, N.S.

Contractors, Rhodes, Curry & Co., Amherst, N.S.

SYDNEY.

PUBLIC BUILDING.

The storm doors were repaired.

TRURO.

POST OFFICE.

Repairs were made to waste pipes. The cesspit in rear of the building was lined with brick and the bottom concreted.

Works inspected by C. E. W. Dodwell, resident engineer, Halifax, N.S.

WINDSOR.

POST OFFICE.

An additional cast iron hot water heating furnace was supplied and connected with the heating system.

PROVINCE OF NEW BRUNSWICK.

BATHURST.

POST OFFICE.

A new pump and connections for well in cellar was provided and repairs made to plumbing.

CHATHAM.

POST OFFICE.

Building completed and occupied.

Plans, etc., prepared by this department.

Clerk of works, Wm. Lawlor, Chatham, N.B.

Contractor for building and fittings, Jos. Treen, North Sydney, C.B.

Contractor for heating apparatus, Thos. Campbell, St. John, N.B.

MONCTON.

PUBLIC BUILDING.

The plastering of the walls and ceiling were kalsomined, excepting in cellar, which was lime whitened; the hardwood floors were re-oiled and the post office screen revarnished. Two cast iron hot water boilers were put in to replace the worn out tubular boiler which was removed, and repairs were done to plumbing and electric bells.

PARTRIDGE ISLAND.

QUARANTINE STATION.

New zincs were furnished for the batteries; the two large hospitals, the disinfection building and fences were whitewashed; a fence blown down was replaced and repaired and some furniture supplied the superintendent's office.

Works carried out under the supervision of W. J. McCordock of this depart-

ment, St. John, N.B.

PORTLAND (ST. JOHN).

POST OFFICE.

The building was cleaned, the plastering whitened and the woodwork repainted and in part revarnished; a new washbasin and a new water-closet were put in; the roof was repaired; the cupola being rotten was taken off and replaced by a hatch; the roof gutters and down pipes were renewed; a partition was put in between the office and large store; some necessary articles were supplied and the water service repaired.

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

ment, St. John, N.B.

ST. JOHN.

CUSTOM HOUSE.

A brick partition was put in north basement. In caretaker's quarters north basement a mantel and grate were provided, the walls tinted and ceilings whitened, some furniture, speaking tubes, hose, etc., were supplied. Work carried out under the supervision of W. J. McCordock, of this department, St. John, N.B.

POST OFFICE.

A new flag staff was supplied; the space between the post office screen and the ceiling was closed by a glass partition; repairs were made to stonework, lead flashing, plumbing, electric bells, locks, furniture and hoist, and some fittings and furniture supplied.

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

ment, St. John, N.B.

SAVINGS BANK.

The terra cotta drain, soil pipes and closets were taken out, and cast iron pipe, new soil pipes and traps with new pattern closet ventilated through roof, were put in.

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

ment, St. John, N.B.

TRACADIE.

NEW LAZARETTO.

Work on this building, which was described in my report of last year has been carried on continuously and is expected to be completed at an early date.

Plans and specifications for a hot water heating apparatus are prepared. Plans,

etc., prepared by this department.

Clerk of works, Jas. Davidson, Tracadie, N.B. Contractor, Wm. Stuart, Ottawa, Ont.

WOODSTOCK.

PUBLIC BUILDING.

Some of the brickwork was renewed, the stonework repointed and a portion of the outside woodwork repainted.

PROVINCE OF QUEBEC.

AYLMER.

POST OFFICE.

A portion of the woodwork was painted.

GROSSE ISLE.

QUARANTINE STATION.

The ss. "Challenger" was cleaned and repainted; the laboratory was fitted up with bacteriological apparatus and supplies; alterations and renewals of the telethermometric apparatus was done, and some iron pipe, grate bars, etc., supplied.

JOLIETTE.

PUBLIC BUILDING.

The hot water heating apparatus was repaired.

MONTREAL.

CUSTOM HOUSE.

The galvanized iron vent pipes of plumbing were taken out and replaced by others of cast iron, to conform with the city ordinance, the main drain was cleaned, a new water storage tank put in third floor, new marble wash stands and plumbing were put in the offices of the collector, deputy collector and surveyor, and one in attic, a new gas meter and a main were put in cellar, a new heating coil was put in secret service office, and the coils in the testing room, storeroom and paper room altered. The copper roof gutter on the Commissioners street front was renewed, new gas mains, fixtures, drains, plumbing, etc., were put in for new office, one of the passages was refloored and painting was done in the long room passages, and the offices of collector, deputy collector and surveyor.

Works carried out under the supervision of Ed. Guilbault, clerk of works,

Montreal.

EXAMINING WAREHOUSE.

General repairs were made to ticket office, express office and dry goods office, and the roof covering was painted, a new Unitas closet supplied. Some new shafting,

29

wire rope and a column supplied for hoists and the store hoist repaired. Two marble urinals with plumbing vented through roof put in, also two new marble washstands were put in the caretaker's quarters, and a portion of the drain renewed.

Work done under the supervision of Ed. Guilbault, clerk of works, Montreal.

INLAND REVENUE BUILDING.

The roof covering was painted, a new gas meter and main were put in and the tobacco drying furnaces altered. The analysts' laboratory was fitted up.

Work done under the supervision of Ed. Guilbault, clerk of works, Montreal, P.Q.

POST OFFICE.

The lobby floor was laid with tile; further fittings were supplied for the registered letter branch; the first floor and the public lobby on ground were cleaned and painted throughout; an observation gallery was constructed adjoining the registered letter office; the space formerly occupied by the registered letter office on ground floor was fitted up and furnished for the use of the deputy postmaster; the post office screen was furnished with new pattern brass box fronts, and repairs were made to roof, heating apparatus, etc.

Works executed under the supervision of this department.

Supervising architects, A. Raza and J. Nelson.

Clerk of works, Ed. Guilbault, Montreal.

QUEBEC.

CITADEL-GOVERNOR GENERAL'S QUARTERS.

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

Works done under the supervision of an officer of this department.

CULLERS' OFFICE.

A new coil was put in one of the Inland Revenue offices.

CUSTOM HOUSE.

Repairs were made to plastering, plumbing, bells, etc.; the metal roofing where injured by storm, was repaired and renewed; general repairs to the windows and sidewalks and some papering and tinting done.

POST OFFICE.

The heating apparatus referred to in my last report has been completed, and the fittings for the new wing as well as some alteration of the existing fittings are now in progress.

Work done under the supervision of this department.

Contractor for heating apparatus, Wm. Ford.

ST. HYACINTHE.

POST OFFICE.

Some minor, ordinary and usual repairs to glazing, plaster, etc., were effected.

RICHMOND.

PUBLIC BUILDING.

Plans and specifications are prepared and tenders are about to be advertised for the construction of this building on the site on Main street, referred to in my

previous report. The building is to be of brick on a stone foundation and consist of a main portion 40 feet square of two stories with attic and basement, and a one story annex 40 feet by 17 feet. The ground floor to be for the post office and examining warehouse. The first floor for the Customs and Inland Revenue, the attic for caretaker and the basement for heating apparatus and fuel. Plans, etc., prepared by this department.

RIMOUSK1.

POST OFFICE.

On 4th May, 1895, a contract for the construction of this building on the cor-

ner of College street and Public Road was entered into.

It is to have brick walls on a stone foundation with floors, partitions, and roof of wood. There will be a main portion 40 feet by 30 feet, two stories, basement and attic and a one story annex, 26 feet by 18 feet; the ground floor is to contain the post office and examining warehouse, the first floor the Customs and Inland Revenue and the attic for the caretaker. Plans, etc., prepared by this department.

Clerk of works, Pierre Raymond, Rimouski, P.Q.

Contractor, Chs. B. Beaulieu, Lévis, P.Q.

ST. JÉROME.

PUBLIC BUILDING.

A new outside porch for ground floor, a new flag staff for roof and three new windows in cellar were provided. Repairs to door of general delivery and slating of roof were effected.

SHERBROOKE.

POST OFFICE.

All the inside and outside woodwork was re-painted and re-varnished, the inside walls cleaned and tinted, and the ceilings cleaned and whitened; new locks were supplied and some repairs made to lock boxes and pointing of outside stonework and brick work.

Work carried out their supervision of the caretaker.

'SOREL.

POST OFFICES, ETC.

The water supply service was repaired and partly renewed.

WEST FARNHAM.

POST OFFICE.

This building is completed, fitted up and occupied.

PROVINCE OF ONTARIO.

ALMONTE.

PUBLIC BUILDING.

An entrance porch was put up, a tank for water supply placed in attic and some window shades supplied, under the supervision of the caretaker.

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AMHERSTBURG.

POST OFFICE, ETC.

The electric incandescent light was installed; the inside of the building was cleaned, the woodwork painted, the walls tinted and the ceilings whitened; some storm sashes were supplied and repairs made to glazing, brick-floor of furnace room, etc., under the supervision of the caretaker.

BARRIE.

POST OFFICE.

The whole of the woodwork was painted two coats and some minor repairs made.

BELLEVILLE.

POST OFFICE.

A portion of the basement was partitioned off and shelved for use as a store room; the outside woodwork of the building was repained and some of the lock boxes repaired. Work superintended by Jos. Power, architect, Kingston, Ont.

BERLIN.

POST OFFICE, ETC.

The whole of the outside wood and galvanized iron work was painted. Some outside shutters were supplied, repairs were made to lobby and office floors, tower door and tank room.

Work done under the supervision of the caretaker.

BRAMPTON.

POST OFFICE, ETC.

The external woodwork of building and the woodwork of interior of lobby were repainted; the plaster was repaired the walls tinted and the ceiling whitened; some signs for offices were supplied and some minor repairs done to plumbing. Work done under the supervision of the caretaker.

BRANTFORD.

POST OFFICE, ETC.

The external woodwork has been repainted, repairs were made to the steam valves. The plumbing of this building which was done in 1893 was connected with the city sewer. Work done under the supervision of the caretaker.

COBOURG.

POST OFFICE, ETC.

A set of new steps were provided at post office entrance; the post office fittings were cleaned and re-varnished; repairs were made to furniture; some painted signs supplied and gas fitting done. Work done under the supervision of the caretaker.

CORNWALL.

POST OFFICE, ETC.

Repairs were made to the hot water heating furnace and apparatus.

GALT.

POST OFFICE, ETC.

The woodwork and galvanized iron of the building were repainted; the plastering was repaired and cleaned, the walls tinted and the ceilings whitened; a large portion of the cement floor of basement was renewed and some post office fittings and linoleum supplied. Work done under the supervision of the caretaker.

GANANOQUE.

POST OFFICE, ETC.

The brickwork of chimney was repaired; a shelf was placed over heating coil and a black-board supplied in public lobby; additions were made to fittings; glazing was repaired; the plaster of inside walls was repaired and cleaned, the walls tinted and the ceilings whitened.

GUELPH.

POST OFFICE, ETC.

The plastering of first floor and attic was repaired and cleaned, the walls tinted and the ceilings whitened, excepting those of Inland Revenue offices which were painted; the post office screen was cleaned and varnished and the space between same and ceiling filled in with a glazed screen; the hot water mains in basement were covered with asbestos composition; the woodwork in basement was painted and the ceilings whitened and the coping of driveway was reset in cement.

Work done under the supervision of caretaker,

ORILLIA.

PUBLIC BUILDING.

The lot was fenced and graded and a plank sidewalk laid.

OTTAWA.

GOVERNMENT HOUSE.

At Rideau Hall a new hot water heating apparatus was put in to heat the entire building, excepting a portion of the basement, this apparatus was constructed to take the place of eight hot air furnaces, one small hot air furnace and twenty-four stoves, all of which were removed. The removal of the furnaces with their flues registers etc., occasioned a large amount of making good and provided several additional bed-rooms in the basement. To provide a boiler room a portion of the basement had to be excavated, changes had to be made in partitions, doors, a large quantity of new partitions, wood as well as concrete flooring, a new chimney as well as a large globe ventilator for furnace room and alterations made to carpentry, stonework, brickwork, plastering etc., etc., of basement throughout.

The incandescent electric light was installed throughout the Hall and the cottage, a brick vault to contain the convertors had to be built, the gas fixtures,

with an addition of some new electroliers and brackets, being utilized.

A portion of the room between inner hall and outer hall was divided into two

water closets provided with all necessary plumbing, etc.

Two new bed-rooms and a bath-room were formed in the unoccupied space under the tennis court; the lamp room in basement was changed into a bed-room, the stone flagging being removed and replaced by wood and the plastering renewed; a window between ball-room and sewing-room was changed to a door; the Secretary's office was divided by a wooden partition; a cupboard in store-room was rendered

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suitable for refrigerator purposes; a large quantity of portable shelving was fitted up for books, periodicals, etc.; the conservatory floor was relaid, plant tables rebuilt and the brickwork of conservatory furnace taken down, the furnace repaired, and the brickwork rebuilt; the sashes of vinery in large part renewed and a number of repairs to green house executed and broken glass replaced.

A one story dairy building of wood consisting of an octagonal dairy-room 28 feet in diameter, and office and milk-room each 12 feet 6 inches by 12 feet 6 inches each, and

an ice-house 6 feet by 12 feet is being constructed in the Hall grounds.

The guard house was converted into a dwelling for one of the stablemen, involving putting in partitions, flooring, doors, porch, re-shingling of roof and a portable latrine.

A new water closet was put in at the laundry and two others at the cottage, with all necessary plumbing and connections, rooms in all cases having to be parti-

tioned off, plastered, etc.

An inclosed wooden shelter 57 feet by 9 feet by 12 feet with glazed front, was built at the skating rink and the staircase to refreshment room inclosed and roofed.

The roofs of the ball-rooms, curling rink, stable and laundry were re-shingled and the vallies, ridges, hips, etc., renewed. The galvanized iron roof of kitchen was in part renewed. Some new sash were furnished for lodge.

The cow house was re-modelled, re-floored, 10 stalls and mangers fitted up and the

space under floor filled with earth and ashes.

The toboggan slides were repaired and partly refloored. Repairs were made to roofs, kitchen, stairway, drains and to woodwork, plastering, furniture, carpets, curtains, drapery, flags, etc., etc.

At the Hall, cottage, etc., a large quantity of papering and painting was done, and for the hall new carpets, china glassware, stoneware and kitchen requisites were

supplied.

Packing and other cases were provided for the household when removing to and from Quebec; a temporary floor was laid on lawn for dancing and the usual work in connection with the entertainments done. Several hundreds of the cedars at Laundry were cut down to assist in drying the swampy ground; the grounds, conservatories, gardens, rinks, toboggan slides, etc., were kept in order; a large quantity of bulbs were supplied and some of the flower beds filled up and sodded for a croquet lawn.

A new kitchen range was put in the cottage.

Works carried out under the supervision of this department by the departmental staff. Clerk of works, Wm. Hutchison.

Contractors for maintenance of grounds, etc., Sorley & Sims, Ottawa. Contractor for removal of snow, W. J. Sims, Ottawa.

CENTRAL EXPERIMENTAL FARM.

The residence of the poultry manager was altered and added to, four farm entrance gates were provided and set up, a shed was erected in rear of stableman's residence, the farm foreman's residence was re-shingled, the museum was fitted up and the farm buildings generally repaired. Work done by departmental staff.

EASTERN BLOCK, DEPARTMENTAL BUILDING.

A large quantity of fittings was supplied to the attic of the Privy Council Office and to the Interior department; heating coils were placed in Nos. 85 and 87; gas fittings were supplied to Nos. 42, 43, 46, 49, 51, 81, 85, 87; an electric belt was hung in No 57; a washstand was put in No. 109; a water supply pipe in No. 107 and a gas heater in the large vault of the Finance Department.

Work carried on by the departmental staff; Wm. King, Ottawa, mechanical

engineer, F. Breton, Ottawa, clerk of works.

FISHERIES, MUSEUM AND ART GALLERY.

The galvanized iron roof covering was renewed, the brisk walls and outside woodwork painted, the skylight and chimney were repaired, the dormer windows altered and the interior painted, tinted and papered.

Work done by departmental staff; clerk of works, F. Breton, Ottawa.

GOVERNMENT PRINTING BUREAU.

Eight ventilators were placed in linotype room to carry off the lead fumes, fire hose was supplied, some new water pipes were fitted up and some of the electric wiring, which had been destroyed by fire, was replaced.

Work done by the departmental staff.

LANGEVIN BLOCK.

A portion of the cornice was re-painted, the platform over Elgin St. porch was renewed and some minor repairs were made to copper roofing. A wash basin, electric bells and some gas fittings were supplied to Department of Indian Affairs.

Work done by the departmental staff. Mechanical engineer, Wm. King, Ottawa.

Clerk of works, F. Breton, Ottawa.

WESTERN BLOCK-DEPARTMENTAL BUILDING.

An additional room was fitted up for the archivist; steam coils were put up and connected in the offices of the minister and his private secretary; additions to the Inland Revenue laboratory were made; a wash basin was fitted up in No. 130; gas fitting was done in Nos. 11, 14, 17, 36, 92, 93 and 184, and electric bells wired between Major General and Adjutant General offices as well as in messenger's room Marine Department.

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

MAJOR'S HILL PARK.

The lawn benches were repaired and painted and some new ones supplied. The grounds were maintained to the satisfaction of the department.

Contractor, L. Garello, Ottawa.

PARLIAMENT BUILDING.

Four old locomotive pattern steam heating boilers were taken out and replaced by three tubular boilers set in brickwork. The steam pipes in the boiler house as well as those in basement between Commons and Senate were covered with non-conducting material; a gas cooking stove was supplied to the restaurant kitchen and another to the chief messenger's quarters; a steam main was run from the boiler-room to the heating coils in clerk of journals' office; electric bells were provided for Sir R. Cartwright's room and the G.N.W. Telegraph reporters' room, gas fitting for room of Mr. Joncas, and the electric light installed in the office of the Serjeant at Arms. A ventilating pipe was put in No. 25½, and some chemical fire extinguishers were supplied. Extensive alterations were made in the Commons and Senate galleries.

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

PARLIAMENT GROUNDS.

The yards at Senate and Commons were altered; a new stairs was built down to Lovers' Walk; repairs were made to sidewalks, summer houses, railing and bridges of Lovers' Walk, and some new benches were supplied. The snow was removed and the ice stored and delivered. The grounds, etc., were maintained to the satisfaction of the department.

Contractor for maintenance of grounds, etc., N. Robertson, Ottawa. Contractor for removal of snow, Wm. Moore, Ottawa.

PUBLIC BUILDINGS, REPAIRING STREETS, ETC.

Scraping, cleaning, repairs were made to the roadway of east and west Canal Streets, and on both sides of locks, Nepean Point roadway, Wellington, Bank, 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 sidewalks and crossings of Wellington Street, Cartier Square, St. Patrick Street and at the Museums were repaired, the boulevard on Wellington Street was also repaired, the grass of the Geological Museum and Cartier Square was kept clipt, and the ashes removed from the Langevin Block, Museums and Printing Bureau, the various roadways, sidewalks, foot paths, roofs and yards were kept clean of snow during the winter.

Work done by the departmental staff. Contractor for the removal of snow, W. H. Cuddie, Ottawa.

SMITH'S FALLS.

PUBLIC BUILDING.

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

Plans, &c., prepared by this department. Clerk of works, Wm. Corbett, Smith's Falls.

Contractor for building and fittings, Robert Cameron, Almonte. Contractors for heating apparatus, McKinley & Northwood, Ottawa.

ST. CATHARINES.

PUBLIC BUILDING.

A new postal bag rack was supplied, some additional gas fitting done; all woodwork and external iron work, including roof covering was painted; some linoleum was supplied and some repairs to fittings effected.

Work done under the supervision of the caretaker.

ST. THOMAS.

PUBLIC BUILDING.

A new flag staff was supplied and sundry minor repairs made to plastering, fittings and furniture.

STRATFORD.

PUBLIC BUILDING.

Plans for an additional story on building and clock tower, and a one story and basement addition to Inspector's building, and for the renovation of this building fittings, &c., were prepared, the work contracted for, and is now nearly completed for occupation.

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Plans, &c., prepared and work supervised by this department. Clerk of works, D. Scrimger. Contractor, Jno. E. Askwith, Ottawa, Ont.

TORONTO.

DRILL HALL.

This building is completed and occupied. Plans, &c., prepared by this department. Supervising architect, R. C. Windeyer, Toronto. Clerk of works, R. L. Beale, Toronto. Contractors for heating, Bennett & Wright, Toronto.

TRENTON.

POST OFFICE, &C.

The plastering was repaired, the walls tinted and the ceilings whitened; the woodwork of building, gates, &c., was painted; the space between the post office screen and the ceiling was filled in with wire mesh and some black-boards were supplied.

Work done under the supervision of the caretaker.

WALKERTON.

POST OFFICE.

Repairs were made to eavestroughs, stairway and some minor works, and the yard was gravelled.

Work done under the supervision of the caretaker.

WINDSOR.

PUBLIC BUILDING.

Additions were made to the gas fittings, the post office locks were repaired, a new porch and some furniture were supplied.

PROVINCE OF MANITOBA.

BRANDON.

POST OFFICE.

The heating apparatus and plumbing were repaired; furniture and fittings were supplied to the customs and post office as well as some linoleum and storm sashes to the customs, and the customs offices were painted and kalsomined.

INDUSTRIAL SCHOOL.

This building is completed and transferred to the Department of Indian Affairs for occupation. During the fiscal year contracts were entered into for a supplementary hot air heating apparatus to heat the wing as well as a hot water system for baths, a brick cistern in basement and cavestroughs and down pipes connected with the cistern, all of which works are completed.

Plans prepared by this department, clerk of works, D. Smith, Winnipeg, Man.

Contractors for building, Harrington & Chambers.

Contractors for heating apparatus, ventilating apparatus, Smead, Dowd Co. Toronto, Ont.

Contractor for supplementary heating, Geo. E. Toms.

Contractors for hot water system, Plaxton Bros. Winnipeg, Man.

Contractor for cistern and connections, T. M. Harrington,

Contractor for troughs and down pipes, J. L. Wells.

NORTH-WEST TERRITORIES.

WOLSELEY, ASSA.

COURT HOUSE.

This building which was described in my report of last year is practically completed.

Plans, etc., prepared by this department; clerk of works, Chs. Taylor.

Contractors for construction, E. A. Banbury & R. A. Magee.

Contractors for hot-water heating apparatus, McKinley & Northwood, Ottawa.

LETHBRIDGE, ALTA.

PUBLIC BUILDING.

The building has been completed and is being furnished with a hot air heating

apparatus. Plans, etc., prepared by this department.

Clerk of works, Wm. Cluston, Lethbridge, Alta. Contractor for heating apparatus, J. F. Kirkham.

REGINA, ASSA.

GOVERNMENT HOUSE.

A hot air pumping engine was connected with the water supply and a fire service with hydrants, nose, etc., put in; the plastering, painting and papering were repaired and in part renewed; the drains were overhauled and the piano and a portion of the furniture renovated.

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

REGINA, ASSA.

COURT HOUSE.

This building which was described in a previous report is completed, fitted up with a hot water heating apparatus, furnished and has the incandescent electric light installed. Plans, etc., prepared by this department.

Clerk of works, S. A. Clark, Regina.

Contractor for building and fittings, Chs. Willoughby, Regina.

Contractors for heating, Manitoba Plumbing Co., Winnipeg, Manitoba.

Contractors for electric bells and wiring lighting, McDonald Bros.

MOOSOMIN.

COURT HOUSE.

On 12th November, 1894, a contract for alteration of and an addition to this building was entered into, and the work was nearly completed at the close of the fi-cal year. The addition measures 20 ft. by 40 ft. and consists of a stone basement and two stories of wood. The ground floor and first floor each contain two offices and the ground floor a brick vault.

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

PROVINCE OF BRITISH COLUMBIA.

NEW WESTMINSTER.

POST OFFICE.

Some repairs were made to roof, glazing, plumbing, stoves, etc. Work superintended by F. C. Gamble, resident engineer, Victoria, B.C.

VICTORIA.

CUSTOM HOUSE.

Some alterations were made in appraiser's office; repairs were made to ventilation, locks and plumbing, and some new furniture and carpots supplied.

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

MARINE HOSPITAL.

The drains were repaired and cleaned. Work superintended by F. C. Gamble, resident engineer, Victoria, B.C.

POST OFFICE, ETC., BUILDING.

A bag rack, two letter sorting frames and some pigeon holes, drawers, tables and stools were supplied; and ordinary repairs were made to plumbing, gas fixtures, furniture, grates, etc.

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

NEW PUBLIC BUILDING.

On 16th January, 1894, the Government purchased from Canada Western Hotel Company, lots 1 to 8 between Government and Wharf Streets, with frontage of 150 ft. on Government Street.

Plans, etc., were prepared and a contract for the construction was entered into

on 21st November, 1894.

The building is to have stone outside walls with basement and ground floor partitions of brick, and the floors, roof and remaining partitions of wood; and will consist of a main portion 136 ft. by 75 ft. having three full stories, a basement and a mansard, and also "L" shaped annex of one story and basement, consisting of a portion to be devoted to stores 75 ft. by 26 ft., a bonded warehouse 109 ft. by 38 ft., and in rear of the bonded warehouse a one story driveway 30 ft. by 29 ft. 4 inches.

The main building is to contain in the basement furnace and fuel-rooms, store-room, water closets, etc.; the ground floor is to be the post office, the first floor the customs and finance, the second floor the inland revenue and post office, inspector's

office, and the attic is in part to be occupied by the caretaker.

Plans, etc., prepared by this department and work to be supervised by F. C.

Gamble, resident engineer, Victoria, B.C.

The contract was signed on 21st November by the late F. Toms of Ottawa and on his decease was transferred by his estate to Elford & Smith, of Victoria, B.C., who signed a contract for the construction on 14th March, 1895.

NEW DRILL HALL.

An out building for officers and men's water closets and fuel-room was constructed; suspension rods were put in to support galleries of hall, and an extension ladder and some clothing racks supplied.

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

Contractor for the addition, Geo. Glover, Victoria, B.C.

MILITARY STORE HOUSE.

Tenders were called for by public advertisement and a contract entered into on the 21st June, 1895, for the erection of this building.

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

Victoria, B.C.

WILLIAM'S HEAD, B.C.

QUARANTINE STATION.

A derrick was erected on wharf; a telephone line was built connecting Victoria with William's Head, and another connecting the various buildings in the grounds; the sulphur dioxide blast was removed from steamer "Earl" and set up and furnished with a shelter on wharf, some gangways were provided for wharf and minor repairs made to gate, pipe line, etc.

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

DOMINION BUILDINGS.

FUEL.

Tenders were invited by public advertisements, for the supply of coal at 127 of the public buildings, and coal and wood supplied to over 180 buildings in all.

LIGHTING.

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

WATER.

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

ENGINEERS, FIREMEN, &c.

The various engineers, firemen and caretakers, 237 in number, including employees at parliament and departmental buildings at Ottawa, and the heating apparatus of Dominion public buildings, with the exception of those of the various penitentiaries and the military buildings, are under the control of this branch of this department.

GENERALLY.

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

APPENDIX No 3

REPORT

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MARBOURS AND RIVERS, DREDGES, DREDGING AND SURVEYS

THROUGHOUT THE DOMINION

FOR THE FISCAL YEAR ENDED 30TH JUNE, 1895

APPENDIX No. 3.

REPORT ON HARBOURS AND RIVERS, DREDGES, DREDGING AND SURVEYS THROUGHOUT THE DOMINION, FOR THE FISCAL YEAR ENDED 30TH JUNE, 1895.

DEPARTMENT OF PUBLIC WORKS OF CANADA, CHIEF ENGINEER'S OFFICE, OTTAWA, 1st October, 1895.

Sir, -I have the honour to submit the following report on the works under my

charge during the fiscal year ended 30th June, 1895.

These works consist in the construction of, and repairs to wharfs, piers and breakwaters. Dredging and the maintenance of the dredging plant belonging to the department. The construction and maintenance of graving docks. The maintenance and administration of slides and booms. The construction and maintenance of interprovincial bridges, and of bridges in the North-west Territories.

Hydrographic surveys, and examinations required for the preparation of plans

and reports.

WHARFS, PIERU AND BREAKWATERS.

During the year 1894-95, works were carried on at the following places:

Nova Scotia.

Babin's Cove Richmond County Construction of wharf.
Bass River
Blanche HarbourShelburne Co Extension of groin.
Blue Rock Antigonish CoStorm protection work.
Boularderie Island
Monday PointCape Breton CoConstruction of wharf.
Broad Cove MarshInverness CoRepairs to wharf.
Broad CovoLunenburg Co do breakwater.
Caribou IslandPictou CoHarbour improvements.
Church PointDigby CoConstruction of block.
Cow Bay Cape Breton CoRepairs to breakwater.
Cribbin's PointAntigonish CoRepairs to wharf.
Grand EtangInverness Co
Great Village Colchester Co Repairs to wharf.
Harbourville Lunenburg Co Repairs to pier.
L'ArdoiseRichmond CoReconstruction of breakwater.
Little HarbourShelburne CoImprovement of channel.
MargareeInverness CoRepairs to breakwater and to beach
protection work.
MargaretavilleAnnapolis CoRepairs to breakwater.
McNair's Cove Antigonish Co do
Meagher's Beach Halifax Co Repairs to protection work.
Monk's Head Antigonish CoCutting boat channel.
Nyanza
ParrsboroCumberland Co Repairs to pier.
Pictou IslandPictou Co Repairs to wharf.
Port George Annapolis Co Repairs to breakwater.

Port MedwayQueen's Co.	Repairs to protection work.
Port Mouton (proper). do	Repairs to protection pier.
do (south-west). do	Repairs to breakwater.
Roseway BeachShelburne	Co Repairs to beach protection.
South Ingonish Victoria Co	o do
	Repairs to beach protection.
	CoImprovement of channel.
Front CoveDigby Co	Repairs to breakwater.
White Haven CanalGuysboro' (CoRepairs to work.

New Brunswick.

Buctouche	Kent Co	Repairs to wharf.
Cape Tormentine		
Hopewell Cape	Albert Co	Repairs to ballast wharf.
Negro Point, St. J.	ohn	•
Harbour	St. John Co	Repairs to breakwater.
Pointe du Chêne	Westmoreland	Co Reconstruction of breakwater.
		Repairs to dam.

Prince Edward Island.

Bay Fortune King's Co Harbour improvements.
Bay ViewQueen's Co Repairs to pier.
Campbell's CoveKing's Co Repairs to breakwater.
China PointQueen's CoRepairs to pier.
Georgetown do
Hurd's Point Prince Co Improvements.
Kier's Shore do do
Lambert's PierKing's Co Repairs to pier.
Miminegash Prince Co Repairs to works.
New London Queen's Co do
North CardiganKing's CoRepairs to pier.
PinetteQueen's Co do
Rustico doImprovements.
Souris King's Co Repairs to breakwater.
Stephen's doImprovements.
St. Mary's Bay do do
Wood IslandsQueen's Co Reconstruction and repair of eastern
breakwater.

Quebec.

Baie St. Paul Charlevoix Co Extension of wharf and repairs to block. Cacouna Temiscouata Co Construction of wharf.
Cap de la Magdeleine, Champlain Co Extension of wharf.
Chicoutimi
Etang du NordGaspé Co
Grandes BergeronnesRemoval of rocks.
Grande Décharge Chicoutimi Co Extension of pontoon.
Isle Verte Temiscouata Co Wharf improvements,
Lake St. John DistrictImprovements to navigation.
Matane Rimouski Co Repairs to pier.
Murray Bay do
New Carlisle Bonavenure Co do
Petite Rivière Saint-
François
Port DanielBonaventure CoRepairs to pier.
2012 Zanot management to prote

Queen's Wharf, Quebe	c	Repairs to wharf.
Rivière du Lièvre	Ottawa Co	Protection to dam.
Rivière du Sud	Montmagny Co	Protection works.
		. Improvements to navigation.
Roberval	Chicoutimi Co	Extension of wharf, &c.
		Reconstruction of pier.
	do	
St. Michel	Bellechasse Co	Repairs to pier.
Touladie River	Témiscouata	Improvements to navigation.
		Improvements to wharf.
	Yamaska Co	

Ontario.

Burlington Channel	Wentworth Co	.Repairs to east pier.
Dyer's Bay	.Bruce Co	.Construction of pier.
Goderich	.Huron Co	.Extension of pier.
Kingston	.Frontenac Co	.Removal of shoal.
Kingsville	.Essex Co	.Repairs to pier.
		.Harbour improvements.
		.Extension of pier and dredging.
	.Norfolk Co	
	.Kent Co	
Sault Ste. Marie	.Algoma Co	. do
Southampton	Bruce Co	Repairs to works.
Thornbury	.Grey Co	Repairs to pier.
Toronto	.York Co	Construction of harbour works.

Manitoba.

Hnausa	Lake Winnipeg	Construction of wharf.
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British Columbia.

Columbia River Above Golden	Improvements to navigation.
Columbia River Below Kcotenay	
Columbia River At Revelstoke	Protection works.
Fraser River Garry Bush	do /
Fraser River Mouth of river	Jetty works.
Fraser River	Survey of river.
Kootenay River	Improvements to navigation.
Skeena River	
Kicking Horse River	Protection works. Improvements to navigation.

WHARFS, PIERS AND BREAKWATERS.

NOVA SCOTIA.

BABIN'S COVE.

Babin's Cove, Richmond County, is on the northern side of Arichat Harbour,

Isle Madame, and nearly opposite its western entrance.

In December, 1893, a contract was entered into for the construction of a wharf at this place for winter service, which included the grading of a road and rock cutting 410 feet in length; an embankment of stone 12 feet in length; and a block and span structure consisting of an inner block 20 by 20 feet on top, and an outer one 25 by 40 feet on top, with an opening or span of seventeen and one-half feet.

At the close of the year 1893-94 the road embankment and rock cutting were about one-half completed; the stone embankment was finished, and the inner block was in place, and built up to half tide and ballasted.

During the fiscal year 1894-95 the work under contract was completed.

The depth at the outer end of the wharf at extreme low water is 11 feet. Spring tides rise 5 feet

BASS RIVER.

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

In December, 1894, a contract was awarded to Mr. John McMillan of Port Hood,

C. B., for the construction of a pile wharf at a cost of \$2,840.

Work was commenced early in April and at this date (June 30th, 1895) the work is nearly completed.

BEAR TRAP.

Bear Trap Harbour, Lunenburg County, is situated on the south-east coast of Lunenburg County, about midway between the towns of Liverpool and Lunenburg, or a distance of 16 miles from each, and half a mile north-east from the entrance of Broad Cove.

It is not a harbour properly speaking, as it is fully open to the sea, but is merely

a small indentation in the coast line not more than 600 feet deep.

It is inhabited only during the fishing season by fishermen from Broad Cove, of

whom about 16 are employed, using small boats.

In 1885, the department expended the sum of \$200 in digging a channel (175 feet long, 10 feet wide and having a depth of 53 at H. W. O. S. T.) from the head of the little cove to the pond on the upper side of the road to enable the fishermen to enter the latter with their boats and there find shelter from south and east gales.

During the year the sum of \$40 was expended in re-opening the channel that

had been filled with sand and gravel washed in by the waves.

BLANCHE HARBOUR.

Blanche is a small scattered fishing peninsula of about 130 people situated on the southern extremity of the peninsula forming the western side of Negro Harbour, about 18 miles nearly due south of Shelburne, the county town.

The only harbour for fishing boats in the neighbourhood is a small tidal pond. nearly dry at L. W. O. S. T. with a narrow and exposed channel leading into it, and an area at H. W. O. S. T. of some two or three acres. The sides of the entrance

channel being composed of fine gravel constantly shifting under the action of the waves, it became necessary, for the permanence of the harbour to protect it, and in 1892 the department built a groin 72 feet, in length, on its eastern or exposed side.

During the year the sum of \$300 was expended in building an extension to this

groin 50 feet in length.

The work is 10 feet wide on top and about 7 feet high, built of round cribwork and filled with ballast.

BLUE ROCK.

Blue Rock, Antigonish County, is on the southern coast of St. George's Bay, two and one-half miles to the eastward of Tracadie Harbour.

A breakwater extending three hundred and twenty-six feet in a south-westerly direction from Blue Cape, was completed in 1888. The depth at extreme low water at the outer end is 12 feet and over the area sheltered from the north-east, from 12 to 5 feet.

It having been ascertained that the face timbers below the line of low water had been weakened and in places destroyed by the teredo, and that the ballast had settled 5 feet below the upper ballast floor on the seaward side, and 2 feet on the inner side for a distance of 140 feet from the outer end, repairs were undertaken in 1892-93 and the sum of \$496.99 was expended in close-piling the outer end, and for a distance of 65 feet off the seaward side, and 15 feet on the inner side from the outer end; in reballasting for a distance of 60 feet from the outer end; and in placing large stone on the seaward side for a distance of 60 feet beyond high water mark.

In 1893-94 the sum of \$999.96 was expended in continuing the work commenced the previous year. One hundred and fifteen feet of the breakwater (60 to 175 feet from the outer end) was reballasted, and a stone protection work sloping one and a half to one from a height of three feet above low water mark, was carried along the

seaward and outer end faces.

During the fiscal year 1894-95 the sum of \$497.57 was expended in completing the stone protection work on the seaward side and at the outer end, commenced in 1892-93 and continued in 1893-94; and in placing stone along the inner face sloping 1 to 1 from high water mark, for a distance of 40 feet from the outer end.

Spring tides rise 4 feet.

BOULARDERIE ISLAND-MONDAY POINT.

Menday Point, Cape Breton County, is on the southern side of Boularderie

Island, three and a half miles to the westward of the Little Bras d'Or bridge.

A contract was entered into in April, 1894, for the construction of a wharf 160 feet in length, consisting of a stone embankment 20 feet wide on top, the sides having a slope of one and a half to one; and a cribwork had 22 by 44 feet.

The substructure of the cribwork head was framed in June, 1894, but at the

close of that month no portion of the work had been put in place.

During the fiscal year 1894-95 the work under contract was completed.

The depth at the outer end of the wharf is 11 feet at low, or 12 feet at high lake level.

BROAD COVE.

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

north from Margaree Harbour.

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

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

end, and several of the outer pockets on the east were re-ballasted.

In December, 1890, the work was badly damaged; the superstructure was destroyed over a distance of 100 feet from the outer end, and the top broken up for a further distance of 60 feet.

The outer block went down four or five feet below low water, and the second block to low water over 44 feet of its length; ballast went out of the face chambers on the east side to within 160 feet of the inner end.

During the years 1891-92-93 the work was reconstructed to within 56 feet of the

outer end, and the face chambers on the east side were reballasted.

Of the amount available for this work during 1893-94 the sum of \$91.00 was expended in the settlement of payment due for the completion of the ballasting of the outer end in 1892-93 and the balance, \$209.00 was applied to close fendering about 170 feet of the outer end, with materials which had been procured for that purpose during the preceding year.

During the autumn of 1893, and again in January, 1894, the work sustained serious damage through the loss of the ballast which was washed out through openings at the bottom on the eastern side. Subsequently it was carried away down

to below low water to within 207 feet of the shore end.

During the fiscal year 1894-95 the sum of \$500 was expended in reconstructing the work from 207 feet from the shore end, or from the outer end of the shore block,—to within 2 feet of required height, on the west side over 15 feet at the bottom from 1 foot below low water, 39 feet on top; and on the east side over 28 feet at the bottom, from 2 feet below low water, and 52 feet on top; and in procuring all the timber required to complete the new work with the exception of 88 fenders.

Spring tides rise 4 feet 5 inches.

BROAD COVE.

Broad Cove, Lunenburg County, is athrifty fishing and farming settlement of about 350 people, situated on the Atlantic coast, at the southern corner of Lunen-

burg County and distant 20 miles by road from Bridgewater.

The breakwater, which affords the only shelter to about 20 fishing boats, was built in 1876 at a cost of \$4,000, of which \$3,000 was contributed by the Federal and \$1,000 by the Provincial Government. It is a well built structure of close-faced, stone-filled cribwork 250 feet long, 22 feet wide and 12 feet high at the outer end.

During the year the sum of \$500 was expended in making extensive and much

needed repairs to this structure.

The work done consists in the raising of the outer end about 14 inches to make up for settlement caused by worms (limnoria) eating away the bottom face timbers; new flooring, stringers and 3-inch plank, on the outer 100 feet; on the seaward face 100 feet of the work was sheathed with vertical 3-inch plank, and 36 new fenders were bolted on; on the outer end new planking and 7 new fender piles; on the inner face 15 new fender piles. In the outer end about 100 tons of new ballast was put to replace that fallen out. Along the seaward face also a large quantity of large boulders was placed to break the force of the waves. The work is now in good condition.

CARIBOU ISLAND.

Caribou Island, Pictou County, is on the Northumberland Strait, 5 miles to the westward of the entrance to Pictou Harbour. It is about 4 miles in length and half a mile in average width.

Caribou Harbour, sheltered by Caribou Island and a smaller island lying to the eastward of it, is an extensive place 6 miles in length and 1 mile in width, but the

water is shallow.

The principal entrance between the two islands has only a depth of 4 feet at extreme low water, and the flats between the mainland and the western extremity of Caribou Island are dry at extreme low water, except in a few small channels. Spring tides rise 6 feet, neaps 4 feet.

A causeway of brush and stone 1,330 feet in length and 18 feet in width on top, between the mainland and the western extremity of the island, commenced in 1890-91 and continued in 1892-93 and 1893-94 remained in an unfinished condition, being covered in places at half tide.

During the fiscal year 1894-95 the sum of \$299.38 was expended in raising the work which is now up to about ordinary high water level over 560 feet of its length,

and about one and a half feet below that level over the remaining 770 feet.

CHURCH POINT.

Church Point, Digby County, is situated on the south shore of St. Mary's Bay,

directly opposite Petit Passage, about 8 miles south-west from Weymouth.

The breakwater which is one of the most important in St. Mary's Bay, was begun about 50 years ago by the inhabitants and local authorities, and has been extended and improved on several occasions since. In 1875-76 the department expended the sum of \$2,000, the inhabitants contributing an equal amount, in repairing the northern face and constructing an **L** 72 feet by 20 feet, at right angles to it to prevent the gravel from working round the outer end.

During the year a new block of round log cribwork 30 feet long, 15 feet wide and 13 feet high, was built out in a westerly direction from the extremity of the main breakwater, at a cost of \$350 to offer a further check to the working of the

gravel round the end of the work.

COW BAY.

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

The bay is two and a half miles wide at its mouth, and being open to the

Atlantic from the east, affords no safe anchorage during gales from that quarter.

A breakwater was built on the north side of the bay some twenty or twenty-five 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 appro-

priated 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. During the fiscal year 1894-95 the sum of \$4,289.45 was expended in renewing the covering of the roadway for a length of 380 feet (220 to 600 feet from the shore end), and in urgent repairs to the outer works.

The repairs to the outer works included reconstructing and close piling about 120 lineal feet of outer face work, replacing about 500 cubic yards of ballast in the two outer counterforts, and in temporary repairs to the covering of the outer block

and two outer counterforts.

The breakwater, prior to the gales of the 3rd and 8th February, 1895, consisted of an inner work extending from within 220 feet of the shore end to the outer end, and of counterforts with connecting outer face works, from within 580 feet of the

shore end to within 56 feet of the outer end. The outer and inner works were about 22 feet apart, and were connected by tie walls. The spaces between them were filled with earth and stone ballast.

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

CRIBBIN'S POINT.

Cribbin's Point, Antigonish County, is on the west side of St. George's Bay, 8 miles to the southward of Cape George and 5 miles to the northward of the entrance to Antigonish Harbour.

A wharf, commenced in 1890-91 and completed the following year, extends 300 feet in a southerly direction from the point, and has an approach 195 feet in length.

The approach consists partly of side cuttings and embankment with a stone retaining wall, and partly of a through cutting 18 feet wide at the bottom with sides sloping one and one-half to one.

The wharf is 20 feet in width on top for a distance of 120 feet from the inner

end, and 30 feet for the remaining 180 feet.

The inner 50 feet is of stone, and the outer 250 feet of close-faced timber work fully ballasted and protected by sheathing and fenders. The depth at extreme low water at the outer end was at the time of the completion of the work 11 feet.

Spring tides rise 4 feet.

In 1893 94, a small amount was expended on works required to prevent damage

by water to the roadway and slopes.

During the fiscal year 1894 95 the sum of \$279.91 was expended in placing additional ballast in the outer 180 feet, over the whole of which the ballast had settled two and one-half feet; in repairs to the cap-timbers and covering, and in placing about 15 cubic yards of large stone on the seaward side, 120 feet from the inner end.

GRAND ETANG.

Grand Etang, Inverness County, is situated on the Gulf of St. Lawrence, about midway between the harbours of Margaree and Cheticamp.

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

At the close of the year 1893-94 the work was being prosecuted vigorously, the

expenditure to that date amounting to \$4,962.04.

During the fiscal year 1894-95, the work under contract was completed with the exception of the excavation to low water between the piers, including the removal of the roadway and bridge.

The works consist of two piers, placed 87 feet apart, except at the entrance

where the distance between them is narrowed to 44 feet.

Each pier consists of brush and stone work 135 feet in length; brush and stone work with outside slopes of 3 to 1, 130 feet in length; open faced cribwork, 100 feet in length; and a close-faced cribwork head 30 by 40 feet, the substructure of which is of creosoted timber.

About 200 feet of the brush and stone work on each side is founded on a bottom excavated to 1 foot above extreme low water, and the remainder of the pier work, on the natural bottom, the depth at the outer end being about 4 feet 6 inches at extreme low water.

In order to make the pond available for boats and small vessels, a channel is to be opened between the piers by dredging to 6 feet at low water, but this cannot be done until after the construction, by the Provincial Government, of a bridge across the pond, about a quarter of a mile from the entrance.

Spring tides rise 4 feet.

GREAT VILLAGE.

Great Village, Colchester County, is a thriving and prosperous village of about 1,000 people, engaged in farming, ship-building and lumbering, situated on the north side of Cobequid Bay and on the Great Village River, 1½ miles above its mouth. It is 15 miles west of Truro, the county town, at the extreme head of the bay, and 3½ from

Londonderry Station on the Intercolonial Railway.

In 1891 the department built a new wharf on the site of an old one, on the left or east bank of the river just below the village. During the year the sum of \$450 was expended in some necessary repairs to this work consisting in (a) the raising the north-west corner of the wharf a height of $4\frac{1}{2}$ feet to make up for settlement caused by scour, (b) filling a hole about 6 feet deep at the same corner, with brush and stone and (c) protecting with brush and stone the bank of the river, at and near the north-east corner of the wharf, in order to prevent freshet from wearing away the bank and causing further settlement of the structure.

HARBOURVILLE.

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

During the year the sum of \$110.71 was expended in repairing the western

breakwater or wharf.

The work done consists of the building of 200 lineal feet of cribwork, 6 feet wide, and 2 logs high, along the base of the east side of the work to prevent the stream from undermining it; the placing of 12 half-round fenders on the outer end, and the fastening of a small portion of the floor.

HILTZ'S NARROWS.

Hiltz's Narrows, Lunenburg County, form the entrance to a sheltered cove or lagoon of some 150 acres in extent, situated on the west side of Mahone Bay, about 6 miles south-west from Chester and 4 north-east from the village of Mahone Bay.

In 1875-76 the Provincial Government built a cribwork warping pier, 270 feet long, 8 feet wide and 7 feet high, on the north side of the entrance, which at its narrowest point is only 200 feet wide, to enable fishing boats to pass in and out at ebb and flood tide, when there is a very strong current.

During the year the department spent the sum of \$60 in repairs to this little structure. The work done consists of the rebuilding of a length of about 12 feet that had been broken down by ice, and the placing and bolting of 40 new fenders.

L'ARDOISE.

Lower L'Ardoise, Richmond County, is situated on the eastern side of St. Peter's Bay, near its entrance from the Atlantic, and about 9 miles from the southern entrance to St. Peter's Canal.

During 1876-77 an isolated breakwater, 400 feet in length, was built off Martin's Point, in from 5 to 10 feet at low water; but owing to its exposed position

it met with constant damage, and in 1883 was almost entirely destroyed.

During 1891 a contract was entered into for the reconstruction of this break-water and the work was completed in August, 1893. The new work consisted of a timber core, 400 feet in length and 20 feet in width, placed on the remains of the former structure in from one to four and one-half feet at low water, its top standing one foot above high water, the whole being covered with stone, sloping 3 to 1 on the seaward side and ends, and 2 to 1 on the inner side. The whole of the surface of the area above low water mark was covered with stones of not less than 15 cubic feet in capacity, the spaces between the stones above the line of high water being filled with cement concrete.

Soon after completion, the work received damage during a southerly gale. The covering stones on the seaward side between low and high water marks were more or less disturbed, and at the outer end of the inner slope, about 50 cubic yards of ordinary ballast and 50 of the covering stones were carried away.

Subsequently more stone was carried away from the outer end of the inner slope and the covering stones were disturbed for a distance of about 125 feet from the

outer end.

During the fiscal year 1894-95 the sum of \$4,293.87 was expended in procuring

the necessary plant, and in effecting repairs.

One hundred and fifty-nine scow loads averaging 15 tons, or 6 and a half cubic yards per load, of large stone were placed where required, and 150 barrels of Portland cement were used in making concrete to fill in the spaces between the covering stones.

The work done included reconstructing the slopes and renewing or readjusting the covering stones where required, (96 scow loads of stone being used for this purpose), placing 63 scow loads of stone at the toe of the slopes, principally near the outer end; and in filling in, with concrete, the spaces between the covering stones of a portion of the crown of the work, and of the side and end slopes down to about high water level.

LITTLE HARBOUR.

Little Harbour is a small cove situated on the extreme south coast of Lunenburg County, four miles east of the Queen's County boundary, 13 miles north-east from Liverpool and about 17 miles south-west from Lunenburg and 1 mile south from Broad Cove.

Immediately at the cove there are no residents, but within a radius of about

two miles is a population of some 200 people, engaged in farming and fishing.

In 1881 the department expended the sum of \$200 in digging a channel in the cove four or five hundred feet long, 14 feet wide, and with a depth of water of 2½ feet at L. W. O. S. T.

During the year the department spent the sum of \$240 in widening and lengthening the channel, by hand digging, to a length of 525 feet, a width of 30 feet, and a depth of $2\frac{1}{2}$ feet at L. W. O. S. T. This work is of great advantage to the fishermen.

MARGAREE.

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

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

Spring tides rise 4 feet.

Breakwater.

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 works 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 outer works were repaired and reballasted and a new cribwork was built over 130 feet of the remains of the old Provincial Government work, between the outer works and the shore, to within one and a half feet of the required height; of this, 65 feet averaged 2 feet in height and 20 feet in width, and the remaining 65 feet, 4 feet in height, and 18 feet in width.

In 1892-93 the sum of \$1,083.95 was expended in raising and covering the 130 feet of work undertaken the previous year, and in completing it by constructing 40 feet of cribwork 18 feet wide and 6 feet in average height; and in the construction of a new cribwork 186 feet in length, 18 feet wide and two and a half feet in average height, and a work of brush and stone 168 feet in length of the same dimensions, over the remains of the old Provincial Government works, between the work previously described and the shore.

During the fiscal year 1894-95 the sum of \$463.96 was expended in repairing and reballasting portions of the outer work, and in raising the old Provincial

Government work between the outer work and the shore.

Seventeen chambers or pockets were reballasted from the bottom; of these, 4 at the outer end were filled partly with cement concrete (25 barrels of Portland cement having been used for this purpose) and the remainder with selected ballast. About 90 lineal feet of cap-timber was renewed, and the covering, where taken up, was refastened with steel spikes.

One hundred and eighty-five feet of the old Provincial Government work was raised one and one half feet with stone, and the remaining 180 feet, 2 feet with brush

and stone.

Beach protection work.

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

During the months of April and May, 1895, the sum of \$981.86 was expended in closing the two openings in the beach. The larger opening was closed by a work of brush and stone 24 feet in width on top, and 3 feet above extreme high water; and a work 10 feet in width built across the smaller opening by the fishermen, was widened to 20 feet and raised to a height of two and a half feet above extreme high water.

MARGARETVILLE.

Margaretville, Annapolis County, is the largest and most important village on south coast of the Bay of Fundy between Digby Gut and Scot's Bay. It is 42 miles north-east from the former and 36 miles south-west from the latter, and 8 miles north from Middletown, an important station and junction on the Dominion Atlantic Railway.

During the year the sum of \$494.07 was expended in filling with new solid work a breach in the seaward face of the breakwater made by a severe gale in March, 1894. The new work is 25 feet long, 15 wide and from 12 to 14 feet high. The structure is now in good contition, but not long enough to be of very much

service, the outer 203 feet having been destroyed in previous years.

M'NAIR'S COVE.

McNair's Cove, Antigonish County, is on the western shore of St. George's, 2

miles south of Cape George.

A breakwater was built on the north side of the cove in 1872-73. In 1875 the outer end, which had settled, was built up to the original. In 1878 repairs were made and a new block was placed at the outer end.

In 1879 the work was carried away by drift ice to within 100 feet of the shore end, down to from 6 to 3 feet below low water. During the summer of 1883, 70 feet

was rebuilt, and during the winter of 1884 the work was extended 94 feet.

The 94 feet extension was badly damaged by drift ice in April, 1884, and was subsequently carried away.

A contract entered into in 1887, for the reconstruction of 160 feet of the breakwater, was completed in 1888.

The new work is 32 feet in width on the top, and had a face sloping one to one from 2 feet above low water, on the seaward side and at the outer end. It was founded on a bottom dredged to from 13 feet at low water at the outer end, to 7 feet at the inner end. The seaward and outer end faces were protected by close piling.

In 1890-91 the covering and floor stringers over about 70 feet of the inner portion of the breakwater were renewed, and 125 piles were procured for replacing the

close piling of the outer work, but were not used.

In 1892-93 the sum of \$1,299.62 was expended in placing a talus of quarried stone on the seaward side of the 160 feet extension over a distance of 110 feet from the inner end.

In 1893-94 the sum of \$3,212.37 was expended in increasing the talus on the seaward side of the outer 160 feet, which was commenced in 1892-93; in cutting down and reconstructing with vertical faces, a length of 20 feet of the outer end of the work, and in driving 43 out of the 75 creosoted piles, procured for close piling the outer 20 feet.

During the fiscal year 1894-95 the sum of \$797.11 was expended in completing the close piling at the outer end and the talus on the seaward side, near the inner end to prevent sand from being carried across the work.

MEAGHER'S BEACH.

Meagher's Beach, Halifax County, is a narrow neck or spit of shingle and coarse gravel, about half a mile in length, projecting from the west side of McNab's Island, at the entrance of Halifax Harbour.

Early in April, 1894, a severe storm damaged the beach protection works that

protect the boat harbour, immediately to the north of the beach.

During the year thorough repairs were made at a cost of \$420. The work done consisted of flooring and ballasting 130 feet in length of the pile work; flooring and ballasting 50 feet in length of cribwork; and flooring and ballasting a groin 50 feet long besides fixing new walings to the pile work, and a number of new fenders to the cribwork.

MONK'S HEAD.

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

Bay, between the Harbours of Antigonish and Pomquet.

A large sheet of water to the westward of Monk's Head, known locally as "Dunn's Lake" is separated from St. George's Bay by a beach of sand, and from Antigonish Harbour by a neck of low land 692 feet in width at low water level.

The sum of \$500 was appropriated for expenditure during 1894-95 in opening a channel for boats between Dunn's Lake and Antigonish Harbour. The channel when completed is to be 4 feet wide at the bottom, at the level of extreme low water with

sides sloping one and one-half to one.

Of the amount appropriated \$444.87 was expended in making a cutting, including side slopes, to within one and a half feet of extreme low water and in constructing a highway bridge. A further sum of \$55.06 was expended in acquiring a right of way for the boat channel, making a total expenditure of \$499.93.

The work of completing the channel is in progress.

Spring tides rise 4 feet, neaps 2 feet.

NYANZA.

Nyanza, Victoria County, is a settlement between Middle and Baddeck Rivers on Indian Bay, a reach of an arm of the Bras d'Or Lake known as St. Patrick's Channel. It is 7 miles from Baddeck, the shiretown, and 11 miles from Whycocomagh.

In November, 1893, a contract was made for the construction of a brush wharf to extend 136 feet into 12 feet at low or 13 feet at high lake level, and at the close of that year the contractor had procured the necessary materials and was about ready to commence construction.

During the fiscal year 1894-95 the work under contract was completed.

PARRSBORO'.

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

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

It was built by the Provincial Government in 1864-65 and has subsequently

received frequent and extensive repairs by the Department of Public Works.

During the fiscal year the sum of \$1,500 was expended in extensive repairs and renewals to this work. The work done consists in raising the outer 110 feet of the pier to the same height as the shoreward portion. The maximum height of new work is 8 feet and the width on top is now 26 feet 9 inches.

The object of raising was to prevent the ice from lodging on the work, freezing

and tearing off the covering which had happened more than once.

PICTOU ISLAND.

Pictou Island, in the Strait of Northumberland, and about 10 miles north-east of the entrance to Pictou Harbour is five miles long and one and a half miles in width.

There are two wharfs on the south side of the island, one near the west end, and one known as the "east wharf," near the centre.

The west wharf was commenced by the Provincial Government. It was repaired and strengthened by the department in 1880, and extended 62 feet 6 inches in 1887-88. In 1891-92 a 50 foot extension was completed with the exception of placing the covering, a small quantity of ballast, and a few fenders.

In 1892-93 repairs were completed and materials were procured for a proposed

82-foot extension. In 1893-94 the 82-foot extension was completed.

The east wharf was commenced by the department in 1882-83 and extended 100 feet in 1887-88. In 1891-92 the outer end was partially repaired and a 60-foot extension was placed and built up to within 6 feet of finished height. In 1892-93 the repairs and extension were completed and materials were procured for a further extension of 60 feet. In 1893-94 the work undertaken the previous year was completed.

During the fiscal year 1894-95 the sum of \$174.10 was expended in urgent

repairs to the outer end of the west wharf, which had been damaged by ice.

The depths at extreme low water, at the outer ends of the east and west wharf, are respectively 4 feet 6 inches and 4 feet 9 inches.

Spring tides rise 6 feet.

PORT GEORGE.

Port George, Annapolis County, a thrifty village of about 400 people, is situated on the south shore of the Bay of Fundy, 37 miles north-east from Digby Gut and 42 south-west from Scot's Bay. It is 6 miles south-west from Margaretville and 5 miles north-west from Middleton on the Dominion Atlantic Railway.

During the year the sum of \$1,398.18 was expended in repairs to the breakwater. The work done consists in the rebuilding with solid cribwork a breach 40 feet long, the full width of the work 40 feet and 12 feet high, that was made by an exceptionally heavy gale in April, 1894. The work is now in good condition.

PORT MEDWAY.

Port Medway, Queen's County, is a village of about 700 people situated on the southern side, and about three miles from the mouth of the bay of the same name, on the Atlantic coast, at the north-east corner of Queen's County, and eleven miles north-east from Liverpool the county town. The chief business of the place has been the export of timber and lumber of which considerable quantities are still shipped, as well as of wood pulp for the manufacture of paper.

In 1875-76 beach protection works were built to prevent the sea from breaking through and washing away Foster's Point that protects an inner cove, and on which are situated a ship-yard and some private wharfs. These works consist of two pieces of crib-work, the north piece 450 feet and the south 240 feet long, 11 feet wide and from 4 to 7 feet high. Their original cost was \$4,513.50.

During the year the sum of \$350 was expended in making thorough repairs to the northern piece. The work done consists of the practical rebuilding of about 90 feet, and the addition of many new timbers and additional bolts to the rest of the work. A new ballast floor was laid in half the work, and nearly 200 tons of new ballast put in. The work is now in first rate order.

POLT MOUTON-PROPER.

Port Mouton, Queen's County, is a settlement of about 400 people situated at the head of Port Mouton Bay on the Atlantic coast, near the southern end of Queen's County, and 10 miles south-west from Liverpool, the county town.

To protect the wharf, at which most of the shipping business of the place was done, a protecting pier or breakwater 61 feet long, 26 feet wide and about 14 feet high, was built before confederation by the local government. This work which stands about 400 feet out from the end of the wharf, and which was not very substantially built of round log cribwork, was repaired by the department in 1887.

During the fiscal year the sum of \$666.60 was expended in rebuilding the whole top of the block to a height of about 10 feet.

PORT MOUTON, SOUTH-WEST.

South-west Port Mouton, Queen's County, is a small fishing and farming settlement on the south-west side of Port Mouton Bay, five miles south-east from the village of Port Mouton, and fourteen miles south-west from Liverpool, the county town.

A breakwater 150 feet long was built here by the department in 1887, at a cost of \$5,000. It affords shelter to 15 to 20 boats and a large proportion of the inhabitants of the settlement are dependent upon it for the safe prosecution of their fishing.

During the year the sum of \$151.02 was spent in repairing a breach in the seaward face of the work. The breach was 20 feet long and the full height of the work about 7 feet. A new face was built and the ballast which had fallen out was replaced, a few new plants were also spiked on the floor at the onter end.

ROSEWAY BEACH.

Roseway Beach, Shelburne County, is situated at the eastern end of Round Bay, about 10 miles due south of Shelburne town.

The beach extends from the shore outwards towards Grey's Island and forms a natural breakwater to a small harbour behind it from which considerable fishing is done in small boats. It is composed of fine white sand, which when dry, drifts badly, and the top of the bar became so low that in 1889, some extra high tides came over into the harbour. To preserve the harbour the department in 1889, spent \$100 in protecting the bar in the same manner as was done at Round Bay, immediately to the westward, viz., by laying and fastening together brush and small trees along the highest part of the beach to allow the drifting sand to collect.

During the year the sum of \$50 was expended in renewing a portion of the beach protection, where the trees and brush had so far decayed as to no longer retain the sand.

SOUTH INGONISH.

Ingonish Bay lies on the north-east coast of Cape Breton Island, about midway between Sydney Harbour and Cape North.

It is divided into North and South Bays by Middle Head, a narrow rocky and precipitous peninsula, over 2 miles in length. At the head of South Bay there is an extensive pond separated from the sea by a shingle and boulder beach through which there formerly existed a comparatively shallow channel, 60 feet in width with a depth of 5 feet at extreme low water, available for fishing boats at high water only.

In 1875 works were undertaken by the department for the improvement of the channel. On their completion in 1876 there was a channel 200 feet in width, with a depth of nowhere less than 14 feet, and with its northern side protected by a pier 500 feet in length, thus giving access for vessels to the pond, which

has an area of about 400 acres and affords a safe and commodious harbour.

The pier, on which small sums were expended every every year from 1876 to 1880, and larger amounts in 1881 and 1882, sustained serious damage during heavy easterly gales in 1882, and was subsequently carried away down to below low water.

In 1886-87 an anchor and mooring buoy were placed in the harbour near the entrance, and a beach protection work 58 feet in length was constructed on the

north side of the entrance.

In 1893-94 the sum of \$1,143.73 was expended in the construction of a wharf near the entrance to the harbour, consisting of a block of cribwork $31\frac{1}{2}$ feet wide on top and $30\frac{1}{2}$ feet in length, with an approach of brush and stone 45 feet in length, and 20 feet wide on top. The depth at the outer end at extreme low water is 8 feet 3 inches.

During the fiscal year 1894-95 the sum of \$967.42 was expended in closing a breach at the back of the beach protection work on the north side of the entrance, by constructing a cribwork block 45 feet in length and 15 feet in width, and placing

brush and stone at the sides.

During a great easterly gale accompanied by an extrao dinary high tide, on the 4th February, 1895, the beach was swept from end to end. Nearly all the buildings and all the private wharfs were destroyed, but the public works were not disturbed with the exception of some settlement in the slope on the seaward side of the beach protection work.

Since 1882 the channel has decreased in width, but it has maintained its depth fairly well. It is still nowhere less than 100 feet in width, and has a depth of not

less than 13 feet 6 inches at extreme low water.

Spring tides rise 5 feet.

THREE FATHOM HARBOUR.

Three Fathom Harbour, Halifax County, is situated on the Atlantic coast of Nova Scotia, about 15 miles to the eastward of Halifax Harbour. It is formed by islands and connecting gravel beaches, and although small, is well sheltered from all quarters, and the small vessels that frequent the coast can enter and leave it at all times of tide.

During the year the sum of \$150 was expended in repairing the beach protection work 1,050 feet long (built in 1878 and extended in 1889) that protects the harbour from the open Atlantic. The work done consists in raising the seaward side of the work a height of 2 feet for a length of 140 feet to make up for settlement, fixing a number of new fenders, and the placing of a few tons of fresh ballast.

THREE ISLAND COVE.

Three Island Cove, Richmond County, is situated on the east side of St. Peter's Bay, about 4 miles from the southern entrance to St. Peter's Canal.

The entrance to the cove is blocked by a bar 400 feet in width, of clay covered

with gravel, which is dry in patches at extreme low water.

In 1893-94 a cutting was made through the bar, 20 feet in width, except over 40 feet at the outer end, where it was but 12 feet wide, and one 6 inches in depth, at extreme low water.

During the fiscal year 1894-95 the sum of \$200 was expended in improving the channel and removing some boulders near the entrance. It has now a uniform width of 20 feet from end to end, and a depth at extreme low water of 1 foot 10 inches.

Spring tides rise 6 feet.

TROUT COVE.

Trout Cove, Digby County, is situated on the Bay of Fundy coast of Digby Neck. It is about midway, and has the only breakwater affording shelter to fishing boats between Digby Gut and Petit Passage, being 18 miles south-west from the former and 12 miles north-east from the latter. The settlement at and near the cove is called Centreville and has a population of about 250 people engaged in fishing and farming.

During the year the sum of \$81.50 was expended in some much needed repairs to the breakwater. The work done consists of the practical rebuilding in a substantial manner of the small block of cribwork (24 feet long, 15 feet wide and 9 feet high) on the shore end of the north side of the work, and the placing of about 100 tons of ballast in the shore end of the breakwater to replace that washed out by

heavy storms during the winter.

WHITE HAVEN CANAL.

White Haven, Guysboro' County, one of the finest harbours in Nova Scotia, is on the south or Atlantic coast, 14 miles to the westward of Cape Canso. To the westward, and separated by a narrow peninsula terminating in Deming Point, is Tor Bay, eight miles in length, sheltered from the Atlantic Ocean by a series of islands and rock ledges. To the eastward is an almost continuous inland passage for boats and small vessels, to Canso Harbour, distant by water about 18 miles.

Marshall Cove, three miles inside of the western entrance, is separated from Witches Cove at the eastern extremity of Tor Bay, by a low and narrow isthmus, across which a canal for boats was commenced by the residents in 1854. Improvements were made from time to time by the residents aided by small grants from the Provincial Government up to 1876, in which year the canal was deepened and the sides protected by walls of dry masonry.

The canal is 620 feet in length, and from 10 to 12 feet in width. The bottom was

originally about one foot above extreme low water.

During the fiscal year 1894-95 the sum of \$1,495.93 was expended in repairs and improvements. The walls had fallen into a dilapidated condition, the southern entrance had become blocked with sand, and the channel inside, had become filled in with sediment or washings from the slopes to a level of about 2 feet above extreme low water.

The improvements were made with the object of obtaining ultimately a uniform width between retaining walls, of 12 feet, and a depth of one foot at extreme low

Over a distance of 160 feet at the south end, the old walls were removed and new retaining walls 10 feet wide on the top, and respectively 9 feet 6 inches and 9 feet in height, were constructed on the east and west sides. These are of brush and stone (except 20 feet at the outer end of each, which is of cribwork) and are founded at extreme low water. Temporary repairs were made to the retaining walls on each side from 160 feet to 500 feet from the south end, and one hundred feet of wall on the west side, (500 to 600 feet from the south end) was constructed. New retaining walls of stone 141 feet in length were built on each side at the north end a distance of 741 feet. These are founded about 1 foot above low water and are one foot above high water at their inner, and one foot below high water at their outer ends. The bottom was excavated from end to end to from 3 to 6 inches above low water.

Spring tides rise 5 feet 6 inches.

PROVINCE OF NEW BRUNSWICK.

BUCTOUCHE.

Buctouche, Kent County, is situated on a river of the same name which empties into a small harbour in Northumberland Strait, 20 miles north of Shediac.

A public wharf 300 feet long with two approaches, built in 1884 by the department, was recently partially destroyed by a fire which devastated the village. In 1894-95 the work was, in part, repaired with an appropriation of \$1,500, four tiers of cribwork, floor stringers and covering being renewed, over a length of 140 feet and a width of 40 feet. The approach from the main street comprising 4 blocks and the same number of spans were entirely rebuilt at the same time, and some other covering replaced.

CAPE TORMENTINE.

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

There being at least a 6 feet wave at Cape Tormentine, it was found that although the rails were secure where spiked to the cribwork, they were liable to be washed off to stone embankment which afforded no facilities for bolting. In 1893-94, they were therefore raised to 6 feet above high water on the embankment. At the same time a freight shed was built, and other conveniences arranged for the traffic. The tops of the cribs receiving the foot of the hardwood sheathing composing the sloping face having been destroyed by the teredo, the planks left over hanging were exposed below to the action of the sea. These planks were secured in 1893-94 as

far as the worm-eaten condition of the timber permitted.

In 1894-95 a sum of \$491.58 was applied to replacing below the sloping planks, 321 lineal feet of worm-eaten longitudinals with new timbers, in relaying and bolting the hardwood to them, in laying 90 lineal feet of new planking, and in securing the remainder of one face with bolts where bolt-hold could be found.

The harbour is used during the season of navigation by vessels engaged in the deal trade with the United Kingdom, since it offers opportunity for shipping cargoes clean and bright from the train, without the loss of class occasioned by rafting.

HOPEWELL CAPE.

Hopewell Cape, in Albert County, at the mouth of the Petitcodiac River, is one of several works on that stream intended for the convenience of shipping.

For the use of vessels proceeding for cargoes to Moncton, Hillsborough and Dorchester, the department in 1883 constructed a ballast wharf, which was afterwards extended to the present length of 592 feet.

In 1894-95, 69 floor stringers were renewed, 372 lineal feet of the work was replanked, and the covering in other places repaired. Three new mooring posts were also placed in the work, the expenditure amounting to \$600.

NEGRO POINT BREAKWATER.

The Admiralty Sailing Directions describe St. John Harbour, on the north side of the Bay of Fundy, as being situated "at the head of the bay into which falls St. John River, the largest in New Brunswick, and one of the most remarkable and beautiful in America. The bay, upwards of three miles deep, lies between Meogenes Island, 5 miles E. by S. ½ S. The harbour is safe, commodious, and always accessible; and in consequence of the great rise and fall of tide, added to the velocity of the stream, its navigation even during the winter months is never impeded by ice. About 1½ mile southward of the city, Partridge Island forms a natural protection to the harbour, whilst its lights serve as a guide when approaching the entrance."

Inside the mouth of the bay, and half a mile north of Partridge Island (which divides the approach to the harbour into two channels), between Negro Point on the west, and Red Head on the east side, the estuary is contracted to a little more than two miles in width. In the principal entrance, $1\frac{3}{4}$ miles across, on the east side of Partridge Island, a depth of 21 feet is found on the bar at low water ordinary spring tides, which rise 26 feet. The west channel, originally $\frac{2}{3}$ mile broad, but now partially closed by Negro Point breakwater 2,200 feet long, gives by the chart about 13 feet at low water, where, 134 years ago, according to a survey made by R. G. Bruce, engineer, in 1761, the depth was 18 feet. Inside the hurbour there is anchorage in 7 to 20 fathoms. The breakwater was undertaken for the following reason:

"With south-easterly winds, the sea is broken by Inner Mispeck Point, which bears south by west 2 miles from Red Head, and south-east by south the same distance from Partridge Island, and by the shoal water between Red Head and the main channel. South-westerly winds threw in a heavy sea through the western channel, which rendered it difficult for vessels to enter the harbour as they were in danger of being driven on the 'fout ground' (a shoal half a mile north of Partridge Island) on the eastern side of the channel. During 1874 and 1875, a thorough survey of the harbour with close and accurate soundings was made by the engineers of the department. In the spring of 1875, a breakwate: 2,250 feet long, to partially close the western channel, was begun, and in September, 1877, completed."

The work consisted of a cribwork core, 30 feet wide at the base, and 15 feet wide on top, protected on both sides by stone sloping seawardly at the rate of two to one, and on the inside at the rate of one to one. In the month of February, 1879, 1,300 lineal feet of the cribwork was swept away by a heavy gale to a depth of 13 to 19 feet from the top, the stones having been naturally raked down by the action of the sea, to a slope more nearly approaching the angle of repose of the material under the exposure to which the work is subjected. In 1880 temporary repairs were made, and in the following year a contract, completed in 1887, was entered into, whereby the cribwork carried away in 1879 was replaced by heavy stone, sloped on the outside at the rate of three to one. Even this flatter slope proved steeper than the natural angle of repose, consequently, although the stones were of large size, and were smoothly laid, they were soon displaced by the sea. A length of 60 lineal feet of the breakwater, extending at full height beyond a pier of masonry, built under the same contract to support a beacon, was also swept away. Since 1891, desultory repairs have been made, the whole expenditure to the 30th June, 1894, being \$445.340.71. In 1894-95 a sum of \$3,297.51 was applied to the protection of the lighthouse at the extremity of the work, in the winter with stone, and in the summer with heavy concrete blocks built in place.

The breakwater, virtually of the type known as the rubble mound, has now been built long enough to allow sufficient consolidation of the original materials to permit the completion of the work by addition of a superstructure. The new top should be at least 10 feet above high water ordinary spring tides, which rise 26 feet), for the waves running free between the breakwater and the island are by estimation not less than 12 feet in height. It is evident that the work, originally 5 feet above, but now in several places below, the level of high water, has suffered in consequence of insufficient elevation, the inside slopes having been stripped off by waves coming

over the top. After the storm of the 9th February, 1895, many large stones bare of sea-weed could be observed on the inside of the work below the level of marine vegetation, which must have been thrown by force of the sea from the top or even from the seaward side of the top. At the inner end, where the foreshore has advanced 370 feet since the commencement of the work, there is evidence that the littoral drift, both wet and dry is carried over the top into the harbour. A marine dynamometer placed against the masonry of the lighthouse after the storm of the 9th February, recorded at the vernal equinox, a wave force of 4,000 lbs. per square foot, and it is possible that even this pressure may be in some cases exceeded. One stone measuring $2\frac{1}{4}$ cubic yards was moved by the sea twice during the winter of 1894, for a distance of about 25 feet on each occasion. Another, said to have been more than double the size, entirely disappeared, having probably been washed over the end into deep water inside.

Under these conditions, it is clear that any work intended to be permanent, should be of high character, and it necessarily follows that the outlay must corres-

pond with the class of work.

The highest waves occur, when, after a south-east storm, the wind veers to south-west. Reference to the chart will show that a passage 1,200 feet wide with 10 to 14 feet deep at low water still remains open between the end of the breakwater and Partridge Island, admitting from the south, to the channel inside, heavy seas, which roll directly across it to the foul ground. The original purpose of the work has thus been fulfilled only in part, since vessels must be still exposed to the danger of being carried on the foul ground (against which the breakwater was designed to guard), as long as any opening remains between Partridge Island and Negro Point. It is therefore a matter for consideration whether the breakwater should be first extended to the island and afterwards completed with pitched slopes and superstructure, or whether the part now built and consolidated should be finished first by immediate erection of the superstructure, and afterwards extended to Partridge Island. In any case action of some kind should be taken without delay in order to prevent further damage to the work, while especial attention should be directed to the promotion of accumulation of the littoral drift on the seaward side, and the formation of a natural protecting face. At present, southerly waves swirl round the beacon at the point of the breakwater, follow the ragged face inside to the shore below Fort Dufferin, and continue to roll northward along it. So heavy is this roll. that the department found it necessary to construct a high revetment of cribwork to arrest erosion of the cliff, which threatened destruction of the fort and other property. After extension to the island, further maintenance of this sea wall and also of the beacon at the point of the breakwater should be unnecessary. That Negro Point breakwater is a work important to commerce, the following particulars of the export trade in 1893-94 of the port of St. John will show:—

Sea-going vessels left port	Tonnage. 510,359 126,155
Total 3,624	636,514
Value of Exports.	
Fisheries Forest product; deals, timber, &c	2,913;415 199,076 123,526
Total	\$ 3,481,849

POINT DU CHÊNE (SHEDIAC).

Shediac Harbour, in Westmoreland County, an inlet of the Northumberland Strait, is situated about midway between Cape Gaspé and Cape North, being distant from each about 225 miles. It affords at present about 14 feet at low water spring tides, but that depth will be slightly increased when the dredging begun in 1890 has been completed. Shediac is considered by Admiral Bayfield to be easily accessible, and to be the only harbour of refuge on this part of the coast. Point du Chêne, on the south side of the entrance, was originally the terminus of the European and North American Railway. This line, 109 miles in length (a link of the present Intercolonial system), starting at St. John, traversed the southern part of New Brunswick from the Bay of Fundy to Northumberland Strait, the object being to facilitate trade between Quebec, Prince Edward Island, Pictou and St. John. According to levels taken at the time of construction, high water at Shediac where the tidal range is four feet, was found to be 10.7 feet below high water at St. John, where ordinary spring tides rise 26 feet.

For railway purposes, a pier 1,850 feet long, and 30 to 40 feet wide, with a head 150 feet in length, and 80 feet broad, was built in 1858 at Point du Chêne, but the place being infested by the teredo, the work soon became weakened and received

much damage from easterly gales.

For the protection of the pier, the department built in 1875 a detached break-water 600 feet long, and in 1879-80 connected it with the railway pier by a ballast wharf. In 1881-82, a further length of 600 feet was added by the construction of a

second independent breakwater, placed nearer the shore.

The work built in 1875 having become worm-eaten, was destroyed, notwithstanding repairs, by storm in 1891. In 1893 a contract was made for the reconstruction of this breakwater, and in December, 1894, the work was completed. The new breakwater proper is 600 feet long and 27 feet wide below low water, sloping from a little above that level, at the rate of one to one until six feet above high water. At the northern end, connection was made with the damaged ballast wharf, by an additional length of 40 feet of similar work. The outside faces and cross ties of the substructure are creosoted timber, protected partly by close piles, and partly by fender piles also creosoted. The remaining timbers and also the superstructure are untreated wood. The expenditure during the fiscal year 1894-95 has been **\$21**,693.

Communication with the western part of Prince Edward Island is carried on by steamers between Point du Chêne and Summerside, about 40 miles distant. Direct trade in deals is also maintained with the United Kingdom, the value of last year's shipments being about \$80,000. A depth of 19 feet in the channel at high water, and loading berths alongside the wharf, giving the same depth at low water spring tides, constitute the requirements of this port. Before loading berths can be dredged, a new face should be given to the ballast wharf (200 feet long), which is thoroughly worm-eaten, and exhibits large gaps several tiers deep below water, through which some of the stone has escaped. Point du Chêne stands in importance sixth on the list of ports of New Brunswick whence shipments of deals were made to Europe.

QUACO WEST.

At this place, 25 miles east of St. John, and in the county of that name, the department in 1891-92, re-opened the original channel of the stream, a tidal inlet, which had gradually worked westward parallel to and behind the beach, by the crection of a dam 205 feet long and 12 feet high. In 1894-95, a temporary gateway 30 feet long and 4 feet high, originally left as a precautionary measure was built up, the crest of the dam planked for 136 feet, and an apron of brush and stone placed along the work for about 150 feet. At the same time, the abutments of the dam were repaired and scoured holes were filled. The expenditure amounted to \$399.81.

RIVER ST. JOHN.

The River St. John proper, 450 miles long, takes its rise from sources in the province of Quebec and the state of Maine, at a reputed maximum altitude of 2,158 feet above sea level. Entering New Brunswick at the confinence of the St. Francis, a little below the borders of Quebec, it continues to be the international boundary almost to Grand Falls, and after flowing through the province for nearly 300 miles, discharges into the Bay of Fundy at St. John. Many tributaries, some of considerable magnitude, are received by the main stream. Among them are the St. Francis, Madawaska, Green River, Grand River, Salmon River, Aroostook, Tobique, Presqu'Isle, Meduxnikeng, Eel River, Nackawick, Keswick, Nashwaak, Oromocto, Jemseg (Grand Lake), Washademoak, Belle Isle, and Kennebecasis.

The total basin from source to mouth is computed to be 26,000 square miles, an area almost equal to the whole of New Brunswick, but part of the watershed lying outside, only a little more than one-half the province is drained by the river. The St. John is considered navigable for vessels of 15 feet draught for a distance of 50 miles from the mouth, but no positive information on this point has been obtained. A little less than 9 feet at low water can be carried to Fredericton 84 miles from the sea, and 6 miles below Springhill, the head of tide. Three natural features of river are remarkable, viz., the tidal falls, Grand Falls, and the annual floods. Although in summer the fresh water stream between Woodstock and Fredericton is 600 feet wide, expanding at the latter place after reaching tide level, half a mile in breadth, yet the actual mouth of the river, a rocky gorge 400 yards long immediately at the head of St. John Harbour, measures but as many feet across at high water. Here "at low water the level of the river water is from 11 to 15 feet above the sea and as the ordinary tides flow from 23 to 27 feet, the sea level at high water is from 8 to 12 feet higher than the waters of the river. Thus there are two falls during every tide, viz., one outward and one inward, and vessels can only pass when the waters of the ocean and the river are on a level, and this occurs only for the space of about 10 minutes during each ebb and flow of the tide; at all other times it is either impassable or extremely dangerous."

At Grand Falls, 223 miles from the sea, the whole volume of the river plunges over an almost perpendicular face of calcareous slate 60 feet high, into a deep ravine 250 feet across, somewhat similar to the narrow pass at St. John. Flanked for nearly a mile by lofty rugged cliff, the confined current dashes from the foot of the falls with excessive strength, mining deep pot holes in the rocky bottom of the channel in the course of a further descent of 60 feet, according to report. In the harbour of St. John, ordinary spring tides rise 26 feet. At the wharfs of the river steamers, a mile above the falls while summer range is but 3 feet, the highest flood mark is 16.7 feet above extreme low water. At Oromocto, 73 miles from the sea, where the range of tide is 10 or 12 inches, the flood of 1887 reached a bridge 20 feet above low water. At Andover, 200 miles from the sea, high floods attain an elevation of more than 27 feet above summer level. By contrast, the Tobique and St. Francis swell but 9 and 6 feet respectively. After the first spate due to the melting of the snow in the catchment basins of the Kennebecasis, Belleisle Bay, and Washademoak, a secondary flood occurs, caused by the back water of the main river, which is

fed from sources farther north, and consequently later in thawing.

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

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

In addition to some coal, a considerable quantity of cordwood, and the ordinary food supplies yielded by farms of a lengthy valley rich in alluvium, the trade of the river comprehends an abundance of valuable timber, fluctuating each season in amount, but equal to at least 135 million superficial feet annually. Most of the logs are floated loose down the tributaries and upper river to Fredericton some being manufactured at the provincial capital, and shipped directly thence in coasting schooners, chiefly to the United States. The remainder, and major part, is towed

thence to St. John in rafts, giving employment to a fleet of tugs. For purposes of works the river may be divided into three divisions:—

1. Tidal navigation for steamers and sailing vessels from St. John to Fredericton, 84 miles, requiring 11 feet at low water. Principal obstructions: the shoal above Belmont, 3,000 feet long, and the Oromocto shoals, a little more than a mile

and a half in length, giving at present rather less than 9 feet at low water.

2. Inland navigation from Fredericton to Woodstock, a distance of about 65 miles, requiring 3½ feet at low water. The obstacles to inland navigation, besides boulders in a few places, are shoals of materials more or less coarse according to the strength of the current, varying in composition from sandy gravel to stones. The chief bars are at Springhill and Bear Island, while Knapp's, Perley's Cove, Nackawick, Meductic, Belvisor, Moore's Bett's, Dibblee's, and Bedell's Bars, constitute, according to present information, minor obstructions. Dividing above Springhill into two main channels, and from a general width of 350 yards, opening to a stretch of 1½ miles between banks, with a waterway increased by one-third, the river becomes dotted with eyots and shallows. Two gravel shoals known as the Russell and Chapel Bars are together half a mile in length. At Bear Island 25 miles above Fredericton, in consequence of another division of the river into 3 channels aggregating 600 yards in breadth, a shoal of gravel and stones 4,400 feet long giving only 21 inches at low water has been formed. After re-uniting below, the width of waterway in the single channel is only 150 yards.

3. The upper river, including with the tributaries, all that part above Wood-

stock. This portion is used now for the passage of timber only.

Division 1.

Ten miles below Fredericton, and 74 above St. John, the river spreads from a normal width of less than 500 yards to a total breadth of 1½ miles between banks. This expansion and distribution of the waterway among three channels collectively 1,100 yards wide, formed by interposition of Oromocto and Thatch Islands, sufficiently accounts for the presence of the shoals. The eastern and largest of the channels 650 yards in width is only used during floods. The middle and navigable channel, 300 yards wide, has for many years been obstructed by the sandy deposit called the Oromocto Shoals, giving a little under 9 feet at low water. Another adjacent shoal extends from above Belmont for 3,000 feet in the direction of Smith's wharf. A third shoal patch, if it may be so called, giving slightly less than 11 feet is found at the foot of Oromocto Island. Between the Oromocto Shoals and the wharfs at Belmont, the channel requires in some places to be widened.

In order to improve the navigable channel, a dam 2,200 feet long was built by the department between 1877 and 1881, from the west bank of the river to the upper end of Thatch Island, completely closing the narrowest of the three channels when the water is below half ordinary flood level, and contracting the whole waterway by 150 yards. The first 100 feet adjoining the shore is of brush and stone, while the remainder of the dam is of cribwork, close-piled on the upper side and sheathed with plank. From the lower end of this dam, a cross-dyke of piling makes connection at nearly right angles to the main work, with the head of Thatch Island.

In 1894-95 a training dyke of stone founded on brush mattresses consisted of two new works of fascines inclosing a filling of evergreen brush, the whole loaded with stone 10 feet wide at the top, sloping to a width of 26 feet at the mattress, and footing against walings secured to piles. At the same time, brush and stone protection was placed along 600 feet of the dam, with good result, a considerable accumulation of silt having taken place in consequence on both sides of that work. The dyke is 203 feet long, and 5.5 feet above low water. Two hundred and eighty lineal feet of brush and stone protection were also placed on Oromocto Island, to prevent the alluvial bank from scouring under action of the current when increased by the works now begur.

A great deal of dredging has been done at the Oromocto Shoals, the total expenditure for 22 years ending June, 1894, amounting to \$49,025.53. In the past fiscal year, the "New Dominion" made one cut through the shoals, leaving a maximum depth of 12 feet and a minimum depth of 8\frac{3}{4} feet.

Division 2.

A commencement of the improvements contemplated for the purpose of opening and maintaining during the season steam navigation between Fredericton and Woodstock, was made in 1894-95. A Priestman grapple dredge, hired for the occasion, was set to work on the Russell Bar at Springhill on the 3rd September, and kept there until the close of the season on the 5th November. In this period, a channel 1,400 feet long and 40 feet in extreme width was excavated to a depth of 5 feet 6 inches at low water, the depth proposed for the inland navigation of the St. John.

Division 3.

During the fiscal year an expenditure of \$300 authorized for the Tobique was applied to making channels for the passage of tow-boats conveying supplies to the lumber camps through Long Island, Trafton's Caribou, Burnt Land Brook, Oxbow Island, Blind Island, Blue's and Horse Island, Bars. Twenty-five boulders were also removed from Flanders Bar. It is fortunate that these improvements were made at the time, for the cut of the Tobique has more than doubled within the last year, and a larger class of tow-boat of comparatively deep draught was placed on the river. All the work was done above the limit of railway connection.

On the main river, between Grand Falls and Andover, blasting was done at the

On the main river, between Grand Falls and Andover, blasting was done at the following places: Gardiner's Rock, Street's Rock, Little River Rapids, and Rapid de Faim Rock. According to present information, the St. John is in sufficiently good condition between Grand Falls and Woodstock, for the passage of timber. No

steamers ply on that portion of the river. The expenditure was \$199.79.

At Grand Falls, a sum of \$580.69 was expended in blasting in the gorge, and in removing the top of Split Rock, a projecting crag in the face of the falls which has caused the destruction of large quantities of the timber annually passing over.

On the St. François, a sum of \$247.50 was applied in removing boulders from Horseback Rapids, and in making channels for tow-boats through Harvey's Bar, Jones' Bar and Gros Bar. This stream has now been placed in good condition.

TYNEMOUTH CREEK.

Tynemouth Creek, St. John County, 21 miles east of the city of St. John, is one of several small havens dry at low water, to be found on both shores of the Bay of Fundy, which are only useful from the high range of tide, at this place about 28 feet. Inside a beach of gravel and stones, is found a tidal basin, accessible to small vessels at high water by an opening at the east end of the beach.

In 1874-75 the department built a substantial cribwork pier on the rocky fore-

shore of the eastern cliff to prevent vessels from taking ground on that side.

In 1882-83 another work to maintain the channel was built on the point of the

beach on the opposite side.

In 1894-95 a sum of \$225 from the general vote for Harbours, Maritime Provinces, was applied to re-placing some of the fenders and covering of the east pier, and in removing part of a rocky ledge obstructing the channel.

PROVINCE OF PRINCE EDWARD ISLAND.

BAY FORTUNE.

Bay Fortune Harbour, King's County, is situated on the south side of Rollo Bay on the east coast of the island and about 5 miles south-west from Souris, the eastern

terminus of the Prince Edward Island Railway.

There has been expended during the year for the preservation of improvement made in the depth of the water on the bar at the entrance, a further sum of \$7500 The work done consisted in levelling up with squared timber (from 1 foot to $1\frac{1}{2}$ feet high and 290 feet long) the channel side of the portion of the breakwater built by the department in 1892-93, putting in protection of brush and stone in the bottom, driving fender piles at 3 feet centres, and constructing new block of close-faced timber, fully ballasted, at the outer end in order to prevent scour caused by the increased current occasioned by the extension of breakwater, that was found to be undermining it. The inner end of the work has also been connected with the public wharf at the point of the bar by a beach protection of timber, brush and stone, to prevent the formation of a channel.

Much benefit is said to have resulted from the extension, &c., of the breakwater, the depth of water over the bar having increased 2 to 3 feet, thus permitting vessels drawing as much as 10 to 12 feet entering and leaving the harbour at high water.

BAY VIEW.

Bay View Pier, Queen's County, is situated on the eastern side of and near the mouth of the Hope River, which enters New London Harbour about $3\frac{1}{2}$ miles southeast from the harbour entrance. The pier has a length in all of 509 feet, 409 feet from the shore outwards being 20 feet in width increasing gradually to a width of 35 feet at the outer ent; it is not exposed to any heavy sea but extreme high tides occurring during storms usually cause damage to the roadway, which is on the narrow portion, formed of clay and gravel filling.

Damage of this nature occurred during the autumn storms of 1894, and repairs were effected at a cost of \$21.75, the washout in the roadway being made up with broken stone and clay, well packed together, and it is hoped the roadway may not

be disturbed for some seasons at least.

CAMPBELL'S COVE.

Campbell's Cove, King's County, a small indenture in the coast line on the north side of the island, is situated about 9 miles west from East Point and 14 miles northeast from Souris (the eastern terminus of the Prince Edward Island Railway) and was relected by the Provincial Government in 1872 as the site for the construction of a small isolated breakwater 300 feet long by 30 feet in width, built on the reef that extends from the west end of the cove. Much benefit was derived from the work, both by the fishing and farming industries of the neighbourhood, and a refuge was afforded to fishing boats overtaken by storms.

When repairs to the work became necessary in 1882-83 the department thoroughly effected the same and also connected the breakwater with the shore and constructed an extension of 250 feet, making the work in all 620 feet long, giving a small area of shelter carrying 4 feet at low water spring tides, which rise 4 feet.

The repairs and additions made by the department being of a most substantial character, the work, notwithstanding its exposed situation, continued in good condition up to 1888-89, when some slight repairs to the planking and fenders were found to be required. After this date, however, principally due to the weakening of the timber face by the teredo, injury was done by each storm, and although extensive repairs were made in 1891-92, the work suffered severely in the spring and winter of 1893, 90 feet of its outer end being carried away to below low water and the remaining part of the work constructed by the department (154 feet long) having either the seaward face carried away or badly damaged.

During 1894-95 all of this damaged portion has been reconstructed at a cost of \$1,018.86, the new work on the seaward side being built with a batter of 1 in 12 or the face to the top instead of sloping $1\frac{1}{2}$ to 1 above low water, thus permitting of better ballasting, and making the work 13 feet wider on top. The portion thus rebuilt is from 6 to 12 feet high and is thoroughly connected with the old work, the whole of the latter being well ballasted and repaired where required, recovered for a further length of 50 feet, and the present outer end bulk headed to prevent further injury for some time.

CHINA POINT PIER,

China Point Pier, Queen's County, is on the west side of the Orwell River at its entrance into Orwell Bay. A pier was constructed at this point by the Local Government to provide a place of shipment for the produce of a large section of the country, and as a port of call for the passenger steamer plying tri-weekly between Charlottetown, Vernon River and other places on Orwell Bay. The pier is 426 feet in length with a return or L along the channel face 72 feet in length. It is from 18 to 243 feet in width and is composed of a series of 8 solid blocks (not including the shore abutment or approach) with intervening openings spanned and planked over. The shore abutment (142 feet in length) and five inner blokes with brush stone and clay. The two outer blocks and one forming the L are also built close-faced of squared timber but are floor stringered and planked over. The pier was evidently badly located, or extended too far outwards to the deep channel which, within a short distance of its end, carries a depth of 40 feet at low water springs, the foundation of the pier-head, which is directly at the edge of the deep water channel, standing in 15 feet at low water and at high water springs 23 feet of water. Spring tides rise 8 feet. Less depth would have answered the requirements of the place and made it easier to have the structure in serviceable condition, which can now be done only by an almost yearly expenditure owing to the soft yielding nature of the bottom on which the pier-head rests, and the action of the teredo which is particularly destructive to unprotected timber in all of the island harbours.

During the fiscal year levelling up of the two outer blocks and connecting spans has been effected at a cost of \$500. The outer sides of the blocks were built up 6 and 9 feet respectively, fender piles have been driven at about 4 feet centres on the outer faces of the blocks, and will preserve the pier until again destroyed by the

teredo.

GEORGETOWN.

Georgetown, King's County, the terminus of the Georgetown Branch of the Prince Edward Island Railway and shiretown of the county, is situated on the western side of the Montague River near its entrance into Cardigan Bay. The harbour is well and favourably known as being one of the best and safest on the island, and is also the port of call for the steamer "Stanley" plying between Pictou and the island during the winter months. Before the construction of the railway, a large shipping business was done from the port for the accommodation of which the Local Government, many years before Confederation, constructed the wharf since known as the Queen's Pier, the control of which was assumed by the department in 1884. This wharf, which is centrally situated on the harbour front, has a length in all of 640 feet, with a width of from 30 to 36 feet. The shore end 340 feet long is of close-faced timber work filled with brush, stone and clay, the latter forming the roadway on top, while the outer length is composed of blocks and spans, there being six of each. All of the outer blocks and all the spans are floor stringered and planked over.

Being a very old structure when assumed by the department and also much out of repair, it has required, from time to time, considerable expenditure to keep it

in serviceable condition.

A. 1896

During the fiscal year the sum of \$150 was expended in putting in 9 new span beams, or floor stringers, recovering 3 of the openings or spans, putting on new guard timbers and making up portions of the roadway with broken stone and gravel. where settlement or washout had taken place.

HURD'S POINT.

Hurd's Point, Prince County, is situated on the south side of the southern end of Bedeque or Summerside Harbour, and is about 3 miles south from the town of Summerside. A pier was constructed here many years ago by the Local Government and now forms an important outlet for a large and rich agricultural district which has no other means of communication except by post-road and is, therefore, largely used as a shipping place and is also a point of call for the ferry steamer plying four times daily between Summerside and Bedeque. Direct shipments are made from the pier to American and West Indian ports, for the accommodation of which service the department, some years ago, improved the approach by dredging. Sufficient width, however, was not given off the upper end of the pier head and vessels often touched when leaving or approaching the pier.

To remedy this, during the fiscal year the sum of \$201.81 has been expended in widening the approach and the basin at the end of the pier, the work being done through the ice by the mud diggers. A length of bank on the north side of the channel, 130 feet long, 5 to 20 feet wide, and avoraging 2 feet in depth was removed, the material raised being hauled away by teams and deposited near the shore above

low water mark.

KIER'S SHORE PIER.

Kier's Shore Pier, Prince County, is situated on the east side of Richmond Bay about 7 miles from the village of Kensington and is a station on the Prince Edward Island Railway. The pier, originally constructed jointly by the Local Government and residents of the district, has a length of 1,033 feet, and a width of 20 to 25 feet, and extends, out to a depth of about 5 feet at low water or 10 feet at high water spring tides, which ordinarily rise 5 feet. With the exception of the inner 100 feet which is built of poles and brush and a span of 17½ feet long at a distance of 283 feet from the outer end, the work is constructed of close-faced timber, having its interior filled with brush and stone, with roadway of clay and gravel, except a length of 451 feet at the outer end which is floor stringered and planked over. Owing to the work not having been built high enough in the first place or from settlement that has since occurred, storm tides in the fall of the year passed completely over the work always doing more or less damage and necessitating almost yearly expenditure to keep the roadway passable. Several grants, in all to about \$800, have been expended since its assumption by the department (in 1884) for making up and repair of the filling and roadway, but none of these repairs have proved durable owing to the work being too low.

This defect has been remedied in the spring of 1895, all of the work being raised to 2 feet above the highest storm tides, and the outer 50 feet widened 18 feet, the

sum expended amounting to \$2,936.06.

L'AMBERT'S PIER.

Lambert's Pier, King's County, is situated on the southern side of the Montague River, immediately below the highway bridge leading to Montague Village, six miles from the entrance of the river into Cardigan Bay, and is one of the piers assumed by the Dominion Government in 1884. It has a frontage of 310 feet on the river channel, and consists of two sections, the upper, or western one, being 140 feet long and 24 feet wide, constructed of cribwork on the inside and pile work on the outside, while the lower or eastern section, 170 feet long, and 25 feet wide, is formed entirely of piling, floor stringered, capped and planked over. The inner side

of the western section is made up of ballast discharged from vessels and connects with the bank of the river and forms a good approach to the pier. The piling being of native and unprotected wood, suffers severely from the ravages of the teredo and necessitates renewals nearly every season.

Twelve bedding and fender piles were renewed during the year and general

repairs to the covering were made at a cost of \$150.

MIMINEGASH.

Miminegash, Prince County, is situated on the north-west coast of the island, about 15 miles from North Cape and 18 miles from West Point. The place is now one of the best and most convenient fishing stations in the county, great benefit being derived from the works constructed by the department which have so improved the run, as to admit of the entrance of the larger fishing boats at almost all stages of the tide, and of small coasting schooners at high water, being previously only available for the smaller boats at high water. The works consist of breakwaters or piers on either side of the run, confining its width to 56 feet at its outlet into the Straits of Northumberland. The pier on the northern side has a length of 535 feet, and that on the southern side of 350 feet, there being, inward of the latter, a beach protection work 270 feet long, to guard against scour and formation of a new channel and outlet at the back of the southern pier or breakwater.

During 1894-95 the sum of \$500 has been expended in building up and close piling the inner 150 feet of the beach protection, in repairing and ballasting the southern breakwater, and in close piling a length of 40 feet of the channel face of the northern breakwater where a break and settlement had occurred through scour

and action of running ice.

NEW LONDON.

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

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

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

During 1894-95 these breaches have been so far repaired as to prevent further injury and the reconstruction of the outer block has been commenced, the amount

expended during the fiscal year amounting to \$624.08.

NORTH CARDIGAN PIER,

North Cardigan Pier, King's County, (known in locality as Newport Pier) is situated on the north side of the Cardigan River, 5 miles below Cardigan Bridge, the head of navigation, and a station on the line of the Prince Edward Island Railway. The pier has a length of 381 feet, consisting of a shore abutment or approach and seven blocks with intervening openings or spans. It is from 23 to 25 feet wide out to the outer block or pier head which has a width of 32 feet. The shore abutment is 100 feet long of blocks from 19 to 26 feet, and the Spans from 14 to 26 feet. All of the work is constructed close-faced of squared timber filled with brush, stone and gravel, the latter forming the roadway, excepting the two outer blocks which, like the spans, are floor stringered and planked over. Being a very old structure and much out of repair, when its control was assumed by the department in 1884, there have been required almost yearly expenditures, generally of a temporary nature, to keep it in passable condition.

During 1894-95 some slight repairs to the planking and blocking up of floor

stringers were effected at a cost of \$6.20.

PINETTE PIER.

Pinette Pier, Queen's County, is situated on the south side of the Pinette River immediately below and at right angles to the public road bridge, crossing the river, with which it is connected by a span 28 feet in length. The pier is 120 feet long by 28 feet wide, having along its face a depth of 8 feet at low water springs. It is constructed of squared timber close-faced, fendered, floor stringered and planked over.

During the fiscal year 1894.95 the sum of \$100 has been expended in repairing and renewing portions of the floor stringers and covering in the centre and south of the pier where the roadway had completely broken down owing to age and decay.

RUSTICO.

Rustico, Queen's County, the most important fishing station on the northern coast of Prince Edward Island, is situated about nearly equidistant between North Cape and East Point.

During 1881-82-83-84 breakwaters were built on each side of the entrance to the harbour for the purpose of concentrating the ebb current upon the outer bar, to scour away the sand and thus obtain better water over it. The results proved most satisfactory, the depth of water on the bar being increased from 3 to 4 feet, which, added to the former depth, gives at present at low water spring, from 8 to 9 feet of water and at high water from 11 to 12 feet.

The breakwater on the northern side is the most important as it protects an inner beach, on which most of the fishing stages are situated. It was originally 1,240 feet in length but by storms occurring from time to time up to 1893, a length of 120 feet was damaged and carried away, a further length of 150 feet inward being severely injured. This was repaired in 1883-84 and the end bulkheaded to prevent further injury.

A contract was entered into 12th March, 1895, for the construction of an outer block 30 x 60 feet and for the widening and raising of the adjoining 140 feet. Construction was commenced by the middle of May, 1895, and at the close of the fiscal year about one-third of the work had been completed.

SOURIS HARBOUR.

Souris Harbour, King's County, situated about 16 miles to the westward of East Point, is most important as a shipping point, being the eastern terminus of the Prince Edward Island Railway, which has a deep water wharf, from which shipments can be made later in the fall and earlier in the spring than at any other port of the

island. It is also largely used during the season of navigation as a place of refuge by coasters and fishermen, the breakwater constructed by the department making it available for approach and a perfectly safe refuge in all winds. The work has, in all, a length of 1,200 feet (270 feet of which was constructed by the Local Government previous to Confederation) but as it stands in deep water (18 to 20 feet at low tide) and is exposed to the full force of the sea during southerly gales, it has, since construction, required from time to time extensive repairs, due greatly to the destructive action of the teredo and to the fact that the quality of stone procurable for ballast on the island is not of a durable character.

During the fiscal year 1894-95 the sum of \$1,104.62 has been expended in rebuilding a length of 50 feet of the seaward face and in ballasting and recovering 100 feet of the inner section or portion of the breakwater constructed by the Local

Government, and in general repairs to the remainder of the work.

STEPHEN'S PIER.

Stephen's Pier, King's County, is situated on the southern side of the Montague River about 6 miles above its entrance into Cardigan Bay, and immediately below Lambert's Pier and Montague Bridge. It consists of two wings or approaches about 50 feet apart, extending out from the bank of the river to the edge of the channel where the pier-head has a frontage of 100 feet. The wings or approaches are respectively 90 and 150 feet long and are formed of close-faced timber work, the space between them being filled with stone, brush and gravel, connecting with the pier head by spans or openings, floor stringered and planked over. The pier head is built of pile bents, capped, floor stringered, etc.

During the fiscal year 1894-95 the sum of \$35 was expended in filling in solidly with stone the span connecting the eastern wing or approach, the floor stringers

and planking of which had given away owing to natural decay.

ST. MARY'S BAY PIER.

Saint Mary's Bay Pier, King's County, is situated on the south side of Saint Mary's Bay (which forms the southern part of Cardigan Bay), and to about 7 miles south of Georgetown the shiretown of King's County. The pier is 407 feet long, 310 feet of which is 21 feet wide, the outer and 97 feet being 28 to 29 feet wide. It is composed of a shore abutment and 7 blocks and spans, the blocks being built of squared timber and close-faced.

During the fiscal year 1894-95 the sum of \$500 has been expended in close piling the two outer blocks, in putting in new guard timbers and in general repairs to the

roadway placing the whole for a time in good and serviceable condition.

WOOD ISLANDS.

Wood Islands, lot 62, Queen's County, are situated on the Strait of Northumberland, about 15 miles to the westward of Cape Bear, and are the most southerly point of Prince Edward Island. They are two in number, lie parallel with the shore, from which they are distant about half a mile, and are connected by a small sand beach, and also by another beach extending from the western end of the western island to the mainland, forming a total length of nearly a mile, a pond is thus inclosed having an area of about 300 acres, with its outlet at the south-eastern corner.

This pond is too shallow to serve even as a boat harbour, and an attempt was made to form a shelter for boats and small vessels by the construction of works extending eastwardly, from the sand pit and parallel with the shore, with the expectation that scour would be produced by the tidal outflow from the pond and a deepening of the channel so formed would take place, but the attempt resulted in failure. The work, which was constructed by the Local Government, was 2,530 feet in length, of varying heights and widths, and built of brush and stone for a foundation with a superstructure of timber cribwork.

During 1878-79 a breakwater 350 feet in length was constructed by the department, on the western side of the entrance, and during the same year an attempt was made to deepen the channel along the eastern breakwater, but the work had to be

Between 1880 and 1885 the sum of \$8,871.16 was expended in extending the western breakwater, and during 1886 the sum of \$1,000 was spent in effecting necessary repairs to the eastern breakwater.

In December, 1893, a contract was entered into for the reconstruction and repair of the eastern breakwater, and at the close of the fiscal year about one-third of the

work contracted for had been completed.

On the 30th November, 1894, the work under contract was satisfactorily completed, and has already given promise of great benefit to the district as a shipping point, the depth of water having increased two feet, which it is hoped will continue without the aid of a dredge.

PROVINCE OF QUEBEC.

BAIE ST. PAUL.

Baie St. Paul is on the north shore of the St. Lawrence River in the county of Charlevoix, 60 miles east of Quebec.

During last winter a contract was entered into for the construction of an extension to the wharf, 100 feet long, 30 feet wide. Work was commenced in the first days of May and on the last of June nearly half of the total had been constructed.

During the months of August and September last the sheathing on the outer corner of the isolated block was renewed, 18 pieces of 10-inch square elm 30 feet long, being employed for this purpose, the face timbers broken by ice on the eastern side were repaired and sheathed over with 5 inch elm planks, the inner portion of the block was raised and levelled, new stringers added and the top planking was renewed on the whole length of the block, 200 feet; the cap pieces were renewed. and four toise of stone ballast were put in the block to replace that fallen out through the place broken by ice, about 150 pieces of 5 inch spruce sheathing were also replaced on the western side and inner end. The work was done by day labour at a cost of \$1,464.60.

Spring tides rise 20 feet, neap tides 13 feet.

CACOUNA.

Cacouna is in the county of Temiscouata, on the south shore of the River St. Lawrence. The village lies 3 miles north of the Intercolonial Railway and 5 miles

to the eastward of River du Loup Point.

Three or four years ago an isolated block 103 feet in length, 24 feet wide, with respective heights of 17 and 16 feet at the outer and inner ends, was built off the point. During 1894-95 the work was extended shorewards, a distance of 60 feet, 22 feet wide, and 16 feet in height. The work is built of open faced square timbers. sheathed all over with 3-inch spruce planks. The corner angles are protected with 4-inch rock elm extending the whole height and 4 feet on each side, with iron Elm fenders were placed every 8 feet on both sides. straps 4 by § inches. In addition to this sheathing of the old block was completed to the top, and the seaward face was also sheathed over its whole surface and elm fenders were placed where required. The top corner was raised 5 inches.

The expenditure amounted to \$1,957.42.

CAP DE LA MAGDELEINE.

The parish of Cap de la Magdeleine is in the county of Champlain, on the north

shore of the River St. Lawrence, three miles below Three Rivers.

Since the construction of a wharf in 1887 by the government, the traffic between Cap de la Magdeleine and Three Rivers has greatly increased by water, boats also ply between the parish of the Cape and Nicolet, Gentilly and Champlain.

In September, 1894, an agreement was entered into with Mr. L. E. Normand to build an extension and raise the old wharf, in accordance with plans and specifica-

tions furnished him, for the sum of \$2,800.

The principal work done at this place was the construction of an extension to the wharf eastwardly. This extension consisted in a block 40 feet in length, 24 feet in width and 19 feet 6 inches in height. The old portion of the wharf was raised to the height of the new pier and new caps and stringers were placed and new flooring laid.

The surface of the wharf measures now 87 feet frontage exclusive of the ice breaker, by 22 feet 6 inches in width with a landing slip 11 feet wide. The surface of the approach is 250 feet in length by 23 feet 6 inches in width. The height of the pier in front is 14 feet 6 inches above low water level and 5 feet in the water.

The work was commenced on the 8th October, 1894, and was completed on the 22nd January, 1895, according to plan and specifications, the total expenditure

amounting to \$2,837.75.

CHICOUTIMI.

Chicoutimi, in the county of that name, is situated at the head of navigation on the Saguenay River, $71\frac{1}{2}$ miles above Tadoussac.

During the fiscal year 1894-95 the old sheathing 152 feet by 21 feet on the outer

part of the head of the wharf was taken off and replaced.

Six inch red spruce sheathing, 50 feet of flooring 25 feet wide, was laid, and the sheds on the wharf were repaired and painted; the cost of the whole being \$1,993.27.

ETANG DU NORD.

Etang du Nord, is at the western end of Grindstone Island, one of the Magdalen Islands, in the Gulf of St. Lawrence. The island in question is irregular in shape, and about $7\frac{1}{2}$ miles long by $4\frac{1}{2}$ wide. The coast is indented by small bays and coves, and there are good fishing stations, the principal being at Etang du Nord. This indentation is small, but offers a safe shelter for boats in 3 to 5 feet of water at low tide.

During 1894-95 the sum of \$1,999.90 was expended in procuring materials, such as hardwood sheathing 13 and 15 feet long by 6 inches and average width of 12 inches, bar iron, coals for forge work, &c., all brought over from Pictou, the cost of which

was \$881.26.

The sum of \$1,118.64 was spent for day's labour, including blasting and hauling

of some 82 toises of stone ballast wanted in the works.

The face timbers on the slope of the structure had got somewhat injured by the ice and 86 feet, mostly all under water which had been carried away, had to be replaced by new timbers, the inside, on a length of 200 feet, being at the same time strengthened with cross timbers and stone and frame work in the different pockets.

The slope or inclined face was repaired on a length of 113 feet by replacing the old damaged soft wood sheathing with hardwood, 6 inches and 13 and 15 feet long, well secured with iron $\frac{7}{8}$ and $\frac{3}{4}$ -inch bolts instead of the soft wood treenails formerly

used.

GRANDES BERGERONNES.

At Grandes Bergeronnes, 18 miles east of Tadoussac, the channel of the river was improved for a length of $\frac{1}{2}$ mile by a width of 50 feet, by blasting and removing some large boulders and other obstructions.

The amount expended was \$299.94.

GRANDE DECHARGE, LAKE ST. JOHN.

At Grande Décharge, 17 miles from Roberval the floating pontoon at Island House, was transferred to the Government and \$500 were expended in lengthening it 40 feet by 20 feet.

ISLE VERTE.

On the south shore of the St. Lawrence, 17 miles to the eastward of River du Loup Point and one mile north of the Intercolonial Railway, is the village of Isle Verte, in the County of Témiscouata.

Opposite the village and 3 miles from the shore is an island also called "Isle Verte"; about 100 people living on it. The wharf built at the village of Isle Verte is very useful to the inhabitants of the island, and has a length of 1,750 feet.

During 1893-94 the outer block was planked and the north and east sides were sheathed with rock elm, and during 1894-95 the west and south sides were sheathed and other work performed at a cost of \$922,91.

As it now stands the block is bound with such a heavy coat of elm that it is believed it will not give way for a long time.

LAKE ST. JOHN DISTRICT.

Buoys were placed on a distance of 25 miles on the Mistassini River, and on the River Asshouapmouchouan, on a distance of 15 miles, while the River Peribonka was buoyed for 5 miles.

These rivers flow into Lake St. John. The amount expended was \$500.

MATANE.

On either side of the River Matane, which empties into the St. Lawrence on the south shore, is the village of Matane, in the County of Rimouski.

This village is 30 miles distant from Little Metis Station, the nearest point on

the Intercolonial Railway, its distance from Quebec being about 240 miles.

Two wharfs have been built by the department. One at the extreme mouth of the River Matane, the other nearly $\frac{1}{4}$ of a mile up the river, and during 1894-95

the former was partly repaired.

This wharf is built on the west shore of River Matane and runs parallel to it. It is 500 feet in length, 23 feet in height on the seaward side, which was formerly protected by a row of piles driven into the clay and fastened to the wharf. These piles have been broken by the ice and have almost all disappeared. The corner angles of the piers being unprotected were badly damaged. The work consisted in repairing the piers and the row of piles in front of the pier were renewed for a length of 400 feet and general repairs effected. Spring tides rise 12 feet.

The amount expended was \$998.33.

MURRAY BAY.

Murray Bay is on the north shore of the River St. Lawrence, in the County of Charlevoix, 85 miles east of Quebec.

During the month of September the face timbers broken by ice on the western side of the new extension were repaired and that side was further protected with 5-inch spruce sheathing.

The work was done by day labour at a cost of \$100.10.

NEW CARLISLE.

New Carlisle is the *chef lieu* of the County of Bonaventure, and is on the north shore of the Baie des Chaleurs and 65 miles from Campbelltown, N.B.

The work done at this wharf consisted in renewing 700 feet of flooring with 3-

inch deals and blocking up the stringers under same.

1,050 feet B.M. of 2-inch deals were used in covering over (the old floor) part of the middle roadway, on a length of 96 feet and 12 feet wide on the old wharf.

On the new extension of 1890, the north-east corner which had considerably settled down, the flooring which was somewhat broken up, was put in order and 80 feet of guard timbers placed over the cap timbers to prevent freight rolling off the pier.

Other sundry small repairs were made here and there to prevent accidents.

The expenditure amounted to \$111.15.

PETITE RIVIÈRE ST. FRANÇOIS.

Petite Rivière St. François is on the north shore of the St. Lawrence, in the County of Charlevoix, 10 miles west of Baie St. Paul and 50 miles east of Quebec.

During the month of November last part of the boulders obstructing the channel frequented by schooners entering the bay at high water were removed.

The work was done by day's labour at a cost of \$101.00.

Spring tides rise 19 feet, neap tides 13 feet.

PORT DANIEL.

Port Daniel, Bonaventure County, is situated on the Baie des Chaleurs, 50 miles from Percé.

The works done at Port Daniel during the fiscal year 1894-95 consisted in raising

up the extension block of 1890 to the original height of pier previously built.

This block of 50 x 75 feet had settled down to such an extent that it was found necessary to lift up flooring, some cross and longitudinal ties and build up as follows: North-east corner 56 inches, running to 45 inches in height at south-east corner; sea-face 45 inches high all over; south-west corner 45 inches to 23 inches at north-west corner and from this latter to join north-east corner 23 to 56 inches in height.

Black birch sheathing was placed all around, the raised portion resting on sheathing of depressed portion. The height of flooring above June spring high tide is only 5 feet 6 inches; however a cap piece of 12 x 12 inches has been put on for better protection against the waves in stormy weather.

The expenditure was limited to the appropriation of \$1,000.

QUEEN'S WHARF, QUEBEC.

During the last fiscal year 3 new mooring posts and 2 upright projecting elm fenders were placed on the wharf at a cost of \$58,52.

RIVER DU LIÈVRE, LITTLE RAPIDS.

The lock and dam built by the department are situated at the Little Rapids, 12 miles above the village of Buckingham. The lock is 150 feet in length between the gates and the width 31 feet, the lift being 13 feet 9 inches at low water.

During the fiscal year 1894-95 the sum of \$262.95 was expended in building a protection pier above the west abutment of the dam, to prevent the river during freshet time from working in back of the abutment.

RIVIÈRE DU SUD.

The town of Montmagny in the county of the same name is situated along the Intercolonial Railway, 40 miles to the eastward of Quebec. It is a prosperous place with a population of about 4,000.

From south-west to south-east, the town is crossed by the "Rivière du Sud." Owing to the united actions of ice and swift current the banks were eroded especially on the contribution of t

on the south-east side where the public road was partly washed away.

To prevent further damage a contract was entered into for construction of protection work which was commenced in Decembr, 1894 and completed in May, 1895.

The work consists of a stone wall 830 feet in length, by a depth of 7 feet at the base tapering to 5 feet at the top, with a mean height of 7 feet. It starts near the

Intercolonial Railway bridge and runs southward and parallel to the bank of the river on the south-east side. The masonry is a granite ranged dry marble standing over a hard bottom of sand and small pebbles. The back filling is done with broken stones. Two box culverts have been constructed to allow the flow of water from the adjoining lands.

The amount expended was \$4,966.

RIVER ST. MAURICE.

The River St. Maurice flows southward and empties into the St. Lawrence at Three Rivers.

From its outlet to Grandes Piles, a distance of 37 miles, this river is not navigable, owing to the numerous falls and rapids which follow each other without much intermission, but above Grandes Piles up to La Tuque, a distance of 66 miles, there is a good channel for vessels drawing less than two feet six inches of water.

The greatest impediments to navigation are at the shoals at the Mekinac, Pointe à Tom, the shoal at l'île aux Morpions, also at Pointe à Trudel near Grandes Piles,

and at the Rapid Manigance.

The work done consists in the placing of land marks and buoys to indicate the best channel at the shallowest places, between Grandes Piles and La Tuque, and in deepening the channel at the Mekinac shoal, l'île aux Morpions and Pointe à Trudel shoal.

On the 13th September, 1894, Mr. Ritchie's boat could not pass at Mekinac shoal when the water level was at 4.5 feet on gauge at Grandes Piles, at the end of September the water had receded to 3.4 feet on gauge, and the same boat could not pass at this stage of water. The shoal has been deepened to 5 feet of water.

Thirty nine land marks have been established on the river bank to indicate the channel, and 71 buoys have been kept during the navigable season to indicate the best channel at the shallowest places between Grandes Piles and La Tuque.

The work was all done with shovels and the material shovelled (chiefly gravel and small stones) was deposited on the booms, and afterwards dumped into the river, outside of the channel.

At the opening of navigation, in June last, the number of land marks was increased to 57 and 63 buoys have been placed to indicate the best channel at the shallowest places between Grandes Piles and La Tuque.

The amount expended on this work was \$2,832.55.

ROBERVAL.

Roberval is situated on Lake St. John, 190 miles north of Quebec.

A crib 50 feet long, 21 feet wide and 26 feet in height was built at the north-east end of the wharf, 15 red spruce fenders placed around it and 5 mooring posts were put in. A slip was constructed at the end of the crib.

The channel of the Quiatchonamiche River was deepened and widened-2,750

cubic yards of earth and about 60 boulders of various sizes being removed.

The expenditure during the year amounted to \$4,200.31.

ST. JEAN, ISLAND OF ORLEANS.

St. Jean, Montmorency County, is on the south shore of the Island of Orleans

and is distant from St. Laurent 7 miles.

The work done on St. Jean pier during the last fiscal year was as follows:—It was found necessary to remove from 8 to 9 feet in depth of the outer 207 feet, and build up the whole anew. Another portion further in shore was also renewed measuring on west side 5 feet 9 inches in depth; on east side from 3 feet to 5 feet 9 inches by 150 in length.

The work is close-faced, crib timber being used, sawn 12×12 inch and 12×14 inch, pine for facing and rough 10×11 inch 11×12 inch and 12×12 inch pine and

flat and square cedar, for ties and stringers. Nothing but pine, tamarack and cypress or black spruce deals were used for planking and sheathing. Sixteen new mooring posts and six long fenders rock elm posts, extending 4 feet above pier, were also placed on outer end block, well seamed with tamarack knees.

The lighthouse was removed, foundations rebuilt and building strengthened

with tamarack knees; all the slips east, centre and west, well repaired.

The following materials were used :-

Planks 3 inch pine	13,061)
do do tamarack	13,513 B.M. 49,124
do do cypress	22,550
Black birch sheathing 3 inch	6,800 feet B.M.
Rock elm sheathing and fenders	6,108 do
Cedar square and flat	3,178 lin. feet.
Pine sawn 12 x 12 inch and 12 x 14 inch	7,800 cub. feet.
Pine rough 10 x 12 inch up to 12 x 12 inch.	5,644 lin. feet.

At the close of the fiscal year the sheathing of the east side with hardwood, pine and cypress deals was in progress and repairs to west slip (lower part). The work has been well done and considering the labour required to pull down old work, the cost per cubic yard is very reasonable.

ST. LAURENT.

St. Laurent is on the south shore of the Island of Orleans in the County of

Montmorency, 10 miles east of Quebec.

During the month of August last 75 planks were renewed in the top flooring and an incline or ramp was built from the outer block to the old wharf which have different heights.

The work was done by day labour at a cost of \$56.

Spring tides rise 19 feet, neap tides 13 feet.

ST. MICHEL.

St. Michel is on the south shore of the River St. Lawrence, in the County of

Bellechasse, 15 miles east of Quebec.

During the months of September and October the top planking was renewed on a length of 326 feet with 3-inch planks, the stringers and planking of the landing slip were renewed and the north-east side of the wharf was sheathed with 3-inch planks on a length of 270 feet on an average height of 20 feet; 10 fenders were also replaced.

The work was done by day labour at a cost of \$802.23.

Spring tides rise 20 feet; neap tides 13 feet.

TOULADIE RIVER.

The Madawaska River has its source in Lake Temiscouata and empties into the St. John River at Edmundston, New Brunswick. Lake Temiscouata is connected with Lake Touladie River, which is considered a branch of the Madawaska.

During 1893-94 work was done on the Touladie improving the channel, and during 1894-95 the work of improvement was continued especially on the tow-path

which was completed.

The object of the work is to allow long boats to get up into Lake Touladie, an impossibility before, on account of boulders and other obstructions which have now been removed.

After the tow-path was completed, some blasting was done at the little fall, half a mile distant from Lake Touladie.

The expenditure amounted to \$386.45.

TROIS PISTOLES.

Trois Pistoles, in the County of Temiscouata, is a village on the Intercolonial Railway, 25 miles below River du Loup. The land in the vicinity is fertile and the place is flourishing.

The improvements and repairs made to the wharf during 1894-95 are as follows:—
At about the centre of the pier, the courses on both sides were not carried up to the full height, and there were openings left which allowed the waves and ice to go through, causing much strain upon the flooring. These openings which extended over a length of 105 feet, were closed in by adding the necessary courses, up to the level of the adjoining parts, and the floor was extended.

This gives more mooring space for vessels and more room for carriages. The part of the wharf which extends from the shore for a length of 460 feet is only 18 feet wide. This was considered dangerous and accordingly garde-fous have been constructed on both sides over a length of 350 feet. Two hundred spruce planks were used in repairing the flooring. The stone ballast was increased by over 200 loads of stone, and with the small balance left, some bad rocks were blasted near the head of the pier. Spring tides rise 16.5 feet.

The expenditure amounted to \$998.89.

YAMASKA LOCK, 1894-95.

The Yamaska River flows through the County of Yamaska, emptying into the St. Lawrence 8 miles below the town of Sorel, on the southern shore of Lake St. Peter.

The lock, which is situated about $4\frac{1}{2}$ miles from the outlet of the river, has been kept in good working order all summer. It was opened on the 21st April, and closed on the 18th November, during which period there were 282 lockages, viz., 168 steamboats, 66 schooners and barges and 58 small craft of various dimensions.

On the 17th August, 1893, the regulations for the management and working of the lock were put in force. The revenue accrued during the navigable season of 1894 amounted to \$281.37 which represents an average of a little less than \$1 for every time the lock was opened during the summer.

On the 10th September, 1894, it was reported that the cribwork at the east end of the dam had undermined, leaving a large broak. This gap has been filled in with bags of sand and soil taken from the river bank and with 20 toises of stone ballast.

The total amount of expenditure for staff was \$616 and for maintenance and repairs \$396.30; in all \$1,012.30.

PROVINCE OF ONTARIO.

BURLINGTON CHANNEL.

Burlington Channel is a channel through Burlington Beach, and connects the waters of Lake Ontario with Burlington Bay.

Considerable repairs were made to the east pier, which has been undermined by the action of the screws of steamers calling at the pier to land and embark passengers.

DYER'S BAY.

Dyer's Bay is situated on the east shore of the Georgian Bay, Bruce County, North Riding, about 50 miles north of Wiarton. At the last session of Parliament the sum of \$3,500 was voted for the construction of a landing pier at this place. Plans and specifications were prepared and the work let to Mr. David Porter, contractor, Wiarton, on the 25th August, to construct a pier 210 feet in length and 20 feet wide; consisting of an approach 70 feet in length; 2 cribs 25 feet by 20 feet

and one outer crib 30 by 20 feet, with three spaces 20 feet by 20 feet decked, for the sum of \$3,150. Work was at once commenced and the structure finished on the 7th September. The total amount expended was \$3,219.15.

GODERICH.

Goderich is situated in the County of Huron on the east side of Lake Huron at the mouth of the Maitland River, about 68 miles from Sarnia, 60 miles from London and 44 from Stratford. Population 4,000.

On the 20th April, 1893, a contract was entered into with Messrs. Brewder and McNaughton of Ottawa, to extend the north pier 410 feet in length and the south pier 110 feet in length and to dredge berths for the same. Active operations were commenced in March last and the whole of the work completed on the 7th November.

The expenditure to the close of the fiscal year ending 30th June, 1895, was **\$**36,919.

KINGSTON HARBOUR.

Kingston, Frontenac County, is at the lower end of Lake Ontario, and is 172 miles above Montreal and 43 below Belleville.

The removal of the Point Frederick shoal was continued during the fiscal year 1894-95, the result being the removal of 1,978 cubic yards of rock.

The hoisting scow and four stone scows were thoroughly repaired during the spring, and the total expenditure during the year amounted to \$5,769.04.

KINGSVILLE.

Kingsville is in the electoral district of South Essex on the north shore of Lake Erie; it is a station upon the Detroit, Essex and Lake Erie Railway, and is distant about 25 miles east from the mouth of the Detroit River.

Authority was given to expend the sum of \$400 in effecting immediate and

necessary repairs to the landing pier.

Work was commenced on the 22nd August and completed on the 16th September. In making the repairs some 1,600 feet of lumber was used and the pier made available for shipments. The total amount expended by the close of the fiscal year ending 30th June, 1895, was \$394.

OWEN SOUND.

Owen Sound is situated in the township of Sydenham, County of Grey, and at the mouth of the Sydenham River, it is the terminus of the Canadian Pacific Railway (Toronto, Grey and Bruce division) and of that company's line of steamers on the upper lakes, also of the branch of the Grand Trunk Railway (Georgian Bay and Lake Erie division).

At the last session of Parliament the sum of \$5,000 was voted to continue the dredging in the "new channel." Work was commenced on the 18th August and the appropriation expended by the 15th October. The dredge worked 5862 hours and removed 23,040 cubic yards of material. The expenditure for dredging and inspection was \$4,988,10

On the 19th October last a contract was entered into with Messrs. Porter and Canon, of Wiarton, for the bulk sum of \$18,638 for the construction of sheet pilerevetment-work in front of the esplanade, on the west side of the harbour, a distance of 1,550 feet, and for this purpose the sum of \$10,000 was voted at the last session of Parliament. The materials for this work were obtained during the winter months and delivered on the site of the works; active operations were commenced in May and on the 30th June last 55 per cent of the work was completed and it is expected that the whole of the revetment will be finished early in the coming month of July.

PORT ALBERT.

Port Albert is situated at the mouth of Nine Mile Creek, on the east shore of Lake Huron, 11 miles north of Goderich, in the township of Ashfield, County of Huron.

At the last session of Parliament the sum of \$10,000 was revoted for the extension of the piers at this place and authority was given to do the work by day's labour and to extend the north pier 200 feet.

Preparations were at once made to obtain the necessary materials for the work; the two cribs were built and placed in positions through the ice, during the winter months, and in the spring the superstructure was placed upon the crib and the whole finished by the end of May.

The expenditure to the close of the fiscal year ending 30th June, 1895, was as

follows:

the lake, 200 feet long, 20 feet wide; materials,		
labour and inspection	\$5,689 3,441	93 25
Total	\$9,131	18

PORT ROWAN.

Port Rowan is situated on the north coast of Lake Erie, in the inner bay of Long Point, and is 21 miles from the town of Simcoe, in the county of Norfolk.

To strengthen the landing pier, the two outer cribs were filled with cribwork at a cost of \$1,143.16.

RONDEAU.

Rondeau is situated at Pointe aux Pins on the north shore of Lake Erie about 140 miles west of Port Colborne. It is a harbour of refuge.

Authority was given to expend the sum of \$100, to repair that portion of the pier used as a landing for passengers and freight. This amount was expended by the 23rd November. A further sum of \$600 was authorized in order to make necessary repairs to the piers. The season being so far advanced it was found impossible to expend the money with any advantage before the spring of this year, when the materials were obtained and work pushed on as fast as possible.

The total amount expended to close of fiscal year ending 30th June, 1895, was

\$600.

SAULT STE. MARIE.

Sault Ste. Marie, the shire town of Algoma County, is situated at the head of the Ste. Mary's River, which connects Lakes Huron and Superior.

Authority having been given to expend out of the general vote "Harbours and Rivers, Ontario" a sum not exceeding \$300, for general repairs to the landing pier at this place.

Work was commenced on the 28th August and completed on the 29th September; thirty-two piles were driven to support floor beams, and 1,607 floor 3-inch plank was laid with other repairs.

The total expenditure to 30th June, 1895, for the fiscal year was \$297.

SOUTHAMPTON.

Southampton is situated on the east side of Lake Huron, in the County of Bruce, and is the terminus of the Wellington, Grey and Bruce division of the Grand Trunk Railway.

At the last session of Parliament the sum of \$1,000 was appropriated for repairs to the breakwater and piers at this place.

Repairs were made last fall and this spring, and the sum of \$276.86 has been

expended.

THORNBURY.

Thornbury is on the west side of the Georgian Bay at the mouth of the Beaver

River, in the County of Grey, East Riding, 13 miles west of Collingwood.

At the last session of Parliament the sum of \$2,500 was voted to complete the works of repair, and active operations were commenced in September—as soon as materials could be obtained—and the whole of the amount authorized was expended by the end of the fiscal year, and the landing pier is now in complete state to repair.

TORONTO HARBOUR WORK AT EASTERN ENTRANCE.

The works at the eastern entrance which were begun in 1889, consist in building 1,650 feet of cribwork, to partially close the eastern gap from Fisherman's Island, up to the new eastern channel which is to be opened by the construction of two rows of cribwork, respectively 2,420 feet in length and 2,280 feet in length, 400 feet distant one from the other, and by dredging between these two rows of cribwork to a depth of 16 feet low water.

During the fiscal year 1894-95 four cribs, 30 feet in width, were sunk on west side of channel; and one, 40 feet wide, on east side, making a total of 58 cribs sunk

to date.

1,750 lineal feet of superstructure was constructed, forming a total to date of 5,510 lineal feet. 78,748 ft. B.M. of plank were laid, and 17,155 cubic yards of stone placed in cribs and superstructure; and 107 cubic yards of large stone delivered for protecting the east pier.

14,970 cubic yarbs of sand were removed from the channel and crib sites, making

a total of 667,493 cubic yards dredged.

PROVINCE OF MANITOBA.

HUAUSA WHARF.

Huausa is situated on the west shore of Lake Winnipeg, forty miles north of the mouth of the Red River; sixty miles from the town of Selkirk, the head of navigation for lake boats, and eighty-two miles from the city of Winnipeg.

There is no village at Huausa. The district between Huausa and Gimli is very

sparsely settled, as is the case between Huausa and Icelandic River.

Icelandic River settlement is by land 7 miles north-west of Huansa and 12 by

water.

Gimli village is the most important settlement on the west shore of the lake with a population of 300. Gimli is 20 miles south of Huausa. A light draught steamboat, the "Ida," makes regular trips between Gimli and Selkirk during the season of navigation. Boats drawing more than five feet do not run in to either Gimli or Huausa.

To provide wharf accommodation for the district a contract was entered into, on the 5th March, 1895, with Mr. Peter McVeigh, of Ottawa, to construct a wharf 360 feet in length and 20 feet in width on top, consisting of 300 feet open faced cribwork, and a stone and earth embankment or approach 60 feet in length and 20 feet in width at the top.

The work of construction was commenced in June last, and was in progress at

the close of the fiscal year.

PROVINCE OF BRITISH COLUMBIA.

COLUMBIA RIVER.

The Columbia River takes its rise in the Columbia lakes lying between the Rocky and Selkirk Mountains, a little north of the 50th parallel of north latitude and a little east of the 116th meridian. These lakes are divided from the Kootenay River, flowing south, by a gravel flat—commonly called Canal Flat—1½ miles in width, the level of the lakes being about 9 feet below that of the latter river. Flowing in a north-westerly direction, passing the Canadian Pacific Railway on the way, as far as the Canoe River, a tributary, a little north of the 52nd parallel, it doubles, and takes a southerly course repassing the railway at Revelstoke, and eventually passing the international boundary between the 117th and 118th meridians of west longitude.

Above Golden.—The dredge "Muskrat" continued operations on the Columbia River above Golden with the object of improving navigation at the canal entrance Upper Lake, Mud Lake Channel to Lake Windemere, and deepening the salmon beds below the outlet of Lake Windemere from the 1st July to the 30th October, 1894, at which latter date the plant was laid up and the crew discharged for the

winter.

Owing to the late spring, and the prevailing coolness of the weather, the water rose very slowly, and it was not until the 3rd May, that the dredge could be success-

fully launched off the ways.

The object of this work is to obtain an average depth at lowest water in the spring of 24 inches in the shoalest places. To assist in accomplishing this, the flow at the outlet has been regulated by repairing the dam, built some years ago, and by filling in the channel at the outlet to a regular depth of 3 feet at low water. The dredge then moved slowly down stream taking off lumps, and filling in holes in the shoalest places, whereby the bottom, being made more regular, would more likely remain stable, the fall being distributed over a greater length of river. So far the work has answered the purpose; but it remains to be seen whether the improvement can be maintained permanently.

The following table gives the operations of the dredge in detail:—

Locality.	From.	То.	Cubic yards.	Remarks.
Deepening and widening canal entrance, Upper Lake				Compact gravel and sand.
Moving Improving Mud Lake Channel Improving Channel Lake Windemere Deepening Salmon Beds do do Total		1	890 5,675 3,532 16,787	do Gravel and sand. do do

The expenditure being \$3,942.88, the cost approximately of moving the material was 23 cts. per cubic yard. Had there not been the unavoidable delay in getting

to work in the spring, the cost per cubic yard would have been much less.

Below Kootenay.—Work was resumed at Kootenay Rapids last winter, and consisted in closing the gap between the cribs built in former years on the east or left bank of the river, for the purpose of facilitating the passage of boats, by preventing them from being drawn into the eddies, while ascending the river, and in prolonging the lower crib further down stream, and the expenditure amounted to \$2,347.57.

At Revelstoke.—Work was commenced at Revelstoke on the 18th of February, 1895, for the purpose of protecting the left bank of the Columbia River below the

bridge at that place for a distance of about 1,600 feet.

The work consisted in building a continuous line of brush mattresses for the whole distance, extending from about low water to 3 feet above the highest flood water known, that of last year. The mattress was built in place about 2 feet in depth in cross layers of 8 inches each, all strongly interlaced together with number 6 galvanized iron wire, at 5 feet centres and strongly clamped together with bottom and top cedar timber and bolts. To give the massive brush additional solidarity, a large quantity of medium size boulders from the river bars were built in with the brush and a layer of broken rock spread over the exposed face.

The whole work was completed in a satisfactory manner by the 16th of April,

at a cost \$7.010.84.

The work has stood the test of this year's high water in a satisfactory manner.

FRASER RIVER.

The Fraser River rising at the base of the Rocky Mountains, a little south of the 53rd parallel of north latitude, near the Yellow Head Pass, flows in a north-westerly direction, along the base of the Rocky Mountains, to a few miles north of the 54th parallel, thence turning to the south it flows generally in that direction for about 400 miles, to a place called Hope, whence it turns westerly and enters the Gulf of Georgia about 8 miles north of the 49th parallel of north latitude—the international boundary line—and about 6 miles west of the 123rd meridian.

The length of the Fraser River, from its source to the gulf, cannot be less than

900 miles.

Garry Bush.—The work at Garry Bush, during the past fiscal year in connection with protection of the bank, consisted of driving piles through the mattresses at low water mark, cutting off, capping, and tieing the piles to the bank. This was done for the purpose of preventing damage to the work by the pounding of heavy drift timber. Before, however this was completed, the mattresses were made good, wherever damaged, by patch work, and rock distributed over the exposed face between high and low water marks. The work covered by the expenditure extended from Steves' wharf to Garry Point a distance of 800 feet.

On June the 4th, a subsidence, about 50 feet wide, took place at Garry Point, between high and low water marks, and behind the work, caused by, it is thought,

the scapage water, sluicing out a stream below high water, of fine material.

It was immediately made good with mattresses and stone. No other damage has occurred, the works appearing to be in good condition, permanent and successful in protecting the bank from erosion.

The expenditure amounted to \$2,999.91.

Mouth of River.—Before it was possible, on account of the extreme high water which prevailed last year, to continue the extension of the works beyond Garry Point in connection with the improvement of the channel at the mouth of the river, men were engaged in getting out rock and making other preparations for resuming work; and in completing the repairs to the Rock wharf necessitated by the damage done during the extreme high water:—

On the 27th July, the freshet having subsided to a favourable stage for work, the first mattress was placed in position outside Garry Point, and on the 19th of October following, the 35th was laid, completing the protection of the steep cut north bank, a work necessary for the stability of the channel, for a further distance out-

side Garry Point of 1,150 feet.

For the purpose of patching and making good unavoidable intervals between the mattresses or damaged work, separate mattresses of different sizes and shapes were, in addition to the above, constructed and placed in position.

The portion of the mattresses sunk the previous year outside Garry Point, exposed to damage by waves or drift timber, were protected by driving piles through

them at low water mark. These were then capped and tied to short piles driven in the bank, rock having first been laid along the exposed face of the mattresses.

When permitted by tides and the absence of the fishing boats, soundings were taken at the mouth of the river and over the sandheads for the purpose of ascertaining the extent of the changes effected by the unusually high water of last year. The soundings, extending from the lower end of Woodward's Slough at Western Island, to the outside of the sandheads at buoy No. 1, show that great changes have taken place in the position and extent of the bars in the channel, and that the erosion of the banks, especially of Westham Island, has been excessive: the immediate result of the extraordinary high water of last summer.

The north banks of Westham Island and on the island known as McNab's, immediately adjoining and to the outside of the former, have been most seriously washed away, while the bar opposite has been creeping down stream, forcing the current over against Westham Island. Opposite Garry Point there has been a very considerable movement of the bar outwards, with strong indications of subsidiary channels being cut to the southward, towards the old south channel.

In consequence of this widening of the river section at the mouth, there has been a serious shoaling of the bar from red buoy No. 6, westward abreast of Stevenston.

On the north side of the channel west of Garry Point there has been a continued shifting of the channel north. At the same time the bar further out has been forming or building up towards the south-west, so much as to necessitate the removal of the tide gauge from its position north of buoy No. 6 to its present position north of buoy No. 4.

Again on the south side, abreast of buoys Nos. 5, 6 and 7, the channel shifted to

the southward. The subsidence of the south jetty was the result of this.

On the 30th November work was closed down for the winter.

On March 21st following the men were engaged and steps were taken with the view of constructing works to protect the north bank of Westham Island from further erosion, as well as that of McNab's Island. It was however evident that, owing to the extent of bank that it seemed necessary to protect before next high water and the small sum of money available for the purpose, it would be useless to endeavour to follow the same method as that adopted for the protection of the bank at Garry Point, as it was impossible to foresee at what particular point of Westham or McNab's Island, the erosion would be likely to be most severe. It was therefore decided to endeavour to meet the difficulty in the following manner, (1) by closing the slough below the rock wharf with mattresses and building a wing and (2) by building wings, varying in length from 100 to 200 feet from high water mark, all being protected both above and below by mattresses of smaller size. The position of these wings were chosen with the anticipation that if they did not succeed altogether in preventing erosion, they would assist in removing some of the projecting points of the bank, which rendered it impossible to economically protect the river bank, so that the works would present the least obstruction to the flow of the current.

Warm weather setting in unusually early this spring, about the end of April, the freshet water began to take offect on the river early in May, and continued rising until the end of that month, remaining at a standstill for the greater part of June. Although the water did not rise at Yale to within 16 feet of last year's level, the spring tides backed the water up at New Westminster to within one foot of last year's highest water, that is, the water reached a point 5 feet higher than the highest tide reaches when there is no freshet in the river. Towards the end of June there was a second rise reaching at Yale a point 4 feet 10 inches higher than the level reached in May. The first rise of the river passed without any damage occurring to the works on Westham Island, but the second occurring suddenly and at the time of the spring tides, the rush of water on the spring ebb tide, preceded by a short run out and that in turn preceded by a long run in, whereby the water was virtually backed up for eighteen hours, caused a certain amount of cutting at wings seven, nine and eleven. In the case of the two former the cutting was in the desired direction, that is the removal to a certain extent of the projecting points

along the bank, but in that of the latter it was not so. In no case, however, is the cutting so extensive that it cannot be remedied, if there are sufficient means for doing so. It is, however, out of the question, with the small appropriation of \$10,000 for the current year's work, to render the bank safe against next year's freshet.

The following is a detailed statement of the number of mattresses sunk outside

Garry Point and along the north bank of Westham Island.

Outside Garry Point.

35 mattresses, 100 x 25 feet x 2 feet 9 inches.

 $5\frac{1}{2}$ mattresses, made up of 11 pieces used for filling in between and behind the large mattresses.

2 mattresses, 100 x 26 feet x 4 feet.

95 piles driven as guides for sinking mattresses.

1,300 tons of rock used in sinking mattresses.

Westham and McNab's Islands.

13	mattresses	100	feet by	26	feet by	6	feet.
2	do	100	do	26	do	2	do
1	do	80	do	26	do	6	do
1	do	70	do	20	do	3	do
2	do	75	do	12	do	1	do
1	do	50	do	26	do	4	do
7	do	50	do	26	do	$2\frac{1}{2}$	do
6	do	50	do	26	do	$1\frac{1}{2}$	do
1	do	50	do	26	do	3	do
4	do	30	do	26	do	$2\frac{1}{2}$	do
3 3	do	30	do	26	do	$1\frac{1}{2}$	do

In addition to the above, 22,000 cubic feet of fascines were made for filling in

interstices in the mattresses and making good damage.

The average cost of the mattresses, 100 feet by 25 feet by 2 feet 9 inches, built and sunk between the 1st July and 30th November, including all material and labour and a fair price for the use of the plant was \$281.17.

The expenditure during the year amounted to \$29,998.28.

FRASER RIVER SURVEY.

In accordance with instructions, preparations were made for commencing the hydrographic survey of the Fraser River, which was to be carried out with the object of obtaining all information necessary for the consideration of the rectification of the river course, the protection of the banks, and the prevention of overflow.

Work was commenced at Katz Landing, about 2½ miles below Hope, a station on the Canadian Pacific Railway, 80 miles above New Westminster. After laying out and carefully measuring an initial base line, 1,300 feet long, which approximated the breadth of the river at that point, the engineer in charge proceeded to fix trigonometrical stations along either bank, above maximum flood level, as nearly as possible opposite to each other, so as to obtain well conditioned triangles. The trigonometrical stations were either cedar posts five feet long, and generally about eight inches square, set in the ground with the large end down so as to avoid heaving by frost, the post holes being filled in first with large stones and then with earth well rammed, or the stump of a solid cedar tree cut and blazed to the same dimensions as the post. These trigonometrical stations were numbered from zero onwards, those on the south or left bank having the even numbers, while those on the north or right bank carry the odd numbers. On the face of each post towards the river was scribed the letters T.S. On the next side of the post the number thereof. On the third side the letters P.W.D.C., and on the fourth side, where it was the intention to establish a bench mark, the letters B.M

As the engineer in charge established the stations and read the angles, the assistant engineer followed, traversing the country between the stations by stadia measurements, and noting in his book the character of the soil and configuration of the banks and bars, the direction and approximate rate of currents and the vegetation and timber in the vicinity. Vertical angles were also taken to determine the height of the hills on either side of the valley. This traverse or stadia survey embraced all the sloughs or subsidiary channels that had any connection with the river.

On the conclusion of the work last spring, the survey had reached a place called Popeum, a distance by the river from the point of commencement of $17\frac{1}{2}$ miles. This distance involved 23.8 miles of main traverse between the principal trigonometrical stations, 18 miles of subsidiary main traverse of and to sloughs, etc., and 98 miles of stadia traverse. Wherever an opportunity occurred, verification bases were laid down, three careful measurements of the base being with hubs in line, the necessary correction for temperature being applied in every place. The method of distributing the error found was similar to that employed in India by the Topographical Survey Department.

Upon the conclusion of the work to Popcum, levels were run between trigonometrical stations 91 and 9 on the north or right bank, and between stations 88 and 50 on the south or left bank. The total length of ground traversed being about 27 miles. The fall of the surface of the river was ascertained to be in that distance

about 2.03 feet per mile.

A plan of the work performed has been plotted on the scale of 400 feet to the inch, but owing to the appropriation having become exhausted, it has not been completed.

The expenditure amounted to \$4,894.71.

KICKING HORSE RIVER.

The Kicking Horse River may be described as a mountain fed by the glaciers and snow fields of the western slope of the Rocky Mountains, between Field and Golden Stations, on the line of the Canadian Pacific Railway. At the latter place

it joins the Columbia River.

The local government h

The local government having expended a large sum, upwards of \$2,500, in protecting the banks of the Kicking Horse River at Golden, the sum of \$500, voted by the Parliament of Canada for this purpose on the condition that the local legislature provide a like sum, was paid over to the Lands and Works Department, after having received satisfactory evidence of the expenditure and by personal inspection, that the work has been done in a substantial and workmanlike manner.

The work consisted in protecting the banks on both sides above the town of Golden and at the town itself by cribwork and by mattresses, the latter being con-

structed in a manner similar to the works at Revelstoke.

KOOTENAY RIVER.

The Kootenay River takes its rise in the heart of the Rocky Mountains a little north of the 51st parallel, $16\frac{1}{2}$ miles south-east of Leancoil, a station on the line of the Canadian Pacific Railway. It flows for some distance in a south-easterly direction, and then, changing to the south-west, it passes within a mile and a half of the head-waters of the Columbia River. At Canal Flat it again changes direction, and pursues generally a direction a little east of south to the international boundary line, which it crosses at Tobacco Plains about 6 miles, west to the 115th meridian. The Kootenay enters Canada again at Bedlington about 20 miles east of the 117th meridian. Thence flowing a northerly course it enlarges into the Kootenay Lake, 72 miles in length, 28 miles by river from the boundary line. The outlet of the lake is on the west side about 30 miles north of the inlet, whence it flows in a south-westerly direction, joining Columbia River about 21 miles all north of the boundary line.

It may be safely stated that throughout its entire course the Kootenay traverses a country rich in minerals of all kinds, but particularly so in gold and silver.

The work on this river consisted principally in clearing it of snags, drift timber, and overhanging trees, commonly called sweepers; and in cutting all trees that threatened to fall in the river, should the current erode the bank, for a distance of 17 miles below Canal Flat. In secondary importance was the attempt to improve Surprise Bar, 12 miles below the flat, by building a dam on the west or right bank for the purpose of training the water against the bar. The removal of spurs of rock which caused dangerous eddies, abreast of a rock bluff, on the east or left bank below Surprise Bar, was also undertaken.

The work of clearing the channel was successfully carried out and has been of benefit to navigation, but the dam at Surprise Bar has been only partially so, and unexpected ice shove at the time that the closure was being made, upsetting the

crib, which it was found impossible to replace in time.

SKEENA RIVER.

The Skeena River lies in the north-western section of the western portion of British Columbia. It derives its source from lakes and glaciers situated between the 56th and 57th parallels of north latitude and between the 126th and 128th degrees of west longitude. It flows generally in a south-westerly direction and empties into the waters of the Pacific Ocean by way of North Skeena, Telegraph, and Mallaca Passages, Chatham Sound, etc., at a point a little north of the 54th parallel of north latitude, and a few miles west of the 130th degree of west longitude, and about 650 miles, by the inner passage, north-west of Victoria. The principal post office and port on the Skeena is Port Essington, lying on the south shore of the estuary at the confluence of the Skeena and Oxtall Rivers, 13 miles east or inland of the entrance passages. It is navigable by light draught steamers, when the water is not too high, from May to the end of September, as far up as Hazelton, a Hudson's Bay Company post established on the south bank at a distance of about 173 miles from the mouth of the river. This post is the distributing point for the mining and grazing country lying to the north and west towards the Rocky Mountains and Peace River country, and to some distance to the south.

The appropriation of \$1,000 was expended in removing snags which interfered with the drifting salmon fishing nets in the tidal waters of the estuary during the fishing season, in the month of July, and in continuing the removal of rocks from

the channel of the upper river, with the intention of improving navigation.

After the snaging plant, which had been in disuse for several years, and consequently required repairs, had been placed in working order, the portion of the appropriation, viz., \$1,000, set apart for this particular work was almost exhausted, but nevertheless many large and destructive snags were removed to the benefit of the fishermen. When this work closed the plant was laid up in good order ready for next season's work.

In September following the foreman proceeded up the river as far as Sepkew, 81 miles above Port Essington, and commenced the removal of a reef of rock jutting out from the north side of the channel and continued there until the work was interrupted by the fall freshet and flowing ice in November, when the men were laid off as it was impossible to continue the work under such conditions. The foreman, however, was retained for the purpose of burning charcoal and to act as watchman of the tools and houses which had been built for the protection of the men. Active work was resumed in February, a large quantity of snow and ice having first to be shovelled off the rock. On the 4th March, finding that the water was getting low and a good opportunity for sled travelling presenting itself, the foreman with his men proceeded up river, about 25 or 30 miles and removed a dangerous rock about 6 miles below Tomlinson's. Subsequently a return was made to Sepkew and work resumed at that point. The rock at Tomlinson's on account of the absence of seams was comparatively easy to remove, while that at Sepkew was so full of seams that powder had but little effect upon it.

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The expenditure on this river, during the year ended 30th June, 1895, amounted to \$1,980.64.

DREDGING OPERATIONS.

During the fiscal year 1894-95 dredging was done at the undermentioned places:

Nora Scotia.

Acadia Coal Co., Pictou. Cheticamp.

D'Escousse.
Dwyer's Wharf.

Eastern Passage. Herring Cove. Mabou. Poulamond. Salmon River. Sambro. Spry Bay. Yarmouth.

New Brunswick.

Fisher's and Chestnut Shoals.

Moss Glen.

Oromocto Shoals.

Pointe du Chêne.

Nicolet.

St. Placide.

Port Elgin.

Port Hope.

Trenton.

Whitby.

Port Stanley.

River St. Pierre.

Prince Edward Island.

Cardigan Bridge.

Grand River.

Quebec.

River St. Lawrence, Ship Channel. Chicoutimi. between Montreal and Quebec. Dorval.

Rorthier (en haut)

Berthier (en haut). Charlemagne. Isle Gros Bois.

Louise Basin, Quebec. Louiseville.

Ontario.

Amherstburg.
Belleville.
Collingwood

Chateauguay.

Collingwood.
Frenchman's Bay.
Goderich.
Hamilton.

Kaministiquia River. Kincardine. Kingsville. Midland.

Oakville. Penetanguishene.

Manitoba.

Red River.

British Columbia.

Victoria Harbour.

PROVINCE OF NOVA SCOTIA.

DREDGING AT ACADIA COAL COMPANY'S WHARF, PICTOU CO.

The Acadia Coal Company of Stellarton, a village in Pictou County, N.S., 10 miles N. E. of Halifax has its piers and shoots for shipping at Pictou Landing i the harbour of Pictou, where besides their large shipments they supply numerous steamers calling for bunker coal. The piers and railway track extend a long distanc out from the harbour bank, directly across the current and with the flow of the tide in and out the harbour the silt settles around the wharfs.

Considerable dredging has been done here at various times.

During the past fiscal year from the 18th to 20th November, 1894, and the 9th to 11th May, 1895, the dredge "Canada" worked at the company's loading piers, deepening the approaches to 14 feet at outer and gradually decreasing to 10 feet low water at the inner end of pier, removing 810 cubic yards of clay, silt, &c., for which work the company paid the department the sum of \$250.

DREDGING AT CHETICAMP.

Cheticamp is a settlement in Inverness County, on the Gulf of St. Lawrence, 58 miles north of Mabou, with a population of about 1,900, several stores, school buildings, church, telegraph and express offices, &c. The harbour between Cheticamp Island and the mainland is entered from the N. E. through a dredged channel 80 feet wide, having 14 feet at low water, between the shingle spit at Cape Gross on the north-east extremity of the island and Carveau Point. There is a depth of 21 feet within the harbour, but the sand bar before being dredged had but 2 feet over it at low water and the greater part of it dry.

There is good anchorage for the largest vessels inside and numbers of fishing and other vessels run here for a harbour of refuge in bad weather. There are several wharfs and a government pier in the harbour. A steamer runs between Cheticamp and Pictou, touching at intermediate points. A large fishing business is done

and the export of cattle, produce, fish and oil is very considerable.

A large amount of dredging has been done by the department at this place, and during the fiscal year 1894-95 the dredge "Canada" was engaged between July 1st and 14th, 1894, and again from the 29th May to 19th June, 1895, in deepening and widening the channel at the outer entrance to 13 feet at L. W. S. T., the material removed amounting to 10,440 cubic yards of sand, &c.

DREDGING AT D'ESCOUSSE.

D'Escousse, a settlement in Richmond County, C.B., on Isle Madame, in Lennox Passage, 7 miles from Arichat, contains several stores, hotel, telegraph, telephone and express offices and has a population of about 500. The harbour is small but secure and is formed by Bernard Island touching and bearing west. It is a half by a quarter mile in area with 11 to 18 feet of water. The entrance is a narrow channel with but 7 feet at low water on the bar. The fisheries are extensively prosecuted by small vessels, belonging generally to Jersey merchants residing at Arichat. The entrance to the harbour had been considerably improved by the department in the past, and this year the dredge "Canada" was engaged from the 23rd September to the 10th November in further deepening and straightening it, 3,240 cubic yards being removed, principally of clay, sand and gravel, leaving a depth of 13 feet. This was taken off the point of the island shoal, about 460 feet across, the sides being about 180 and 80 feet respectively.

DREDGING AT DWYER'S WHARF.

This wharf is in the harbour of Pictou, one of the finest harbours on the southern shore of the Northumberland Strait. The town of Pictou has a population of about 3,500 and an extensive trade. The annual exports of coal are very large. The Prince Edward Island Steam Navigation Company makes Pictou a terminus for their

steamers and it is a place of call for other lines.

The dredging done during 1894-95 in front of Dwyer's wharf was principally to enable the steamer "Campania," running between Montreal and Pictou, to get to and lie at this wharf, and consisted in making a channel or approach to the wharf and along its front, widening into a turning berth. The work was commenced by the dredge "Canada" on the 20th June and was in progress at the close of the fiscal year, when 1,530 cubic yards of mud had been removed, leaving a depth of 14 feet at low water springs.

DREDGING AT EASTERN PASSAGE.

Eastern Passage, Halifax County, is the name given to the water channel lying between Lawlor's and MacNab's Islands on the one hand, and the main eastern shore of Halifax Harbour on the other. It is 3½ miles long from the northern end of MacNab's to the southern end of Lawlor's Island, and has an average width of about 2,000 feet, or ½ of a mile.

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The settlement of the same name embracing a population of about 800 people, extends scatteringly along the mainland for the whole length of the passage, its centre and most important point, where there is a post office and a general store, being at the turn of the Cow Bay road, towards the southern end of the passage, and at a distance of 5 miles in a direct line south-east from the the city of Halifax. At this point is a small creek or cove formed by a bar of sand and shingle within which are the little fishing wharfs and fish houses, and where the inhabitants keep their boats.

For the purpose of deepening and improving this cove, which had been gradually filling up with sand and mud, the departmental dredge "George McKenzie" in November and December, 1894, worked eight days, dredging a channel 240 feet long, 50 feet wide, and 8 feet deep at L.W.O.S.T. The maximum depth of mud excavated is 8 feet, and the total quantity removed 2,070 cubic yards, scow measurement.

DREDGING AT HERRING COVE.

Herring Cove, Halifax County, is an important fishing village and harbour on the west side of the mouth of Halifax Harbour, $5\frac{1}{2}$ miles south from the city. The population of the place is about 450 persons exclusively, dependent for a livelihood on fishing and the annual catch of various kinds of fish is from \$75,000 to \$100,000.

In 1874 the department expended the sum of \$2,400 in dredging a bar of sand and silt that had formed at the entrance to the cove, a little over 12,000 cubic yards

of material being removed.

This bar having again accumulated during the past twenty years, the departmental dredge "George McKenzie" removed it and deepened the cove for the greater part of its length to enable a larger class of vessel to approach the numerous fishing wharts and stages surrounding it.

The area excavated is approximately 1,100 feet long and 150 feet wide, the depth of water provided by the dredging is 12 feet at L.W.O.S.T., and the total quantity of material removed is 12,915 cubic yards (scow measurement), besides

numerous large boulders.

DREDGING AT MABOU.

The Mabou River, Cape Breton Island, runs into the Gulf of St. Lawrence about 6 miles north-east from Port Hood.

From its outlet to the bridge, a distance of $3\frac{1}{4}$ miles, the river resembles a mountain lake, being in one part three-quarters of a mile wide with 8 fathoms of water. Two small streams enter from the eastward. The harbour is sometimes dangerous to enter, owing to the tides frequently flowing at a rate of four miles an hour.

Springs rise 4 feet, neaps 2 feet.

The entrance was formerly over a sand bar through a long and crooked channel which was closed and a shorter straight one opened and piers were built. The channel thus made requires frequent dredging to keep it clear. The locality is a well settled agricultural district, and coal and plaster are exported to a considerable extent. There is also a prosperous fishery and export trade, saw and grist-mills, hotels, stores, etc. Adjacent settlements on the river make the population about 2,000.

During the fiscal year 1894-95 the dredge "Canada" operated at this place from 17th July to 22nd September, 1894, and from 22nd to 27th May, 1895, deepening the channel between the breakwater and McFadden's wharf to 11 feet, removing 11,730 cubic yards of sand and gravel, old logs and part of the old breakwater which had

been deposited on the channel.

DREDGING AT POULAMOND.

Poulamond, a settlement adjacent to D'Escousse, is in Richmond County, on the end of Isle Madame, in Lennox Passage, the population being about 200.

Poulamond Bay is a secure and capacious harbour. It is divided by islands into two parts, of which the eastern division leading into Poulamond Creek contains most

of the houses and affording the most roomy anchorage in 4 to 5 fathoms of water, with a mud bottom and is the most frequented. Springs tides rise 6 feet, neaps 4 feet.

At Poulamond the government lately built a wharf to facilitate the shipment of produce, fish, etc., and landing of supplies, coal, etc., and during the fiscal year 1894-95 the dredge "Canada" was employed in deepening the approach to the wharf and

making a turning basin and berths for small vessels to be at the wharf.

She worked here and at D'Escousse alternately as conditions of tides and weather best suited, between 23rd September and 10th November, removing at Poulamond 10,080 cubic yards of clay and gravel and leaving a depth of 10 feet over an area of 125 feet wide in front of the wharf, widening out to 240 feet at a distance of 500 feet, and an area of 60 by 40 feet on each side of the wharf.

DREDGING AT SALMON RIVER.

Salmon River, Halifax County, is a thrifty village of some three or four hundred people engaged in fishing, lobster-canning, and gold mining, situated at the mouth of the river of the same name that empties into Beaver Harbour at its north-east end. It is 65 miles in a direct line from Halifax Harbour, about 85 by high-road, and about half way between Halifax Hurbour and Canso.

and about half way between Halifax Harbour and Canso.

Up to 20 or 25 years ago the harbour, which though small is well sheltered, had a depth of three to four fathoms up to its extreme head, but since the establishment, about 15 years ago, of the crushing mills of the Dufferin Gold Mining Co., on the stream three miles inland, this depth has been gradually reduced by the deposition of the refuse crushings in the form of fine sand, which were thrown into the stream until there is now only three or four feet of water at L. W. O. S. T.

The trade of the place has in consequence suffered to no inconsiderable degree and even small vessels have difficulty in approaching at low tide the lower of the two private wharfs in the upper part of the harbour. Sailing packets engaged in the coasting trade make fortnightly calls and a steamer running between Halifax and Charlottetown, P.E.I., via intermediate coast ports, calls at the port once and

sometimes twice each week.

To restore this harbour to its former usefulness, the departmental dredge "George McKenzie" removed during the months of June and July, 1894, 11,250 cubic yards (scow measurement) of sand and mud, giving a channel 50 feet wide approaching Whitman's wharf and turning berth 160 feet square abreast of it, with a depth o water of 13 feet at L. W. O. S. T.

DREDGING AT SAMBRO.

Sambro, a post settlement in Halifax County, N.S., on the Atlantic coast, 20 miles west from Halifax, has a population of about 250, principally fishermen. It contains two stores, express office, etc., and is situated on Sambro harbour which lies at the head of the bay formed between Pennant Point, west, and Cape Sambro east. Heavy seas during south-westerly winds are broken by the ledges outside, but the shelter is imperfect and dangers are numerous off and in the harbour.

During the fiscal year the dredge "George McKenzie" first made a channel from deep water up to Hart's wharf, 300 feet long, 60 feet wide, to 80 feet at wharf, then along in front of the fish stages 400 feet by 40 feet wide. The work was over a mud covered ledge rock, the depths dredged varying from 7 to 12 feet. It then removed shoals off factory wharf and Gray's wharf, one 100 feet by 40 feet another 160 feet by 40 feet down to rock ledge giving a depth from 9 to 11 feet low water. Some boulders were removed also. The materials removed amount to 4,815 cubic yards, principally mud, between the 1st and 22nd of June.

DREDGING AT SPRY BAY.

Spry Bay, a seaport town in Halifax County, is on the Atlantic coast, 66 miles N.E. of Halifax, and on Spry Harbour, which is sufficiently commodious to accommodate a large number of vessels in 7 or 8 fathoms, with a mud bottom and secure from all winds.

Spring tides rise $6\frac{1}{2}$ feet, neaps $4\frac{1}{2}$.

The town has four stores, an hotel, carding mill, telegraph and express offices,

and a population of about 375.

The dredging done at this place was by the dredge "George McKenzie," to enable the steamer calling here and the larger class of schooners to make the wharf at all stages of tide, and consisted in making a channel 1,000 feet long by 75 feet wide to a minimum depth of 13 feet at low water spring tides. An average depth of two feet at low water was taken off, and a turning basin 150 feet square was dredged.

The quantity of material removed was 10,665 cubic yards of mud, etc.

DREDGING AT YARMOUTH.

The seaport town of Yarmouth is in a small bay, 205 miles S.W. of Halifax and at the western extremity of the province of Nova Scotia. It is of considerable extent, has a population of about 6,000, many fine buildings and a large trade in the fisheries.

There are various manufactures, a marine railway for hauling vessels of about 600 tons, fine stores, hotels, etc. The Dominion Atlantic Railway connects with

Halifax and a line of steamers runs from here to Boston, Mass.

The new channel leading to the anchorage off the town, is narrow and circuitous but well marked with buoys. It has had the attention of the government with regard to dredging since 1875, and surveys and plans have been carefully made and the directions of the department closely followed. The result has been a great improvement in straightening, widening and deepening to 16 feet the channel at low water spring tides, and a large amount of money has been expended.

At the close of the fiscal year 1893-94 the dredge "St. Lawrence" was operating here and continued from the 1st July to 12th October and 2nd to 17th November, 1894, when orders were given to place her in winter quarters at St. John.

During the year a further quantity of 24,843 cubic yards of clay, etc., was removed, further improving the channel. The channel dredged from south side of Killam's wharf was 66 feet wide, 16 feet deep at low water springs, and thence to the south side of Clement's wharf, 70 feet wide and from the last named point 100 feet, widening to the north side of steamboat wharf and thence widening from 200 feet to 294 feet past the south side of steamboat wharf and from there narrowing to 100 feet at the Lobster rocks and continuing outward at that width, to near the outer turn, where it widens to 270 feet. The whole length of the work dredged is 2,970 feet.

PROVINCE OF NEW BRUNSWICK

DREDGING AT FISHER'S AND CHESTNUT SHOALS NEAR FREDERICTON.

The St. John River is one of the most important and notable in America. It is a magnificent stream flowing through the province and into the Bay of Fundy. It has an immense commercial traffic, especially as a carrier of lumber and timber, and waters some of the most fertile and valuable districts. At its mouth is the city of St. John, the commercial metropolis, and about 86 miles up the river is Fredericton, the capital of the province. All along its banks, settlements and villages of considerable importance as to points of shipment are found, adding also to the beauty of the river scenery. The department has had surveys and plans made of different parts of the river, with a view to the improvement of the depth, or the removal of obstructions where needed, and dredging at the most important of these localities has been done in the past.

During the fiscal year 1894-95 the dredge "New Dominion" was at work from the 1st to the 27th July at the Fisher and Chestnut shoals near Fredericton, York County, which were removed to a depth of 11 feet at low water (summer level) where formerly 9 feet were found, 8,200 cubic yards of sand and gravel being removed. The area of Fisher's shoal was 245 feet by 180 feet and Chestnut shoal

200 by 130 feet

DREDGING AT MOSS GLEN.

Moss Glen is a picturesque hamlet on the Kennebecasis River, King's County,

N.B., about 12 miles distant from St. John City.

There is a population of about 100, a general store and post office, and a factory, the principal industry of the place, which cuts up 12,000 to 15,000 superficial feet of lumber each day, into small wares, matches, barrel staves, laths, shingles, crates, boards, clap boards, etc., employing fifty to sixty hands. Berry and small fruit culture is largely carried on, and the steamers running between St. John and Hampton call here.

The dredging done by the "New Dominion" was from the channel to and along the east side of the wharf, on a length of 403 feet by 60 feet wide and at the south front of wharf, 264 feet long, 45 feet wide to a depth ranging from 6 to 10 feet, making berths for vessels and lumber and passage out to the channel. The material removed was 10,200 cubic yards of sand, gravel and mud, which engaged

the dredge from 21st May to 18th June, 1895.

DREDGING AT THE OROMOCTO SHOALS.

The Oromocto River empties into the River St. John, 11 miles below Fredericton at the village of Oromocto, in Sunbury County, a place of about 400 inhabitants. containing stores, hotels, telephone office, etc. It has a public pier, steamers running between St. John and Fredericton, and considerable agricultural produce is shipped

from this point.

The Oromocto shoals, in the immediate vicinity, lie between Thatch and Oromocto Islands, with at times but 8 feet of water on them, and are an obstruction to the navigation of the River St. John. They require dredging on an average every three years and in that way dredging has been done, making one narrow cut through the shoals, from below Belmont to the junction of the Oromocto, to a depth of about 15 feet.

During the fiscal year 1894-95 the dredge "New Dominion" operated from 28th July to 7th November, 1894, improving the shoals by one cut 45 feet wide to a depth of 11 feet and from 19th to 30th June, 1895, at the junction of the Rivers St. John and Oromocto, removing the tail of Thatch Island over an area of 325 feet long, 100 to 150 wide, to a depth of 9 feet low water summer level. This permits the river steamers leaving the Oromocto wharf to enter the main channel direct and proceed on their way to Fredericton without being required, as before, to go back and around the tail of this island.

The material removed was 30,725 cubic yards of sand.

DREDGING AT POINTE DU CHÊNE.

Pointe du Chêne is on the Northumberland Strait and is the north-east terminus of the Shediac branch of the Intercolonial Railway and two miles from Shediac. It has long piers with range lights for shipping, also range lights on Shediac Island. The fine steamers of the Prince Edward Island Steam Navigation Company make a round trip daily between this port and Summerside, P.E.I., while navigation is open, and connect with the trains of the Intercolonial Railway and Prince Edward Island Railway. There are several stores, two or three hotels, summer resorts, telegraph and express offices and a population of about 200.

The surrounding country is fertile and well settled.

The improvement of the channel from Chêne spit into and along the piers by

dredging has occupied the attention of the department for several years.

During the fiscal year 1894-95 the dredge "St. Lawrence" operated from 22nd May to 30th June, 1895, in improving the shoals at Chêne spit and the narrows, while the berths at the piers were improved, 10,590 cubic yards of clay, oyster shells, mud, old piles and boulders were removed, and a depth of 15 feet left at L. W. spring tides.

93

PROVINCE OF PRINCE EDWARD ISLAND.

DREDGING AT CARDIGAN BRIDGE.

Cardigan is a post village in King's County, on the Cardigan River, which is navigable to that place for large vessels. It is also a station of the Prince Edward Island Railway, 40 miles east from Charlottetown, and 6 miles west from Georgetown, and is a shipping place for the products of a large extent of the surrounding country. There are 6 stores, 2 hotels, saw and grist-mills, a ship yard, telegraph and express offices and a population of about 700, and there is at present a vessel of about 700 tons, under construction in the ship yard.

The dredging done at this point during the fiscal year consisted in deepening around the government wharf or pier to a depth of 12 to 13 feet at low water, and the channel from the pier to Cardigan Bridge to 12 feet, thus much improving the

shipping facilities of the place.

A total of 23,625 cubic yards, principally mud and sand, were removed by the dredge "Prince Edward" from the 20th October to 23rd November, 1894, and from 22nd May to 30th June, 1895, at which date the work was still in progress.

DREDGING AT GRAND RIVER.

The entrance of Grand or Boughton River, King's County, is 5 miles N.N.E. of Boughton Point and Cardigan Bay, on the south-easterly coast of Prince Edward Island. There is a dangerous sand bar near, over which is a narrow channel with barely 6 feet at low water to the entrance, where it passes around a long sand bar, which stretches from the south shore to within 13 cables of Bank's Point at which there is a wharf and ferry to Annandale, almost directly opposite. The country surrounding is fertile and well cultivated, and large quantities of produce are shipped. The principal shipping points on this river are Annandale, at the entrance about 10 miles from Georgetown, Chapel Point pier and the pier on the opposite side of the river and Dundas at the head of navigation.

Considerable dredging has been done by the department here, and this year a further amount was done by the dredge "Prince Edward" from 1st July to 19th October, which removed part of the middle ground in front of the pier at Annandale to 12 feet at low water S.T., also in front the pier and wharfs at Dundas with a basin to swing vessels into the same depth, removing 24,435 cubic yards, princi-

pally sand, clay and mud.

CLASSIFICATION of Disbursements of the Dredge "St. Lawrence" during the Year ending 30th June, 1895.

Grand Total.	\$ cts. 5,835 56 1,181 07 2,009 04 108 03 361 11 59 35 471 00 47 40 13,456 09	9,420 09 1,020 35 3,015 65 13,456 09	
June.	\$ cts. 508 33 189 10 34 31 25 15 25 15 79 00 840 89	840 89 Nil. Nil. 840 89	
,ysM	\$ cts. 476 07 407 47 58 28 17 00 151 03 100 00 1,226 40	1,075 37 Nil. 151 03 1,226 40	
April.	\$ cts. 453 05 163 68 138 34 278 40 278 40	755 07 Nil. 278 40 1,033 47	
March.	\$ cts. 458 33 132 05 35 07 114 74 306 93	591 13 Nil. 456 74 1,047 87	
February.	\$ cts. 458 33 134 14 777 68 10 00 1,380 15	602 47 Nil. 777 68 1,380 15	
January.	\$ cts. 458 33 109 33 567 66	N:l. N:l. 567 66 567 66	
December.	\$ cts. 481 35 140 71 267 17	622 06 128 20 138 97 889 23	
Лочетрег.	\$ cts. 508 33 112 42 96 02 2 48 10 08 10 08 82 00 82 00 82 64	826 43 Nil. Nil. 826 43	
October.	\$ cts. 508 33 296 67 299 38 30 05 1,511 87 54 00	1,196 58 866 70 645 17 2,708 45	
September.	\$ cts. 507 98 162 36 176 33 41 81 148 71 24 12 50 00	1,111 31 Nil. Nil.	
Angust.	\$ cta. 508 33 118 95 162 78 33 45 39 38 54 00 5 00 5 00 921 89	921 89 Nil. Nil.	
July.	\$ cts. 508 80 137 91 178 18 25 45 52 00	876 89 25 45 Nil.	_
Items.	Wages Coal. Provisions Stores. Equipment Water Repairs Pilotage Towage Wharfage. Contingencies.	Working expenses Repairs, ordinary Dredge V. repairs Totals	

CLASSIFICATION of Disbursements of the Dredge "Canada" during the Year ending 30th June, 1895.

Grand Total.	e cts.		767 24 35 35 35 35					66 69	8,881 37	6,250 28 73 09	2,558 00	8,881 37
упие.	es cts.	420,30			26 93	8			576 26	549 33 Nil.	26 93	576 26
May.	es cts.		388 888			25 90 90		£	782 29	736 35 4 00	41 94	782 29
. Grid A	& cts.	317 08	35 85		1,455 22			19 65	1,827 80	350 83 Nil.	1,476 97	1,827 80
March.	& cts.	205 33	43 75			:			339 08	339 08 Nil.	Nil.	:30 08
Гергиягу.	e cts.	295 33	40 83	46 90	429 43			:	812 49	336 16 Nil.	476 33	812 49
January.	ets.	205 33	38 42			:		:	333 75	ZZ	333 75	333 75
December.	cts.	295 33	61 42		36. 37	7 56		48	458 10	371 73 Nil.	86 37	458 10
November.	es cts.	420 33 14 38	18 22 23	85 40		31 85			621 69	536 29 Nil.	85 40	621 69
October.	s cts.	420 33			2 8 2 8 2 8			:	811 64	781 33 Nil.	30 31	811 64
September.	& cts.	420 33	92 03		60 69	20 00		 63 9	657 70	588 61 69 09	Nii.	657 70
Angust.	\$ cts.	420 33		255 70		57 50		18 46	984 73	984 73 Nil.	Nil.	984 73
Anly.	& cts.	25 25 25 25 25 25 25	: ::::::::::::::::::::::::::::::::::::	20 .00	96 c	57 50		:	675 84	675 84 Nil.	Nil.	675 84
Items.		Vages.	Provisions	Equipments	Water.	Pilotage	Wharfage	Contingencies	Totals	Working expenses	redge V. repairs and wintering.	Totals

cts. 86 29 2 82 17 50 612 46 2,440 50 50 00 9 76 32 6 88 2 8,546 94 Grand Total. 8,546 1,712 4,98 8,48 6,771 22 22 엃 æ :4 :8 :3 328 6 1,112 1,112 ·aun [· **88** 88 82 **%** % 88 :8 **8** 8 .9. 8 4 8 168 1,165 1,165**88** 483 May. :43 38 2 8 8 88 Z 83 132 724 556 724 .linqA cts. 8 8 8 8 8 8 155 182 13:E 182 March. K 22 cts. 8 3 6 8 6 8 8 Z 88 82 February. 171 5 3 cts. 2 8 32 5 33 435 53 January. 427 435 cts. 8 7 11 216 53 33 = 25. 25. 25. 155 2 ¥ 216December. cts. :8 8 2 क्ष ষ্ণ ষ্ট 692 E. 692 November, cts. 12 :8 8 엉 2 8 :\$ N. 198 Nil. 161 905 906 October. cts. 1,101 46 Nil. 28 :88 Nii. 375 1,101 \$2 1,101 September. cts. :83 906 57 Nil. 5 8 22 5 Ë August. 3 88 98 5 cte. 3 3 8 8 Ë **#** 877 877 .Ylut. Provisions. Repairs, ordinary... Contingencies Items. Equipment. Water. 97

CLASSIFICATION Of Disbursements of the Dredge "New Dominion" during the Year ending 30th June, 1895.

CLASSIFICATION of Disbursements of the Dredge "Prince Edward" during the Year ending 30th June, 1895.

Grand Total.	e cts.	4,612 26 368 86	56 18	27.1 25 617 25 617 63	3,579 74	11 26	9,617 10	8,419 48 17 60	1,180 02	9,617 10
.5ппС	ee cts.	508 35 97 48		45 00	400 00		1,050 83	1,050 83 Nil.	Nil.	1,050 83
May.	es cts.	469 26		158 42			89 689	396 40 Nil.	243 28	639 68
April.	cts.	493 87		82 89 82 89			626 06	204 30 Nil.	421 76	90 989
Матећ.	es cts.	155 00		10 00			165 00	165 00 Nil.	Nil.	165 00
February.	& cts.	150 00 18 13	27 01	12 25			207 39	207 39 Nil.	Nil.	207 39
Vrannaty.	e cts.	157 50				98 8	166 36	N. N.i.	166 36	166 36
. Песетрег.	ee cts.	205 71	4 20	108 98	30 72 475 00	2 40	827 01	718 03 Nil.	108 98	827 01
Иочешрег.	e cts.	491 32 100 63		39 00 176 74			807 69	640 45 Nil.	167 24	807 69
October.	ets.	497 75 34 08	17 48	44 50	1,420 00		2,013 81	2,013 81 Nil.	Nil.	2,013 81
Зерtетрет.	es cts.	491 25 113 85	7 49	37 50 17 60			667 69	650 09 17 60	Nil.	69 299
August.	es cts.	497 75		* 04 20 20 30	659 74		1,205 99	1,205 99 Nil.	Nil.	1,205 99
July	es cts.	494 50		43 00 72 40	625 00		1,239 59	1,167 19 Nil.	72 40	1,239 59
Items.		Wages. Coal	Stores	Equipment Water Repairs	Towage.	Contingencies	Totals	Working expenses	Vieting	Totals

:888 cts 96 18 :8888 26 88 37 88 11,379 56 Grand Total. 11,279 9,8321,431 11,279 E 838 84% 1024 1024 287 151 58 CLASSIFICATION of Disbursements of the Dredge "George McKenzie" during the Year ending 30th June, 1895. 33 :2823 88 cts 67 223 67 1,229 $\substack{1,213\\15}$ 124 28 1,229.aun L 161 Z છ 848 cts 8 :8 3: 5133 8 1,038 2388 May. 2 829 :2 359 Nil 1,038 254 14 cts :8 . 83 ᄗ 2 5 5 662 92 Z:19 April. 5 88 962 155 00. cts. 44 :4: # 173 ZE 2 March. 18 Z 173 cts. 8 .83 :33 13 62 93 32 February. 55 42 152 Nil 195 \$ 195 cts. :3 85 8 8 6 88 92346 January. 157 **75** 198 346 cts 22 34 2 :8 2 2 **December.** 88 738 Z 33 Ë 738 cts. 223 :8 28 8 :89 82 8 8 88 ₹8 8 2 10 985 85. 1386 November. 88 Z cts. ĸ B ಜ :23 1,411 94 2 9 3 .87 1,4 Sii. Z October. 1,411 cts. 84 :89 :88 : 83 53 598 20 23 . 83 1,582 September. 1,582 Ξ 28 N:57 3 :48 83 :₽ 8 : \$ \$ 8 쫎 515 1,504 raen 2n y : 83 :4 Ē 1,504 cts. 1,410 61 Nil. 32 路 :8 1,410 61 9 61 N. 1,410 .Ylu t. :83 # 22 24 25 24 8 Provisions Stores Equipment Water Working expenses... Repairs, ordinary.... Dredge V. repairs and and wintering..... Totals Contingencies ... Pilotage Towage. Repairs. Items. 99

* Chequed at Ottawa on account T. Robley.

CLASSIFICATION and Quantities of Material removed by the following Dredges during the Year ending 30th June, 1895.

Grand Totals.	c. yds. c. yds.	:	2,850 2,850 24,588	7,475 7,475	10,590 35,433
June.		:	.ณ์	.7.	10,
May.	c. yds.				
April.	c. yds.				
Магећ.	c. yds.				:
February.	c. yds.				
.Vannary.	c. yds.				
. Десепирет.	c. yds.				
November,	c. yds.	8	2,100		2,130
October.	c. yds.		2,100		2,110
September	c. yds.	9	6,475		6,515
August	c. yds.	130	7,788		7,918
July.	c. yds.	45	6,125		6,170
Description of Material Dredged.		Hard-pan Boulders & old timber	Clay. Clay and stone. Sand—ordinary.	nd—very fine	Totals

"CANADA."

							-						
Tool 900													
Gravel and rocks		1,880	-		:								800
:	206	1,000	1,410	270	:			:			•	240	<u> </u>
	:		6,200	1,800	:	:				:	-		:
-	_: _:		1,000			:	-		:			1,350	_
5,940	3,810	:			:		:	:		:			
Mud and stone		1,710	:		:	:	<u>:</u> :		: :			:	1,810
Totals. 6,840	5,250	4,590	9,810	2,070								1,890	7,380

Hard-pan	:	:	•	:		:	:				:		:
Boulders Gravel											4,125	1,500	5,625
Gravel and stone Sand—ordinary Sand and gravel Sand and sawdust	000'6	9,250	8,350	9,250	1,200							3,450 1,875 500 625	9,450 9,500 9,500 625
Totals	000'6	9,250	8,350	9,250	1,200	:					.4,125	7,950	49,125
					".PRI	"PRINCE EDWARD."	'ARD."				-		
Hard pan Boulders													
Gravel Clay		:	2,000		. 009	::	: :	: :					5,600
Sand-ordinary	7,850	1,155	330	1,700							1,555	5,210	17,890
Mud	1,600	3,000	2,800	4,285	3,765	::					2,000	7,210	24,660
Totals	9,450	7,155	5,130	5,985	4,365						3,555	12,420	48,060
					"GEOF	"(FORGE McKENZIE."	ENZIE."		-	•			
Hard pan Boulders Gravel and rocks		3,470	689	028									1,050
Clay and stone Sand—ordinary	5,070		4,500										12,070
Mud	5,235		2,385	7,605	4,185	916						4,815	25,570
Totals	10,305	6,570	7,615	8,455	4,185	945				:		4,815	42,790

"NEW DOMINION."

DETAILS of Dredging in the Maritime Provinces

				i	New Bru	nsw	ick.	
Dredge.	Locality.		County.	Quantity	Cost of each Work		Total C	ost.
				C. yds.	*	cts.	8	cts.
"New Dominion"	Fisher and Chestnut Shoal John River. Oromocto Moss Glen.	York Sunb	ury	8,20 30,72 10,20	5 5,796	99	9,268	
'Canada''	Cheticamp. Mabou D'Escousse. Poulamond	Inver	mess mond					
"Prince Edward"	Acadia Coal Co.'s wharf. Dwyer's wharf. Grand River	do	's					
"St. Lawrence"	Yarmouth Pointe du Chêne	Yarn	nouth moreland	10,59			4,361	
" George McKenzie"	Salmon River Herring Cove Spry Bay. Eastern Passage Sambro	do		59,71			13,630	
		New	Brunswick.		Nov	a So	eotia.	
	Oredge.	Quantity.	Cost	C	Quantity.		Cost.	
"New Dominion"		C. yds.	\$ 5 9,26	cts.	C. yds.		8	ets
"Canada" "Prince Edward" "St. Lawrence"			4 36	1 53	37,830 24,843 42,790	3	9,630 10,231 12,340	1 69
		59,71	13,63	0 11	105,46	3	32,202	2 70

for the Year ending 30th June, 1895.

	Nova Scot	ia.		Pr	ince Edw	ard I	sland.		Quantity	
Quantity.	Cost of each Work.	To	tal Cost.	Quantity	Cost each Work	1	Total Co	ost.	by each Dredge.	Total Expenditure
C. yds.		s.	\$ cts.	C. yds.	*	cts.	*	cts.	C. yds.	\$ C
				· · · · · ·						
· • • • • · · · · · · ·				1		 			49,125	9,268 5
10.440	0.025 50								·	
10,440 11,730	2,657 79 2,986 20			•••						
3,240	824 8	3								
10,080	2,566 14			· · · · · · · · · · · · · · · · · · ·				.		
810 1,530	206 20 389 50		9,630 65						37,830	9,630 6
	· · · · · · · · · · · · · · · · · · ·			24,435 23,625		2 34 6 56	10,428		48,060	10,428 9
24,843	10,231 69) 1	0,231 69						35,433	14,593 2
									30,403	14,555 2
11,250	3,244 4	3					·]
13,990 10,665	4,034 63 3,075 75		• • • • • • • • •	••••••		• • • • •	• • • • •			
2,070	596 9									
4,815	1,388 6	1	2,340 36						42,790	12,340 3
105,463	32,202 7) 3	2,202 70	48,060	10,42	8 90	10,428	90	213,238	56,261 7
-			; -	ï			*			
Prince I	Edward Isla	nd.	m . 10		Expendit	ure	Superint	end-	Total	Cost
Quantity	Cos	t.	Total Q	uantity.	Dredgir		ence		Expenditure	. per C. Yard
C. yds.	*	cts	. C.	yds.	*	cts.	*	cts.	\$ ct	s. \$ 0
			.;	49,125	8,546	6 94	79	21 64	9,268 58	0 19:80
			· ·	37,830	8,881	1 37	74	19 28	9,630 65	0 25 4
48,06		28 90		48,060	9,617			11 80	10,428 90	
• • • • • • • • •				35,433 42,790	13,456 11,379			37 13 30 80	14,593 22 12,340 36	
	_		<u> </u>						·	_
48,06	0 10,4	28 90	i	213,238	51,881	1 06	4.39	30 65	56,261 71	0 26 3

EXPENDITURE for Dredging in Nova Scotia for the Twenty-three Years ended 30th June, 1895.

i	;	Total for the ended	Total for the Twenty-two Years ended 30th June, 1894.	wo Years 1894.	For	For the Year 1894-5.	4-5.	Total	Total	Cost for
County.	Locality.	Quantity.	Cost.	Cost for County.	Quantity.	Cost.	Cost for County.	Quantity.		sachCounty
		c. yds.	& cts.	se cts.	c. yds.	se cts.	.≪ cts.	c. yds.	96 Ct.	se ets.
Antigonish	Antigonish. Harbour au Bouche Tracadie McNair's Cove. Bayfield Arisaig	22,025 10,568 12,245 11,265 12,871 3,540	3,649 15 2,498 48 5,530 29 10,035 68 9,505 79 3,853 30	35,072 69				22,025 10,568 12,245 11,265 11,265 3,871 3,540	3,649 15 2,498 48 5,530 29 10,035 68 9,505 79 3,853 30	35,072 (!)
Annapolis	Annapolis	2,825	1,635 68	1,635 68		:	:	2,825	1,635 68	1,635 68
Cape Breton	Lingan Sydney Little Glace Bay Port Caledonia Benacadie Pond Cow Bay Main A Dieu	22, 267 54, 600 74, 600 17, 413 27, 413 3, 255 4, 680	9,275 56 17,781 54 16,936 02 8,242 21 5,993 90 3,364 98 1,892 32 2,720 76	66,207				22,267 54,600 46,450 17,413 20,860 19,045 4,680	9,275 56 17,781 54 16,936 02 8,242 21 5,993 90 1,892 38 2,720 76	66,207 29
Colchester	Tatamagouche	65,480	20,373 07	20,373 07				65,480	20,373 07	29,373 07
Cumberland	Parrsboro' Wallace	42,595 60,835	12,804 68 14,573 49	27,378 17				42,595 60,835	12,804 68 14,573 49	27,378 17
DigbyGuysboro'	Digby Weymouth Guysboro' Larry's River Port Mulgrave Sherbrooke	12,585 5,460 5,460 3,530 1,260	5,056 29 28 62 1,413 53 6,546 70 1,749 78	5,084 91				12,585 88 5,400 26,230 3,532 1,260	5,056 29 28 62 1,413 53 6,546 70 1,749 78 496 49	5,084 91
Halifax	Chezzetoook. Halifax Ferry Herring Cove. Ketch Harbour. Richmond Wharf.	3,920 6,177 12,111 2,989 792	2,593 2,063 8,015 985 182 53		13,990	4,034 63		3,920 6,177 26,101 2,989 792	2,593 71 2,063 38 12,049 68 985 59 182 53	

	(Roche's Wherf	1 770			-			1,750		
	Halifax Ry terminus	19,290						19,290	-	
	Jeddore	21 515						21.515	_	
-	North-west Arn	350	2.970 39					7,350		
	Cunend' Whenf	1,40					_	1,400	_	
	Aslmon River	3,038		31.825 41	11.250			14,288		
	Snrw Raw	,			10,665	_		10,665	-	
	Eastern Passage				2,070	596 97		2,070	296 97	
	Sambro				4,815	_	12,340 36	4,815	_	44,165 77
Internote	Whycomark	19 760						19 760		
	Compbell's Pond	7,040						4,940		
	Post Heating	02.6			:			02%		
	C OF OTTORNINGS	007			10 440		:	187 800		
	Chedicanip	147,100			10,44	20,00	2 649 00	190 947		
	Macou	110,011		00 000 100	11,130		0,040	120,021		100 010 07
	Fort Hood.	5,303		27,000 35		:		4,300		100,010 of
Lunenburg	Lunent urg.	70,510		:	:	:	:	010,01		
	Mahone Bay	15,8 4		:		:		21,844		
	Vogler's Cove.	11,610		33,238 73	:			11,610		33,228 75
Picton	Acadia Coal Co.'s Wharf	11,500			810	98 983 983	:	12,310		
	Albion Mines	9,475						9,475		
	Rast River	149,877						142,877		
	Holifey Cool Co 's Whenf	0.29						1,650		
_	Dieter Dublic Whenf	3,5		:	:	:	:	2,00		
	A Manuel VIII	0.000			:			020.01		
1.0	D. HERIKEL WILL	20,00					:	90,166		
.=		107,104				:	:	101,101		
	CO Tranging	30,		:				500		
	vale Comery	1,590						1,030		
	Kiver John	80,173					:	5,173		
	Granton	22,110						25,110		
	New Glasgow.	35,445					:	35,445		
	Middle River	15,060			:	:		15,060		
	Dwyer's Wharf	720	283 22	140,460 38	1,530	389 50	595 70	2.250		141,056 08
Queen's	Liverpool	12,940						12,940		
Richmond	D'Esconsse.	20,410			3,240	824 82		039,83		
	St. Peter's Canal	90,830				:		90,830		
	St. Peter's	7,150						7,150		
	Grand Goulet	23,584						23,884		
	River Bourgeois.	18,920			:		:	18,920		
-	Marine Slin	320		49.167 19			-	320		
	Poulamond				10.080	2.566 14	3.390 96	10.080		52,558 15
Shelburne	Lockenort	34 048						34,048		
	Raminorton	94 580	_	676			· · · · · · · · · · · · · · · · · · ·	91,580		
Varmonth	Vermourth	136,100		24.6	94 843	10 931 69	10 931 69	160 959		
Honte	Windoor	2,7	_	6		20 1011	20 10160	5,450		
Victoria		3,820	569	569				3,830	1,569 95	1.569 95
Dredge "C B "					:	•				
Товиев.			762 98	762 98		:		:	762 98	762 98
		1 1 1 1					13	1 3 3 3	1	
		1,790,655	594,262 63	594,262 63	105,463	32.202 70	32,202,70	1,896,118	626,465 33	626,465 33

EXPENDITURE for Dredging in New Brunswick for the Twenty-three Years ended 30th June, 1895.

		Total for ende	Total for the Twenty-two years ended 30th June, 1894.	two years 1894.	For	For the Year 1894–95.	4-95.	Total	Total	Cost for
County.	Locality.	Quantity.	Cost.	Cost for County.	Quantity.	Cost.	Cost for County.	Chamtity.	1	amoo nasa
The state of the s		c. vds.	.≯e ctr.	cts.	c. yds.	* cts.	.se cts.	c. yds.	ets.	æ €
(Honcester : Bathurst	Bathurst		29,095 79	29,095 79	:	:	:	98,637	29,095 79	29,095 79
Kent	Richibucto. Cocagne Buccouche Qu Prier's Point. do Chapel Point. do Robertson's Wharf	101,048 27,180 13,005 3,510 4,140 45	34,940 07 9,601 45 4,934 24 1,110 70 1,310 07	51,910 76				101,048 27,180 13,005 3,510 4,140	34,940 07 9,601 45 4,934 24 1,110 70 1,310 07 14 23	51,910 76
Northumberland	P S P P	197,692 27,125 37,975 22,425	53,185 83 7,495 51 10,121 67 4,403 95	75,206 96				197,692 27,125 37,975 22,425	F3,185 83 7,495 51 10,121 67 4,403 95	75,206 96
Queen's	: 2 : ¥ 2 8	93,555 20,440 61,305 48,975 12,040 6.965	16,372 96 4,522 82 12,117 74 6,340 83 3,274 99 1,894 52	44,523 %				93,555 20,440 61,305 48,975 12,040 6,965	16,372 96 4,522 82 12,117 74 6.340 83 3,274 99 1,894 52	44,523 86
Restigouche	Dulhousie.	22,301 29,400	6,543 08 9,008 64					22,301 29,400	6,543 08 9,008 64	15,551 72
St. John.	I. C. R. Terminus Mavy Is and Marble Cove. Murray's Mills. Indiantown Wharf. Adam's Wharf. Miller & Woodman's Hayford, Stetson & Co- International Wharf.	139,281 23,284 23,284 23,886 1,615 7,7137 7,1137 4,015 4,015	37, 130 9,296 79 1,296 79 1,094 165 1,094 29 1,094 29 1,094 29 1,094 29 1,094 29 1,094 29 1,094 29	5				139, 810 25, 294 25, 294 23, 880 1, 1615 7, 137 7, 513 8, 015 4, 665	37,130 01 4,236 79 3,441 65 1,922 83 2,680 24 1,090 42 942 29 52 99 53 90 1,68 81	63,445 f3

Sunbury	Sunbury/Oromocto	253,848	49,025 53	49,025 53	30,725	5,796 99	5,796 99	284,573	54,822 52	54,822 52
Westmoreland	Westmoreland. Poin'e du Chêne	69,700	21,125 92	21,125 92	10,590	4,361 53	4,361 53	80,290	25,487 45	25,487 45
York	Fredericton St. Ma y's Ferry Gibson	39,395 15,570 30,395	7,699 15 6,827 36 4,379 52					39,395 15,570 30,395	7,699 15 6,827 26 4,379 52	
	Nashwaak Fisher's and Chestnut Shoals	1,600	435 22	435 22 19,341 25	8,200	1,547 12	1,547 12	8,200 8,200	1,547 12	20,888 37
King's	Belleisle Point	60,170	8,156 76	:	:	•		60,170	8,156 76	
	Kennebecasis River. Moss Glen	116,270	20,081 %	Sc. 28, 28	10,200	1,924 47	1,924 47	10,200	1,924 47	30,163 06
		1,672,320	397,466 01	397,466 01	59,715	13,630 11	13,630 11	1,732,035	411,996 12	411,096 12

		Total for the Twenty-two Years ended 30th June, 1894.	Fwenty-two th June, 189	Years ended	For t	For the Year 1894-95.	4-95.	Total	Total	Cost for each
County.	Locality.	Quantity.	Cost.	Cost for County.	Quantity.	Cost.	Cost for County.	Quantity.	Cost.	County.
King's	Grand River	c. yds.	\$ cts.	₩ Cdw.	c. yds. 24,435	\$ cts.	s cts	c. yds. 76,170		æ etz
	Montague River Murray Harbour South Stungeon St Mary's Wherf	132,480 16,453 16,026	22,819 11 17,638 73 6,066 27 4,752 55					16,453 16,026 21,963	6,066 27 4,752 55	
	Georgetown Railway Wharf. Cardigan	1,002	408 32	61,686 68	23,625	5,126 56	10,428 90	1,002 23,625		72,115 58
Queen's	Charlottetown Ry. Wharf	54,618	15,003 50 9 963 50					54,618 14,193		
		4,045	670 670 15 15 15 15					+,045 7,668		
108	do Connolly's Wh'r	25.95 35.55 35.55	3,424 85					10, 13, 13, 13, 13, 13, 13, 13, 13, 13, 13	3,417 17 3,424 85	
à	Bay	89,782 23,610	27,493 03 6,536 20					28,782 28,610	6,536 20	
	Rocky Point Vernon River	82,920 17,860	13,426 13 6,326 72					82,920 17,860		
	Wood Islands.	31,780	548 00 6.286 46					31,650		
	Hickey's Wharf	750	150 51					750 00		
	Pinette.		756 24					3,825		
	South Port Ferry.	33,015 7,151	5,528 75					33,015	5,528 75 3,879 60	,
	Ked Font. North Rustico.	13,536	4,77, 38					13,536		
	South Kustico	17,847	4,103 8,305 50	121,578 93				17,847		121,578 93
Prince	Summerside	29,396	8,013 37					29,396	8,013 37 7,289 95	
	Tignish	11,387	13,005 45		:			11,387		
	Cape Traverse	16,740	5,105 89	33,953 08		:		16,740		33,953 08
		865,376	217.218 69	217,218 69	48,060	10,428 90	10,428 90	261,298	227,647 59	227,647 59

Expenditure for Dredging		s for the Tv	wenty-thre	in Quebec for the Twenty-three Years ended 30th June, 1895, from Appropriations Maritime Provinces.	led 30th Ju	ıne, 1895,	from Appr	opriations	Maritime	Provinces.
C	:	Total for the	Twenty-two)th June, 189	Total for the Twenty-two Years ended 30th June, 1894.	For ti	For the Year 1894.95.	- 95.	Total	Total	Cost
county.	Locality.	Quantity.	Cost.	Cost Quantity.	Quantity.	Cost.	C. st for County.	Quantity.	Cost.	for each County.
W. L. L. L. L. A.		c. yds.	\$ cts.		\$ cts. c. yds.	◆ cts.	\$ cts.	c. yds.	* cts.	e cts.
Temiscousta Temouski	Gaspé House Harbour. Gaspé Amherst Harbour Temiscouata River du Loup. Rimouski Rimouski							6,800 495 2,587 8,123	2,392 92 242 05 825 47 3,997 59	2,634 97 825 47 3,997 59
								18,005	7,468 03	7,458 03

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		BRUNSWICK.	Nova	Scoria.	€a1	фивис.	PRINCE ISL	Prince Edward Island.	Total	Total	Cost
	Quantity.	Cost.	Quantity.	Cost.	Quantity.	Cost.	Quantity.	Cost.	Quantity.	ture.	Yard.
	c. yds.	& cts.	c. yds.	s cts.	c. yds.	s cts.	c. yds.	.se cts.	c. yds.	& cts.	95.
872-73.	38.060		23.260	-						-	0.35.32
1873-74.	57,725		18,600	_	0.80	2,392 92					
1874-75.	78,223		24,416				18,655			-	•
1875-76	79,935		91,974	•-			58,283				
1876-77.	97,690		127,785				74,460				
878.79	139 555	23, 523 92	116,897	23,007,94	:		82,860	0.164.07	270,787	64,943 04	96.6
879-80	63,540		197,684		7.65		36,390	-		-	
80-81.	44,315		87,118	_	2.317	693 44	46.335				
01.381-82.	79,640		89,566	•			47,325				0 28 331
1882-83.	48,565		143,616	•-			68,535			_	•
83-84.	47,058		157,560				79,750	-		_	
84-85.	128,997		76,164	•	8,123	3,997 59	55,075	_		_	
82-86.	68,505		56,790	_	:		17,137	_			
	69,440		53,400				6,137	•		-	
.887-88.	50,152		84,175	_	:		3,775			_	•
	63,633		56,910	_		• • • • • • • • • • • • • • • • • • • •	24,240			_	•
	890'98		59,783				31,422	•••			•
890-91	96,588		61,698				19,004				
891-92.	75,023		81,993	_			31,382			-	
1892-93.	108,035		40.834				66,585			_	
893-94	22,22		59,581	••			61,536	•			
894-95.	59,715		105,463	• -	:		48,060	••			
	1.732.037	411.097.20	1.851.534	614 530 05	18 005	7 458 03	093 436	997 648 09	4 597 019	1 960 731 89	0 97 - 084

STATEMENT of Dredging, showing Quantities removed by hand in each Province, and cost of each Dredging for the Twenty-three Years ended 30th June, 1895.

A	NEW B	NEW BRUNSWICK.	Nova	Nova Scotia.	О ОЕВЕС.	BEC.	Prince Isl	PRINCE EDWARD ISLAND.	Total	Total	Cost
riscal rear.	Quantity.	Cost.	Quantity.	Cost.	Quantity.	Cost.	Quantity.	Cost.	Quantity.	ture.	Yard.
	c. yds.	& cts.	c. yds.	÷ cts.	c. yds.	.≉ cts,	c. yds.	ee cts.	c. yds.	s cts.	s cts.
78-79.			245	555 13					245	555 13	2 26.5
79-80			12.370	3.666 90					12.370	3.666 90	
30-81.			11,140	2,560 25					11,140	2,560 25	
1881-82.			10,640	2,650 50				:	10,640	2,650 00	0 24.90
32-83			8,190	2,500 00				:	8,190	2,500 00	
83.84	_		5,460	2,500 00					5.460	2,500 00	0 45
884-95.	IZ.		Nil		Nil		Ξ		Nii		
			48,045	14,432 28			-		48,045	14,432 28	0 30 03

STATEMENT of Dredging in the Maritime Provinces, showing quantities removed by and expenditure of each Dredge during the Twenty-three Years ended 30th June, 1895.

Dredge	Total Quantit two Years e	Total Quantities and Cost for Twenty- two Years ending 30th June, 1894.	. Twenty- e, 1894.	,,	1894–95.		Total for Twenty-three Years ended 30th June, 1895.	venty-thre th June, 1	e Years e	nded
500	Total Quantity.	Cost.	Per Cubic Yard.	Quantity.	Cost.	Per Cubic Yard.	Total Quantity.	Total Cost.		Cost per Cubic yd.
,	Yds.	s cts.	Cts.	Yds.	es cts.	Cts.	Yds.	96-	cts.	Cts.
"New Dominion". "Canada". "Cara Baston".	933,803	177,930 65 214,769 51	0 19.05	49,125	9,268 58 9,630 65	0 18 867 0 25 458	982,928 663,199	187,19	 12 12 13	19.58 29.88
"Prince Edward" "St. Lawrence" "George McKenzie"	880,466 880,286 456,347	213,863 73 269,363 98 182,970 34	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	48,060 35,433 42,790	10,428 90 14,593 22 12,340 36	0 21 699 0 41 185 0 28 839	534,938 917,526 915,719 499,137	139,074 224,292 283,967 195,310	8888	0 25:99 0 24:44 0 31:00 0 39:12
1	4,300,209	1,197,972 54	0 27 85	213,238	56,261 71	0 26 384	4,513,447	1,254,234 25	25 0	27.28
Statement of Dredging perf	performed by hand in the Maritime Provinces, showing quantities removed and Expenditure at each locality for Twenty-three Years ended 30th June, 1895.	nd in the Ma y for Twenty	ritime P. 7-three Y	rovinces, sho	wing quant Ith June, 18	ities remc 395.	ved and Ex	penditu	re at ea	ach
	Loca	Locality.				Total Quantity.		Total Cost.	Per Cubic Yard	Yard.
						Yds.		cts.	Cts.	
Parreboro', N.S. Windsor, N.S.						<u> </u>	42,595 12, 5,450 1,	12,804 68 1,627 60	ক ম	98.62 0 90.08 0
						84	48,045 14,	14,432 28	80	0 30.03
								-		

PROVINCE OF QUEBEC.

SHIP CHANNEL, RIVER ST. LAWRENCE, BETWEEN MONTBEAL AND QUEBEC.

The continuation of the dredging operations on the ship channel between Montreal and Quebec to the depth of $27\frac{1}{2}$ feet at lowest water, was carried on at the following places during the fiscal year 1894-95, viz., Lotbinière, Contrecœur and Varennes.

Lotbinière.

The further deepening of the south half of the ship channel, at Barre à Boulard, was commenced by the new elevator dredge "Laval" on the 26th September, 1894, and continued until the 27th June, 1895, when it completed this work, being afterwards removed to the north half, where it continued till the end of the fiscal year. Quantity removed, consisting of stones imbedded in hard panand large boulders, 31,675 cubic yards, at a cost of \$17,334.09, or $54\frac{72}{100}$ cents per cubic yard.

Contrecœur.

Dredge No. 12 was again placed on the Contrecœur channel where it worked the whole of the fiscal year, continuing the widening of the bend above the Bell Mouth, the straightening of the bank on the north side as well as the cleaning up of the channel. Total quantity dredged, consisting of soft clay 241,660 yards, costing \$25,041.33, or $10\frac{30}{100}$ cents per cubic yard.

On the 24th April, 1895, Dredge No. 8 commenced work at St. Ours, in the Contreceur Channel, the work in hand being the further deepening of this portion at Bell Mouth to 29 feet at low water, and continued dredging there till the end of the fiscal year. Quantity removed 75,220 cubic yards, consisting of clay, sand and stones at a cost of \$8,402.77, or $11\frac{100}{100}$ cents per cubic yard.

Appended are abstract tables of details connected with the work.

PUBLIC WORKS
STATEMENT showing Classification of Cost of Dredging on the Ship Channel.

Vessel.	Fuel.	Wages.	Board.	Stores and Materials.	Rebuild- ing and Repairs.	Cost of Building New Plant.	General Expenses.
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ ets.	\$ cts.	\$ cts.
Dredge "Laval"	638 70	2,423 72	656 2 9	1,881 59	1,230 89		1,168 78
do No. 12	2,373 80	3,011 95	1,020 13	569 57	4,132 18		1,872 73
do No. 11	36 4 0	121 08	30 33	60 43	114 43		89 71
do No. 8							• • • • • • • • • • • • • • • • • • • •
Louise Basin	966 88	2,030 70	641 49	514 13	1,013 28		883 94
Contrecœur	539 22	1,132 50	357 74	286 74	565 10		492 96
Stone Lifter No. 1	12 60	274 82	69 47	1 28	36 98		67 59
do No. 2	42 00	279 26	30 67	9 05	5,051 25		926 06
Tug "John Pratt"	1,115 40	2,083 65	720 87	540 95	1,419 54		1,143 04
do "Cartier"	516 05	1,415 71	445 13	311 75	84 72		474 46
do "St. Francis"	901 25	1,633 74	515 91	223 48	596 01		593 88
do "C. J. Brydges"	1,076 25	1,392 95	508 49	99 44	430 91		583 15
do "M. F. Parsons"	31 90	104 82	14 00		448 82		85 40
do "St. James"	699 30	1,214 51	437 03	116 36	200 00		422 13
New Dredge Plant.							
New Dredge		i 				38,193 38	6,535 12
Dredge " Laval "	 				 	6,606 42	1,130 41
Tug "Cartier"				ļ		284 61	48 64
	8,949 75	17,119 41	5,447 55	4,614 77	15,324 11	45,084 41	16,518 00

OF CANADA.

between Montreal and Quebec, for Fiscal Year ended 30th June, 1895.

Salaries and Official Expenses	Total Co	ost.	Stor Lift Servi	er	Tu Servi		Total Cost of Dredge and Plant.	Number of Working Days.	Cost per Day.	Number of Cubic Yards Dredged.	Cost per Cubic Yard.
\$ ct	s. 8	cts.	\$	cts.	*	cts.	\$ cts.		\$ ets.		cts.
876 20	8,876	17	1,956	49	6,501	43	17,334 09	97	178 70	31,675	54_{100}^{72}
1,404 0	14,384	41	2,464	94	8,191	98	25,041 33	166	150 85	241,660	10,32
67 15	519	50	114	45	380	22	1,014 17	4	253 54	3,080	32_{100}^{92}
••••			 			···					
662 67	6,713	09	1,932	37	6,421	60	15,067 06	104	144 87	71,740	21
369 56	3,743	82	1,077	67	3,581	28	8,402 77	58	144 87	75,220	11,170
50 6	513	41									
694 2	7,032	51									
856 8	7,880	32									
355 6	3,603	51									1
445 1	2 4,909	39									
437 1	3 4,528	35]				İ				
64 0	2 748	96									
316 6	3,405	98									
4,899 1	49,672	64	}								
847 4	1 8,584	24									
36 4	369	70									
12,383 0	0 125,441	00									

ABSTRACT of work done, in deepening the Ship Channel in the St. Lawrence River, between Montreal and Quebec, for Fiscal year ended 30th June, 1895.

	Quantity dredged, in cubic yards in each locality.	nise Baino I		:	:	71,740	:	71,740
	d, in cul locality.	Contrecœur.			241,660		75,220	316,880
	dredge in each	Varennes.		3,080				3,080
	Quantity	Lotbinière,	31,675	:	:	:		31,675
		Character of Soil.	31,675 Stones, hard-pan, clay and boulders	Clay and stones	241,660 Soft clay	Sand, gravel and stones.	Clay and sand	
	lged, ards, nent.	.lstoT	31,675	3,080	241,660		146,960	423,375
year cinged John Julie, 1039.	Quantity Dredged, in cubic yards, scow measurement.	Коск.	31,675	:	:	:		31,675
о поос	• "	Earth.	:	3,080	241,660	71,740	75,220	391,700
nanna	Dredging machinery in motion.	Total hours.	929	æ	166 1,660 1,660 1,404 1,404		$1,194\frac{1}{2}$	
year	Drec machii mot	Hours.	658		1,404	707	487	
	Nominal working time 10 hour per day.	Total hours.	026	40	1,660	:	1,620	
	Non workin 10 per	Hours.	026	40	1,660	1,040	280	
	Time of Service.	Total days.	97	4	166	<u>:</u>	162	
		Days.	97 	4	166	104	28	
	Locality	of Dredging.	Lotbinière	Varennes.	Contreceur	Louise Basin	Controceur	
		Vessels.	Dredge Laval Lotbinière	Dredge No. 11 Varennes.	Dredge No. 12 Contreceur	Olbredge No. 8 Louise Basin	Dredge No. 8 Contrecœur	

DREDGING AT BERTHIER (EN HAUT).

Berthier (en haut) is on the north shore of the River St. Lawrence, 45 miles

east of Montreal, and is opposite Sorel.

From the 9th until the 31st August, 1894, the dredge "St. Pierre" made a cutting at the head of Isle au Foin, from the north channel (so called) to the main channel of the River St. Lawrence, removing 10,209 cubic yards of soft clay and sand. The dredge also worked below the Raulston River (near Berthier) from the 3rd September until the 7th November, and removed 33,136 cubic yards of clay and sand. The depth of water made at both places was $8\frac{1}{2}$ feet.

DREDGING AT CHARLEMAGNE.

Charlemagne, in the County of L'Assomption, is a small village on the River L'Assomption, and opposite the lower or eastern end of the Island of Montreal, and

16 miles distant from the city of Montreal.

For several years the department has had dredging done at this place, and from the 6th October until the 7th November, 1894, the dredge "Nithsdale" worked in front of the wharf, dredging to 10 feet below zero, and excavated 12,741 cubic yards of clay.

DREDGING AT CHATEAUGUAY.

Chateauguay Basin is at the mouth of the Chateauguay River, 5 miles from

Caughnawaga, and 14 miles south-west of Montreal.

The dredge "St. Louis" worked in the steamboat channel on the eastern side of basin from the 7th of September until the 13th October, 1894, made two cuts of 200 feet long, 46 feet in width, and 6 feet in depth, taking out 1,259 cubic yards of hardpan, 159 of boulders and 930 of sand.

DREDGING AT CHICOUTIMI.

Chicoutimi, in the county of the same name, is at the head of navigation, on

the River Saguenay, 7½ miles above Tadousac.
From the 2nd July until the 9th November, 1894, the elevator dredge No. 11 was engaged in removing several shoals in the River Saguenay, near Chicoutimi, deepening the water to 12 feet below zero and removing 73,342 cubic yards of hardpan, boulders, gravel, clay and stone and sand.

DREDGING AT DORVAL.

Dorval, Jacques Cartier County, is on Lake St. Louis, on the south-west side of

the Island of Montreal.

Work was done here by the dredge "St. Louis" deepening the approach from navigable water to the boat landing, and was engaged in this work from the 13th October until the 19th November, 1894, and from the 7th May until the close of the fiscal year 1895, made three cuts of 960 feet, three of 700 feet, and two of 100 feet long, each cut 23 feet in width, and 6 feet in depth; 16,990 cubic yards of clay were removed.

DREDGING AT ISLE GROS BOIS.

Isle Gros Bois is one of the group of islands situated in the River St. Lawrence,

about 6 miles east of the city of Montreal.

The dredge "St. Louis" operated at this locality from the 14th August to the 5th September, 1894, deepening the approach to the wharf from navigable water, made a cut of 1,400 feet in length, 22 feet in width and 6 feet in depth, removing 3,030 cubic yards of clay and 360 of hardpan.

DREDGING IN THE LOUISE BASIN.

At the beginning of the fiscal year dredge No. 8 of the ship channel fleet, was working in the Louise Basin and continued doing so until the close of the season of 1894, cleaning up and widening the south-west side of the basin to a depth of 31 feet at low water. The quantity of material removed was 71,740 cubic yards of sand gravel and stones, at a cost of 21 cents per cubic yard.

DREDGING AT LOUISEVILLE.

Louiseville, County of Maskinongé, is situated on the River du Loup, which empties into Lake St. Peter, on its northern shore. The village lays about 3 miles inland from the lake, and is 74 miles east of Montreal.

Between the 10th May and 17th June, 1895, the dredge "Nithsdale" was engaged in dredging on a shoal which had formed at the mouth of the river, and through which a cut was made of 2,300 feet long, and 26 feet wide, extending from the mouth of the river outwards into Lake St. Peter, making a depth of 9 feet at low water, and removed 9,384 cubic yards of sand and 6,953 of clay.

DREDGING AT NICOLET.

The River Nicolet empties into the River St. Lawrence, on its southern shore at the foot of Lake St. Peter.

Dredging was done by the dredge "St. Pierre" from the 7th until the 29th June, deepening the water at the mouth of the river, removing 10,425 cubic yards of clay, and making a depth of $8\frac{1}{2}$ feet at low water.

DREDGING AT RIVER ST. PIERRE.

The River St. Pierre empties into the St. Lawrence on its north shore, near Point St. Charles, Montreal.

Between the 2nd July and 11th August, 1894, the dredge "St. Louis" deepened the channel 300 feet in length, 66 feet in width, to a depth of 5 feet at low water mark. The material taken out amounted to 2,888 cubic yards of hardpan, boulders clay and stone.

DREDGING AT ST. PLACIDE.

St. Placide, a village in the County of Two Mountains, is on the north bank of the River Ottawa, and 18 miles above its junction with the River St. Lawrence, and 9 miles from St. Andrews.

Between the 16th July and the 3rd October, 1894, and the 21st and 29th June, 1895, the dredge "Nithsdale" was engaged in deepening the water in the steamboat channel, as well as at the wharf. Dredging was done to a depth of 7 feet below zero or summer level, and 30,641 cubic yards of clay and 668 of boulders were removed.

PROVINCE OF ONTARIO.

DREDGING AT AMHERSTBURG.

Amherstburg is a port of entry, in the county of Essex, situated on the Detroit River, 5 miles above Lake Erie.

For several years past the department has had a dredge working at Amherstburg, deepening the river bed in front of the various wharfs, in order to accommodate the modern heavy draught vessels navigating the lakes, many of them calling at this port for coal, etc.

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The dredge "Ontario" worked at this locality from the 2nd July until the 15th November, 1894, made 7 cuts in line with the wharfs of 175, 210, 300, 750, 660, and two of 600 feet long, each cut 23 feet wide, and to a depth of 19 feet below zero. The dredge also worked on a shoal in the river channel, called the "New York" shoal, and, as far as practicable, removed all loose material from it, leaving only solid rock. The assistance of a diver had to be obtained to assist in the removal of a quantity of very large boulders, which were found while dredging, and which could not be handled by the dredge in the ordinary way.

The total quantity of material removed amounted to 11,802 cubic yards of

hard-pan, clay, boulders and stones.

DREDGING AT BELLEVILLE.

Belleville, the shire town of the County of Hastings, is situated on the Bay of

Quinté at the mouth of the River Moira, and is 43 miles west of Kingston.

For several years past the department has been improving the harbour and river by dredging, which being very much needed in consequence of shallow water existing, especially at the mouth of the river where ice jams would form in the spring of nearly every year, thereby causing floods, the dredging operations performed at this locality have been very beneficial.

The dredge "Queen" worked here from the 3rd of July, 1894, to the 25th September and from the 17th October until the 10th November, made one cut of 455 feet long between the lighthouse and Mill Island, and on the western side of this island 4 cuts were made of 35, 100, 260 and 495 feet long, each cut being 25 feet wide, and all to a depth of 9 feet. In the River Moira, 7 adjoining cuts were made of 100, 118, 123, 170, 215, 230 and 240 feet long, to a depth of from 5½ to 6 feet. The material removed from the river consisted principally of broken rock, produced by blasting. The amount of materials removed were 11,082 cubic yards of clay and stone, 6,100 of gravel, and 512 of boulders.

DREDGING AT COLLINGWOOD.

Collingwood, County of Simcoe, is on the Nottawasaga Bay, on the south shore

of Georgian Bay, 94 miles distant from Toronto.

The harbour is very large and commodious, being protected on the north and east sides by extensive breakwaters, and in order to assist navigation, the department has for several years had a dredge working here, deepening the water in the harbour generally, as well as at the many wharfs.

harbour generally, as well as at the many wharfs.

The dredge "Challenge" worked here from the 2nd of July until the 29th August, 1894. Made two cuts on the hard-pan outside the breakwater, at the harbour entrance of 500 and 350 feet long, each cut being 25 feet wide, and from the Grand Trunk Railway elevator wharf to the main channel three cuts were made of 910, 810 and 320 feet long, 24 feet wide each cut, and all dredged to 16 feet below zero.

1,560 cubic yards of hard-pan, and 1,980 of clay were removed.

DREDGING AT FRENCHMAN'S BAY.

Frenchman's Bay, or Pickering Harbour, is on Lake Ontario, 21 miles east of Toronto.

The dredge "Nipissing" worked at this locality from the 2nd until the 23rd of October, 1894. Two cuts were made between the piers of 708 feet long, 45 feet wide, to 11 feet deep, and removed 4,410 cubic yards of sand.

DREDGING AT GODERICH.

Goderich is situated on the southern side of the River Maitland, on the east side of Lake Huron, in the County of Huron, 68 miles to the northward of Sarnia. The harbour is an artificial one, having an entrance between piers from the lake.

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Dredge "No. 9" worked here from the 2nd until the 18th July, 1894, dredging through a sand shoal at the mouth of the piers, removing 10,800 cubic yards of fine sand.

DREDGING AT HAMILTON.

Hamilton Harbour is a part of Burlington Bay, which lies in front of and

adjacent to the city of Hamilton.

The dredge "Nipissing" was engaged at this locality from the 2nd July until the 11th of September, 1894, continuing the dredging on a shoal in front of the wharfs, upon which three cuts of 490 feet long and 66 feet wide were made, also made three cuts at the Electric Railway Company's wharf of 148 feet long and 57 feet wide. At James Street slip, two cuts of 210 feet long and 44 feet wide were made, and in the Burlington Channel or Canal, obstructions at both ends and in the channel generally were removed. The depth of water made in all the cuts was 14 feet, and the following quantities were taken out:—

	C	ubic yards.
Fine sand		13,440
Ordinary sand		1.000
Clay and stone	• • • • •	1.310
or a total of 15,750 cubic yards.		-,- '-

DREDGING AT THE KAMINISTIQUIA RIVER.

This river empties into Thunder Bay, Lake Superior, to the westward of Port Arthur, in the electoral district of Algoma. From this river large quantities of grain

are shipped to the east.

The elevator dredge "No. 9" worked from the 2nd August to the 10th November, 1894, and from the 6th May until the close of the fiscal year 1895, on a shoal extending from the mouth of the river far out into the bay, through which a cutting was made of 4,100 feet long, having a width of 200 feet, to 21 feet in depth. The material excavated amounted to 162,950 cubic yards of sand, clay and mud.

DREDGING AT KINCARDINE.

Kincardine is situated at the mouth of the Penetangore River which empties

into Lake Huron, 31 miles north of Goderich.

The harbour having become silted up a dredge was employed from the 6th to the 25th August, in removing the accumulation of sand, etc. The dredge worked 144 hours, and removed 6,000 cubic yards of material, sand and clay, at a total cost of \$1,195.83.

DREDGING AT KINGSVILLE.

Kingsville is in the electoral district of South Essex, on Lake Erie, and is distant about 25 miles from the mouth of the Detroit River. The harbour is formed by two

piers, built from the shore out into the lake.

The entrance to the harbour being obstructed by a sand-bar, the dredge "Ontario" was put to work, on the 6th May 1895, to remove it, and continued working until the 29th of the same month. Two cuts of 450 feet long, having a total width of 60 feet and 12 feet in depth were made, removing 6,060 cubic yards of fine sand.

DREDGING AT MIDLAND.

Midland, Simcoe county, is the Georgian Bay terminus of the Grand Trunk Railway.

The dredge "Challenge" was employed here from the 3rd September to the 24th October, 1894 (close of navigation), resuming operations again on the 15th May and 120

continued until the 14th June, 1895. Dredging was done on a shoal of hard-pan and boulders at the entrance to harbour, upon which seven adjoining cuts were made of 96, 175, 225 and four of 300 feet long, 24 feet wide each cut, and 17 feet in depth; the dredge also made four cuts in front of "Playfair's" mill of 200, 250, 325 and 400 feet long, 20 feet wide each cut, to a depth of 10 feet. Two old sunken cribs were also removed near the mill.

15,110 cubic yards of hard-pan, clay, boulders and sand were removed.

DREDGING AT OAKVILLE.

Oakville, County of Hamilton, is a port of entry on Lake Ontario, 22 miles

west of Toronto, and 18 miles east of Hamilton.

The dredge "Nipissing" worked here from the 27th May until the 21st June, 1895, deepening the water between the piers to 12 feet at low water, made three adjoining cuts of 780, 810 and 330 feet long, each cut being 25 feet wide, and removed 10,740 cubic yards of clay, stones and sand.

DREDGING AT PENETANGUISHENE.

Penetanguishene, County of Simcoe, is an inlet of Georgian Bay. It is a ter-

minus of one of the branches of the Grand Trunk Railway.

On the 19th June, 1895, the dredge "Challenge" began working and finished on the 29th of the same month, having made four cuts through a shoal in the bay of 200 feet long, 80 feet wide, and leaving a depth of 15 feet of water, removing 3,030 cubic yards of clay.

DREDGING AT PORT ELGIN.

Port Elgin is in the county of Bruce and is situated on the eastern shore of Lake Huron, four miles south of Southampton and 24 miles north from Kincardine.

The harbour having become silted up, a dredge was engaged to remove the accumulation of sand. Work was commenced on the 27th August and closed on the 17th September, the dredge having worked 120 hours and removed 4,990 cubic yards of material at a total cost, including inspection, of \$10,015.89.

DREDGING AT PORT HOPE.

Port Hope, in the County of Durham, is situated on Lake Ontario, 63 miles to the eastward of Toronto, and 102 miles above Kingston.

The harbour is an artificial one, formed by piers which have been built into the

lake.

The dredge "Nipissing" was engaged in removing a quantity of sand which had accumulated at the mouth of the piers, beginning work on the 24th June, and continuing up to the close of the fiscal year 1895. Five cuts were made of 87, 151, 273, 355 and 408 feet long, each cut 25 feet wide, to a depth of 12 feet below zero, removing 1,980 cubic yards of sand.

DREDGING AT PORT STANLEY.

The harbour of Port Stanley is at the mouth of Kettle Creek, in the County of Elgin, on the north shore of Lake Erie, 84 miles from Port Colborne, and 24 miles from London, and is formed by two piers extending into the lake, one on each side of the mouth of the creek.

A sand bar had formed at the entrance to harbour and between the piers. The dredge "Ontario" worked at this locality from the 6th until the 29th June, 1895;

made two cuts of 725 feet long, 60 feet wide, outside the piers; and two cuts of 400 feet long, 50 feet wide, between the piers, all to a depth of 12 feet at low water. 11,160 cubic yards of sand were removed.

DREDGING AT TRENTON.

Trenton is a port of entry on the Bay of Quinté at the mouth of the River Trent, and where is situated the eastern entrance to the Murray Canal. It is 101 miles east of Toronto.

The dredge "Queen" operated at this locality from the 25th September to the 16th of October, 1894, and from the 29th April until the close of the fiscal year 1895.

At Cooley's wharf the following nine cuts were made:—two of 175 feet, two of 150, two of 100, and one each of 250, 235 and 120 feet long, each cut being 25 feet wide, and to the depth of 10 feet.

At Hethbun's wharf, two cuts of 175, and one cut of 160 feet long, having a

total width of 75 feet, to a depth of 10 feet were made.

At Crowe's wharf two cuts were made of 50 and 230 feet long. At Squire's wharf one cut of 155 feet long was made. At Gilmour's wharf two 'cuts of 100 feet, and one of 150 feet long were finished, all cuts being 25 feet wide, and to a depth of 10 feet below zero.

In the north channel, between the town of Trenton and the Murray Canal entrance, two cuts of 800 feet, one of 300, and one of 250 feet long were made, to a depth of 10 feet at low water mark, and leaving the cuts 25 feet wide.

The following quantities were removed:-

3,194	cubic	yards	of	clay	and	stone.
1,868		do		bould	lers.	
4,996		do		hard	pan.	
1,768		do		mud.		
1,694		do		clay		

or a total of 13,520 cubic yards.

DREDGING AT WHITBY.

Whitby is situated on the north shore of Lake Ontario, 30 miles east of Toronto. A sand shoal having formed at the mouth of and between the piers, the dredge "Nipissing" was put to work on it on the 16th September, continuing until the 1st October, 1894; made two cuts of 578 feet long, 44 feet wide, on this shoal, and one cut in the harbour, alongside the eastern pier, of 116 feet long, and 22 feet wide, all to a depth of 12 feet, and removing 3,780 cubic yards of fine sand.

123

82 69 67

51 14

14 Grand Total. 6,990 6,990123 £8248888 cts. 88 $\frac{18}{66}$:8 .438 8 2 395 103 765 77225 oun o CLASSIFICATION of Disbursements of the Dredge "Challenge" during the Year ended 30th June, 1895. cte. 220 3222 : 8 3 45 22 :01 33,8 .8818 735 439 296 735 May. cts :8: 86 12 19 67 16 :88 86 53 % 382 176 1,158 1.334 1,716 1,716 283 .lirqA cts. 8 8 8 ટ 117 117 March. cts. 8 8 8 8 8 30 February. ಜ 8 cts. 8 8 8 8 30 8 January. 30 ಜ್ಞ cts. 8 8 8 8 8 8 8 8 December. cts. .20 \mathfrak{S} .8 :83 53 52 59140 35 7 194 28 194 November. cts. 8 :23 : 8 33 33 82 640 88 640 395 34 October, 55 cts. 22822 53 82 23 23 50520 520 520 520 50 50 1,106 43 September. cts. 222 65 ಜ :23 :68 53 23 :86 **6** 808 608 August. 8 . 88 88 cts. 38 59 :8 88 258 52395 378 12 964 888 77 964 103 .Ylu t Working expenses... Repairs, ordinary.... do extraordinary rowage Contingencies Pilotage.... Equipment..... Wood Provisions Stores Repairs..... Totals. Totals. Items.

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CLASSIFICATION of Disbursements of the Dredge "Ontario" during the Year ended 30th June, 1895.

Grand Totals.	es cts.	3,432 41 1,135 99	618 90 97 77 255 95 556 60	501 24	98 862'9	5,209 93 847 22 541 71	6,598 86
June.	ee cts.	395 00 314 77	103 00 15 25 44 74	1 10	873 86	829 12 44 74	873 86
May.	es cts.	424 00 120 00	103 00 30 13 37 07 41 89	13 80	769 89	596 58 173 31	68 692
JirqA	es cts.	425 91	201 57 115 80	84 15	827 43	285 72	827 43
March.	& cts.	305 00	65 31		370 31	30 00 340 31	370 31
February.	e cts.	30 00			30 00	30 00	30 00
January.	s cts.	30 00			30 00	30 00	30 00
December.	e cts.	30 00			30 00	30 00	30 00
Почетрег.	₩ cts.	212 50 49 13	9 45	378 19	737 52	649 27 88 25	737 52
Осторы.	e cts.	395 00 112 30	104 70 13 65 15 91 59 12		86 669	640 86 59 12	86 669
September.	e cts.	395 00 124 44	102 75 14 07 21 04		657 30	636 26 21 04	657 30
August.	e cts.	395 00 174 90	102 70 1 03 2 10 62 22	24 00	761 95	699 73	761 95
July.	e cts.	395 00 240 45	102 75 14 19 58 23		810 62	752 39 58 23	810 62
Items.		Wages Coal.	Provisions Stores Equipment Repairs Pilotare	Towage. Contingencies.	Totals	Working expenses Repairs, ordinary do extraordinary.	Totals

125

2222

. 33

22:84288

13,852 76 13,852 76 Grand Totals. 627 52 2,405 38 4,938 625 8,289 $\frac{8,980}{1,386}$.601 60 cts. 88 33483 왔 記記 32 1,089 1,089 ounf. 889 CLASSIFICATION of Disbursements of the Dredge "Nipissing" during the Year ended 30th June, 1895. cts. :324232 :8 352 28 셠 35 May. 2,434 66 . 88 2,986 388 2,200 ្ឋខ្លួននេះ 2,986 69 cts. 92 37 ೫ 92: 4 ೫ 1,433 319 618 2,083 2,083 .linqA 61 2,021 cts. 1 :25 8 સ 92 35 55 1,916.7 2,043 1,634 311 2,043 March. 126 66 cts. 92 52 2 8 :23 27 February. 635 . 8 684 ಜ 65 88 cts. 38 :83 33 69 :88 31 1,196 371 1,241 44 January. 1,241 99 cts. 95 36 :8 35 8 December. 329 329 ೫ :65 329cts. 83 .62 :8 28 28 2 282 . 22 :8 273 273 November. cts. :4 88 . 2 53 47 88 83 47 October. 395 89 834 39 39 334 cts. 88 :48 98 192 : 88 6 91 673 8 September. 395 681 681 40 .5 88 :8 :48 Ξ ಷ೫ H .8 August. **25** ೫ 888 819 cts. 88 :3 .46 :8 8 22 82 . 104 .Vint. 283 12 282 <u>\$</u> 385 Working expenses.... Repairs, ordinary.... Provisions.... Stores Contingencies.... extraordinary Equipment... Repairs..... Pilotage..... Items.

CLASSIFICATION of Disbursements of the Dredge "Queen" during the Year ended 30th June, 1895.

Grand Totals,	e cts.	3,424 83 1,101 13		236 74 638 75	33 84	6,190 99	5, 220 88 501 99 468 12 6,190 99
June.	& cts.	395 00	103 00	93 34 6 34		597 68	591 34 6 34
.veM	e cts.	395 00 227 00		13 69 91 01	4.73	862 56	771 55 91 0T
.lind.A	es cts.	636 53 76 36		128 46 255 32	7.37	1,104 04	517 36 118 56 468 12 1,104 04
March.	cts.	30 00				30 00	30 00
Гергиату.	es cts.	30 00 				30 00	30 00
January.	ee cts.	30 00				30 00	30 00
•зеешреь.	s cts.	30 00				30 00	30 00
Долешрег.	es cts.	235 80 149 50	59 11	57 02	8 59	510 02	453 00 57 02 510 02
October.	es cts.	395 00 281 50	103 23			798 02	793 37 4 65 798 02
September.	e cts.	412 50	107 86			605 71	531 88 73 83
AsuguA.	e cts.	420 00 217 27	112 50	1 85 111 69		863 31	751 62 111 69
July.	e cts.	415 00 149 50	113 11	38 89	13 15	729 65	690 76 38 89 729 65
Items.		Wages Coal	Provisions Stores	Equipment. Repairs	Towage Contingencies	Totals.	Working expenses Repairs, ordinary do extraordinary Totals.

	Grand Totals.	\$ cts.	4,749 30 680 44		20 83 20 83 20 00		6,871 24	3,577 35 1,074 81 2,219 08	6,871 24
	June.	& cts.	2,224 43	95 50	344 65	2 70	2,667 28	448 20 2,219 08	2,667 28
une, 1895	.VsM	e cts.	350 00 224 40	21 67	12 14	2 00	718 82	356 68	7183
ed 30th J	April.	e cts.	152 16	27 80			179 96	27 80 152 16	179 6
Year ende	March.	ets.	320 05		93 07		413 12	413 12	413 12
N of Disbursements of the Dredge "St. Louis," during the Year ended 30th June, 1895.	February.	ets.							
ouis," dur	January.	e cts.					•		
e "St. Lo	Бесетрет.	e cts.							
he Dredg	лэешэло Д	e cts.	302 66 178 08	69 8 8 25	98 38	9 53	671 50	572 52 98 98	671 50
ents of t	.rsdotoO	es cts.	350 00	93 22	18 09		474 31	456 22 18 09	474 31
isbursem	September.	es cts.	350 00 124 80	93 22		941 88	619 02	619 02	619 02
rion of L	. JanguA	s cts.	350 00 153 16	20 66 	12 88 12 88		637 44	636 18	637 44
CLASSIFICATIO	July.	s cts.	350 00	93 10	% 62 53 64 65 65 65 65 65 65 65 65 65 65 65 65 65	3 35	489 79	460 73 29 06	489 79
ට්	Items,		Wages Coal	Provisions Stores	Edupment. Repairs. Pilotage.	TowageContingencies	Totals	Working expenses Repairs, ordinary do extraordinary	Totals

CLASSIFICATION of Disbursements of the Dredge "No. 9" during the Year ended 30th June, 1895.

Grand Totals.	ee cts.	4,958 64 4,521 59	21 88 1,139 27 469 44	534 96 1,892 15	100 00 521 60	14,159 53	11,535 88 601 00 2,022 65	14,159 53
-Эппе.	ets.	649 40 2,834 44	165 00 351 43			4,521 87	4,067 25 103 53	4,170 78
May.	e cts.	654 56	136 70		2 15	991 54	731 09 257 45	991 54
.lingA	ee cts.	20 33		77 44	197 45	302 67	295 22 7 45	302 67
March.	♣ cts.	00 069		85 38		775 38	50 00 85 38 640 00	775 38
February.	es cts.	20 00			10 85	60 85	60 85	60 85
January.	e cts.	50 00				20 00	20 00	20 00
Песешрет,	e cts.	37 50				37 50	37 50	37 50
November.	ee cts.	453 44	122 40 3 10		146 25	725 19	725 19	725 19
Осторет.	ee cts.	610 24	193 36	43 23	00.9	82 806	865 55 43 23	82 806
September.	e cts.	565 83 1,652 40	190 20	43 58	139 00	2,635 26	2,591 68 43 58	2,635 26
.42u&uA	S cts.	567 90		3 00 1,382 65		2,122 29	739 64	2,122 29
July.	& cts.	609 34 75	21 88 162 87 6 48	8 8 8 8 8 8	100 00 19 90	1,028 20	967 82 60 38	1,028 20
Items.		Wages	Wood. Provisions.	Equipment Repairs	Towage. Contingencies.	Totals.	Working expenses Repairs, ordinary do extraordinary	Totals

Grand Totals.	e cts.	3,713 88 1,892 35	1,222 223 223 223 23 23 23 23 23 23 23 23	218 38 1,901 78 4 05	376 00 803 36	10,397 78	8,522 24 963 94 911 60	10,397 78
June.	s cts.							
May.	& cts.	: :						
.li1qA	e cts.							
March.	es cts.	: :						
February.	e cts.							
January.	e cts.							
December.	e cts.	367 00		375 50	175 59	918 09	542 59 375 50	918 09
Лочетрег.	s cts.	684 73 357 35		911 60	376 00 231 81	2,853 52	1,941 92	2,853 52
October.	• cts.	688 10 395 00	248 23 35 00	26 24 4 05	4 25	1,400 87	1,400 87	1,400 87
September.	ee cts.	666 05 380 00	250 30	8	36 71	1,367 04	1,367 04	1,367 04
August.	s cts.	856 00 390 00	261 20 40 75	222 94		1,570 89	1,347 95 222 94	1,570 89
July	e cts.	. 652 00 370 00	237 37	365 50	355 00	2,287 37	1,921 87 365 50	2,287 37
Items,		Wages Coal	Provisions.	Equipment Repairs. Pilotage	Towage. Contingencies	Totals	Working expenses Repairs, ordinary do extraordinary.	Totals

	Grand Totals.	e cts.	1,842 05 1,069 24	526 60	56 23		200 00 5,282 15	8,976 27	8,976 27	:	8,976 27
, 1895.	ушь.	e cts.	304 13 150 00	86 33			1,620 00	2,159 46	2,159 46		2,159 46
10th June	.VaM	ee cts.	226 50 00	66 46				342 78	342 78	:	342 78
r ended 3	.firqA	e cts.				: : : : : :					
the Yea	March.	es cts.	: :							:	
during (February.	es cts.	: :								:
Disbursements of the Dredge "Nithsdale" (Leased) during the Year ended 30th June, 1895.	.Vannaty.	e cts.						:			
thedale"	D есешрет.	e cts.	169 24					169 24	169 24		169 24
dge "Ni	November.	cts.	95 10 100 00	27 55			1,080 00	1,302 65	1,302 65		1,302 65
f the Dre	Осторет.	es cts.	317 00 150 00	00 06	28 60		88 88	3,215 60	3,215 60		3,215 60
ements o	September.	e cts.	337 50 150 00	95 00			2 15	584 65	584 65		584 65
,-, ,	August.	e cts.	371 70 150 00	97 74	27 63			647 07	647 07		647 07
CATION O	July.	S cts.	190 30 150 00	64 52			00 001	554 82	554 82		554 82
CLASSIFICATION OF	Items.		Wages. Coal Wood	Provisions.	Equipment Repairs	Pilotage	Lowage Contingencies	Totals	Working expenses Repairs, ordinary	do extraordinary	Totals

yds.

29,032 5,530 600 6,060 6,160 2,830 2,630 24,680 36,660 : Grand Totals. ಀ yds. 8,580 9,560 7,590 7,260 .oun c CLASSIFICATION and Quantities of Material removed by Dredges during the Year ended 30th June, 1895. yds. 4,230 90.9 6,060 ŏ,460 4,230 May. yds. .linqA ರ c. yds. March. c. yds. February. yds. January. "CHALLENGE." "NIPISSING" "ONTARIO yds. December. ರ : yds. 8 November. c. yds. 4,410 1,869 2,490 October. c. yds. 5,640 973 2,600 1,020 1,020 3,830 88 5,640 September. yds. 01,000 2, 96, 120, 130, 6,450 3,720 8 :020 986,1 August. ပ c. yda. 2,590 3,960 క్రొజ్జ 7,440 8 4,560 4,650 7,440 .Ylut. Clay.....Sand—ordinary..... Boulders... Clay and stone Hard-pan.... Hard-pan..... Gravel Clay and stone ... Sand—ordinary Material dredged Gravel Sand-very une. Sand—very fine. Description Soulders Totals. Total.

CLASSIFICATION and Quantities of Material removed by Dredges during the Year ended 30th June, 1895-Continued.

"QUEEN."

Grand Totals.		4.2,4 6.380 1.380 1.00 1.00		1,768	31,214
June.	c. yds.	1,546 1,014	1,472	1,520	5,552
.veM	c. yds.	2,900 574	1,150	248	5,094
.findA	c. yds.	: : : : : :			
March.	c. yds.				
February.	c. yds.				:
.vrsunst	c. yds.				
Бесетрет.	c. yds.				
November.	c. yds.	452	77 · · · · · · · · · · · · · · · · · ·		2,852
October.	c. yds.	212	2,812		6,086
September.	c. yds.	300	2,740		3,108
.tsırguA	c. yds.	: :	3,571		3,571
July.	c. yds.		4,003		4,951
Description of Material Dredged.		Hard-pan B. vulders	Clay and stone	Sand—ordinary Sand—very fine Mud.	Totals

	3,794	20,020 640 930		25,616
		4,230 5,730 20,020 640 930		5,730
		4,230		4,230
	630	4,230 5,730		:
		3,635		
		3,395 3,635		
, rć				
"ST. LOUIS."				:
3		3,635		3,635
	630	3,395 3,635		4,955
	989 159	<u> </u>		1,148
	525			3,805
	1,650	330		2,113
	Hard-panBoulders	Gravel Clay Clay and stone Sand—ordinary	Sand—very fine Mud	Totals

58,560 100,050 10,800 4,340	173,750	14,065 1,168 1,050 14,799 23,816 18,444	73,342	668 48,004 2,331 9,384 60,387
20,050	47,250			3,639 2,331 3,584 10,074
7,650	25,100			3,314 5,800 9,114
	2		(Leased).	
	".No. 11."		4,669	
4,950	10,350	2,000	4,669 " NITF	2,542
14,600	40,650	700 486 300 1,250 2,254 3,537	8,527	90 11,225 11,335
2,600	9,450	3,455 682 750 3,850 1,000	11,737	9,459
8,710 17,100 4,340	30,150	9,350 11,499 1,575 1,369	23,793	12,336
10,800	10,800	560 13,518 10,538	24,616	5,489
Hard-pan Boulders Gravel Clay and stone. Sand—ordinary. Mud	Totals	Hard-pan. Boulders Gravel. Clay and stone. Sand—ordinary. Mud	Totals	Hard-pan Boulders Gravel Clay and stone. Sand—ordinary. Mud Totals.

DREDGE STATEMENT showing Material removed at different localities, total annual Expenditure on each dredge, and average Cost per cubic yard.

DREDGE "CHALLENGE."

Location.	Hard- pan.	Boulders.	Gravel.	Clay.	Clay and Stone.	Sand, Ordinary.	Sand, fine.	Mud.	Totals.
ollingwood	1,560 4,600	400		4,980 1,320 3,030		8,790			6,540 15,110 3,030
	6,160	400		9,330		8,790			24,680
	To	otal amount	of exper	diture, \$	6,990.14.	Cost yer	cubic ya	rd, 28 1	cents.
		D	REDGE	"ONT	ARIO."				
mherstburg Lingsvilleort Stanley	4,640	1,042		5,530	600	11,160	6,060		11,812 6,060 11,160
	4,640	1,042		5,530	600	11,160	6,060		29,032
	i I		REDGE			Cost per	1	1	
Iamilton Vhitby 'renchman's Bay akville 'ort Hope					1,310 4,850	1,000 5,890 1,980	13,440 3,780 4,410		15,750 3,780 4,410 10,740 1,980
-					6,160	8,870	21,630		36,660
	To	otal amount	of exper	diture, \$	13,852.70	6. Cost per	r cubic ys	rd, 371	cents.
			DREDG	E "QUI	EEN."				
Selleville	4,996	512 1,868	6,100	1,694	11,082 3,194			1,768	17,694 13,520
	4,996	2,380	6,100	1,694	14,276			1,768	31,214
	To	otal amoun	t of exper	nditure, \$	36,19 0.99.	Cost per	cubic yaı	rd, 19§ d	ents.
		D	REDGE	"ST. I	.ouis."				
River St. Pierre sle Gros Bois hateauguay	2,175 360 1,259	73 159		3,030	640	930			2,888 3,396 2,34
Oorval				20,020					16,99

DREDGE STATEMENT showing Material removed at different localities, &c.—Concluded. DREDGE "No. 9."

Location.	Hard- pan.	Boulders.	Gravel.	Clay.	Clay and Stone.	Sand, Ordinary.	Sand, fine.	Mud.	Totals.
Goderich Kaministiquia River				58,560		100,050	10,800	4,340	10,800 162,950
		• • • • • • • • • •		58,560		100,050	10,800	4,340	173,750
	To	otal amount	of exper		·		cubic ys	rd, 81 c	ents.
St. Placide		668		28,310 12,741 6,953	2,331	9,384			31,309 12,741 16,337
		668		48,004	2,331	9,384			60,387
	To	otal amount				Cost per	cubic yar	d, 147 c	ents.
			DRED	3E "No	. 11."				
Chicoutimi	14,065	1,168	1,050	14,799	23,816	18,444			73,342
	To	otal amount	of exper	nditure, \$	10,397.78	3. Cost per	cubic ya	ırd, 14 8	cents.
		DI	REDGE	"ST. P	ERRE.	,			
			1		1	:	1	1	
Berthier (en haut)				30,110 10,425		13,235			43,345 10, 42 5

PROVINCE OF MANITOBA.

DREDGING IN THE RED RIVER AND IN LAKE WINNIPEG.

The Red River, known as the Red River of the north, is formed by the confluence of the Ottertail and Bois de Sioux Rivers at Breckenridge, in the state of Minnesota, Lat. 46° 15", Long. 96° 40", the Ottertail River rising in a region of lakes in the Ottertail Counties, east of Breckenridge, the Bois de Sioux rising in Traverse Lake, south of Breckenridge.

From Breckenridge the Red River runs in general almost due north and empties into Lake Winnipeg a distance of about five hundred and ninety miles, or about one hundred and eighty-eight miles from the boundary line. The distance from the boundary line to Lake Winnipeg in a straight line is ninety-four miles.

The mouth of the Red River is forty-five miles north-east of the city of

Winnipeg and twenty-one miles from the town of West Selkirk.

The town of West Selkirk is the head of navigation for lake boats, and is connected with the railway systems at Winnipeg by a branch line of the Canadian Pacific Railway, twenty-three miles in length.

Seventeen miles below the town of Selkirk the river is divided into three branches known as the east, centre and west channels, and it is at the mouth of the east branch where dredging is now in progress.

The east branch from the "Forks" (where the river divides into the three branches named) to the lake shore, is three miles in length, and from its mouth out to a depth of water giving 11 feet, the channel is two and a half miles in length.

Previous to 1893—that is, when dredging operations first began at the mouth of the river—the west branch was adopted as the best in the interests of navigation, as the distance across the bar at the mouth of this branch, through which it was necessary to dredge out to the required depth of water, was found to be much shorter than at the east channel.

During the freshet of 1893 the west branch and channel filled up in places to such an extent that navigation would have been seriously impeded, had it been obligatory to continue dredging in that branch and channel. A careful examination, however, showed that the east channel had been scoured out by the excessively heavy ice floe, and the exceptionally high water of that year, so that the difficulty of giving uninterrupted navigation was overcome by improving this channel, and work has continued there up to the present time.

During the working season from July to September (1894), the dredge "Winnipeg" did very good work, and excellent progress was made. The cut at the outer end of the channel begun in June, was put through to a depth giving 15 feet, of water and a width of 150 feet, and the channel throughout showed not less than eight feet for a width of 300 feet.

Dredging operations closed August 25th, and the plant was laid up for the

winter in the west slough near West Selkirk.

An examination of the channel was made May 10th, 1895, when it was buoyed. Not less than eight feet of water was found at that time, but a short while afterwards the water fell one foot and a half lower than ever known before, and in consequence, it was compulsory to work inside the bar and tow into the centre channel to dump, a round trip of eight miles and a half.

The channel was well staked throughout on May 23rd and dredging began on the 25th, but ceased on the 17th of June, owing to the dipper arms breaking. It

took the balance of the month of June to complete repairs.

In consequence of closing work in August, 1894, a month earlier than usual; not doing any dredging in the west slough, near Selkirk, as in past seasons, and loss of time, (half of June) replacing dipper arms, the output of 1893-94 is in excess of 1894-95.

The total quantity removed during the fiscal year 1894-95, amounts to 44,440 cubic yards. Total expenditure \$10,238.82. Average cost per cubic yard 23 cents.

CLASSIFICATION of Disburrements of the Dredge "Winnipeg" and plant, Tug "Sir Hector," 1 coal barge, 2 dumping scows, during the Year ended 30th June, 1895.

Grand Totals.	e cts.	2,847 77		309 33 750 19	492 47	10,238 82	9,488 63 750 19	10,238 82
June	s cts.	625 00 701 75	231 91	242 20 151 52	72 19	2,024 57	1,873 05 151 52	2,024 57
.YaK	e cts.	625 00 743 92	236 54	239 11	48.25	1,892 82	1,653 71 239 11	1,892 82
April.	e cts.	548 00	176 67	276 31	116 96	1,117 94	841 63 276 31	1,117 94
March.	e cts.	170 05			5 01	175 06	175 06	175 06
February.	e cts.	80 00				00 08	80 08	00 08
January.	s cts.	00 08				00 08	00 08	8
December.	ets.	120 00	: :			120 00	120 00	120 00
Мочетbег.	es cts.	146 00	28 00			174 00	174 00	174 00
October.	e cts.	185 00	46.88		64 30	296 18	296 18	296 18
September.	e cts.	551 67	158 48	67 13 27 35	68 78	873 41	846 26 27 35	873 41
.tsuguA	es cts.	625 00 702 10		26 05	69 29	1,730 29	1,704 24 26 05	1,730 29
.Հլու	ee cts.	625 00 700 00	263 31	29 83	56 39	1,674 55	1,644 70 29 85	1,674 55
Items.		Wages	Wood	EquipmentRepairs.	Towage.	Totals	Working expenses Repairs, ordinary do extraordinary.	Totals

STATEMENT showing the Material removed at different Localities, the Total Annual Expenditure on each Dredge, and the average cost per cubic yard.

Localities.	Har d- pan.	Boulders.	Gravel.	Clay.	Clay and Stone.	Sand, Ordinary.	Sand and clay.	Mud and Clay.	Totals.
Lake Winnipeg, Man.							c. yds.	c. yds.	c. yds.
Mouth of Red River, East Channel							39,440		39,440
Red River, west slough, near West Selkirk								5,000	5,000
Totals							39,440	5,000	44,440

Total expenditure during fiscal year 1894-95, \$10,238.82. Average cost per cubic yard, 23 cts.

PROVINCE OF BRITISH COLUMBIA.

DREDGING, INNER HARBOUR-VICTORIA.

Victoria is situated at the south-eastern corner of Vancouver Island. The harbour, consisting of the inner and middle basins and the outer harbour, opens out on the Straits of Juan de Fuca. The inner and middle basins afford but limited accommodation and the entrance is narrow and tortuous. The outer harbour artificially improved and added to at the expense of Messrs. R. P. Rithet & Co., offers easy approach and accommodation for vessels of the deepest draught at low water.

Work, under the above heading, "Victoria inner harbour" was continued during the past year in removing to a depth of 14 feet below zero, mean low water spring tides, on the departmental gauge, the rocks known as Beaver and Dredger rocks, situated respectively in the inner and middle basins.

The result of this summer's work has been the removal of Beaver rock to the depth of 14 feet at mean low water spring tides, or zero on the departmental gauge, and the partial removal of Dredger rock to the same depth.

The expenditure during the year amounted to \$9,999.85.

SNAG BOAT "SAMSON."

The snag boat "Samson" has been employed as in previous years in connection with the removal of snags from the navigable channel of the Fraser River; in assisting in the work undertaken for the improvement of the channel at the mouth of the river; and in attending to the buoys marking the channel at the mouth of the river.

14 25 14,038 42 245 14,038 42 228 32838 cts. Grand Totals. 3,627 10,410 1,344 2,283 7,253 2 25 88 88 ೫ :88884 888 cts. 1,310 1,135 109 64 1,310 .oun L 963 1282°5 CLASSIFICATION of Disbursements of the Dredge "Mud Lark" during the year ended 30th June, 1895. 82238 59 8 8 ŝ **488** cts. 1,395 855 23.08.52 1,395 8884 May. 8 9 :2 38 38 8 cts. . . 65 62 1-737 Jing A 737 66 88 28888 :8 ક્ષ ස :≿ 8 cts. 1,185 228° 28 1,417 1,417 38 S 231 March. 2 88 44 8 88 :83 턍 1,186 1,186 $\substack{1,167\\19}$ 188 February. 139 13 右铭 2362 24 35 24 Ġ. 25.4 4 E 1,168 1,168 January. 31 22 22 218883 57 57 # 4 .8 27 ह्य cts. 2,076 643 375 2,076 888 December. **#**4488 \$:28 52 17 83 cţs. 138 1,001 November. 44 1,001 262 22 18 88 18 : % **8888** g 1,515 1,515 35.58 36.58 36.58 October. :8 **#88** : 9 47 47 88 .8 1,431 105 20 614 250 456 1,431 975 278 178 September. 887 x 88888 27 27 cts. 888 28 - 48 51 798 August. cts. July. Working expenses... Provisions Stores Equipment Repairs. Contingencies do extraordinary. Wood Totals..... Totals..... Water.... Pilotage Items.

CLASSIFICATION of Disbursements of the Snag Boat "Samson" during the Year ended 30th June, 1895.

Grand Totals.	s cts.	4,320 00	204 15 20 20 20 20 20 20 20 20 20 20 20 20 20	888 37 42	371 49		6,295 63	5,924 14 196 56 174 93	6,295 63
June.	s cts.	540 00	37 50	121 70 17 53	9 53	4 50	730 76	721 23 9 53	730 76
May.	e cts.	:							
·lindA	e cts.								
March.	ee cts.				09 6		9 50	6 50	9 50
Еергиягу.	& cts.	540 00		81 94	178 07	2 95		1,048 68 3 14 174 93	1,226 75
January.	ets.	240 00	25.00	127 91		57		1,113 07	1,113 07
December.	e cts.	540 00	28 50	129 73	9 16	ν 6.		704 02 9 16	713 18
November.	ee cts.	240 00	30 00	135 70	105 33	ν. Έ		710 70 105 33	816 03
October.	e cts.	540 00	21 00	148 (5	02 06 03 06	4 19		717 27 9 00	726 27
September.	cts.	540 00	17 50	85 45 19 89		97 8	,	671 30 31 80	703 10
August.	es cts.	540 00	37 50	57 37	19 10	5		637 87 19 10	656 97
July.	es cts.	:							:
Items.		Wages	Wood	Water Provisions	EquipmentRepairs	Towage Wharfage.	Contangencies	Working expenses Repairs, ordinarydo extraordinary	Totals.

nents of the Snag Boat "Samson" while in Fraser River Service, during the Year ended 30th June, 1895.	Grand Totals.	e cts.	2,160 00 556 66 112 50	405 26	96 95 220 96 :	: : : :	16 15	3,518 96	3,518 96	3,518 96
1 30th J	June.	es cts.	540 00	93 23	39 54		3 00	705 77	705 77	705 77
ear ende	.YaM	e cts.	540 00	99 26	97 32		3 87	768 85	768 85	768 85
ng the Y	.lirq.A	e cts.	540 00	110 55	123 10		5 16	808 81	808 81	808 81
vice, duri	Матећ.	e cts.	540 00		6# 0		4 12	678 87	678 87	678 87
River Ser	February.	ee cts.								
Fraser 1	January.	e cts.								
while in	ресешрет.	e cts.					: :			
Samson"	Мочетьет.	e cts.								
g Boat "	Осторы.	ee Cfs.								
f the Sna	September.	e cts.								
ements o	August.	s cts.	226 66					256 66	556 66	556 66
f Disburs	July.	s cts.								
CLASSIFICATION of Disbursen	Items,		Wages Coal.	Water Provisions	Equipment Repairs	Pilotage	Whartage Contingencies.	Totals	Working expenses	do extraordinary. Totals.

DREDGING PLANT.

The dredging plant belonging to the department is as follows:-

In the Maritime Provinces.

The steam hopper dredge "St. Lawrence." do do "Canada."

The dipper dredge "New Dominion" and 4 scows.

"Prince Edward," 3 scows and 1 water scow. "George McKenzie," 3 scows and 1 water scow. do

In Quebec and Ontario.

The dipper dredge "Queen," 2 scows and tug "Ottawa."

do do "Nipissing," 2 new scows and tug "St. Paul." do do "St. Louis," 2 scows, coal scow and tug "Sensation." The elevator dredge "No. 9," 3 scows and tug "Delisle."

The dipper dredge "Challenge," 2 scows and tug "Trudeau." do do "Ontario," 3 scows and tug "Sir John."

Stone lifter No. 1.

In Manitoba.

The dipper dredge "Winnipeg," tug "Sir Hector," 2 scows and 1 coal barge.

In British Columbia.

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

Ship Channel, River St. Lawrence,

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

NEW DREDGING PLANT.

One elevator dredge, for the ship channel between Montreal and Quebec, sister dredge to the "Laval."

One steel tug as tender to the above dredge.

One steel dipper dredge for the Maritime Provinces.

These vessels are in course of construction.

DREDGE VESSELS-REPAIRS.

Maritime Provinces.

"St. Lawrence"	3.015	65
"Canada "	2.558	OΩ
"New Dominion"	1.712	79
"Prince Edward"	1 180	02
"Geo. McKenzie"	1 421	27
142	1,701	01

Ship Channel between Montreal and Quebec.

" No. 8"\$	1,578	38
" No. 11"	114	43
" No. 12"	4,132	18
"Laval"	1,230	
"John Pratt"	1,419	
"Cartier"	84	
"St. James"	200	
"St. Francis"	596	
"M. F. Parsons"	448	
"C. J. Brydges"	430	
Chara life and cooms	5,088	
Stone lifters and scows	0,000	43
Ontario and Quebec.		
"Challenge"\$	1,158	67
"Ontario"	541	
"Nipissing"	8,289	•
"Queen"	468	
"St. Louis"	2,219	
" No. 9"	2,022	
	911	
" No. 4"	311	UU
Manitoba.		
" Winnipeg"	750	19
British Columbia.		
" Mud Lark "	2 283	31
"Samson"	174	93
Вашьин	117	: 00

GRAVING DOCKS.

The Dominion Government owns and maintains three gravings docks, viz., the Lorne graving dock at Lévis, in the province of Quebec; the Kingston graving dock at Kingston, in the province of Ontario; and the Esquimalt graving dock at Esquimalt, near the city of Victoria, in British Columbia.

LEVIS GRAVING DOCK.

The Levis Graving Dock is situated at St. Joseph de Levis, on the southern shore of the St. Lawrence, two miles east of Quebec. The general plan of the dock is a rectangular figure, 445 feet in length by 100 in breath, with a circular head 31 feet radius, with a square offset on each side of 19 feet, forming the top and width of the timber slides and stairs which are placed in pairs side by side at either end. The width of the inner invert, between the main body of the dock and the caisson berth, is eight feet, making the total length of the dock inside the first meeting place of the caiseon 484 feet.

The wing wall on the eastern side of the entrance, extends 150 feet from the

caisson into the river, while that on the western side extends 270 feet.

The depth of water on the sill is $26\frac{1}{2}$ feet at high water spring tides, and $20\frac{1}{2}$ at high water neap tides, while the width at the entrance is 62 feet.

The dock is closed by a caisson, travelling on rollers, worked by a pair of high pressure auxiliary engines of 34 horse power. These engines also work a small pump with a capacity of 900 gallons per minute, which is used to clean the drainage well, when the dock is in use.

The main pumps, two in number, are of the ordinary style of lift pumps, four feet in diameter with a five feet stroke and discharge 14,000 gallons per minute. They are worked by a pair of jet condensing engines, 27½ inches cylinders and three feet

stroke and the horse power is 400.

Steam is supplied by three tubular boilers, 14 feet in length and 6 feet in

diameter.

The dock proper is built of limestone from the Terrebonne quarries, the courses being exceptionnally large and the stone of the best quality, laid in Portland cement. It is lighted with 12 arc lamps supplied from a Thompson and Houston dynamo, so that vessels can be docked at night and worked carried on without interruption.

This property of the government has been kept in excellent working condition, with the ordinary care to the pumping machinery and caisson. A coal shed which had been commenced in June, 1894, was completed in July. A signal steam-whistle was provided; the inside of the caisson was coated with a cement wash and the outside repainted. A general overhauling of the main engines was made during the months of December and January and the engine room repainted.

KINGSTON GRAVING DOCK.

This dock is situated in the centre of the harbour at the foot of Union Street. It is built of stone laid in cement, has good yard accommodation, and can take in any vessel that passes through the Welland Canal.

The following is a discription of the property, caisson, boilers, engines, &c.:

The dock is 280 feet long, from the inner face of the caisson to the foot of the stairs is 290 feet. This length can be increased by 13 feet, by placing the caisson on the apron line. The width of dock at floor level is 47 feet and at coping 79 feet. The depth is 20 feet 6 inches. The rudder well commences at 10 feet from the inner face of the invert and is 3 feet wide, 12 feet deep and 24 feet long. The keel blocks extend the whole length of the dock at 5 feet centres. There are 32 bilge blocks placed at 10 feet centres. The depth of water on the sill at low water is 16 feet, and at high water 18 feet.

The caisson is 59 feet in length on long face, 57 feet on short face, 13 feet wide by 22 deep. It is operated by a worm gear arrangement, in connection with the

auxiliary engines hereinafter alluded to.

The large steam boilers (battery of 4) are all connected and are provided with controlling valves, so that one or more of them may be used at the same time. The length of shell is 14 feet, diameter 5 feet 6 inches, thickness of plates \$\frac{3}{2}\$ inch, 84, $3\frac{1}{2}$ flues same length as shell. Pressure of steam 100 lbs. to square inch.

The small auxiliary boiler is of the drop flue type. The shell is 9 by 4 feet, plates 3-inch thick, has 250 drop flues 4 by 18 inches, with circulating tubes. This boiler saves from 50 to 75 per cent of the fuel required by one of the large boilers, to

do the same amount of work.

The main engines, two in number, are of the vertical high pressure type. The cylinder being 18 by 18 inches. These engines operate the two main pumps.

The main pumps are of the centrifugal type, having each a 20-inch diameter discharge and jointly capable of discharging 30,000 gallons per minute, against a head of 33 feet.

The auxiliary engines are of the vertical high pressure type. The two cylinders are each, 12 inches by 12 inches. These engines operate the auxiliary pump and the caisson.

The fire pump was made by the Knowles Co., of Boston. The steam cylinder is 15 inches by 21 inches and the water cylinder, 10-inch by 21 inches. This pump can also be used to do the duty of the auxiliary centrifugal pump, should the latter be disabled.

The pony engine and pump has two steam cylinders, each 6 inches by 7 inches. The water cylinder is 4 inches by 7 inches. This pump is used for feeding the water supply to the boilers and for sprinkling purposes, and is capable of lifting 3,000 gallons per minute against a head of 32 feet.

During the fiscal year of 1892-93 several material improvements were made to

the dock.

A vertical boiler, 4 feet in diameter by 9 feet in height, was purchased.

This boiler will pay for itself, it is claimed, in one year, as it will save 40 per cent of the coal consumed in keeping the dock free from water flowing through the arterial drains while it is un-watered.

The fire pump was removed from the upper to the lower floor of the engine room. A shed for the storage of coal the dimensions of which are 30 by 40 feet was built on the wharf south of the machinery building, also a wooden fence of the best description was built around the whole government property, for a length of 868 feet, with gates on Gore and Union streets.

No new work in connection with the dock was undertaken during the fiscal

year ended the 30th June, 1895.

A full return of the boats docked during the year will be sent in by Mr. E. T.

Smith, collector of revenue, of the department.

The steam derrick has been put in thorough repair and painted at a cost of \$216.23.

The stone work of the dock throughout has been pointed with Portland cement,

at a cost of \$78.83.

The boiler house roof, has been put in a proper state of repair at an expenditure of \$152.07, while the woodwork of the engine house has been painted. Cost \$47.02.

ESQUIMALT GRAVING DOCK.

This dock commenced by the Provincial Government of British Columbia, was assumed by the Dominion Government and completed and opened in July, 1887, when H.M.S. "Cormorant" was docked. It is situated in a small cove in Esquimalt Harbour, and the following is a description of the dock, engines, pumps and boilers:—

	Feet.	Inches.
Length of dock over keel blocks		21101100,
Width of inner invert	20	
do caisson chamber		10
Total length of dock	480	10
Width of dock at coping		
do do entrance	65	
do do floor of dock		1
Radius of invert	16	6
Depth of water on invert at low water		6
do do ordinary high water	26	6
Total depth of dock above invert	33	6
Height of invert above floor of dock		
do keel block		10
Length of do		
do caisson (inside facing)		
do do (outside facing reversible)		
Width of caisson over teak meeting faces	15	8

- 2 condensing engines, cylinders 27 inches diameter, 36 inches stroke.
- 2 lifting pumps, cylinders 48 inches diameter, 60 inches stroke.
- 3 Cornish boilers, 6½ feet diameter and 14 feet in length.
 1 high pressure auxiliary engine, cylinders 16 inches diameter, 20 inches stroke.
 145

1 centrifugal drainage pump, 14 inches suction, 12 inches discharge.

1 return tubular boiler, 5 feet 3 inches diameter, and 141 feet in length.

1 hauling engine for caisson, cylinder 12 inches diameter; 14 inches stroke.

1 centrifugal drainage pump, 6 inches suction: 5 inches discharge.

1 Edison No. 4 dynamo, 1,600 C.P. 16 lamps around dock. 1 engine for dynamo 8 inches diameter by 12 inches stroke.

1 iron moveable stop gate for caisson chamber.

25 iron bollards around dock.

1 wooden crane, 10 tons capacity.

8 hand capstans.

6 hydrants.

3 hose reels and 200 feet of canvas hose.

1 diving apparatus, complete.

1 lathe, 6 feet bed.

1 drilling machine.

set of taps and dies complete.
 steam box for bending planks.

2 iron warping buoys.

2 dolphins to mark channel at entrance of dock.

This dock has not been in great demand during the past year, the receipts having only reached \$6,338.25 against \$10,850.00 received last year. The running expenses this year amount to \$10,409.81, \$432.28 more than the previous year. This is accounted for by the fact that during the latter year, there was no necessity to purchase fuel, there being sufficient on hand to last the year.

It is anticipated that the recent reduction of the dues will encourage the more

frequent use of the dock.

During the year the whole of the caisson—both lower compartment, inside and outside—has been chipped, scraped and re-painted, and the hauling gear, sprocket wheels and counter-shafts taken off, repaired, painted and put together again. Also new iron crab winch for heaving ships upright, made out of old materials and placed on the high rocks.

New wooden steps, ladders and pier headfenders. New iron axles for timber trucks, firing tools, bolts, hinges, hasps and staples made for coal sheds and other

buildings.

New set of brass set screws for large pump rods made, and valves repaired

when required.

Small engine overhauled and new piston rings made, new drains and pipes put under small boiler, new floor put in dynamo room and a set of boat oars made.

Eighteen new dock trestles and a timber truck, for carrying heavy timber

around dock, made.

Boilers cleaned out when required and painted twice during the year.

Dynamo engine overhauled, new bridge walls under boilers made and brick linings repaired.

Large engines overhauled and painted. Air pump rod and plunger repaired. New screw bolts for holding down winches made. New set of shore chains and keel block caps made.

Pump wells and caisson chamber cleaned out. Shells and barnacles scraped

off inverts, meeting faces and apron, and drains flushed out.

Centrifugal pump taken out, repaired and replaced. Four tide gauges made, new lathe tools, mandrils, special taps and drills made for above work.

New crucible tongs and grates for brass furnace, furnace doors and forges re-

paired.

Set of moulders' tools and moulding boxes made, patterns for castings, tables and stands for tide gauges, and new hatches for engine room floors made.

SLIDES AND BOOMS.

In connection with the different systems of slides and booms, owned and operated by the Dominion Government on the Ottawa, St. Maurice and Saguenay Rivers, and in the Trent and Newcastle District, information relative thereto will be found in the appended reports of Mr. G. P. Brophy, Superintending Engineer of the Ottawa River Works; Mr. Thomas Berlinguet, Engineer in charge of the St. Maurice River Works; Mr. Thomas Breen, Engineer in charge of works on the Saguenay River; and Mr. R. B. Rogers, Superintending Engineer of the Trent and Newcastle District Works.

OTTAWA RIVER WORKS OFFICE,

OTTAWA, 15th August, 1895.

Louis Costr, Esq., Chief Engineer of Public Works, Ottawa.

SIR,—As requested by your communication No. 2478 of the 8th ultimo, 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.

During the summer and autumn months of 1894, rather a low pitch of water prevailed in the various streams, so that the movement of late timber was considerably retarded. At the time of low water, an examination was made of the foundations of the river structures; and as soon as it was possible to do so the necessary repair and re-construction work was begun and continued after the season of navigation had closed and may be described as follows:—

REPAIRS AT STATIONS ON THE OTTAWA RIVER (MAIN STREAM).

Carillon Station. At this place a portion of the guide-boom was repaired by replanking it and inserting new timbers and also by strengthening the boom

fastenings and respiking portions of the side and floor planking of the slide.

Hull or North Chaudeire Station. The works here were repaired at the outlet or lower slide by renewing a portion of the bottom and placing new timbers, planking and stone-filling; patching corners of entrance piers and attaching iron plates; planting an oak post in easterly side pier and furnishing additional stop logs. While at the entrance to the upper slide, the six ply boom, which had been damaged by an ice shove, was thoroughly overhauled by the insertion of new timbers and plank and the sheeting of the upper slide partially renewed.

Ottawa or South Chaudière Station. At this place the upper portions of the bulkheads of the 1st and 2nd slides was thoroughly repaired and the hoisting gear and crab attachments strengthened; the guide boom at the head of the 2nd slide having become strained and twisted, had to be replanked and stiffened by top bracing. New hardwood pickets for booms at head of 1st 2nd and 4th slides were provided and placed in position and the covering plank of the booms between the 3rd and

4th slides renewed.

At places where much worn by passing timber, the sides and bottoms of the slides and the apron fingers were re-inforced by the insertion of elm plank; and, as much difficulty was experienced last winter in adjusting chain fastenings, &c., owing to the sudden changes of the level of the water at the inlets due to the formation of anchor ice in the channels and bays between the Great and Little Chaudière Falls, a larger outlay than usual was necessary to provide labour for guarding against accidents and making good the damage caused by the action of the ice. Hardwood pickets were provided for booms, and ice and snow removed from the roofs of atorehouses and sheds.

Bridges at Ottawa and Hull and roadway or causeway between these cities. The work of repairs and maintenance on the roadway consisted of cleaning the roadbed; placing a layer of broken stone where the surface had worn out; renewing sidewalk

and hand-rail between Buell, Hurdman & Co.'s track and Hull bridge, a distance of about 350 feet; renewing sidewalk and railing of Hull slide bridge; renewing longitudinal timbers, supporting same where decayed, and patching covering plant of roadway and at a later period of the year when it was considered that the further use of the slide bridge would be unsafe for the heavy traffic over it, the old structure was removed (with the exception of the renewed sidewalk) and a bridge, wider by 8 feet and with a raised grade at the northerly approach, built to replace the old one. The sidewalk and iron railing on the east side of the northerly approach of the Union bridge was extended about 30 feet; the pavement of the causeway towards Hull was continued by laying 340 square yards of granite blocks. At the Ottawa approach of the Union bridge an iron grating was placed over a trench cut transversely to the full width of the road, for the purpose of intercepting and carrying off the water from the grade above; while several iron grates were laid on the gutter holes at both ends of this bridge and the iron tension rods and braces and flooring plank repaired.

The covering plank of the line of iron bridges spanning the slide and hydraulic channels at south Chaudière station was repaired and the tension rods and braces were adjusted. At the *Maria street bridge* the roadway, approaches and footpaths were repaired. About 150 feet in length of the road covering of the *Sappers' bridge* was renewed by laying 3-inch plank and a new sidewalk laid on the south side. To prevent damage to the iron posts and railings by the snow ploughs in winter, movable guard planks or fenders were provided for both sides of the bridge at its

approaches.

In this connection it may be stated that the causeway has now been laid with porphyry and granite blocks for a distance of about 315 feet, northerly from the Union bridge towards Hull, and from the southerly end of that structure there is now in use a permanent stone pavement, extending 125 feet, to meet the city of Ottawa's paved roadway. The thoroughfare between the place where the stone paving ends and the Hull bridge is altogether too narrow for the very great traffic it has to accommodate, I would therefore repeat the recommendation contained in a former report and urge that this portion of the roadway be widened and permanently paved as soon as a grant can be obtained for that purpose.

Chats Station. The glance pier on the north side of the canal leading to the slide had been damaged by cribs striking the outer face. Repairs were executed by inserting timbers, three sticks wide and tiers of three-inch elm plank atternately the timbers having been laid longitudinally and the plank cross-wise on top and all well spiked together. Additional stonefilling had to be done in the cribwork; the booms on the north side at head of canal and at the lower by wash on the same side had a renewal of decayed and worn out timbers and in the figor of the slide, at various places where defects were found, new three-inch elm planks were substituted

for those that had become unserviceable.

Chenaux Station. Additional boom chains were provided for the works here and

certain minor repairs carried out on the floats and gaps.

Portage du Fort Station. The upper timbers of the side pier at the foot of the slide, on the southerly side, were damaged and displaced at the time of high water, necessiting a renewal and relaying of same as well as a levelling up of the stone-filling; two new maple stop-logs had to be furnished for the governing bulkhead of slide and a renewal effected of the second length or stretch of guide boom at the head of slide on the southerly side which had been much damaged and worn, after many years' use.

Mountain Station. Some small repairs had to be attended to at this place; but the work was done by the slide master and his assistant; it consisted principally of driving home projecting spikes in the slide bottom, stopping leaks and adjusting the

chains and fastening of booms.

Calumet Station. The repair work here consisted of the building of a temporary dam, 78 feet long, by an average height of 16 feet, to close off the water from the lower outlet basin of the third slide, preparatory to the carrying out of necessary repairs to the side dam and apron below the slide. In addition to the above work,

an examination was made of the planking of the slides, the head of spikes driven in; the boom covering plank renewed in places and a strengthening effected of the boom chains.

REPAIRS ON TRIBUTARIES OF THE OTTAWA.

Gatineau River. The work done in connection with the improvements on this stream, was in excavating and removing bark and other rubbish from the bed of the creek leading from the pond to the sorting gaps, on the north side of the Ottawa River.

This channel had become so much obstructed at low water season by deposits of such debris, that logs could only be moved with great difficulty and expense. The trips of booms, sorting platforms, caps and pickets, etc., were repaired and the

piers of the bridge over the canal strengthened.

Madawaska River. At the mouth of this stream, in the spring of 1893, ice shoves, during a heavy gale, wrecked some twenty-two of the boom support piers—several had to be rebuilt from the water's edge; others were partially taken down and had the damaged timbers removed and replaced by new ones; plank fenders spiked on the exposed sides of the piers; snubbing posts planted and the stone filling brought up to level. The glance pier below Arnprior Slide was repaired where damaged by the passing timber and logs; new timbers were put in and stone laid in the cribwork: the lower portion of the slide outlet, where it had been undermined was supported by new timbers and otherwise strengthened; while the sides of the slide at the bulkhead were covered with maple plank.

At Flat Rapids one dam on the north side of the river and two on the south side had their face planking, in places, renewed, and their stringers and finger pieces where damaged repaired; the foundation timbers were rock bolted and a

quantity of stone added to the bottom of the crib.

At Long Rapids dam foundation timbers were replaced where they had been knocked out and the stone filling made up where required.

At Sutherland's Shoal the top of the glance pier was carried away by the spring

floods and had to be replaced by timber and stone.

At Little Rapids the main dam 180 feet long by 15 feet average width by 10 feet high was much damaged by the action of high water in 1893 and 1894, to remedy this defect, stone filled cribwork was placed in the middle supported by buttress piers at the back; and to guard against the undermining of the foundations, a quantity of stone was deposited in the bed of the river against the upper or face side of the dam.

At Barrett's Chute the sheeting was taken off the dam on the north side of the river and the structure raised two feet; it was then sheeted anew; the length being

85 feet.

At High Falls a support pier 22 feet by 12 feet by 12 feet high was built behind the dam; the main boom repaired; the bulkhead piers faced up and some blocking up done at the foundation timbers of the slide near the foot. At Duck Rapids a flat dam 73 feet long and 7 feet high was built from an island to the south shore and at Bailey's Chute a flat dam 130 feet long, 6 feet high, with rock bolted foundations, was rebuilt on the northerly side of the river. At Chain Rapids the old dam from the bulkhead pier to the rock was cut down and rebuilt on the flat principle; its length being 145 feet and height 9 feet. Certain necessary repairs were also executed at the piers of the bulkhead at this station.

Coulonge River. At the entrance to the slide at High Falls the glance pier on the north side was extended a distance of 25 feet and on the south side 35 feet and carried up 14 feet, or to the same height as the bulkhead piers; the average width of piers is 5 feet and they were filled to the top with stone. The planking of the bottom and sides of slide (which is nearly 3,000 feet long) was examined and heads

of spikes driven in.

On the 25th of April last a break occurred in the slide, when a section, about 60 feet in length, was completely knocked out. This accident, it is supposed, was due

to vibration caused by passing logs; and the necessary repairs involved the renewal of four high bents, 11 pairs of posts, sills, stringers, &c., for the distance above stated. In May, three minor breaks took place, two of which were caused by logs and timber bumping out some of the side posts of the slide; and the other by a fall of rock fragments detached from the steep banks and almost perpendicular bluffs skirting the slide on the left. These repairs were promptly executed and the drives passed without further interruption. A quantity of chain was procured for the booms at this place and the fastenings made secure.

Black River. The maintenance of the works at High Falls, near the mouth of this stream, required a supply of maple plank to withstand the friction of the logs at the steep pitch near the outlet of the slide. Other small repairs were attended to by way of adjusting boom fastenings, and bulkhead appliances for the regulation of

the flow of water in the slide.

Petewawa River. The work done under this head was as follows:—Replacing a number of worn planks in the Second Chute Slide and substituting new sills and posts for those damaged by logs and roots of trees during the high water season of 1894; refilling with stone, two sections of the main governing dam on the north side of the second chute; cutting and splicing old boom timbers; overhauling boom chains and stanching with brush and gravel, crevices in dams, which had caused leakage during the running season. At Crooked Chute Station, repairing sides and bottom of slide and timbers of bulkhead; levelling up stone-filling in first and second piers of retaining dam; cutting ends of old booms and reboring for new coupling chains and gravelling in front of the main dam.

RE-CONSTRUCTION.

The work done under this head was on the Petewawa River and may be de scribed as follows:—Rebuilding and filling with stone the upper portions of two piers. and bracing snubbing posts; drawing out of the river, reboring, fitting and supplying with new coupling chains, 80 lengths of timber in main boom at mouth; blasting of two reefs of rock and a number of boulders from the channel immediately below the outlet of the First Chute Slide; the removal of an old pier to secure a proper run into the new slide entrance; building of two piers to support guide booms at head, the one on north side being 23 x 23 feet at base and 18 by 18 feet at top x 20 feet high, the other 16 x 16 x 13 feet high; two guide booms for entrance of Second Chute Slide, reconstructing main governing dam on the south side of the head of the Third Chute Slide: this dam is 109 feet long by an average height of 14 feet; rebuilding outside bulk head pier, 100 x 10 x 6 feet at third chute and reconstructing, at the same station, a pier dam 40 feet x 10 feet x 6 feet, blasting and removing rocky reefs and boulders from the timber channels at Half mile Rapid and Bois Dur Stations and providing timber and chains for the works there; reconstructing three dams to open up a new channel on the north side of Lake Traverse Slide and blasting rock and boulder obstructions in this channel, the object in view being, to provide a passage for timber and logs at low water season, which can only be run through the single stick slide, 1,400 feet long, with great difficulty and expense, when the water falls—and as it is most likely that, in future, a large portion of the drives will use this channel, a considerable saving in the maintenance of the works there, will be affected.

PURCHASE OF SERVICE GROUND.

Parliament, at its session in 1894, having voted \$750 for the purpose of procuring a strip of land and certain riparian privileges adjacent to the First Chute of the Petewawa; and which were required as service ground, &c., for the proper working of the government slide there, a survey of the property was made and a legal transfer obtained.

The works on all the streams were ready and opened in due time for the business of 1895. The floods in the rivers and creeks of the Ottawa Valley were not as high

last spring as they had been in the years immediately preceding; consequently no damage of any consequence was done by water pressure or ice shoves on the opening of navigation; but as the season advanced a scarcity of water was experienced on some of the feeders and this had the effect of delaying the drives and making the movement of all descriptions of timber more expensive, than if there had been a free and continuous run of water in the spring and early summer months on the upper streams.

The following statement, which is copied from a return furnished by the collector of slide dues in your department, shows the quantities of the various descriptions of timber that passed the government works, together with the revenue accrued as tolls, for the fiscal year covered by this report:—

Square timber	32,783	pieces.
Saw-logs	658,317	"
Boom and dimension timber	105,533	"
Cedars	16,768	**
Railway ties	160,317	"
Fence posts		"
Shingle logs		"
Tamarack logs	8	"
_		
4	,005,399	"

also 7,533 cords pulpwood and 100 cords shingle wood.

The revenue accrued was \$51,973.07. In respectfully submitting the above,

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

> GEO. P. BROPHY, Supt. Engr. O. R. Works.

Louis Coste, Esq., Chief Engineer of Public Works, Ottawa.

THREE RIVERS, 12th August 1895.

Sir,—I have the honour to submit the following report on the works under my charge, on the St. Maurice River, for the fiscal year ended 30th June last.

The river commenced to rise on the 7th March, and reached its maximum height on the 26th April, 1894, corresponding to 17 feet 7 tenths above low water, and being 1 foot 7 tenths higher than the maximum of 1893.

After the 9th of May the water commenced to recede rapidly, and reached its minimum height on the 7th September, corresponding to 3 feet 4 tenths on gauge at Grandes Piles, and being 0.6 feet higher than the lowest water in 1893.

The fluctuation of the water level has been great during the season, varying

from 3 to 7 feet, giving a high pitch of water for the descent of the logs.

During the working season in 1894, for the descent of the logs, from the 16th April to 2nd October, the water level rose during 58 days, and receded during 97 days and was at a stand still during 13 days.

Out of the 168 days, we had 71 days when the river gave a good pitch of water

for the floating of the logs.

The average height of water for the working season was 5.8 feet above low

water summer level.

After the working season, the slides, piers and booms were examined, and in the fall the necessary works of repairs and reconstruction were executed, which may be described as follows:—

At Grandes Piles Station:—The work performed at this station consists of repairs made to piers (Nos. 4, 5, 6 and 7), also 1,022 feet of single boom, were renewed at Les Plaines, below Grandes Piles falls. Also the construction of the eastern section of the telephone line from Shawenegan Falls to Pointe Magdeleine at Grandes Piles.

At Grand'Mère Station:—Slight repairs were made to the main boom. The works at this station are now in good condition, and every facility is provided for the running of logs.

At Shawenegan Station:—The bottom and sides of the slide were partially repaired by replacing the worn-out timber and planking with new material, the apron faced with hardwood, and the projecting spikes in the bottom and sides of the slides were countersunk.

At Iles des Hêtres, seven anchor piers (Nos. 68, 69, 70, 71, 72, 74, and 75) and two jam piers (Nos. 73 and 76) were built, with 950 feet of three-ply booms, to retain logs in the channels formed by the islands at that place; to increase the capacity of the retaining booms at this station, and also to protect the slide from a too great accumulation of logs at its head. This is a more economical place in which to retain logs than at Shawenegan Bay, for three reasons:—

1. Because the fluctuation of water is much less; when the water raises 22 feet

at the Bay, it rises only 12 feet at the Hêtres.

2. Because the cost of this work is much less at the Hêtres than at Shawenegan Bay—as the work erected at the bay to retain 100,000 logs cost over \$60,000 while that at the Hêtres can retain over 200,000 logs and the work has cost only \$3,000. The proportion is the same with regard to the repairs.

3. This work being (two miles) above the slide, prevents a too great accumula-

tion of logs at the slide, where breaks often happened.

At Three Rivers Station:—Slight repairs were made to the booms, 877 feet of four ply-booms were strengthened by adding timber on each side along the whole length of the boom, and mooring posts were placed where necessary.

The following statement, furnished by the collector of slide and boom dues in your department, shows the quantities of the various descriptions of timber that

passed the government works, for the fiscal year covered by this report:-

Statement of the number of pieces of saw-logs, &c., that passed through the government slide and works on the St. Maurice River, during the fiscal year endel 30th June, 1895.

Saw-logs	565,534 r	oieces.
Logs for pulp wood	213.318	"
Round timber	876	"
Railway ties	164	"
·		
Total	779,892	4 ¢

The amount of expenditure for staff, maintenance, repairs and improvements for fiscal year ended 30th June, 1895, was:—

Staff and maintenance expenses	
Grandes Piles Station	205 46
Shawenegan do	
Three Rivers do	413 45

Total expenditure for 1894-95...... \$10,514 17

I have the honour to be, sir,

Your obedient servant,

F. X. THOS. BERLINGUET, Resident Engineer.

Louis Coste, Esq., Chief Engineer, Dept. Public Works, Ottawa.

TRENT AND NEWCASTLE DISTRICT,
SUPERINTENDING ENGINEER'S OFFICE,
PETERBOROUGH, 16th August, 1895.

Louis Coste, Esq., Chief Engineer, Department Public Works, Ottawa.

Sir,—I have the honour to submit the annual report of the works under my

charge for the fiscal year ending 30th June, 1895.

The works under my supervision 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 and are part of the Trent Canal, the latter are under the control of the Department of Public Works.

The works are situated along the River Trent and its upper waters between the Bay of Quinté on the south, and Balsam Lake (a point about 15 miles from Lake

Simcoe) on the north, a distance of about 170 miles.

There is a watershed of over 2,000 square miles which is bounded on the north by the Muskoka and Madawaska Rivers. The regulation of the water from this large watershed has become a very important matter to the many industries situated along the route and to navigation.

The spring freshet only reached an average height. The water during the fall of 1894 was good up to the middle of October when the water fell rapidly on

account of the dry season.

Some firms did not observe as strictly as they should the regulation regarding the bringing down their logs in small bags. This will have to be adhered to if navigation is to be maintained, as those large bags of logs cannot possibly be put through the contracted parts of the channels without stopping navigation. Besides with proper appliances they can be brought down as cheaply if not more so in small blocks than in large ones.

Gilmour & Co., of Trenton, now bring their logs from the Muskoka waters by means of ladders and sluices over the height of land into these waters. This, has, I understand, been successfully carried out, but owing to the low water late in the fall

they were unable to get their logs all the way to Trenton.

The works are now in fair condition and most of the larger works that are required are now built, so that in future, unless other larger works are put in for the benefit of the lumbermen, the expenditure for maintenance and renewals will be smaller than in the past.

The following works of repairs were executed at the different stations:-

Buckhorn.

A pier, 90 feet in length and 8 feet wide, was built from the end of the slide for the purpose of preventing the water and logs spreading on the shoal below. It was necessary to have this slide in condition for running as in high water it was impossible to take the logs across the front of the dam, owing to the strong current. The slide and sluice was also repaired and put in first-class condition. The works here are now in first-class condition.

Fenelon Falls.

Two extra piers in Cameron's Lake were built at the upper entrance to the glance booms of the slide in order to form a "snub" for the blocks of logs as they rolled in.

Burleigh Falls.

The flat dam which was unfinished, and which has proven such a great boom to the lumbermen, was completed.

Katchawannoe Lake.

Minor repairs were executed to the booms. The cut at "Henderson's Narrows" was dredged out to a depth of 8 feet and 75 feet wide and 120 feet in length. This allows such a current to pass through that it takes out the great eddy below, about which the lumbermen made such great complaint.

Little Lake.

The piers from the water line up were rebuilt and put in first-class condition and the booms overhauled.

Heeley's Falls.

The slide at this station was handed over some years ago to the lumbermen, on the condition that if the tolls were taken off they would keep it in repair. They allowed it to get so out of repair that it was dangerous to go on it and it was liable to go out at any time. The slide was thoroughly rebuilt and put in first-class shape.

Minor repairs were also made to the booms and piers at Hastings, Katcha-

wannoe Lake and Bobcaygeon.

I have the honour to be, sir,

Your obedient servant,

RICHD. B. ROGERS, Supt. Engineer.

STATEMENT showing the number of Saw-logs, &c., &c., which passed through the different Slides on the River Trent and Newcastle District Works for the Fiscal Year ended 30th June, 1895.

Station.	Pine Saw-logs.	Boom Timber.	Railway Ties.	Fence Posts.	Long Cedars.	Dimension Timber.	Shingle Butts.	Spruce Logs.	Other Saw- logs.
Fenelon Falls	197,363 197,363 197,363 197,363 188,400	6,389 3,343 3,343 3,343 1,200 1,200 1,200	22,727 68,369 68,369 68,369 68,369	27,075 26,045 26,045 26,045 26,045	783 12,425 12,425 12,425 12,425 12,425	746 746 746 746	2,600 2,600 2,600 2,600	832 926 926 926 926	29,136 20,095 20,095 20,095 20,095 871 871 871

RICHARD B. ROGERS,
Supt. Engineer.

QUEBEC, 27th July 1895.

L. Coste, Esq., Chief Engineer, Department Public Works. Ottawa.

Sir,—I beg leave to report that during the fiscal year 1894-95 sundry repairs were made to the Saguenay Slide, besides which 300 feet in length of the structure, including trestle-work supporting the same were pulled down, partly rebuilt with new material and framed ready to receive planking and sheathing, materials for which are on hand.

The spring freshets caused the water of Lake St. Jean to rise some two feet higher than last year and in order to protect the slide, the slide-master had to raise dam No. 7 and bulkhead some four feet to prevent driftwood, etc., from passing over.

There are up to date some 800 pieces of timber in the booms, but none passed

through the slide in 1894-95.

I remain,

Your obedient servant,

THOS. BREEN.

BRIDGES.

During 1894-95 repairs were made to the undermentioned bridges, viz:—Grand River Bridge, at York, Ontario; Ottawa City Bridges, at Ottawa, Ontario; Des Joachims Bridge, River Ottawa; Portage du Fort Bridge, River Ottawa; Belly River Bridge, at Lethbridge, N.W.T.; Old Man's River Bridge, at Macleod, N.W.T.; and bridge built at Pond Creek Man's River Ottawa River, Quebec; Cartier, River St. Louis, Quebec; River St. Louis Feeder, Quebec.

GRAND RIVER BRIDGE.

The Grand River Bridge at York connects the eastern and western sides of the

Grand River at York, Haldimand County.

During the fiscal year 1894-95 the sum of \$300 was expended on repairs to the flooring of the bridge and in strengthening the hand rail of the approach, etc., 7,500 B.M. of 3-inch pine plank was renewed, 37 cords of stone were placed in position and the handrails strengthened.

DES JOACHIMS BRIDGE.

The village of Des Joachims is situated in the county of Pontiac, Quebec, on

the Ottawa River, 128 miles above Ottawa.

The interprovincial bridge which spans the river at this point is 737 feet long and 16 feet wide, apart from a stone embankment or approach 70 feet long on the Quebec shore.

A sum of \$2,500 was appropriated for repairs to this bridge, but it was found impossible to put it in a safe condition for that amount. The piers require but little repairs, but the superstructure is so far decayed as to render all repairs useless.

PORTAGE DU FORT BRIDGE.

The village of Portage du Fort is situated in the county of Pontiac, Que., on

the Ottawa River, 60 miles above Ottawa.

The interprovincial bridge which crosses the main channel of the Ottawa River at this point, is 996 feet long over all and 20 feet wide. Its main span was found to be in a dangerous condition owing specially to the advanced state of decay of the

piers on which it rests. These piers were sheathed and generally strengthened, and the span itself was guyed up by means of six $1\frac{1}{2}$ -inch crucible cast steel wire ropes, three in each truss. It is now in as safe a condition as the advanced state of decay of the foundations of the piers will allow.

The village bridge, which is 225 feet long apart from two stone and earth approaches each 80 feet long and 20 feet wide, was completely refloored, and is now

in a good state of repair, the total expenditure amounting to \$1,897.45.

BELLY RIVER BRIDGE.

The town of Lethbridge is in the district of Alberta, north from the international boundary line, 50 miles, in Section No. 31, Township 8, Range 21, west of the 4th Initial Meridian. The town is connected with the main line of the Canadian Pacific Railway at Dunmore, by the Lethbridge branch, 109 miles in length.

The bridge spans the Belly River in the north-west & Section No. 1, Township

9, Range 22, about one mile and a half from the town.

The bridge is a Howe truss, four spans of 150 feet each, with three piers; two

abutments and trestle approaches with a total length over all of 1,000 feet.

The structure being in need of repair, orders were given to have the necessary work executed. It commenced on the 4th April, 1895, and was completed in June, before the close of the fiscal year, the expenditure amounting to \$2,502.56.

The spans were well tightened up throughout and brought to the proper camber. The floor laid down is of first-class quality, and the rip-rap placed around the piers was not affected by the freshet. The approaches were also put in good order. The bridge, however, required painting.

OLD MAN'S RIVER BRIDGE.

The Old Man's River rises in Crow's Nest Lake near the summit of the Rockies about 50 miles west of the 5th Initial Meridian, and is joined by the north and south branches about 10 miles west, and 2 miles east of the 5th Initial Meridian respectively, emptying in the Belly River, 20 miles east of the town of Macleod, after a course of about 200 miles in a general direction.

The town of Macleod is in the district of Alberta, Township 9, Range 26 west of the 4th Initial Meridian, section No. 12; 50 miles from the international boundary line; 30 miles west of the town of Lethbridge, and 105 miles south-east of Calgary. The Macleod branch of the Canadian Pacific Railway connects with the main line at Calgary.

The bridge crosses the Old Man's River one mile and three-quarters west of

Macleod, in the centre of Section 10, Township 9, Range 26.

The bridge consists of two spans of 150 feet each; one pier; two abutments; earth and trestle approach on the north side and an embankment approach on the south side.

This bridge was constructed under contract with Messrs. John Heney and Henry Smith of Ottawa, between May and October, 1891.

Since the bridge was completed there has been expended in repairs up to the 30th June, 1894, a total sum of \$2,364.63, giving an average of \$788.00 per annum.

The freshet in June, 1894—the highest water as yet recorded,—washed away the rip-rap placed around the pier during the winter, and scoured out the bed of the river about the pier at the upstream end, to a depth of 10 feet, or nearly to the bottom of the protection piles which surround the pier. During this freshet, the water rose to within 3 feet of the bottom chord, which shows an average depth of 7 feet and an area in cross section of 2,700 feet. With this area some idea of the velocity of the current may be conceived from the fact, that this river has an average fall of 54 feet per mile.

Instructions to have the pier rip-rapped again, and the bridge put in thorough repair were issued and work was begun in February and finished 10th April, 1895,

at a cost of \$851.86.

In tightening the truss-rods of the two spans so as to give the proper camber, it was found necessary to put blocks between the chord and chord plates. In order to do this the rods had to be let down from the top as far as possible, causing a great deal of extra work. All the bolts in both spans were tightened as well as in the trestle approach. A portion of the railing along the north approach was renewed, it having been carried away piecemeal by persons unknown and the embankment approaches were levelled and put in proper shape.

Where the scouring occurred around the pier, stone was put in, and the pier riprapped to a proper height with a slope of about 2 to 1. This rip-rap was not

effected in the least by the high water of this year (1895.)

There is a great deal of traffic over the bridge and not the slightest attention is paid to the notices relative to walking over it. In consequence the structure is outrageously abused, so much so, that more or less repairing will be required annually. The bridge is not painted.

POND CREEK BRIDGE.

Pond Creek is the outlet to Lemay's Lake, and flows into the Ottawa River,

half a mile above the mouth of the Gatineau River.

On the 24th of November, 1894, a contract was entered into for the building of a bridge 235 feet long over all and 20 feet wide over the creek, for a bulk sum of \$2,490. During the progress of the work it was found necessary to drive some of the piles in the approaches to a greater depth than had been anticipated and specified in the contract. It was also found necessary to place two double rows of longitudinals under the floor joists, which the contractors agreed to do and performed for an extra sum of \$650. Sundry alterations and additions were also made, the cost of which aggregated \$285.40.

The bridge was completed and opened to traffic on the 1st of May last. It was the last link in the now continuous highway from Gatineau Point to Hull and

Ottawa.

RIVER ST. LOUIS BRIDGES.

Bridges at Cartier, Que., and over the St. Louis River Feeder.

The village of Cartier is situated in the County of Beauharnois, Que., on the

River St. Louis, 6 miles from Valleyfield.

On the 3rd of June last the construction of a bridge 40 feet clear span, 64 feet long over all and 16.4 feet wide between centres of trussees, was commenced over the St. Louis River, to unite the Ormstown and Larocque Roads. At the same time a small triangular truss 30 feet clear span and 13 feet wide was being built over the St. Louis River feeder at a point about $2\frac{1}{2}$ miles below Lake St. Francis.

These structures were not completed on the 30th June, when \$1,193.01 had

been expended.

SURVEYS AND EXAMINATIONS.

During the year surveys and examinations were made at the undermentioned localities:—

NOVA SCOTIA.

Amaguadees Pond	Cape Breton.
Boularderie, Ross Ferry	Victoria.
Broad Cove Coal Mines	Inverness.
Chapel Cove	
Coal Mine Point	Inverness.
Cow Bay	

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NOVA SCOTIA—Concluded.

Cribbin's Point	Antigonish.
D'Escousse	Richmond.
Georgeville	Antigonish.
Iona	Victoria.
L'Ardoise	Richmond.
Lismore	
Little Bras d'Or	Cape Breton
Louisbourg	do
Margaree	Inverness.
Moydart	Antigonish.
McNair's Cove	do
New Haven	Victoria.
Pictou Island	Pictou.
Port Richmond	Richmond.
Seaside	Inverness.
South Ingonish	Victoria.
Tony Piver	
Tracadie	

NEW BRUNSWICK.

Anderson's Hollow	Alhert
Bear Island	
Buctouche	
Burnt Church	
Burton	Budbury.
Campbellton	Restigouche.
Cape Tormentine	. Westmoreland,
Caraquet	.Gloucester.
Clifton	
Cocagne	
Dalhousie	Restigouche.
Fort Dufferin	
Fredericton	
Gardner's Creek	
Grand Anse	.Gloucester.
Grand Falls,	.Victoria.
Herring Cove	.Albert.
Hillsborough	. do
Hopewell Cape	. do
Kars	.King's.
Milkish	. do
Negro Point	.St. John.
Neguac	Northumberland.
Oromoeto	.Sunbury.
Pointe du Chêne	Westmoreland
Quaco	St. John.
Richibucto	
River Restigouche	
River St. John	
Rocher Bay	
Salmon River	do
Shamfer's Landing	
Shippegan	Gloveston
Somerville	King'a
Springhill	Vork
158	· TOTE
196	

NEW BRUNSWICK—Concluded.

St. Francis	Madawaska.
Stony Creek	Albert.
Tobique	Victoria.
Tynemouth Creek	St. John.
William's Landing	
Boughton Island	ARD ISLANDKing's.
Brae Harbour	Prince.
Campbell's Cove	King's.
China Point	
Halliday's	do
Higgin's Share	Prince

QUEBEC.

Berthier (en bas)	Berthier.
Chateauguay River	Chateauguay.
Coteau du Lac	Soulanges.
Gatineau Point	Ottawa.
Laprairie	Laprairie.
Pointe du Lac	. St. Maurice County.
Rivière des Prairies	Laval.
River St. Louis Bridges	Beauharnois.
River St. Maurice	St. Maurice.
Ste. Anne de la Pocatière	Kamouraska.
Ste. Famille d'Orléans	Montmorency.
St. Laurent d'Orléans	do
Touladie River	

UNTARIO.

Bayfield	
Goderich	
Hamilton	
Honora, Manitoulin Isd	
Kincardine	
Morpeth	
Nation River	
North Bay	
Oakville	Halton.
Owen Sound	
Port Hope	
Port Stanley	Elgin.
Rainy River	Algoma.
Reed's Point	do
River Kaministiquia	
4 40	

ONTARIO—Concluded.

Sable River	Bruce.
Saugeen River	do
Sault Ste. Marie	Algoma.
South Bay, Pelee Island	Essex.
South Bay, Pelee Island Toronto Harbour	York.

INTERPROVINCIAL.

Bryson Bridge	Ottawa River.
Des Joachims Bridge	do
Ottawa and Hull Bridges	

MANITOBA.

Hnausa	.Lake	Winnipeg.
Lake St. Francis		• 0

NORTH-WEST TERRITORIES.

Moose Jaw Creek Valley
Medecine Hat

BRITISH COLUMBIA.

Fraser River.....

During the year 998 official papers were referred by the secretary of the department to this office for report or action. The number of letters received from resident engineers and others amounted to about 9,000 and 4,603 letters were sent out.

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.

APPENDIX No. 4

REPORT

OF THE

COLLECTOR OF REVENUE

DEPARTMENT OF PUBLIC WORKS

1894-95

APPENDIX No. 4.

REPORT OF THE COLLECTOR OF REVENUE.

DEPARTMENT OF PUBLIC WORKS, COLLECTION OF REVENUE, OTTAWA, 8th October, 1895.

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

Sir.-In submitting the following report, which I have the honour of presenting for the information of the Honourable the Minister of Public Works, I have to state that by letter of 13th March last, I was informed by the Chief Engineer that the Honourable the Minister had decided to entrust me with the collection of the revenues derived from graving docks, locks, slide and booms, &c.; in fact the collection of revenues of all kinds pertaining to this department.

I immediately took steps to acquaint myself with the details of the services required of me, and I drafted the instructions to dockmasters and lockmasters which are appended hereto and served each one with a copy, after they had been

approved and countersigned by the Chief Engineer.

By these instructions it will appear that every precaution that could be devised was adopted, not only to secure the regular and faithful accounting by the outside officials for all revenue coming into their hands; but also, for the prompt payment into bank of all moneys which reach my office; so that strict conformity with these instructions will result to the entire satisfaction of the department.

With the exception of Esquimalt Graving Dock, I have examined the books and accounts of the different officers under me; and have much satisfaction in reporting that they have faithfully accounted for all the revenues collected by them

With your permission, I will refer to the different sources of revenue seriatim.

beginning with that from

SLIDES AND BOOMS.

Ottawa District.

The revenue accrued, including interest, during the past financial year was \$52,111,20 or \$12,149.81 less than for 1893-94. The number of saw-logs which passed through the works was 449,208 pieces more than during 1893-94. See statement No. 1; and as anticipated in my report of last year, the quantity of square timber was less than ever before, or only 32,783 pieces as compared with 46,954 in 1893-94, and 66,390 pieces in 1892-93.

The large falling off in the revenue was also anticipated to the extent of \$13,000 in consequence of the reduction of the tolls on the Petewawa, Madawaska and

Gatineau works—the actual reduction was however only \$12,149.81.

Of the revenue of 1894-5. I have much pleasure in stating that all has been

collected, at this date.

Of the dues accrued since 1st July, 1889, there remains, at this date uncollected \$6.903.05 Chaudière boomage, reported to the Public Accounts Committee last session. \$28.42 in the hands of a solicitor and \$379.80 against which Mr. J. R. Booth has an acknowledged account against this department, of which payment was refused by the Auditor General, because certain amounts stand against Mr. Booth, for Chaudière Boomage and Coulonge Slidage, which have been reported to the Public Accounts Committee with a view to having them written off.

These items make a total of \$7,311.27 details of which will be found in state-

ment No. 3 herewith.

Of the dues accrued prior to 1st July, 1889, the officers of the department having reported that the claim of Messrs. Perley & Pattee for remission of Coulonge slidage of 1880 was untenable, this firm paid the amount, \$419.10, in September last, which leaves the amount still uncollected of these accounts, \$56,805,61, see statements. Nos. 4 and 5 for details, which I may mention were also laid before the Public Accounts Committee.

In short, the accounts for the Ottawa district were a	s fo	llo	ws:	
Dues accrued during the year 1894-5 including in Of which there was collected during the	iter	est	\$ 52,111	20
year \$51,	185	69		
Of which there was overcharges written off.	187	22		
Of which was collected since 1st July 1895.	738	29	\$ 52,111	20
The gross collections were as follows:—				
Dues of 1894-95 \$51,0)47	56		
	729			
	396			
do interest	138	13	\$52,311	52
The amounts outstanding uncollected on 30 June last	we.	re :	as follow	s:
Dues accrued prior to 1st July 1889, when coll was transferred to this department, inc	ecti ludi	ou ng		
dues at Quebec		•••	\$57,224	75
Accrued during year ending 30th June 1890			6,903	
do do 1891			28	
do do 1894				
do do 1895	•• •••	• • •	738	29
			\$65,274	31
Of which there has been collected	••••	••••	1,157	39
Leaving outstanding at this date		•••	\$64,116	92

Herewith are the statements above referred to viz.:—

No. 1. Statement of the number of pieces of square timber, saw-logs, &c., which passed through the Ottawa District Works year ending 30th June, 1895.

No. 2. Statement of dues accrued from each of the slides and works, during the

year ending 30th June, 1895.

No. 3. Statement of dues accrued since 1st July, 1889, outstanding on 30th

September, 1895.

No. 4. Statement of dues accrued prior to 1st July, 1889, outstanding on 30th September, 1895.

No. 5. Statement of slide dues outstanding at Quebec, 30th June, 1889, uncollected 30th September, 1895.

St. Maurice District.

The revenue for 1894-95 amounts to \$14,306.53, exclusive of \$8.54 interest, all of which was collected during the fiscal year. Although the number of pieces that passed through the works was larger than in 1893-94, yet the revenue was \$75.29 less than in that year. This is accounted for by the much larger proportion of pulp logs or logs under 10 inches in diameter which were brought down in consequence of a very large reduction in the provincial dues, but for which a very large partsof these small logs would have been left as formerly to rot in the woods and make food for fires, besides yielding no revenue whatever to either federal or provincial treasury. 164

This year again the business is vastly increased, the number of pieces passing the works being almost a million and a quarter, nearly one-third of which will be pulp logs; nevertheless, I expect the revenue will considerably exceed \$20,000, or be the largest on record.

Of the arrears outstanding when I took charge of this district, there was still uncollected on 30th June last \$14,481.49, being \$1,440.90 less than on same date previous year, which sum was collected through the Department of Justice in August and September, 1894.

Statement No. 6 of details of outstanding dues is herewith; it was also laid

before the Public Accounts Committee last session.

Saguenay District.

During the past fiscal year there was no revenue accrued from these works. In May last, I went to Chicoutimi and from a thorough examination of their culler's books found that we had overcharged Messrs. Price Bros. & Co. \$913.98. The department approving of my report recommending this sum to be written off, Messrs. Price Bros. & Co. paid the sum of \$9,148.74 within the financial year and

closed the account.

I have much pleasure in stating that there is nothing now due from these works.

Newcastle District.

The accompanying statement, No. 7, shows \$6,058.34 yet outstanding on account of these works.

This statement was submitted to the Public Accounts Committee and \$3,521.19 of it recommended to be written off.

With regard to the balance of \$2,537.15 the legality of the charges being questioned, it has been submitted to the Department of Justice for decision.

To summarize—The actual collections from slides and booms during the financial year were as follows:—

do	Ottawa district	15,755	97
	Total collections	\$77,216	23

The output of square timber this winter, in the Ottawa district will be about

the same as last year or perhaps a little less.

The cut of saw-logs may not be quite as large as that of last winter, which was unusually favourable for lumbering, but owing to the very low water in the smaller streams, several large lots are hung up, which will tend to reduce the quantity to be cut this year.

On the St. Maurice the quantity will be about the same as last year.

On the Saguenay no logs will be made that would come through our works.

GRAVING DOCKS.

Lévis.

The revenue for the past year was \$13,995.19, being \$684.25 more than the preceding year. For full details see statement No. 8 herewith. It will be seen that compared with 1893-4, the dock was occupied for 114 days as against 129 days in the latter year, but the tonnage of the vessels docked was 14,835 tons in 1894-5, as against 5,117 ton in 1893-4.

Kingston Graving Dock.

The total revenue from this work for the financial year was \$2,878.23, of which \$427.90 should be refunded being the difference between the charges collected under the old tariff and the rates established from 15th April, 1895, by Order in Council of 15th June, 1895, which reductions were as follows:—

Vessels 100 to 500 tons 20 cts., changed to 200 to 500 tons 10 cts., all tonnage over 500 tons 10 cts., changed to 5 cts. per ton. Lay days 7 cts. per ton, changed to

31 cts per ton.

These changes were made because it was represented that the original rates were too high and drove away business and that a reduction would cause the dock to yield a larger revenue, it would be hardly fair to venture an opinion yet, nevertheless, I cannot help submitting that, if the dock was occupied for the whole season, by vessels of small tonnage, as is most frequently the case, it would not give nearly enough revenue to meet the expense of maintenance.

It will be seen from detailed statement No. 9, herewith, that the revenue was as above stated \$2,878.23, or \$4,574.78 less than last year at the same rates or \$5,002,68 less than 1893-94, when the overpayments above referred to are deducted.

The tonnage of vessels docked was $10,493\frac{1}{2}$ tons as against $19,896\frac{1}{2}$ tons in 1893.4.

Esquimalt Graving Dock.

The total revenue collected for 1894-95 was \$6,320.25 exclusive of \$18 collected for old rope yarn sold to paper mill. The revenue for the previous year was \$10,786.70 or \$4,466.45 more than 1894-95. See statement No. 10 herewith.

The tonnage of vessels docked was 21,573 tons in 1894-95, and 10,949 tons in 1893-94. In this connection it should be borne in mind that, of all the time the dock was occupied from 28th July, to 1st December, 1894, with the exception of two days, it was used by vessels belonging to the B itish Government, on which no dockage dues are charged, only working expenses being collected for them.

It having being represented to the department that the charges under the regulations were so high as to be almost prohibitory, an Order in Council was passed

23rd March last, reducing the charges as follows:—

ON VESSELS.

1,000 tons, \$400 per day, and 10 cents per ton each subsequent day, reduced to \$300 and 5 cents.

1,000 to 2,000, \$500 per day, 8 cents per ton each subsequent day, reduced to

\$350 and $4\frac{1}{2}$ cents.

Above 2,000 tons, \$600 per day, and 6 cents per ton each subsequent day, reduced to \$400 and 4 cents for 2,000, and 2 cents for each ton over 2,000.

LOCKS.

Rivière du Lièvre Lock.

The revenue from this source for the past fiscal year was \$404.30 or \$128.29 than less 1893-94.

I have been prevented by press of business from compiling the statistics in relation to this work, which I would have desired to present with this report.

River Yamaska.

From this work the revenue was \$357.78 or \$135.29 more than for the year 1893-94. As the figures given in the last departmental report are for the season of pavigation of 1893, those below refer to the like period of 1894.

The first vessel passed through the lock on the 21st of April and the last on the

18th November, 1894.

The number and description of the vessels which have passed through the lock during the season 1894, were as follows:

Steam vessels	
Pleasure boats	5 8
-	
Total	292

To recapitulate—the total collections from all the works in my charge were as follows:—

4.6	Slides and booms \$77,216 Graving docks 23,193 Locks 1,436	67
	Total\$101,846	27

In conclusion I have to thank all the officials with whom my new duties have brought me in contact, for the uniform courtesy extended and valuable assistance so cordially rendered to me in familiarizing myself with the work.

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

> ED. T. SMITH, Collector Public Works Revenue.

DEPARTMENT OF PUBLIC WORKS, OTTAWA, 17th April, 1895.

Instructions to Dockmasters.

1. All correspondence, returns, &c., relating to revenue are to be addressed to the Collector of Revenue, Department of Public Works, Ottawa.

2. In addition to the entry book, a cash book must also be kept showing date of entry, name of party paying charges, number of voucher and amount received.

3. All collections to be mailed, in registered letter, to the collector within the

first three days of the month following that for which returns are made.

4. Particular care is requested to be taken in making out the triplicate vouchers which must correspond in every particular with the entry book and must all bear the signature of the owners or agents of vessels. The original and duplicate vouchers must accompany each remittance.

5. All moneys received should be deposited in bank to the credit of the Honourable the Receiver General on the day received and a bank receipt in duplicate with draft attached obtained therefor. Should a payment be received after bank hours, the bank receipt should bear date of the next legal day following the date of

entry in cash book.

6. If within the first fifteen days of the month an acknowledgment of the receipt at Ottawa of returns is not had, the dockmaster should write the Chief Engineer, Department of Public Works to that effect, so that should a letter go astray, no unnecessary time may be lost in endeavouring to recover it.

Approved

LOUIS COSTE, Chief Engineer. ED. T. SMITH,

Collector of Revenue.

DEPARTMENT OF PUBLIC WORKS, OTTAWA, 17th April, 1895.

Instructions to Lockmasters.

1. All correspondence, returns, &c., relating to revenue are to be addressed to the Collector of Revenue, Department of Public Works, Ottawa.

2. Ship reports received during each week, to be mailed to me on Saturday

night.

- 3. All collections to be remitted by registered letter on the first day of the month, unless it happens to fall on Sunday, than in that case on the second day of the month.
- 4. A cash book shall be kept—showing date of payment—name of vessel—number of ship report and amount of tolls thereon.

5. Particular care is to be taken in filling out triplicate report and having it

signed precisely same as original and duplicate.

6. A bank certificate of deposit to the credit of the Receiver General, will be mailed to lockmaster for the amount remitted by him, should such receipt fail to reach him by the 10th of the month following that for which remittance has been made, the lockmaster must write to the Chief Engineer, Department of Public Works, stating that such receipt has not reached him, so that should any letters go astray inquiries may be instituted as soon as possible.

7. The bank certificates must be filed and kept in regular order in the lock-

master's office.

Approved

LOUIS COSTE,

Chief Engineer.

ED. T. SMITH,

Collector of Revenue.

No. 1.—Statement of the number of pieces of square timber, saw logs, &c., that passed the Government slides and works on the River Ottawa and its tributaries, during the fiscal year ended 30th June, 1895.

Square timber	32 783	nieces
Square timber.	3.658.317	do
Boom and dimension timber	105.533	do
Cedars	16,768	do
nanway ties	160.317	фo
Fence posts	24,695	do
Shingle logs	6,978	do
Tamarack logs	8	do
Total	4.005.399	do
also 7,533\frac{1}{3} cords pulp wood. do 100 do shingle wood.	-, 000,000	-

The revenue accrued on the above was \$51,973 07.

EDWD. T. SMITH,

Collector of Slide and Boom Dues.

DEPARTMENT OF PUBLIC WORKS, OTTAWA, 30th September, 1895.

No. 2.—Statement showing the dues accrued from the River Ottawa and its tributaries, during the fiscal year ended 30th June, 1895.

Name of River.			-	Tota	.l.
		\$	cts.	\$	cts
River Ottawa		5,513			
Uhenaux boom	1	9,224	52	15,737	
River Petewawa			• • • • •	12,251 9.797	
do Coulonge	١			6.517	
do Dumoine	l			980	58
Black River		· · · ·	• • • • •	2,106 4,581	
tyter Gaumeau		• • • •	• • • • •	4,081	40
Total				51,973	3 07

EDWD. T. SMITH,

Collector of Slide and Boom Dues.

DEPARTMENT OF PUBLIC WORKS, OTTAWA, 30th June, 1895.

No. 3.—Statement of Slide and Boom Dues accrued from the Ottawa River Works since 1st July, 1889, outstanding on 30th September, 1895.

	* `
Веманкя,	2,561 69 2,056 96 1,203 26 Board. Should be written of. 167 66 913 48 28 42 168 10 169 80 169 10 167 10 167 10 167 10 168 11 169
Total outstanding.	\$ cts. 2,561 69 2,066 96 1,203 26 167 66 913 48 28 42 379 80 7,311 27
Ordinary Dues.	\$ cts. 28 42 379 80 408 22
Chaudière Boomage in Suspense.	\$ cts. 2,561 69 2,066 96 1,203 26 167 66 913 48
Years to which Dues belong.	889-90. 889-90. 889-90. 889-90. 889-91.
NAMR.	J. E. Booth The Bronsons & Weston Lumber Co Perley & Pattee. Wm. Mason & Sons Pierce & Co. J. E. Booth J. R. Booth J. R. Booth J. R. Booth J. R. Booth J. R. Booth J. R. Booth J. R. Booth J. R. Booth J. R. Booth J. R. Booth J. R. Booth J. R. Booth J. R. Booth J. R. Booth J. R. Booth

DEPARTMENT OF PUBLIC WORKS,
OTTAWA, 30th September, 1895.

ng gu	
outstand	
1889,	
1st July,	
prior to	r. 1895.
accrued I	entember
Works	n 30th S
Slides and	lected o
Ottawa S	ning nne
the	'eme'
fron	and a
Soomage	1895
and E	h Inn
of Slidage and Boomage from the Ottawa Slides and Works accrued prior to 1st July, 1889, outstanding	, ,
STATEMENT 0	
. 4.—	

Remarks.	Insolvent. Overcharge. Insolvent. do do do do do do do do do d
Year to which Dues belong.	1873 1873 and 1873 1873 and 1874 1873 and 1874 1874 and 1875 1874 and 1875 1874 and 1875 1871 to 1874 1861, 1862, 1864, 1863 1875 to 1877 1876 to 1877 1877 to 1877 1878 to 1877 1879 to 1881 1889 and 1883 1881 to 1885 1881 to 1885
Total Duce outstand- ing on 30th Sept., 1895.	\$\begin{align*} \text{s.g.} &
Other Slide and Boom Dues dis- puted.	88 88 88 88 88 88 88 88 88 88 88 88 88
Chaudière Boomage in Suspense.	8 cts. 9,871 93 8,889 85 8,196 73 1,461 20 1,461 20 413 85 258 85
Bad and Doubtful Debts.	\$\\ \frac{\partial}{3} \tag{3} \\ \frac{\partial}{3} \\ \frac{\partin}{3} \\ \frac{\partial}{3} \\ \frac{\partial}{3} \\ \part
By Whom Due.	John & Wm. McLean James Yuill John Rowan Lemieux & Charette Taillon & Lapierre Mosgrove & McHarry W. C. Wells Jutresne & McGarity —Walton Smith A. H. Baldwin Hon. James Skead Batson & Currier A. F. A. Knight James Walter R. Camubell & Son. James G. Bryson Costello Brotchers N. E. Cormier S. & W. Gonroy R. & W. Gonroy R. & W. Cornoy R. & W. Cornoy J. R. Booth J. R.

Collector of Slide and Boom Dues.

EDWARD T. SMITH

No. 4.—Statement of Slidage and Boomage from the Ottawa Slides and Works accrued prior to 1st July, 1889, outstanding 30th June, 1895, and remaining uncollected on 30th September, 1895—Concluded. ... Counterclaim for damages by breaking of Coulonge bxonu. Remarks. Overcharge. Year to which Dues belong. 1886. 1887. 88 55,653 90 Total Dues outstand-ing on 30th Sep., 1895. cts. ಜ 8 Other Slide and Boom Dues dis-puted, 651 cts. 4.33 31,009 87 Chaudière Boomage in Suspense. 23,992 95 Bad and Doubtful Debts. By Whom Due. J. & G. Bryson B. Caldwell & Son

DEPARTMENT OF PUBLIC WORKS, OTTAWA, 30th September, 1895.

No. 5.—Statement of Outstanding Slide dues, Ottawa District, bonds for which were sent to Quebec for collection.

Name.	From 1860.	From 1861.	Total.
Hon. James Skead	\$ cts. 245 00	\$ cts. 210 00 696 75	\$ cts 455 00 696 75
	245 00	906 75	1,151 75

These 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 till 2nd August, 1869, on the 5th idem, Messrs. Skead and

Mair were notified that the department could not recognize their claim.

To the best of my knowledge, this decision was never communicated to the collector of slide dues, consequently their accounts remained in abeyance. Since then, both parties died, and I believe both were insolvent at the time of their death.

DEPARTMENT OF PUBLIC WORKS, OTTAWA, 30th September, 1895. EDWARD T. SMITH, Collector of Slide and Boom Dues.

ST. MAURICE DISTRICT.

No. 6.—Statement of Slide and Boom Dues, from St. Maurice Slide and Works, outstanding on the 30th June, 1895, and remaining uncollected on the 30th September, 1895.

Name.	Year to which dues belong.	Amount.	Tota	1.	Remarks.
		\$ cts.	\$	cts.	
George Baptist, Son & Co. do do do. do do. do do. do do. do do. do do. do do. do do. do do. Ross, Ritchie & Co. do do do do. Alexander Baptist. Wm. Ritchie & Co. Ritchie Brothers. do G. B. Hall. T. E. Normand. Trefflé Biron.	1888 1878 1883 1884 1886 1887 1879 1888 1889 1886 1887 1890	469 95 2,110 62 1,696 18 293 69 165 80 118 50 4 28 3,072 84 2,173 68 28 96 1 62 4 38	49 14	48 96 35 14 34 28 92	Have counter claim 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. Of this amount \$754.20 is claimed to be overcharged. This amount is composed of overcharges in 188 and 1887 of \$842.76 and overpayment in 188 of \$205.38. Insolvent. Claims that this balance is an overcharge. Would cost more to collect than it is worth.

DEPARTMENT OF PUBLIC WORKS, OTTAWA, 30th September, 1895. EDWARD T. SMITH, Collector Slide and Boom Dues,

NEWCASTLE DISTRICT.

No. 7.—STATEMENT of slide and boom dues accrued from the Newcastle and Trent River Works outstanding on the 30th June, 1895, and remaining uncollected on the 30th September. 1895.

Name.	Year to which dues belong.	Amount	. Remarks.
		\$ ct	s.
T. G. Hazlett	1981 1989 1884 and 1889	885 2	5
J. M. Irwin.	1882 1883 1885 and 1888	698 4	
D. Ulliott.		547 6	
George Hilliard	1877 and 1882, 1883 and 1886	354 1	
Greene & Ellis	1880 and 1883, 1885, 1888	201 2	"
Oreene de Emis	and 1889	157 0	1 .
Irwin & Boyd		59 7	
Thomson & McArthur	1880	52 7	
A. W. Parkins		• •	- 40
A. W. I alkillo	1891	65 9	2
The Dickson Estate, T. G. Haz-			_
lett, agent	1883	137 5	0
Jabez Thurston	1882	12 5	
Alfred McDonald	1888	40 8	
John Parkins	1889	13 0	0
McDougall & Ludgate	1879	65 0	7 Insolvent.
Bigelow & Trounce	1882 and 1885	216 2	
R. & J. Strickland	1882, 1883, 1885 and 1887.	215 0	
Gilmour & Co		690 5	
The Rathbun Co	1893	1,846 5	
		6,058 3	4

EDWARD T. SMITH, Collector of Slides and Boom Dues.

DEPARTMENT OF PUBLIC WORKS,
OTTAWA, 30th September, 1895.

THE DRY DOCK AT LÉVIS.

STATEMENT of Dues and other charges collected during the Year ending 30th June, 1895.

N C W and Darked	ď	Period of Dockage.		Dockage	Other	Total.
Name of Vessel Docked.	Tonnage.	From	То	Charges.	Charges	10tal.
		1894.		\$ cts.	\$ cts.	\$ cts
SS. Chollerton. SS. Amyranthia. Govt. Str. Constance. Dredge No. 12. do 11. SS. Hestia.	2,650 3,933 184 120 120 3,790	June 17 July 11 Sept. 7 Nov. 12 do 18 do 20	July 7 Sept. 1 do 13 Nov. 15 do 19 do 30	2,260 00 6,890 32 355 20 318 00 306 00 1,658 00		2,260 00 6,890 32 355 20 318 00 312 00 1,664 00
DO. ILUSTIA	0,,00	1895.	40 00	2,000 00		-,00-00
Turret Bay Turret Crown	2,211 1,827	May 27 June 9	May 31 June 22	776 88 1,418 79		776 88 1,418 79
				13,983 19	12 00	13,995 19

THE DRY DOCK AT KINGSTON.

STATEMENT of Dues and other charges collected during the Year ending 30th June 1895.

Name of Vessel Docked.	e.	Period of I	ockage.	Dockage	Other	Total.
	Tonnage.	From	То	Charges.	Charges	10001.
Str. Jessie Bain Tug Reginald Tug Thompson Barge John Gaskin Str. Glengarry Joo Str. Orion Str. Cibola Tug Reginald Str. Chicora Tug D. D. Calvin Tug Walker	44 37 186 26 185 5 487 438 590 99 961 47 186 26 930 50 749 53 138 58	1894. Aug. 7 do 9 do 22 Sept. 7 do 14 Sept. 26 do 29 Oct. 10 do 15 Nov. 2 do 20 1895.	Aug. 7 do 10 do 23 Sept. 8 do 15 do 17 do 29 Oct. 2 do 11 do 19 Nov. 3 do 22	\$ cts. 20 00 37 25 37 10 97 40 87 60 191 84 280 76 37 25 208 13 124 95 47 72	\$ cts. 5 00 15 50 10 00 10 00 10 00 30 50 5 00 24 00	\$ ct. 20 00 42 25 52 66 97 46 92 66 10 00 201 8- 311 20 42 232 11 124 9 47 75
Str. Glengarry. Tug Hall, Barge Duluth Str. North King Str. Campana Tug Walker Tug McNaughton. Tug Coaster Barge Wheat Bin. do Cornwall. do McCarthy Str. Empire State. Str. Saguin.	438 366 872·95 1,285 138·58 137·19 320 585·96 254 379·74 818·07 10,4934	April 13 do 17 do 22 May 1 do 15 do 18 do 24 do 30 June 3 do 10 do 15	April 16 do 21 do 23 May 14 do 18 do 18 do 30 June 4 do 15	50 66 150 06 174 59 62a 01 27 72 27 44 	-	50 6 155 0 174 5 661 0 32 7 27 4 3 0 64 0 149 6 50 8 102 8

THE DRY DOCK AT ESQUIMALT.

STATEMENT of Dues and other charges collected during the Year ending 30th June, 1895.

Name of Vessel Docked.	ni.	Period of Dockage.		Dockage	Other	(F) 4 2
Name of Vessel Docked.	From To		То	Charges.	Charges	Total,
		1894.		\$ cts.	\$ ets.	\$ cts
H.M.S "Hyacinthe" H.M.S. "Royal Arthur" H.M.S. "Satellite" Ship "Lanristan' H.M.S. "Pheasant". Str. "Costa Rica". Str. "Lorne"	1,420 7,700 1,420 2,245 755 1,893	July 18 Aug. 2 Sept. 11 Oct. 5 Nov. 13 Dec. 10	July 28 Aug. 10 Sept. 20 Oct. 7 Dec. 1 do 18		3 00	428 50 720 01 439 71 738 00 767 43 1,641 60
Str. "Quadra"	573 3,380 2,097	1895. April 16	April 20 May 8 do 11	580 00 Water 508 00 482 00	10 20 1 20	580 00 1 20 518 20 483 20 6,320 25

EDWARD T. SMITH, Collector of Public Works Revenue.

DEPARTMENT OF PUBLIC WORKS, OTTAWA, 8th October, 1895.

APPENDIX No. 5

LIST

OF SOME OF THE

ACTS OF PARLIAMENT PASSED AT THE SESSION OF 1895

HAVING REFERENCE TO THE

DEPARTMENT OF PUBLIC WORKS

OR WORKS UNDER ITS CHARGE

APPENDIX No. 5.

List of some of the Public Acts of the Parliament of Canada, passed at the Fifth Session of the Seventh Parliament, closed by prorogation on the 22nd day of July, 1895, and having reference to the Public Works Department or works under its charge. (58-59 Victoria.)

Subject.	Full Title of the Statute.	Chapter.	Page in statute book.
Sums granted to Her Majesty for the financial year ending 30th June, 1896, and the pur- poses for which they are granted.	service, for the financial year ending the 30th June, 1896,	2	17
Respecting the Civil Service Act	An Act to amend the Civil Service Act	14	65
For the amendments of the Civil Service Act.	An Act further to amend the Civil Service Act	15	67
As to the sale or leasing of public works not required for public purposes.	An Act further to amend the Public Works Act	36	125
Construction and repairs of buildings and other works in the penitentiaries to be under the control of the Minister of Public Works.		42	141

N. B.—By an Order in Council passed on the 27th June, 1894, rules and regulations have been adopted for the management, maintenance, &c., of the Government Timber Slides and other works on the Ottawa River and tributaries, see page xc. of 58-59 Victoria (1895).

J. A. CHASSÉ.

DEPARTMENT OF PUBLIC WORKS, OTTAWA, 25th November, 1895.

APPENDIX No. 6.

STATEMENTS

SHOWING

- 1st.—CONTRACTS LET BY THE DEPARTMENT OF PUBLIC WORKS OF CANADA, FROM THE 30th JUNE, 1894, TO THE 30th JUNE, 1895.
- 2nd.—PROPERTY PURCHASED OR SOLD BY THE DEPARTMENT OF PUBLIC WORKS, DURING THE FISCAL YEAR ENDED 30th JUNE, 1895.
- 3rd.—PROPERTY LEASED TO AND BY THE DEPARTMENT OF PUBLIC WORKS, DURING THE FISCAL YEAR ENDED 30th JUNE, 1895.

APPENDIX No. 6.

OTTAWA, 25th November, 1895.

Sir,—I have the honour to inclose the following statements, which are required for insertion in the annual report 1894-95, namely:

No. 1.—Statement of contracts let by this department during the fiscal year

ended 30th June last.

No. 2.—Statement of property purchased and sold by this department during

the same period.

No. 3.—Statement of property leased to and by this department also during the same period.

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

J. A. CHASSÉ.

E. F. E. Roy, Esq., Secretary of the Department of Public Works of Canada, Ottawa.

No. 1.—Contracts let by the Department of Public Works of Canada, from the 30th June, 1894, to the 30th June, 1895.

				•			
Works.		Names of Contractors.		Date of atract.	Amount.		
	Public Buil	DINES.				*	cts.
Government 1	House, Parliam Buildin	ent and Departmental gs.					
coal Parliament and snow Parliament and ice Parliament Bui Parliament Gro ment stone f Rideau Hall—I	Departmenta Depar	ar boilers n A. Macdonald's monu ry Duse—Hot water heating apparatus. Electrical appliance Removal of snow Supply of ice	J. W. McRae. Wm. Moore	Nov. Feb. Sept. May Nov. Sept. Oct. Nov.	20, 1894 6, 1895 28, 1894 21, 1894 24, 1894 23, 1894	465 p. block 1,605 900 1.785 4,200 Sched. r.	00 03½ 00 00 00 00 ates.
Amherst, post Annapolis Antigonish Arichat, public Baddeck, post Dartmouth do	do do buildings office	do do do do do do do	The Cumberland Ry. & Coal Co The Canada Coal & Ry Co James Kenna do Burchell Bros The Intercolonial Coa Mining Co.	do Aug. do do	12, 1894 12, 1894 17, 1894 17, 1894 23, 1894 20, 1894	159 108 264 90	

No. 1.—Contracts let by the Department of Public Works, &c.—Continued.

Works.	Names of Contractors.	Date of Contract.	Amount.
Public Buildings—Continued.			\$ ets.
Nova Scotia—Concluded.			
Halifax, public buildings—Supply of coaldo Asst. Receiver General's Office—Supply of coal Lunenburg, post office—Supply of coaldo do Fittings	S. Cunard & Co Burchell Bros The Oxford Furniture		562 04 159 35 162 50
Pictou, erection of a post office. do public buildings—Supply of coal	James Desmond Rhodes, Curry & Co. James Kenna C. F. Routledge. The Cumberland Ry.	Jan. 28, 1895 Aug. 17, 1894 do 17, 1894 do 8, 1894 do 17, 1894 do 20, 1894	1,800 00 350 00 129 02 147 50 10,275 00 108 35 200 00
Windsor do do	& Coal Co	Nov. 12, 1894 Aug. 17, 1894 Nov. 12, 1894	64 58 157 50 200 00
Prince Edward Island.			
	Chas. Lyons	Aug. 18, 1894 do 17, 1894 do 17, 1894 do 18, 1894	464 28 42 30 40 00 220 29
New Brunswick.			
Chatham do do	Chs. Powell	Sept. 3, 1894 Aug. 21, 1894 do 20, 1894	351 09 43 42 361 48
Dalhousie do Supply of coal	Co	April 4, 1895 Sept. 3, 1894 Aug. 16, 1894	2,500 00 200 19 271 09
Portland do do	Ry Co R. R. Call R. P. & W. F. Starr Magee Bros R. P. & W. F. Starr	Aug. 20, 1894 do 21, 1894	208 26 360 90 30 82 481 30 1,855 01
sidewalks	Richard Magee	June 18, 1895 Aug. 20, 1894 do 21, 1894 do 14, 1894	722 00 146 90 170 66 241 50
Quebec.			
Fraserville do do	T. G. Brigham. B. J. Smith. Nap. Dion. J. G. Butterworth & Co. T. G. Brigham. J. O. Labrecque,	do 27, 1894 do 24, 1894	163 41 225 75 296 00 134 48 62 00
Lachine do do Laprairie do do Montreal, Public buildings do Quebec, Citadel do do Public buildings do do Public buildings do do Marine agency do	Cousineau & Co. T. Gariepy. Charlebois & Co. Masson & Asselin Geo. W. Webster & Co. Madden & Ellis do do	do 7, 1894	24 03 87 72 144 08 3,360 05 249 89 2,193 97 267 50
Quebec, post office—Alterations and additions to heat- ing apparatus	Wm. Ford C. G. Beaulieu	Sept. 22, 1894 May 14, 1895	1,790 00 6,980 00

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No. 1.—Contracts let by the Department of Public Works, &c-Continued.

	Wo	orks.		Names of Contractors.		of tract.	Amou	nt.
Pu	BLIC BUILDI	NGS-Cor	ntinued.				\$	cts.
	Quebec—C	oncluded	l .			ŀ		
St. Hyacinthe	do	do	tion of stone fence	Evans Bros	Aug.	28, 1894 14, 1894		$\begin{array}{ccc} 2 & 63 \\ 1 & 32 \end{array}$
•	ost office—Su			Paquet & Godbout J. O. Labrecque &		15, 1895	1,55	0 00
St. Johns St. Lin Sherbrooke Sorel Three Rivers,	do alte do alte do sur do public build custom-hous	do erations a epply of co do lings—Su e—Galva	and repairs	Cousineau & Co Sinnard & Godin O. Pelletier Lucke & Mitchell H. C. Charland & Co. Zephirin Marchand V. Charbonneau	Aug. June Aug.	28, 1894 15, 1894 12, 1895 15, 1894 14, 1894 30, 1894 30, 1894	17 35 26 12	7 94 3 25 0 00 9 00 1 80 1 64 p. s.
	Ont	ario.						
Amherstburg Barrie Belleville Berlin Brampton	do do do do do	do do do do do				20, 1894 15, 1894 18, 1894 15, 1894 16, 1894 14, 1894	15 25 36 16	0 00 5 25 60 00 60 00 64 36 65 00
	do do	do do		The Huffman, Gibson Coal Co Geo. E. Shields	"	15, 1894 17, 1894		6 30 87 50
Carleton Place Chatham		do do		Alexander Steele The Hufiman, Gibson		20, 1894		4 00
Cobourg Cornwall Galt Gananoque pu Goderich post Guelph Hamilton Kingston pub Lindsay post London publi Napanee post Orangeville Orillia Ottawa, exper do Nati	coffice do do do lic building office coffice do do rimental farr onal Art Ga Building—Co gevin Block, Sisheries M Cartier Squar	do do do do do do do do do do do puildin dlery and llery and vering sl Post Off re-Remo	g—Supply of coal i Fisheries Exhibit oping roofs. ice, Geological and Printing Bureau oval of snow.	Wm. Lee. Frank Frank Thomas Myles & Son. Breck & Booth The Rathbun Co. Hunt Bros. J. R. Dafoe. James Morrison. R. J. Sanderson T. G. Brigham Douglass Bros. W. H. Cuddie.	Sept. Aug.	15, 1894 16, 1994 18, 1894 17, 1894 20, 1894 16, 1894 16, 1894 13, 1894 15, 1894 16, 1894 23, 1894 23, 1894 24, 1894 27, 1894	24 19 19 18 11 11 10 10 10 11 11 11 11 11 12 12 12 14	37 46 17 05 00 62 60 00 51 90 37 20 76 03 34 90 34 91 19 56 27 85 72 50 94 67 54 55 67 00
Pembroke, po	ost office—Su , public buil	upply of c	oal	Dunlop & Co The Rathbun Co The Huffman, Gibso	Aug.	25, 1894 16, 1894		97 03 21 75
Port Hope, port Prescott, pub St. Catherine St. Thomas	ost office—Solic buildings s, post office do s, post office	upply of do do doErectic	coal	Coal Co Brown & Henning Isaac W. Plumb Eli Gadsby Ellison & Lewis.	Aug. do do do	15, 1894 15, 1894 22, 1894 20, 1894 25, 1894	2 2 2	78 15 20 00 62 50 50 45 12 00
Smith's Falls	, post office— public build st office—Sup do Ad	Fittings ding—Fu pply of e	on the state of th	McKinley & North wood	Dec. April June Augt	27, 1895 13, 1894 5, 1894	1,6 3 3 10,0	37 00 65 00 08 00 62 46 90 00 10 00

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.			
Toronto, public buildings—Supply of coal	W. T. Stewart Geo. P. Wagner, Sum-	Sept. 28, 1894	2,184 91 1,100 00
do new drill hallConstruction of sub-floor in basement	mers & Harris. The Reid Bros. Manu-	Oct. 29, 1894	7,035 00
do examining warehouse—Repairs to floor do drill hall—Painting, glazing, lettering and	facturing Co John Kane	June 19, 1895 do 17, 1895	640 00 1,773 00 350 00
do drill hall—Ventilating pipesdo do Carpenter's worksdo do Bowling alleys	Fidde's & Hogarth J. Wilson The Reid Bros. Manufacturing Co	do 20, 1895 do 20, 1895	1,118 00 1,175 00 1,100 00
Trenton, post office—Supply of coal	Chas. Crowe	Aug. 21, 1894	135 00 187 43 388 30
${\it Manitoba}.$			
Brandon, post office—Supply of coal	John Hanbury	Aug. 27, 1894	568 75
North-west Territories.			
Calgary, public buildingsSupply of coal	The Calgary Cartage	N 0 1004	0.4.00
Lethbridge, public building—Hot air heatin, apparatus Moose Jaw, court-house—Supply of coal	E. A. Baker & Co	do 7, 1894 Aug. 23, 1894 Nov. 12, 1894	341 62 1,408 00 138 75 1,993 00
	Paul, Knight & Mc-	Aug. 18, 1894	163 00
do court-house—Heating apparatus	Kinnon	do 21, 1894	1,117 78
Wolseley do do	Bickle	,	1,935 00
do do Supply of coal			937 00
British Columbia.	Kinnon	Aug. 21, 1894	150 15
Victoria, military building—Officer's W. C. and fuel room	Geo. Glover Elford & Smith		829 00 198,765 00 2,680 00
HARBOURS AND RIVERS.			
Nova Scotia.			
Bass River-construction of wharf	John McMillan	Dec. 28, 1894	2,840 00
Prince Edward Island.			
Rustico—construction of new block and repairs to wharf		Mar. 12, 1895	4,276 00
New Brunswick.			
Pointe du Chêne—closing breach between new and old wharfs	do	July 27, 1894	,
breakwater18	do 6	Oct. 22, 1894	1,200 00

No. 1.—Contracts let by the Department of Public Works, &c.—Continued.

Works.	Names of Contractors.	Date of Contract.	Amount.
HARBOURS AND RIVERS—Concluded.			\$ cts.
Quebec.			
Baie St. Paul—extension of wharf Belœil—improvement in channel in Richelieu river Hull—Pond Creek—bridge and pile trestle roadway. Philipsburg—construction of a landing pier St. Thomas de Montmagny—dry wall on Rivière du Sud.	Viau & Lachance Olivier Letevre	April 11, 1895 Oct. 31, 1894 July 29, 1895	5,595 00 3,373 00 2,490 00 9,942 00 4,480 00
Ontario.	or ar zonanou	21, 1001	1,100 00
Ottawa River—Lower Narrows above Pembroke—removal of shoals Owen Sound—sheet pile revetment Port Dover—dredging Thessalon—construction of pier	W. J. Poupore. D. Porter & J. Canan. The U.S. & Ont. Steam Navig. Co	Oct. 19, 1894 Nov. 5, 1894	7,000 00 18,638 00 15,000 00 8,328 00
${\it Manitoba}.$			
Hnausaconstruction of a pier Vessels, Dredges and Plant.	Peter McVeigh	Mar. 5, 1895	5,870 00
New spoon dipper dredge Telegraph and Signal Service.	Carrier, Lainé & Co	Jan. 22, 1895	40,000 00
Lethbridge and Cardston—construction and maintenance of telephonic connection between	The Lethbridge and Cardston Telephone		1,717 50

J. A. CHASSÉ.

DEPARTMENT OF PUBLIC WORKS, OTTAWA, 25th November, 1895.

No. 2.—Statement of Property Purchased or Sold by the Department of Putlic Works during the fiscal Year ending 30th June, 1895.

Price.	♣ cts.	90 90 90 90 90 90 90 90	3,800 2,800 2,200 00 00 00 00	1 800 00	2,500 00	1,500 00 5,152 00	3 000 00	2,300 00	1,800 00	250 00	100 00 4,950 00	30,000 00	1 00	Free grant	or own;	8 8 8 8 8 8	4	400 00	ntained in
Area.		25 x 100 ft								7 acres, 2 rods, 16	~ i	54,758 sq. ft	. 2½ acres	90 x 100 ft	Ke-100 acres more or less.	3. of an acre			of the privilege co
Fcr what purpose.		ili Shed	0000		op	op		do do	ор	For decent of timber, &c.	Site for wharf	uildings Rai way purposes 54,758 sq. ft	Erection of wharf		Site for Alexandria Ke- formatory	rf		Harbour works	+ Being a transfer to Her Majesty of the privilege contained in
Description of Property.		Her Majesty Lot No. 21, in Maynard's Division	Piece of land, Cunard street	rart of 10t 15, Mayliatus Livision.	do and buildings ther on, Maynard's Division Piece of land fronting on Maynard's street	do Canard str et	LOUS 19, 10 and 10, 11 a) maid a Livision	Lot at corner of Cunard and North Fark street	Piece of land fronting on St. John's Lane	Tract of land on a utherly side of 1st chute of the Peta-	Babbin's Coventry of Sandy Portage la Prairie, town lots Nos. 25, 26	Halifax, lan covered with water, wharfs and buildings thereon	id composed of water lots in front of lots 6-7,		Lochiel, part of lot 38, 3rd concession, Tp. of Lochiel	Bayfield, N.S., lot of land and land covered with water			* T
Purchasers.		Her Majesty do	: : ဗိုဗို		: : မှေ	: op		: : မှမ	ф	ob	90 90	ф ф	op	cp		do		: }	L'adres
Vendors.		Johanna MurphyJohn Menger	.: ux	7. Katie & Katherine Metz-	enroth Daniel Faulkner et ux	4. Marguerit and Jane Thompson	11. Wm. Fower & ux 12 The Diocesan Synod of	Nova Scotia		12 Fabyliana, Guertin and Geo. Guertin	3. Isidore Leblanc et ux	1. John Flynn et al	March 14 Corporation of the town of Thessalon	9. Corporation St. Germa n de Rimouski	t mx	13. Chris. Macdonald et ux.	Chas. Dunn		200 000 000 000 000 000 000 000 000 000
Date of Conveyance.	1894.	∞ 83 : :		July 2 Aug. 7		-	Sept. 17. July 12	68	1894.		July 3	90,00	March 14	April 9	do 17		do 26		Ę

* The amount in these cares has been adjudged by judgment from the Exchequer Court.

Ar.hibald's teas for the balance of the emphyteutic term.

Department of Public Works,

Ottawa, 25th November, 1895.

J. A. CHASSÉ,

No. 3.—Statement of Property Leased to and by the Department of Public Works during the Fiscal Year neded 30th June, 1895.

Annual rent payable.	\$1 per annum. \$5 per annum. \$1 per annum. \$200 per annum. \$125 for 1st year, \$175 subsequent years. \$1 per annum.
Duration of Lease.	5 years During pleasure do 5 years During pleasure.
For what purpose.	Immigration service Private enterprise For erection of bridge For post office Private enterprise Railway purposes
Property Loased.	Her Majesty
Lessee.	Her Majesty Elie Gagné Corporation of the City of Winnipeg. Her Majesty H. G. Harrison The G. T. Ry. Co
Lessor.	The C.P.R. Co Her Majesty do Ovide Brien Her Majesty
Date of Lease.	1894. Apr. 19 Nov. 23 1895. Jan. 25 GMay 3 June 21

A. CHASSÉ.

DEPARTMENT OF PUBLIC WORKS, OTTAWA, 25th November, 1895

APPENDIX No. 7.

NAMES OF THE CHIEF OFFICERS

OF THE

DEPARTMENT OF PUBLIC WORKS

WITH DATE OF APPOINTMENT, &C.

FROM

1841 to **1895**

APPENDIX No. 7

THE NAMES with the date of appointment, &c., of the principal Officials of the Department of Public Works, from 1841 to 1895.

Names.	Canacity on Office	Date of Ap Ser	pointment. ved.
Names.	Capacity or Office.	From.	То
Under Statute 4-5 Vic., Cap. 38.			
CORPORATION BOARD OF WORKS.			
Killaly, Hon. H. H	Chairman		
Daly, Hon. D		Dec. 29, 1841	Oct. 3, 1844
Davidson, J., Esq	Memoers	,	_,
Begly, Thomas A	Secretary	Aug. 17, 1841	
Keefer, Samuel	Chief Engineer	do 17, 1841	
Rubidge, F. B.	Engineeer	Dec. 15, 1841	
New Board of Works,	Zingimosoz :	20, 20, 2022	
	GI :		
Killaly, Hon. H. H	Chairman	ĺ	Í
Draper, Hon, W. H.	Members	Oct. 5, 1844	June 8, 1846
Morris, Hon. W	Members		
Papineau, Hon. D. B)		1
Under Statute 9th Vic., Cap. 37, &c.		•	
Robinson, Hon. W. B	Chief Commissioner	July 4, 1846	March 10, 1848
Taché, Hon. E. P	do	March 11, 1848	
Chabot, Hon. J	do		March 31, 1850
Merritt, Hon. W. H Bourret, Hon. J	do	April 20, 1850 Feb. 15, 1851	
Young, Hon. John	do	Oct. 28, 1851	Sept. 22, 1852
Chabot, Hon. J	do	Sept. 23, 1852	
Lemieux, Hon. F. Alleyn, Hon. C.			
Holton, Hon. L. H. Sicotte, Hon. L. V	do	Aug. 2, 1858	do 6, 1858
Sicotte, Hon. L. V	do	do 6, 1858	
Rose, Hon. John Cauchon Hon. Jos	do Commissioner	Jan. 15, 1859 June 15, 1861	
Tessier, Hon. U. J. Drummond, Hon. L. T.	do	May 24, 1863	May 27, 1863
Drummond, Hon. L. T	do		3 July 23, 1863
Laframboise, Hon. M	do	March 30, 1864	March 29, 1864 June 30, 1867
Casgrain, Hon. Chas. Eus	Second Commissioner	Aug. 1, 1846	3
Cameron, Hon. M	Assistant Commissioner	March 11, 1848	
Wetenhall, John			
Killaly Hon H. H.	do	Feb. 15, 1851	L)
Keefer, Samuel.	Deputy Commissioner	May 6, 1859 March 15, 1869	
Trudeau, Toussaint	Secretary	Sept. 25, 1847	
Trudeau, Toussaint	do	Dec. 13, 1859	9
Braun, Frederick	do	March 8, 186 Oct. 31, 185	
9—13	. Omer rangineer	. 1000. 31, 180	ojo ury 2, 1000

APPENDIX No. 7.—The names with the date of appointment, &c., of the principal Officials of the Department of Public Works, from 1841 to 1895—Concluded.

Names.	Capacity or Office.	Date of Appointment. Served.				
ташсь.	Capacity of Office.	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	Dec.	8, 1869	Nov.	5, 1873	
McKenzie, Hon. Alexander	do	Nov.	7, 1873	Oct.	16, 1878	
Tubber, C.B., K.C.M.G., Sir Charles	do		17, 1878	May	20, 1879	
Langevin, C.B., K.C.M.G., Sir Hector L	do		20, 1879		8, 1891	
Smith Hon, Frank	Acting Minister		14, 1891		11, 1882	
Ovimet Hon Joseph Aldric	Minister	Jan.	11, 1892			
Trudeau, Toussaint	Deputy Minister	July	1, 1868		1, 1879	
Baillairgé, G. F	do	Oct.	4, 1879		18, 189	
Gobeil, A	do	Dec.	18, 1891			
Chapleau, S	Secretary	Oct.	4, 1879		4, 1880	
Ennis, F. H	do	NOV.	4, 1880			
Gobeil, A	do		23, 1885		18, 189	
Roy, E. F. E	do	Dec.	18, 1891			
McPherson, D. A	Assistant Secretary	do	18, 1891		01 100	
Perley, H. F	Chief Engineer	NOV.	25, 1880		21, 189	
Baillairgé, G. F	Assistant Chief Engineer	July	5, 1871		4, 187	
Coste, Louis	Unier Engineer	00	26, 1892		4 100	
Scott, Thos. S		reb.	7, 1872		4, 188	
Fuller, Thomas	do	OCt.	31, 1881	1		

APPENDIX No. 8

STATEMENT

SHOWING THE

NAMES OF THE OFFICIAL'S EMPLOYED

ON THE

SLIDES AND BOOMS OF CANADA

CN THE 30th JUNE, 1895

WITH

DATES OF APPOINTMENT, SALARIES, ETC.

APPENDIX No. 8.

STATEMENT showing Names, Dates of Appointment, Salaries, &c., of persons employed on the different Slides and Booms, on 30th June, 1895.

	ber rrk, to list	. 4 ist 6 is	on, ap- un- ue,	on, ber ve-	ch,
Remarks.	\$ cts. July 1, 1889 1,625 00 per annum. Date of first appointment to crown timber office, Ottawa, 23rd June, 18t4. Clerk, Dept. of Inland Revenue, 1st July, 1870, to 30th June, 1889. Transferred to civil list with rank of first class clerk, 5th January,	Date of first appointment to crown timber office, Ottawa, 21st April, 1877. Clerk, Dept. of Inland Revenue, 1st April, 1883, to 30th June, 1889. Transferred to civil list with rank of 3rd class clerk, January, 1892.	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, 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 Revenue, 7th Jan., 1884, to 30th June, 1889.	Saguenan Works.—In addition to the Super- intendent there are employed on the Sague- ray works, 4 flagmen at 70c. per day each, during the passing of the logs through the slides, which lasts one or two months.
Salary.	\$ cts. 1,625 00 per annum.	1,000 00 do	60 00 per month.	op 00 09	475 00 per annum. 30 00 per month.
Date of Appointment.	July 1, 1889	Nov. 14, 1889	July 12, 1889	do 12, 1889	May 19, 1881 Oct. 1, 1889
Where employed.	:	op	ор	op	Saguenay May do Oct.
Position.	846 Collector Ottawa	847 Assistant Collector	830 Boatman	ор	Sept. 11, 1854 Superintendent
Date of Birth.	Nov. 26, 1846	April 30, 1847	June 17, 1830	August 2, 1833	Sept. 11, 1854
Мате.	Collector of Stide and Boom Dues. E. T. Smith	95 James Slater	James Steen	John Redmond	Saguenay District. Arthur Boulanger Joseph Boulanger

	00 do do do do do do do do do do do do do	Employed about 6 months. do do do do in winter. Employed about 3 months during navigation. Employed 5 months during season of tion. Oversees repairs in winter. do do do do do do do do do do do do do	do 6 months do do do do do 6 for months do do do do do do do do do do do do do
50 00 per month. 46 67 do 60 00 do 60 00 do 44 58 do 55 00 do 55 00 do 55 00 do 55 00 do	2500 00 do 1,500 00 do 2 75 per day 1 75 do 1 25 do 1,200 00 per annum. 500 00 per annum.	88888	200 per day 1 25 do 1 55 do 1 50 do 300 00 per annum. 300 00 do do 2 50 per day 1 75 do
1, 1886 10, 1879 10, 1879 11, 1892 13, 1889 13, 1889 1, 1885 1, 1892 1, 1892 1, 1892 1, 1892 1, 1882 1, 1882 1, 1882	6, 1873, 2,500 1, 1854, 1,500 1, 1889, 1, 1, 1889, 1, 1, 1881, 1, 1891, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	1878 11860 11881 11880 11888 11881	•
Aug. April 28 April 28 Dec. 16 June Juny Juny Juny Juny Juny	July (Oct.) April Aug.] Jan.] May] Mar. 21		May 1,
aurice Illes aurice Grès do			:::::::::::::::::::::::::::::::::::::::
Paymaster Three Rivers 1883 Slide master Mouth of St. Mi 1840 Asst. at Cap aux Cornet Cap tack steper Shawengan Cap and do Cap a	1846 Superintendent Ottawa 1830 Accountant do 1864 Clerk 1864 Clerk 1866 Messenger do 1846 Paymaster do 1846 Paymaster do 1846 Paymaster do 1846 Aphaster do 1840 Boom master Carillon 1840 Boom master Gatineau	e master.	1843 Deputy slide master. do do 1829 do 1839 do 1839 do
	4,7,7,8,8,0,0,7,	8, 1829] 1, 1818 25, 18318 22, 18318 26, 1559] 27, 1858 27, 1860]	
July 7,	Feb. Feb. June Jan. April July Aug.	Nov. Nov. Feb. May Mar. Mar. Jan.	
St. Maurice District. Nap. Dagneau Cyriac Lymburner Jos. Page. Louis Hanel Chas. Langlois Arth. Pellerin Jos. Desaulniers N. Lymburner Jos. Brousseau Richelicu District.	G. P. Brophy Feb. D. Scott Feb. J. C. Scott June J. Kent Wm. Cain April LC. Ledue Jahre LJ. Middleton July LJ. Middleton July LJ. Middleton July LJ. Noonan June		Janes Steen Lowan W. E. Biggs. Wm. Thomson G. H. Brabazon. E. Davis H. R. Downey Hugh Grant. A. McEwen A. H. Johnson

APPENDIX No. 8.—STATEMENT showing Names, &c., of persons employed on the different Slides and Booms—Concluded.

R. B. Bogers Jan. 17, 1857 Superintendent Peterboro' July 1, 1884 G. H. Giroux G. H. Giroux do July 1, 1880 Clement Armstrong Slide master Chishohn Rapids April i, 1883 John Jordan do Fenelon Falls April i, 1893 R. T. Hill do Buckhorn July 1, 1891	ident Peterboro'	July 1, 1884	& cts.	
Jan. 17	ident Peterboro' t.'s office do	July 1, 1884		
	t.'s office do		800 00 per annum.	Receives \$800 per annum from Department
_	er Chisholm Rapi Fenelon Falls.	July 1, 1880 Jan April i, 1883 Aug. 15, 1892 July 1, 1891	400 00 do 200 00 do 100 00 do 100 00 do	400 00 do do \$250 per annum as lock master. do R. & C. 100 00 do Receives \$150 per annum from Department of B. & C.
Hamilton Johnston do	Heeley's Fall July 15, 1893.	July 15, 1893	200 00 do	of frailways and canals.
Burlington Channel.				
c Thos. Campbell April 1, 1832. Ferryman Burlington April 12, 1887.	man Burlington	April 12, 1887. April 1, 1890	400 00 do 300 00 do	
Yamaska District.				
A. LabbéO. Mineaudo	Lock keeper Yamaska do	Sept. 1, 1885 Sept. 1, 1885	40 00 per month. 40 00 do	
Rivière du Lièvre.				
Alex. MacCallumSimon Raymond	::	Rivière du Lièvre May 14, 1892 April 1, 1894	40 00 do 35 00 do	

R. STECKEL.

APPENDIX No. 9

LIST

OF

ENGINEERS, ENGINEMEN, FIREMEN AND CARETAKERS

EMPLOYED IN THE

PUBLIC BUILDINGS THROUGHOUT THE DOMINION

ON THE 30th JUNE, 1895

GIVING

DATE OF APPOINTMENT, SALARY PAID, &c.

APPENDIX No. 9.

STATEMENT showing the Engineers, Enginemen, Firemen, Caretakers, Hoist Attendants and Watchmen employed at Dominion Public Buildings on 30th June, 1895.

Total Salary 'per Annum.	e cts.	400 00 400 00 400 00			268 200 200 200 200													
Time employed per Annum.		12 do		ခုခု	•	12 do	දිදි				do,		qo		ခုခု		မှ	ခုခု
Salary Per Month.	& cts.	888 888 1888	288	88	8 4	88	# FF	888	3 88 9	33 33 33 33 34 34 34 34 34 34 34 34 34 3	88	3 5	£ 53					
Date of Appointment.		Nov. 2, 1886 Feb. 5, 1891 April 1, 1891	381-	3,1	Land Land		,,,,,	် ထ် ရွ			E S		,-,°			;-	26,1	May 31, 1881 Jan. 11, 1886
Position.		824 Caretaker		1834 Fireman.					op op	do &firem'n	an.	Messenger	Caretaker	do do	:			op op
Date of Birth.			1,1,2	do 15, 1834 Sept. 16, 1822	, (2, 0,		do 24, 1847	į8,	പ ഗുകു		4.		h 15, 1858		Jan. 20, 1825	: `	, ,—	Oct. 5, 1847 Jan. 11, 1832
, Name.		James Morrison	Alex. S. McDonaid J. C. Henley	Richard Power. J. F. Sullivan	W. H. Gray	J. E. Hebb.	Angus McEachren	N. H. McNeill.	Hugh McCulloch Aug. H. Parsons	Robert Spears	J. S. McLeod.	Geo. Walker	D. F. Macdonald	Martin Lambert	J. A. Melançon	Jas R Reid	Wm. Gould	Jas. Perkins E. B. Hicks
Building.		Post Post Post	Fublic building	op	do Examining warehouse	Public building	ding	office and C. house.	office	lino		9 (do	Fublic building	Post office	op	op	op
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STATEMENT showing the Engineers, Enginemen, Firemen, Caretakers, Hoist Attendants and Watchmen employed at the Dominion Public Buildings, &c.—Continued.

Total Salary Per Annum.	600 00 cts. 400 00 00 00 00 00 00 00 00 00 00 00 00	9999 9999 99999 99999	\$\\\ \text{2} \\ \
Time employed per Annum.	12 months 12 do 12 do 12 do	::::::: 66666666 2222222	
Salary per Month.		8884888 8887888	8242488282888 4888888 82888888888 8888888
Date of Appointment.		8,7,7,6,4,8,8,-	, 4, 5, 7, 4, 2, 2, 2, 3, 4, 4, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
Position.		Engineman Sept. Caretaker Jan. do Marel do Sept. do April do Sept.	åengin'r wn. wn. wn. wn. wer. wer. wer.
Date of Birth.	1820 1840 1858 1849	25, 1841 25, 1848 1, 1843 29, 1843 31, 1854 20, 1834 20, 1834	డే ర్యాల్ల్ల్ లోట్లి చెట్టేంద్రి క్రిట్ల్ల్ల్ల్ల్లే చెట్టే చెట్టే
Name.	J. P. Reeves A. E. Lyons James McBride Jas. Halpenny	Henry Dunn. W W Mitchell Thos. Murphy A Gibson. H. J. Payne. Wm. Kilgour Robert Higham.	Thos. F. Ktohardson Affred Barnard. Thos. Beatry Thos. Beatry Wm. Harris. William Johnson. M. Madden. M. Madden. Wm. Greer. John Price. John Hearns. John Hearns. John Wikins S. Baskerville. John Wikins S. Baskerville. John Wikins John Wikins John Wikins John Wikins John Wikins John Wikins John Wikins John Wikins John Wikins John Wikins John Wikins John Wikins John Wikins John Wikins John Wikins John Whitelead.
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Place.	Belleville Ont. Berlin. Brampton. Carleton Place	Chiltoni. Chatham. do Cornwall. Cochoung. Galt Guelph.	dg.

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1860 1847 E 1843 C 1832 18 0 18 0 1836 E	844 844 844 844 844	855 11.05 11	859 859 F F F	88228 83228 8034	2885 2788 2788 2788 2788	849 H	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	852 822 843 843
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Dec. May Sept. May Sept.	Oct. Feb.	do Dec. July	Feb. dec.	Sept. May Aug.	March Nov. May	Aug. March May April	May do Jan. Oct.	Jan. Nov. Aug.
Geo. McGookin. J. H. Roberts. Wn. Bryson. Jas. Russell. Wn. J. Johnston. Wm. J. Johnston. T. H. Venables.	Fred. Faragher. Jas. Cosgrove. Fd. Amleton	Alex. Dey. Wm. Chenery W. J. Slean	Jas. Richardson. Henry L. Bell Samuel Fitzgerald	John Somers. Chs. H. Baillie David Allan F. Parker	W. Courtis Andrew McLean John Fawcett.	J. K. Alexander Patrick Dillon Jos. Coutu. Jos. Gagnier	A. G. Hamilton. George Northgraves. Geo. Cassie G. L. Fraser	R. wyne. W. A. Porter Ralph Johnson John McMurphy. George E. Windsør. Atwell King.
Custom-house Post office, &c do do Public building Fublic building	Custom-house Examining warehouse	3666	do	Drill hall. Public building	do Public building	Post officedo	Court house do and jail Land and registry office Public building	Land and registry of nose Court house and C. hous do Post office do do A Public building
:::::::		:::		::::	. ". Man.	::::	¥::::	:
do Stratford. St. Catharines St. Thomas. Strathroy.	do ob	op op op	do do do	do do Trenton	do Walkerton Brandon	op op op op op op op op op op op op op o	Moosomin Prince Albert do Calgary	Edmonton Lethbridge Moose Jaw Nanaimo. New Westminster. Victoria. Vancouver.

APPENDIX No. 10

STATEMENT

SHOWING

NAMES, DATES OF APPOINTMENTS, SALARIES &c.

OF

PERSONS EMPLOYED

ON THE DIFFERENT

GRAVING DOCKS

30TH JUNE 1895

APPENDIX No. 10.

STATEMENT showing Names, Dates of Appointment, Salaries, &c., of persons employed on the different Graving Docks, 30th June, 1895.

Remarks.		1,800 00 per annum Annual allowance of \$200 for house rent. 83 33 per month 75 00 45 00 32 00 46 00	
Salary.	\$166 66 per month 100 00 ". 80 00 ". 80 00 ". 60 00 ".		1,400 00 per annum 75 00 per month 45 00 " 45 00 " 45 00 "
Date of Appointment.	Sept. 17, 1887 April 1st, 1887 Jan. 11, 1892 Dec. 1st, 1887	April 13, 1891 " 9, 1891 June 1st, 1888 " 1st, 1888 " 1st, 1888 April 9, 1891	July 2, 1892 ist, 1892 ist, 1892 ist, 1892 ist, 1892 ist, 1892
Where employed.	EsquimaltSept.	Lévis	Kingston
Position.	Dockmaster. Engin er Asst. engineer Carpenter Stoker do Watchman.	1856. Dockmaster. Dock foreman. Mech'l engineer. Asst. mech'l engn'r Fireman. Watchman.	Dockman 1st engineer. Fireman Caretaker Watchman
Date of Birth.		30th June, 1	
Name.	Esquimult Graving Dock, British Columbia. John Devereux A. C. Muir J. W. Muir J. W. Muir F. M. Jones. F. Willians John Stack.	Ulric Valiquette	James Wilson. Robert McLeod Wm. Geaghon. Patrick Hurley C. Staley.

R. STECKEL.

APPENDIX No. 11

TABULAR STATEMENT

SHOWING THE DATES OF THE

CLOSING AND OPENING OF NAVIGATION

AT THE

PRINCIPAL PORTS OF CANADA

ON THE SEABOARD, THE RIVER AND GULF OF ST. LAWRENCE AND ON THE GREAT LAKES

APPENDIX No. 11.

foe was formed on river Nov. 27th. First arrival from sea April 26th. Two ships went to sea, and one arrived from Murray Bay on dates given. April 29...
do 23...
do 17... Steam tog "William Aitkin" left for Pictou April 19th and returned The ice was light, but formed early, and remained late. Very few days during the past winter, but a vessel could enter this STATEMENT showing the date of the closing and opening of navigation at the undermentioned ports in Canada, in 1894 and 1895. Never closed. Port always open. Last boat passed down canal 23rd Nov. Canal open 3rd May, 1895. The last steamer cleared 10th Dec. Ice formed about 22nd Dec. Very solid ice during January, February and part of March. Ice formed December 15th. April 10. Harbour was open but no arrivals until the 20th. May Z.... April 23... Harbour was open to Railway wharf 23rd April. do 20... Vessels might come into port about April 1st. Harbour was open and accessible all winter. Navigation at this port was open all winter. Open and free from ice all the year round. Remarks. First part of winter was very mild. with cargo of flour next day. St. Ann's, C.B. Nova Scotia Atlantic Ocean. Jan 6 do 30.
St. John New Brunswick. Bay of Fundy
St. John River Richelieu. Nov. 28. April 22.
St. Johns Gods Atlantic Ocean. 88 March 15. . . . 15. Date of Opening 1895. Si 83 Nov. 29... do 28... Dec. 26... do 25... do 25... Jan. 7.... Jan. 28... : Nov. 19... Dec. 24... Dec. 3.... Jan. 9.... Dec. 4.... Dec. 5.... of Closing 1894-95. Nov. 26. Dec. 3...
do 22.
do 24.
do 10.
do 15.
Jan. 23.
Dec. 27. Jan. 10. Georgian Bay, Lake Huron River St. Lawrence..... Georgian Bay Gulf of St. Lawrence River St. Lawrence Baie des Chaleurs..... Lake Ontario Baie des Chaleurs Gulf of St. Lawrence Lake Huron.... Gulf of St. Lawrence..... ake Ontario. • Atlantic Ocean: Atlantic Ocean aske Erie.... ake Superior Location. Lake Ontario..... ake Huron.... Lake Erie Isle Madame. Quebec. Cuebec. P. E. Island... Ontario New Brunswick. P. E. Island ... P. E. Island... New Brunswick. Quebec.... Ontario Nova Scotia Onepec Ontario Nova Scotia nepec Ontario Ontario Ontario Province. Nova Scotia Nova Scotia Kingston Louisburg, C.B..... Owen Sound.... Percé Port Arthur. ... Port Stanley...... Port Dover..... Campbellton Belleville.... Montreal
North Rustico.... Goderich Halifax..... Kincardine Charlottetown reorgetown Collingwood North Sydney ... Bathurst..... Arichat, C.B... Port Hope... Ports. Gaspé.... Montreal Pictou.

:	ne one	torm	and	hly	ct.	-
-	ritival w	Degan t	this por	vae nrobe	little earlier, vessels generally stop running about middle of Oct. prination not received when this went to press.	
9	i, iiist a	'ar. 10e	between	innineo	about mi	
**************************************	L ring.	irst, arriv 1894.	he year	Lake W	running at to pres	
+ the 18+	st arriva	vember,	during t	River.	ally stop this we	
ice about	re and fir n the coa	20th No	very day	J.S.A. the Red	els gener ved wher	
s clear of	departurift ice o	e 18th or	ats ran e	Much., are for	lier, vess not recei	
bour was	22nd. es of last y little d	about th	ferry bo	Detroit,	little ear rmation	
8 83 22 Har	20. Dat 25. Ver 30. Dat	 W.	24. 30. The	3 The	Info	-
April (do do do do do	do 2 do 2 March	April 2 do 8	March	April 8	:	
Lake Huron	Nov. 30. do 20. Dates of last departure and first arrival. Nov. 8 March 30. Dates given are dast departure and first arrival. Nov. 8 March 30. Dates given are last departure of first spring.	Three Rivers do do do do 27 April 23. about the 18th or 20th November, 1844. Lake Ontario Dec. 23 do 5 Water unusually low.	::: ස ස ද ද	Red River	York Factory N.W. Territories Hudson Bay Information not received when this went to press.	
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ence	10e		яке Ниг 			
ron perior St. Lawr	chelieu. Ocean . Lawren	do tario	Siver	3 r	Вау	
Lake Hu Lake Su Gulf of	River Richelien Atlantic Ocean River St. Lawrence	do Lake On	reorgian Detroit 1	Red Rive	Hudson]	
nswick	otia				rritories	
Ontario do New Bru	Quebec. Nova So Quebec.	do Ontario	දිල	Manitob	N.W. Te	
arie				:	,	
Sarnia Ontario Lake Huron Ontario do Lake Superior Shediac. New Brunswick Gulf of St. Lawrence	Sorel Quebec Sydney, C.B. Nova Scotia Tadousac Quebec	e Rivers	dsor	nipeg	r Factor	
Sarn Saul Shed	Sore Sydr Tado	Thre Toro	Win	W.	York	

APPENDIX No. 12

REPORT

ON

GOVERNMENT TELEGRAPH LINES

FOR THE FISCAL YEAR ENDED 30TH JUNE, 1895

APPENDIX No. 12.

GOVERNMENT TELEGRAPH SERVICE.

OTTAWA, 3rd December, 1895.

SIR,—I beg leave to submit the following report upon the telegraph service, for the twelve months ended 30th June, 1895, with the usual tabular statements of lines, operating staff, etc., established in the several districts.

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

D. H. KEELEY,

General Superintendent.

E. F. E. Roy, Esq.,

Secretary, Department of Public Works.

TELEGRAPH SERVICE-1894-95.

NEWFOUNDLAND.

The line from Port au Basque to Cape Ray has been operated, as heretofore, by the Anglo-American Telegraph Company.

MARITIME PROVINCES.

The Meat Cove line, the Cheticamp line, and the Cape Sable line, have continued in operation in conjunction with the Western Union Telegraph system.

In a heavy storm on the 5th February, about half a mile of the Meat Cove line near South Ingonish was swept away. Temporary repairs were promptly made and that portion of the line was rebuilt a little later on (in April).

In June, a loop line off the Baddeck extension, $2\frac{1}{2}$ miles to Port Bevis, was constructed and an office opened at the Gypsum Company's works at that place. The company furnished and distributed the poles as a contribution to the work.

The cable across Barrington Passage, Bear Point to Newell's Head, 1½ miles, ceased working on the 28th February. The steamer "Newfield" was already in requisition for cable repairs in the Bay of Fundy, and the repair of this Barrington section

was arranged to be attended to en route.

[Note.—It was not until the end of September the "Newfield" became available. The cable which was laid in 1883 and now interrupted for the first time, was found on examination to be badly wasted away in many spots. Three-quarters of a mile of new cable was put in to restore the connection (25th September), but of what was taken up, about half a mile was subsequently got into serviceable condition for use elsewhere.]

The Escuminac line continues in operation as heretofore in conjunction with the Great North-western telegraphs. There was some further general repairs made on this line in the course of the year; the pole line for a length of about three miles across the marsh land of the Escuminac plain has been reset and braced and

otherwise made good as new.

The Bay of Fundy system continued in operation in the condition described in the last annual report, without change until the 4th October, when the cable between Campobello and Grand Manan gave out. The steamer "Newfield" visited the locality in the latter part of the same month and both of the cable sections were

overhauled and put in order. The trouble on the Eastport section was found to be due to decay of the cable insulation on the shore at Campobello and a further insulation fault developed at a point about half a mile off the Eastport side. The interruption of the Grand Manan cable was apparently due to its having been chafed through on rocks close to Liberty Point. The shore end of this landing was on examination found in a generally poor condition; a new length was landed and laid out well clear of the point and connection was restored between the islands on the 17th November. Again on the 9th of last February (1895) however this cable suddenly gave out again and remained inoperative for some considerable time because of the "Newfield" being unobtainable for the repairs.

[Note.—The steamer "Newfield" as mentioned elsewhere in this report could not be secured for the cable work until the autumn. The Grand Manan cable was attended to in October (1895), the repair being made on the 22nd. It was at this time, in the course of the repairing, found to have been parted in two places by vessels' anchors; one break was in the cove at Liberty Point and the other close to the shore at Long Eddy, there was no indication of chafing of the armour wires in

either case.

Last fail the land line sections on Campobello and Grand Manan Islands were thoroughly overhauled and put in a good state of repair.

RIVER AND GULF ST. LAWRENCE.

With the exception of the St. Paul's Island section, the several cables in the gulf and along the north shore continued free of interruption throughout the year.

The St. Paul's cable ceased working on the 2nd May, it remained unrepaired during the summer owing to the steamer "Newfield" not being available for the

service

[Note.—When picked up in the course of repair by the "Newfield" this past November, this cable was found to have been parted by a vessel's anchor 3 miles off the Meat Cove landing. Communication was restored on the 19th November. A heavy fault was then found to exist in it at a point apparently about 4 miles off St. Paul's Island; the season was however too far advanced to afford reasonable chances for effecting a complete repair, but the cable will likely continue operative in its present condition, until further attention to it becomes practicable. Mention might also be made here of an interruption of the Magdalen Islands cable having occurred on the 20th September (1895), it too was found to have been broken by a vessel's anchor about $3\frac{1}{2}$ miles off Meat Cove. Communication was restored on the 12th November.]

The land lines on the Magdalen Islands are being thoroughly overhauled this season. The pole line has been shifted in many places to more reliable ground and 50 new poles were procured from Gaspé and put in where needed along the route.

The land lines on Anticosti and along the North Shore of the St. Lawrence have been kept in an efficient state of repair. The interruptions that have occurred were few and of very brief duration as the facilities for making repairs are being

improved in these districts.

On the North Shore below Manicouagan three more small bridges were thrown across streams, viz., at Big Calumet, 129 feet; Little Calumet, 100 feet; and May Islands, 75 feet. Three others, provided at an earlier period at Pigou River, Beby's River, and Magpie, were renewed; and some additional shelter huts and flat boats for river crossings, were provided in the course of the year, for the purpose of facilitating the movements of repairers along the line, the condition of which was fairly set forth in the last annual report.

Owing to a heavy freshet occurring last fall just about the time the reconstruction was being undertaken of the bridges that had been carried away the previous year between Bersimis and Sault au Cochon, the work had to be deferred. It was however taken in hand early in the spring and by the middle of April the whole was completed under the immediate supervision of Mr. Geo. W. Forrest of

Sault au Cochon. The whereabouts and dimensions of these bridges are given as follows: River Raymond, 44 feet; Blanche, 60 feet; Columbia, 68 feet; Laval, 100 feet; and River au Pin, 129 feet.

The branch line from Bay St. Paul to Chicoutimi has continued in satisfactory

operation under the same conditions as were mentioned in last year's report.

The cable of the St. François-Isle Reaux section of the Grosse Isle quarantine system, became inoperative on the 10th December last. Nothing could be done to it till the 29th April following, when communication was restored; but the connection was faulty and unreliable in consequence of the cable having been badly crushed by ice at several points on either shore. Two lengths of 600 feet each of a special locked armour type of 8-ton shore end cable calculated to withstand the ice, had in the meantime been ordered and when these came to hand a reliable connection was re-established.

[Note.—This was on the 8th August (1895). The special lengths were put in over the rocky shores beyond low water mark, the former cable being embedded in cement and intact to this point in each instance. The work was done by means of a steam tug and batteau.

With the exception of the interruption here reported, the quarantine telegraph and the telephone system at Grosse Isle were satisfactorily operated during the

year.

ONTARIO.

The Bath-Amherst Island line and the Wolfe and Howe Island lines have been,

as in previous years, operated by the North American Telegraph Company.

The Pelee Island cable, which was put in order in November, 1893, again became inoperative on the 26th January, 1895. It was found, when picked up in the course of repair later on, to have been dragged down on to the shoal "middle ground" between the mainland and the island, and there-flattened by moving ice. The damaged part was cut out and the cable replaced to the westward of the shoal. Communication was thus restored on the 20th May. This cable repair work was done by means of a steam tug procured at Windsor.

With a view to securing as far as possible an immunity from the recurrence of interruptions of the cable, due to vessels fouling it with their anchors, as has so frequently happened in past years; a notice as hereunder has been posted in all of the custom houses, post offices, canal offices, and the different headquarters of vessel men in the neighbourhood; and the result of its operation may perhaps afford a promise of its utility in other localities where the Government is maintaining a

cable service:

NOTICE TO SAILING MASTERS AND VESSEL MEN ON LAKE ERIE.

Attention is directed to the existence of a submarine telegraph, connecting Pelee Island in Lake Erie with the mainland. The route of the telegraph cable is from Point Pelee, nearly parallel with

the sand bar, for half the distance to the dummy light, thence south-westerly, passing slightly to the westward of the middle ground, to the North Point Lighthouse on Pelee Island.

Under Vic. 51, cap. 31, any one who wrongfully or by culpable negligence, breaks or injures a submarine cable, is liable to fine and imprisonment. In case, however, of accidental fouling with the cable, owners of ships or vessels who can prove having sacrificed an anchor in order to avoid injuring the cable, will be compensated therefor; if the claim for such compensation is supported by the evidence of the crew and covered by a declaration made to the proper authorities.

Where in any case damage has unavoidably been done to the cable with the object of saving life or limb or of preserving the vessel, the circumstance should be reported to the Superintendent of Government Telegraphs, Ottawa, promptly upon reaching port, in order to avoid the inconvenience

of prosecution.

(Signed)

Acting Superintendent.

Government Telegraph Service, Public Works Department, Ottawa, Ont. Early in the summer 360 24-ft. cedar poles, 6 inches in diameter at the top, were procured from the mainland and distributed along the route of the line on Pelee Island, for the purpose of replacing the now decayed oak poles that were used in the original construction. This work of re-poling is being done gradually by the local lineman with assistance as needed.

NORTH-WEST.

The lines in the North-west, Qu'Appelle to Edmonton and Moose Jaw to Wood Mountain, have been maintained in satisfactory working order during the year.

As a result of an inspection made, as mentioned in last year's report, with a view to ascertaining the requirements for pole renewals on the Qu'Appelle-Edmonton line, arrangements were made for the delivery at convenient points of several small lots of cedar and tamarack poles—aggregating in all 52 of cedar for the Qu'Appelle-Humboldt section, and 368 of tamarack for the Humbold-Edmonton portion of the line—the whole to be distributed and placed where needed, by the several linemen stationed along the route, in the course of the season when the usual general repair trips were being made. It is expected that with these renewals the line will be maintained in good order for a considerable period.

In the last annual report mention was made of the collection of material from the disused Prince Albert line. As there was no immediate prospect of its being utilized in this district, it was decided to send this material along with some other spare wire and insulators on hand since the construction of the present Qu'Appelle-Edmonton line, to British Columbia, to be made use of there in a line now under construction. What spare material is now on hand in the North-west, comprises only a reasonable reserve for maintenance purposes.

BRITISH COLUMBIA.

The coast line, Victoria to Carmanah and Cape Beale, was maintained under the conditions defined in the last annual report. The service was upon the whole more reliable and satisfactory than had been found possible to make it in previous years, owing to the existence of so many obstacles in the way of the linemen.

The office at Cape Beale was closed in November in consequence of a change of lightkeepers, the former operator going away and there being no one available for the duties.

[Note.—A member of the present keeper's family has since become qualified

for the office and it was re-opened on the 3rd September, 1895.]

On the Barkerville line, the poles were found on inspection to be generally in need of resetting and overhauling. An appropriation for this purpose was obtained last session and the work is being performed by day labour, under the direction of the district superintendent.

A branch line from Ashcroft via Hat Creek Valley to Lillooet, 62 miles, provided for in the estimates for this year, has been contracted for with Mr. W. H. Keatley; he to supply the poles and build the line, the department to furnish the

wire insulators, etc. The work of construction is now under way.

An office with agent and operator on salary has been established at 150 Mile House, about midway between Bridge Creek and Soda Creek, on the Barkerville line, to afford needed facilities for the business that is being done in connection with mining operations in that neighbourhood; and as an aid to a private company engaged in mining in the vicinity of the Quesnelle River the use of the telegraph poles for a distance of 14 miles has been allowed for the suspension of a telephone wire connecting the telegraph office at Quesnelle with the company's offices at the river.

The Comox line has been maintained in the same manner as heretofore.

A line to Alberni, from the junction of the Comox and Alberni roadways, a distance of $29\frac{1}{2}$ miles, for which provision was made in this year's estimates, was constructed by day labour under, the direction of the department's resident engineer.

The poles used in the construction (947 of 25 ft. cedar, 6 inches diameter at top) were supplied and distributed under contract by Mr. J. Belyea. The line was completed on the 27th June, with offices opened at Alberni and Parksville (the junction of the roadways.) It is operated as a branch from Parksville, established as a repeating office on the Nanaimo-Comox circuit.

SERVICE GENERALLY.

In pursuance of a decision given by the Honourable the Minister in June last in respect of the vacancy caused by the regretted death of the late superintendent, a circular was issued to the staff of the service as follows:—

[Circular.]

GOVERNMENT TELEGRAPH SERVICE.

DEPARTMENT OF PUBLIC WORKS,
DOMINION OF CANADA.

By order of the Honourable the Minister of Public Works, the district superintendents, agents and employees of the telegraph service, and all others concerned, are hereby advised of the appointment of Mr. D. H. Keeley, to the position of general superintendent, the duties of which office have been discharged by him since the service was deprived of its former chief officer in the death of the late Mr. F. N. Gisborne, which occurred on the 29th August, 1892.

> E. F. E. ROY, Secretary.

OTTAWA, Ont., 4th June, 1895.

REVENUE AND EXPENDITURE.

The revenue and expenditure figures for each of the lines in the several districts hereinbefore mentioned are given in the following table:—

Telegraph Service.	Expenditure.	Revenue.	Remarks.
Lower St. Lawrence and Maritime Provinces:— Anticosti Island lines. Bay of Fundy do Cape Ray do Cape Sable do Cheticamp do Escuminac do Low Point agency. Magdalen Island lines. Meat Cove do (including St. Paul's Island). North Shore St. Lawrence (East of Bersimis) do (West of Bersimis) Subsidies, stationery, line and office material, cable	\$ cts. 2,277 04 3,015 32 250 00 688 45 777 86 656 32 50 00 2,311 68 2,075 60 5,088 75 3,712 40 1,068 92 2,500 00	\$ cts. 325 72 405 13 Nil. 13 62 411 51 1771 51 420 41 832 00 955 90 1,584 21 406 22	s, Meteorological Service mes- , and Fisheries bulletins are
Subsidies, stationery, line and office material, cable repairs and contingencies chargeable to the appropriation for Gulf lines	668 16		messages, reports, e of tolls.
Ontario: Pelee Island line	24,140 50 1,603 79 14,139 42 1,871 30 3,339 51 4,784 01 49,878 53	5,526 23 127 12 1,771 62 906 59 	Signal Service messages, sages and reports, handled free of tolls.

^{*} The company operating these two lines retains the revenue and the Government reimburses them the excess of expenditure over revenue.

D. H. KEELEY,

General Superintendent.

OTTAWA, 3rd December, 1895.

GOVERNMENT TELEGRAPH SERVICE. NEWFOUNDLAND TELEGRAPH SYSTEM.

.oN	Stations.	Intermediate Distances.	Operators.	Salaries per Annum.	Date of Appointment.	Мето.
Ī		Miles.		s cts.		
	Port au Basque	0		50 00 or com'n		N. B.—The commission is 25 per cent upon all busi-
- 	2 Cape Ray Lighthouse	14		op 00 09		guaranteed not to be less than at the rate of \$50 per annum.
	Totals	14		100 00 do		

Telegraph Company

GOVERNMENT TELEGRAPH SERVICE—Continued.

ANTICOSTI TELEGRAPH SYSTEM.

SERVICE.	
ISLAND	
ANTICOSTI	

No.	Stations.	Intermediate Distances.	Agents and Operators.	Salaries per Annum.	Date of Appointment.	Мето.
-	1 *Fox Bay	Miles.	J. Stubbert	\$ cts. 50 00 or com'n	Nov. 1, 1888.	\$ cts. 50 00 or com'n Nov. 1, 1888. The commission is 25 per cent on all business to and from the office in each instance; and commission guaranteed not to be less than at the rate of \$50 per cent.
	2 Heath Point Lighthouse 3 South Point Lighthouse 4 *Shallop Greek	23 324 172 172 172 172	T. Gagné. A. Nadeau B. Bradley.		July 20, 1881. Oct. 1, 1888. July 7, 1881. do 1, 1891.	Gen
22 2			(N. Carbray, operator (Miss G. Pope (H. Pope	50 00 do 420 00 do 200 00 do	Sept. 1, 1892. Oct. 18, 1880. July 21, 1893.	.jiji
7860111111111111111111111111111111111111	Jupiter River Otter River Secsic River Secsic River Cape Eagle (Ellis Bay) West Point Lighthouse Forming Bay Workers Bay	171 222 10 + 9 . 4	M. Duguay. A. Malouin F. Cabot.	66666666666666666666666666666666666666	Oct. 1, 1886. Aug. 1, 1881 July 1, 1882.	1, 1886. +The line was shortened by 5 miles between Ellis 1, 1881. 1, 1881. 1, 1882. Norg.—A special allowance for maintenance of the special and the pass page 1, 1982.
3	Totals	223		1,535 00 do		commission for offices marked *, since September, 1887.
211	South-west Point connects with 21 knots.	l'Anse à Fougè	e, Gaspé, by cable 44‡ kno	ts; and from Mech	astic Bay conn	l'Anse à Fougère, Gaspé, by cable 44‡ knots; and from Mechastic Bay connection is made with Long Point of Mingan by cable

NOTHORN SECTION

			GASF	GASPE SECTION.				•
1	1 L'Anse à Fougère		N. Bernier	17 00	:	Specia	Special allowance for the cable terminus. A testing	A testing
63	2 Gaspé Basin	88	J. J. Annett	240 00	Oct. 16, 1	881. Transf	Oct. 16, 1881. Transfer office. Connection with G. N. W. telegraph	, elegraph
		88		257 00			system:	
-						-		

MAGDALEN ISLANDS TELEGRAPH SYSTEM.

MAGDALEN ISLANDS SECTION.

te f tment.	\$ cts. 50 00 or com'n Oct. 1, 1882. The commission is 25 per cent on all business to and from the office in each instance; said commission guaranteed to be not less than at the rate	do June 11, 1881. Dec. 1, 1891. Plus \$20 per annum for rent. General line repairer. do Sept. 1, 1891. Two-wire loop line. do Sept. 15, 1893. Plus \$1 per day when absent on duty. do June 1, 1888. do June 1, 1888. do Feb. 18, 1882.
Date of Appointment.	n Oct.	June 11 Sept. 17 Sept. 17 Sept. 16 Sept. 16 June 17 Feb. 18
Salaries per Annum.	\$ cts. 50 00 or com'	50 00 do June 11, 1881. 50 00 do Sept. 1, 1891. 50 00 do Sept. 1, 1891. 60 00 do Sept. 1, 1891. 50 00 do Sept. 15, 1893. 50 00 do Sept. 15, 1893. 50 00 do June 1, 1888. 50 00 and do June 1, 1888. 50 00 or do Feb. 18, 1882.
Agents and Operators.	Miss J. Shea	Wm. Cormier P. Pelletier Mrs. A. Binet N. Arsenault A. LeBourdais, D. Supt. Miss E. LeBourdais, op. P. L. Joncas N. Clark Mrs. F. Aikins
Intermediate Distances.	Miles. 0	28.8 8.8 11.1 11.1 11.1 11.1 11.1 11.1 1
Stations.	1 Amherst	3 Amherst Lighthouse 3 Etang du Nord village 4 Etang du Nord lighthouse 5 Grindstone Island 7 Wolfe Island 7 Wolfe Island 8 Grosse Isle 9 Grand Entry Totals
.oN	1	d w 4 10 01-00

GOVERNMENT TELEGRAPH SERVICE—Continued.

MAGDALEN ISLANDS TELEGRAPH SYSTEM.

CAPE BRETON SECTION.

Memo.	Nov. 7, 1880. The commission is 25 per cent upon all business to and from the office in each instance; said commission guaranteed to be not less than at the rate of 200 per annum	July 1, 1894 June 15, 1895 April 1, 1887. Norg.—This line is at present operated and main- do 1, 1882 tained by the Western Union Telegraph Com- do 1, 1889 pany, but at the cost of the Government April 1, 1889 April 2, 1882 April 2, 1883	Construction of this loop line completed June, 1895.	
Date of Appointment.	Nov. 7, 1880.	n. July 1, 1894 June 15, 1895. April 1, 1887. Nor- do 1, 1892. ta April 1, 1889. April 1, 1889. April 1, 1889. April 1, 1889. April 1, 1889. April 1, 1889.		
Salaries per Annum.	& cts. 500 00	50 00 or com'n. July 1, 1894 50 00 do June 15, 1895 50 00 do April 1, 1887 50 00 do April 1, 1889 50 00 do April 19, 1889	00 do 00 do 00 or com'n. on	1,450 00
Agents and Operators.	A. B. McDonald	I. Y. Nichols V. Therriault. M. McLeod J. M. Burke F. C. Brewer John McDonald W. Bingham (Sepus)	Miss C. Morrison. D. Dunlop. Miss M. C. Gampbell. Mrs. E. Livingston. W. U. Tel. Co.	
Intermediate Distances.	Miles.	2012441 20109 20188 11	18 18 18 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1574
Stations.	Meat Cove (Cable Station)	2 Aspy Bay. White Point (7‡ miles, loop) 4 Neil's Harbour. { way house. 5 Ingonish, North Bay. 6 South Ingonish. 7 French River (‡ knot cable) 8 Englishtown (‡ knot cable)	9 South Gut, St. Ann's (on loop). 10 Baddeck (on loop). 11 Englishtown (back on loop). 12 Port Bevis (2½ miles, looped off Baddeck line). 13 Kelly's Cove (N. Campbellton). 14 Big Bras d'Or (½ knot cable) 15 North Sydney.	Totals
No.	-	224	12 12 14 15 15 15 15 15 15 15 15 15 15 15 15 15	

Mest Cove Station connects with the Magdalen Islands system by a cable to Old Harry Head 55 knots, and with St. Paul's Island by a cable of 20 knots. latter is operated with telephones.

NOVA SCOTIA TELEGRAPH SYSTEM.

CAPE SABLE SECTION.

-				_			
	Stations.	Intermediate Distances.	Agents and Operators.	Salaries per Annum.	Date of Appointment.	Мето.	
		Miles.		& cts.			_
_A	Barrington	0	W. U. Tel. Co.'s Agent	50 00 or com'n.	Dec. 18, 1883.	50 00 or com'n, Dec. 18, 1883. The commission is 25 per cent upon all business to	I
Z	2 Newellton (including 1½ knots cable)	11	Miss E. A. Smith	50 00 do April 1, 1889.	April 1, 1889.	and from the office in each instance; sad commission guaranteed to be not less than at the rate of \$50 per annum.	
ರ	3 Cape Sable Island lighthouse (including 14 mile cable)	₹ 9	I. K. Doane	50 00 do Dec. 18, 1883.	Dec. 18, 1883.		
	Totals	178		150 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.

GOVERNMENT TELEGRAPH SERVICE.—Continued.

MABOU-CHETICAMP, C.B., TELEGRAFH SYSTEM.

Intermediate Distances. Date of Date of Distances. Date of Date of Distances. Distances.	Мето.	The commission is 25 p. c. of the Government I: tariff receipts, and is guaranteed to amount to less than \$50 per annum. Where 50 p. c. co mission is paid there is no guarantee as to amou
Intermediate Distances. Miles. 20 20 12 5 63 8	Date of Appointment.	April 1, 1887. March 1, 1892. do 3, 1893. April 1, 1889. Jan. 1, 1889. April 23, 1893. do 1, 1887.
Intermediate Distances. Miles. 20 20 12 5 63 8	Salaries per Annum.	\$50 or commission. do Com'n 50 per cent. \$50 or commission. Com'n 50 per cent. \$50 or commission.
Intermediate Distances. Miles. 20 20 12 5 63 8	Agents and Operators.	Mrs. M. McDonald Mrs. Annie McLellan Angus Collins Miss B. M. Ross. Joseph Doncette Mrs. M. Fiset
Stations. Stations. aree. Sarbour aree (loop line wire) ig	Intermediate Distances.	Miles. 20 20 112 112 113 8 8 8 8
Mabou Broad Cove S. W. Marg Margaree F. N. E. Marg Grand Etan Cheticamp.	. Stations.	Mabou Broad Cove S. W. Margaree Margaree Harbour N. E. Margaree (loop line wire) Grand Etang Cheticamp Totals

CHATHAM-ESCUMINAC, N.B., TELEGRAPH SYSTEM.

2 Black Brook 54 Miss M. Williston 50 00 do March 1, 1885 The commission is 25 p. c. of the Governance, and is 42 p. c. of the Governance, and is 55 month to not less than \$50 per an 50 per an 50 per an 50 per an 50 per an 50 per an 50 per an 50 per an 50 per an 50 per an 50 per an 50 per an 50 per an 50 per an 50 per an 50 per an 50 per an 50 per	-	Chatham	0	Great North - western Telegraph Co	\$185 00 or com'n.		This amount is paid for supervision of the line and
12 K. K. McLennan 50 00 do	01 to 4 10	Black Brook Baie du Vin Lower Hardwicke. Fecuninac	15 5 8 8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Miss M. Williston Mrs. M. Brinner Mrs. A. Lewis	8888	March 1, 1885. Aug. 1, 1891. Sept. 1, 1885.	The commission is 25 p. c. of the Government line 85. tariff receipts in each instance, and is guaranteed 91. to amount to not less than \$50 per annum.
	٠,	Font Escuminac lighthouse Totals	42	K. K. McLennan	g g	Nov. 1, 1895.	

BAY OF FUNDY, N.B., TELEGRAPH SYSTEM. GRAND MANAN SECTION.

oV	Stations.	Intermediate Distance.	Agents and Operato: 8.	Salaries per Annum.	Date of Appointment.	Мето.
1	Long Eddy Cable Hut, to	Miles.		& cts.		
-	1 Flagg's Cove	ಣ	Mrs. C. C. Seely (D. Supt.)	420 00	Nov. 18, 1880.	Nov. 18, 1880. The commission is 25 p. c. upon all business to and from the office in each instance; said commission
						guaranteed not to be less than at the rate of \$50 per annum. When 50 p. c. commission is paid
SJ 80 4	2 Woodward's Cove. 3 Grand Harbour 4 Seal Cove.	© 69 ₹	W. A. Fraser F. A. Newton P. Russell	Com'n 50 per cent. \$75 00 or com'n. 50 00 do	Feb. 28, 1893. April 1, 1887. May 1, 1891.	Com'n 50 per cent. Feb. 28, 1893. \$75 00 or com'n. April 1, 1887. \$25 per an. is allowance for repeating Whitehead br. 50 00 do May 1, 1891.
٦ -	Southern Head lighthouse		: :	20 00 60 00	Dec. 1, 1894.	Southern Head office closed 30th November, 1889.
	Branch Line.					
9	Grand Harbour Cheney's Island (\$\frac{1}{2}\$ knot cable) Whitehead Island (\$\frac{1}{2}\$ do)	0 8 4 11	W. Cheney	Commis'n 25 p.c. Feb. 1, 1891. \$50 00 or com'n. Dec. 1, 1890.	Feb. 1, 1891. Dec. 1, 1890.	
	Totals	27.}	•	755 00		

CTION.
O SEC
BELL
MPC

Liberty Cove Cable Hut, to					
Welchpool. U.S.A	-to-ta	M. A. B. tson	100 00 or com'n	May 1, 1890. Dec. 26, 1881.	
Totals	8		200 00		

A cable of 12 knots connects Welchpool with the landing \(\frac{1}{2} \) mile from Eastport; and a cable of 72 knots is laid from Long Eddy, Grand Manan, to Liberty Cove, Campobello.

GOVERNMENT TELEGRAPH SERVICE—Continued.

GROSSE ISLE QUARANTINE TELEGRAPH SYSTEM.

Мето.	This amount is paid for supervision of the line, and covers rent of pole line from Quebec to L'Ange	1, 1885 The commission is 25 per cent of the Government line tariff in each instance, and is guaranteed to	amount to not less than \$50 per annum. Ste. Pétronille office closed May, 1895.	Sept. 1, 1885 Note.—The telephone system on Grosse Isle since May, 1893, has comprised 1 [‡] mile of 2-wire line, with 11 connections or station.	
Date of Appointment.		1, 188		Sept. 1, 1885	
Salaries per Annum.	\$ cts.	50 00 or com'n Mar.	50 00 or com'n. Sept. 50 00 do July 50 00 do Mar.	3. ob 00 03	435 00
Agents and Operators.	Great North-western 185 00. Telegraph Co.	C. Turcott	M. Gobeil P. Pouliot M. Emond	M. Langlois	
Intermediate Distance.	Miles.	टा अ क् र	44.57.59 44.52.59	44. £. 44.	524
Stations.	Quebec	L'Ange Gardien. Orleans Island landing (cable) St. Pierre.	Ste. Pétronille. St. Laurent. St. Jean. St. François St. François Isle Réaux (including 2 knots	Isle Réaux (land line)	Total
No.	-	61	228 2410@F	တ ဂၢ	

CHICOUTIMI AND NORTH SHORE OF ST. LAWRENCE TELEGRAPH SYSTEM:

CHICOUTIMI SECTION.

d Operators. Salaries Date of Appointment. Memo.	\$ cts. \$ cts. 50 00 or com n.	NORTH SHORE SECTION.	er).
	\$ cts. \$ 00 00 or com'n* { 50 00 0 do 50 00 do 50 00 or com'n. 50 00 or com'n. 50 00 do 50 00 do 720 00	NORTH SHORE SECTION.	do do do do do do do do do do do do do d
Inter- mediate Age Distances.	Miles. 9 A. Boivin. 9 A. Boivin. 37 (A. Gauthiei 314 O. Pelietier 3 A. Simard 114 D. Boily		0 000 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Stations.	Bay St. Paul St. Urbain. La Cruche St. Alexis St. Alphonse de Bagotville Chicoutimi Totals		Murray Bay. Cap à L'Aigle. Ste. Fidèle. Port au Persil. St. Simeon. Baie des Rochers. Riv. aux Canards Loop Line. St. Etienne. Tadousac (1‡ knot cable) Bergeronnes Bescumains. Baie des Bacons. Mille Vaches. Portneuf Miils Portneuf Mils
.oV		9	1 284700 001122145 8

GOVERNMENT TELEGRAPH SERVICE—Continued.

CHICOUTIMI AND NORTH SHORE OF ST. LAWRENCE TELEGRAPH SYSTEM—Concluded.

NORTH SHORE SECTION-Concluded.

Мето.		15, 1883 16, 1884 1, 1889 1, 1899 1, 1899 1, 1891 1, 1891 2, 1893 1, 1893 1, 1894 2, 1893 1, 1894 2, 1893 1, 1894 2, 1893 1, 1894 2, 1894 2, 1894 2, 1894 2, 1894 2, 1895 2, 1
Date of Appointment.		fay fay fay fay fay fay fay fay
Salaries per Annum.	s cts.	500 00 per annum May 50 00 or com'n. Oct. 50 00 do May 60 00 do May 60 00 per mouth. Nov. 180 00 per mouth. Nov. 180 00 per mouth. July 180 00 per mouth. July 180 00 per mouth. July 180 00 per mouth. July 180 00 per mouth. July 180 00 per mouth. Nov. 50 00 do May 50 00 do May 50 00 do Oct. 50 00 or com'n. Nov. 50 00 or com'n. Oct. 50 00 or com'n. Oct. 50 00 or com'n. Oct. 50 00 or com'n. Oct.
Agents and Operators.		A. Lausier. N. A. Comeau L. F. Fafard. Z. Poulin A. Bilodeau L. Gomeau E. H. Teku, D. Supt F. E. Vigmault, opr P. E. Vigmault, opr P. Callienne, lineman D. Porlier P. Callienne, lineman Geo. Molloy B. Chambers, B. Chambers, B. Chambers, B. Chambers, B. Chambers, B. Chambers, B. Chambers, B. Chambers, B. Chambers, B. Chambers, B. Chambers, B. Chambers, D. Cormier
Inter- mediate Distances.	Miles.	. 118 184 184 184 177 177 172 173 173 174 175 175 175 175 175 175 175 175 175 175
Stations.		Pointe aux Outardes (cab) Pointe Paradis, Manicouagan River Godbout (cable) Point dea Monts. Trinity Bay West. Trinity Bay East. Caribou Islands Pentecost River. St. Marguerite Seven Islands River Moisie. Shedrake Shedrake Shedrake Magpie. Long Point. Mingan. Pointe aux Esquimaux Totals.
.oN		228288888

Norz. - In the estimates the maintenance of the Chicoutimi and North Shore lines is provided under head of North Shore Line. They are operated conjointly.

ONTARIO-PELEE ISLAND TELEGRAPH SYSTEM.

		_		
Мето.		J. McR. Selkirk D. Supt. 50 00	J. E. Quick. \$500 00 and Com'n Dec. 1, 1890. North Point Lighthouse is the repeating office for the system. C. B. Quick. Comsn. 25 p.c. Nov. 1, 1888. A. M. McCormick. do do 1, 1888. F. B. McCormick. do 1, 1888.	
Date of Appointment.		Nov. 1, 1888 Apill, 1889 Nov. 1, 1888	Dec. 1, 1890 Nov. 1, 1888 do 1, 1888 do 1, 1888	
Salaries per Annum.	\$ cts.	50 00 Comsn. 25 p.c do	\$500 00 and Com'n Comsn. 25 p.c do	
Agents.		J. McR. Selkirk D. Supt. C. Harrison	J. E. Quick. C. B. Quick. A. M. McCormick F. B. McCormick.	
Inter- mediate Distances.	Miles.		11 12 14 15 14	324
Stations.		Leamington Club House Point Pelee Cable to Island	North Point Lighthouse († mile loop) North dock West dock.	Total
.oV		-0160	4 70 9 1-	

This line is operated with telephones.

GOVERNMENT TELEGRAPH SERVICE—Continued.

LINES IN THE NORTH-WEST TERRITORY.

QU'APPELLE-EDMONTON SECTION.

Memo.	Jan. — 1883 Mar. 1, 1885 Nov. 1, 1885 Jan. 1, 1892 Jan. 1, 1892 Jan. 1, 1892 Jan. 1, 1888 Apr. 15, 1890 Apr. 15, 1890 Apr. 15, 1891 Moose office was closed 20th August, 1893. Aug. 1, 1891 Moose office was closed 30th Sept., 1894. July 1, 1891 Jest. — 1888 Jest. — 1, 1893 The office at Edmonton has been operated jointly with May 1, 1886 The Office Apr. 16. Co. since 1st January, 1892.	*The St. Albert branch line is operated with telephones.
Date of Appointment.	Jan. — 1883 Mar. 1, 1885 Jan. 1, 1883 Jan. 1, 1882 Jan. 1, 1888 Apr. 15, 1886 Aug. 1, 1891 Jan. 1, 1892 July 1, 1891 July 1, 1891 Jec. — 1886 Mar. 1, 1893 May. 1, 1893	
Salaries per Annum.	\$ cts. 720 00 600 00 600 00 600 00 720 00 720 00 720 00 720 00 720 00 720 00 720 00 720 00 720 00 720 00	
Agents.	E. W. Warner Miss E. Johnston A. Von Lindeburg C.P. R. Tel. Co's J. Harrington, repairer L. P. O. Noël J. F. Lake, repairer G. G. Mann, oper. & agt. L. Picard, repairer W. C. Gillis, repairer W. G. Gillis, repairer W. G. Ross, agent G. Voyer W. G. Ross, repairer	
Inter- mediate Distances.	Miles. 0 17 46 78 69 74 89 133 133 42 45 45 75 47 47 47 47 48 48 48 48 48 48 48 48 48 48 48 48 48	9 9
Stations,	Qu'Appelle. Fort Qu'Appelle. Fort Qu'Appelle. Tuchwood Humboldt Saskatoon (14 miles loop) Henrietta do Battleford Fort Pitt. Mouse. Saddle Lake. Yictoria. Fort Saskachewan Edmonton	Branch Line— *Edmonton St. Albert. Total
No.	535 1924 v 200000115121 4	12

Dec. 1, 1891... Moose Jaw office is operated jointly with the Canadian June 1, 1893... The Fort Macleod line has been leased to the Northwest Coal and Navigation Co. NORTH-WEST TELEGRAPH LINES-WOOD MOUNTAIN AND FORT MACLEOD SECTION. Memo. Date of Appointment. Dec. 1, 1890. 240 00 600 00 180 00 Salaries per Annum. cts. A. Wilcox, agent...... 90½ J. H. Thompson, agent. Staff. 107 284 Inter-mediate Distances. 0 0 Miles. Fort Macleod Line—
Galt Junction Lethbridge.
Macleod
Fort Macleod Wood Mountain Wood Mountain Line-Stations. Moose Jaw....

No.

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Fotal...

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GOVERNMENT TELEGRAPH SERVICE IN BRITISH COLUMBIA. AS

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Оббе.	Inter- mediate Distances.	Agents, etc.	Positions.	Salaries per Month.	Date of Appointment.	Мето.
Ashcroft Station. Cache Creek Clinton. Bridge Creek. 150-Mile House Soda Creek. Stanley Barkerville Branch. Branch. Branch. Branch. Branch. Branch. Total.	Miles. 0 4 4 28 53 84 40 848 13 276 1	Canadian Pac. Ry. Co. A. LeBourdais C. H. Tingley. W. Jamieson. J. D. McIntosh. J. E. Bowron. J. Stone.	Agentand repairer. Agent and operator Agent and repairer. Agent and repairer.	\$\$ CE. CE. CE. CE. CE. CE. CE. CE. CE. CE.	Feb. 16, 1883. April 13, 1894. Feb. 17, 1873.	This line is 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 Messrs. J. A. Laidlaw and J. Wilson, on the 30th October, 1887.
			VICTORIA-CAPE BEALE.	PE BEAL	ਲੰ	-
Victoria Otter Point Jordan River Port San Juan Carmanagh Lighthouse Cape Beale. Total	0 28 10 30 84 84 84 84 84 84 84 84 84 84 84 84 84	J. Wilson (Vancouver), District Supt. E. Houghton Agent and operator E. Gordon Agent and repairer. I. Deshiens do J. W. Williams, do E. B. Daykin Repairer. R. McDonald, do	District Supt	88888888888888888888888888888888888888	Dec. 23, 1891. Dec. 1, 1891. Nov. 1, 1891 Oct. 25, 1892. Nov. 1, 1891 Nov. 1, 1891 Nov. 1, 1891 Nov. 1, 1891. Nov. 1, 1891.	This line is operated by the Canadian Pacific Railway Co. for the Government, the arrangement being terminable at any time.

		Department	of	Public	Works.
The second secon	Notes.	Commission. April 1, 1893. The commission is 50 per cent of the tolls collected. \$20 per m June 26, 1885. 1 65 do do 1, 1893. Commission. do 1, 1893. do do 1, 1893. do do 1, 1893. do do 1, 1893.			
	Date of Appointment.	April 1, 1893. June 26, 1885. do 1, 1893. do 1, 1893. do 1, 1893. do 1, 1893.	do 1, 1895.	toria.	
	Salaries or Com- mission.	Commission. \$20 per m 65 do Commission. do do	\$50 per m	ugineer at Vic	
	Positions.	and N. Ry. Co. Agents. Commission. April 1, 1893. McMillan Agent and operator. \$20 per m. June 26, 1885. R. Graves. Operatorand repairer 65 do do 1, 1893. Dunsmuir Agent. do do 1, 1893. do do 1, 1893. do 1, 1893. do 1, 1893.	Operator and repairer \$50 per m.	ce of the Resident Ed	
	Staff.	E. and N. Ry. Co. A. McMillan C. R. Graves. J. Dunsmuir	C. T. Haslam	nment through the off	•
	Inter- mediate Distances.	Miles. 0 20 33 32 10 7 34	294	110}	
	Ошсе.	Nansimo Wellington. Parksville French Creek Union (wharf) do (mines) Courtney Comox	Alberni (from Parksville)	Total	

This line is operated by the Government through the office of the Resident Engineer at Victoria.

GOVERNMENT TELEGRAPH SERVICE, 1895.

Location of Lines.	Points connected.	Land lines.	Cables.	Total.*
		Miles.	Knots.	
Newfoundland Nova Scotia	Port au Basque—Cape Ray North Sydney—Meat Cove (with loops)	14 156 1		14
do	Across Bras d'Or Channel do St. Ann's Harbour		12 14	1574
do	do Ingonish Harbour		20) } 23
do do do	On St. Faul's Island. Mabou—Cheticamp. Barrington—Cape Sable.	63 16		63
do	Across Bear Point Channel		1½ 1	173
New Brunswick	Chatham—Escuminac	42	4	42
do do	Eastport—Campobello	$\frac{1}{2}$	13	
do	On mainland Eastport On Campobello Island Campobello—Grand Manan	$7\frac{2}{2}$	71	443
do do do	On Grand Manan Island	204	12	
do Quebec	On Cheney's Island	92	34	J 92
do do	Murray Bay—Point Esquinaux		114	496
do	Manicouagan to Godbout		12 26	
do do	Quebec—L'Ange Gardien	13)
do do	On Orleans IslandOrleans Island—Isle Réaux	294	2	523
do	On Isle Réaux		<u>2</u>	
do do do	On Grosse Isle (all told)	į)
dodo	L'Anse à Fougère—Anticosti	2231	444	$316\frac{1}{2}$
do do	Anticosti—Long Point, Mingan Meat Cove (C.B.)—Magdalen Islands		21 55) } 138ኔ
Ontario	Pelec Island System:	83	1/2	1302
do do do			83	323
North-westdo	Qu'Appelle—Edmonton and St. Albert	$\frac{607\frac{1}{2}}{90\frac{7}{2}}$		607½ 90½
British Columbia . do do		276 \frac{1}{3} 118 110 \frac{1}{3}		276 <u>\$</u> 118 110 \
40	Totals	2,4861	2061	2,6923

^{*}For convenience in totalling, the knots of cable are regarded as statute miles.

APPENDIX No. 13.

NATIONAL ART GALLERY

CURATOR'S REPORT

FOR THE FISCAL YEAR ENDED 30TH JUNE, 1895

APPENDIX No. 13.

NATIONAL ART GALLERY.

OTTAWA, 20th November, 1895.

Sir,—I have the honour to report that the following additions to the gallery

have been made during the fiscal year ending 30th June, 1895.

Oil painting, "At the gravel pits" near Toronto, diploma picture, by Wm. Cruickshank, R.C.A. This painting was handed over to the gallery in compliance with the Act of incorporation of the Royal Canadian Academy.

Oil painting, "A Venetian bather" by the late Paul Peel, R.C.A. This picture was purchased by the Government at a cost of \$600.

During the fiscal year 19,146 visitors have registered their names—an increase of nearly 6,000 over the number of visitors in the preceding year.

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

> > JOHN W. H. WATTS, Curator.

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

APPENDIX No. 14

OFFICIAL CORRESPONDENCE

DEPARTMENT OF PUBLIC WORKS

FROM 1st JULY, 1867, TO 30th JUNE, 1895

APPENDIX No. 14.

OFFICIAL CORRESPONDENCE.

LETTERS' Received and Sent from 1st July, 1867, to 30th June, 1895.

				Years.	,		Received.	Sent.
1867_	-Fron	a 1st July to	31st Decem	hor			2,075	1,511
1868	do						3,498	2,317
1869	do	do	do	JOHN DOL .			3,448	2,317
1870	do	do	do	•	• • • • • • • • • • • • • • • • • • • •		4,961	3,185
1871	do	do	do	•	*************************		6,268	3,983
1872	do	do	do	•	•••••••		8,333	4,428
1873	do	do	do		• • • • • • • • • • • • • • • • • • • •	[10,072	5,707
1874	do	do	do				9,800	5,043
1875	do	do	do	•			9,006	5.006
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	do	to 6th Octo	ober			7,186	4,547
1879	do	7th October					2,033	810
1880	do	1st Januar	y do				8,451	4,410
1881	do	do	đo				9,599	5,529
1882	do	do	do				10,505	5,699
1883	do	do	do		***********		11,633	6,227
1884	do	do	do			}	13,114	6,903
1885	do	do	do				8,977	5,321
1886	do	d o	do				9,644	5,352
1887	do	$\mathbf{d}o$	to 30th Ju	ne			4,866	2,735
1887	do	1st July	do	1888.	••••	1	10,493	6,343
1888	do	do	do	1889.			10,522	7,042
1889	do	do	do	1890.			10,098	7,448
1890	do	d o	do	1891.	*** ****** **** *** ***	[10,576	7,286
1891	do	do	do	1892.		1	11,637	6,700
1892	do	do	do	1893.			11,720	6,220
1893	do	do	фo	1894.			9,517	6,028
1894	do	do	do	1895.			10,190	5.148

Number of Cheques sent by Accountant's to Secretary's Branch and Mailed, from 1882 to 1895.

Year.					No.
		00 10			
882	From	zzna Septem	ber to 30th June,	1883	1,560
883		1st July	· do	1884	3,360
884	do	do	do	1885	3,29
885	do	do	do	1886	3,46
886	do	do	do	1887	4.19
887	do	do	do	1888	4,69
888	do	do	do	1889	4,96
889	do	do	do	1890.	4.81
890	do	do	do	1891	5,37
891	do	do	do	1892.	
	go	do		***************************************	5,400
892			ġο	1893.	7,17
893	do	do	do	1894	7,79
894	do	do	do	1895	8,74

CHEQUES issued by Finance Department and Mailed from Secretary's Branch.

Year.					No.
385	From	1st April	to 30th June,	1885	24
385	\mathbf{do}	1st July	do	1886	95
886	do	do	do	1887	1.15
87	\mathbf{do}	do	do	1888	91
88	do	do	do	1889	88
89	do	do	do	1890	90
90	do	do	do	1891	79
91	do	do	do	1892	82
92	do	do	do	1893	82
93	do	do	do	1894	86
94	do	do	do	1895	59

LETTERS Received and Sent, Chief Architect's Office, from 1st January, 1880, to 30th June, 1895.

				Years.	Received.	Sent.
1880- 1880	Fron	n 1st January 1st July	to 30th Ju	ne		1,278
1881	do	do	do	1881 1882		2,943
1882	do	do	do	1883	3,538	2,859 4,600
1883	do	do'	do	1884	3,860	6,004
1884	do	do	do	1885	4,500	6,718
1885	do	do	do	1886	6,075	6,45
1886	do	do	do	1887	6.816	6,380
1887	do	\mathbf{do}	do	1888	6,947	6,87
1888	do	do	do	1889	6.484	7.66
1889	do	do	do	1890	7,448	6,578
1890	do	do	dο	1891		7.75
1891	do	do	do	1892	6,113	4.26
1892	do	do	do	1893	7,428	6,45
1893	do	do	do	1894	6,900	+4,51
1894	do	$\mathbf{d}\mathbf{o}$	do	1895	7,538	+5.32

^{*} The exact number of letters received cannot be accurately given, but would bear about the same proportion to letters sent as last year.

† The decrease in the number of letters sent, is due to a change made on 1st January, 1894, in the manner of transmitting accounts to the secretary. Previous to that date a letter accompanied each account, but now a bundle of accounts goes with each letter.

LETTERS Sent from Chief Engineer's Office, from January, 1880, to 30th June, 1895.

Year.					No.
880	From	10th Januar	v to 30th Ju	ne	41
880	do	1st July	do	1881	1.79
881	do	do	do	1882	2,35
882	do	do	do	1883	2,65
883	do	do	do	1884	3,61
884	do	do	do	1885	3,11
885	do	do	do	1886	2,86
886	do	do	do	1887	3.28
887	do	do	do	1888	3,55
888	do	do	do	1889	4,22
889	do	do	do	1890	3,37
890	do	do	do	1891	3,94
391	do	do	do	1892	4,00
392	do	do .	do	1893	4.23
893	do	do	do	1894	3,96
894	do	do	do	1895	4,60

Note—The letters, including returns, received in the Chief Engineer's Office may be estimated at the rate of two received to one sent.

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APPENDIX No. 15

TEREDO NOTES

BY

E. T. P. SHEWEN

RESIDENT ENGINEER DEPARTMENT OF PUBLIC WORKS

ΑT

ST. JOHN N. B.

APPENDIX No. 15.

TEREDO NOTES

BY E. T. P. SHEWEN, RESIDENT ENGINEER OF THE PUBLIC WORKS DEPARTMENT AT ST. JOHN, N. B.

(READ BEFORE THE NATURAL HISTORY SOCIETY OF NEW BRUNSWICK.)

Two inveterate enemies of timber are found in the waters of the maritime provinces, viz., the limnoria and the teredo, familiarly known as the nipper (or gribble) and the borer. Both are eminently destructive, but the depredation committed by the latter, being concealed until far advanced, is more dangerous than the manifest devastation of the former. For those who have never investigated the subject, it is difficult to realize either the extent of the damage inflicted, or the rapidity with

which havor is wrought among marine works by the unbuilding teredo.

The accompanying specimens of worm-eaten wood are from the coasts of Northumberland Strait, where they have remained in the tide-way from two to three years, a life comparatively long in those waters. In their present dry state, the actual flaccid condition of timber structures bored by this worm can scarcely by appreciated, for when first cast ashore, pulpy and sodden, these sieve-like sections were susceptible after the manner of sponge, to compression by the hand. Remembering this, it may be understood how readily piers and breakwaters, weakened by the borer, are knocked to pieces by the waves. The specimens exhibited were not detached piles, but the face-timbers, 12 inches square, of a work, securely bolted together tier apon tier, forming a solid wall with only one side exposed.

Unfortunately, the teredo carries on the work of demolition at even greater speed than was applied in this instance. Hemlock timbers, also a foot square, which had remained in the water at the same place, some for 12, some for 17 months, were found to be so throughly destroyed as to be easily penetrated through the side to a depth of 9 inches by simple pressure of the point of a walking-stick. Except at the ends, these timbers viewed casually, presented no unusual appearance; but when stepped upon, revealed by collapse of the deceptive surface, the utter ruin beneath. Closely examined, the outside seemed pierced by pin-holes gradually expanding towards the heart of the wood into tunnels the size of a pencil. At the same place, spruce piles 10 or 12 inches in diameter, driven early in July, came ashore cut off by the teredo, on the 3rd November following. In another example, timbers of the size already mentioned, had been reduced in width to six, and even five inches. In this case, the up and down bolts, driven at mid-breadth to fasten the tiers together, were bared, the surrounding wood having been entirely eaten away.

Either in the form of spawn, or soon after emerging from that stage, the teredo possesses the power of attachment to timber, and in less than two weeks is capable of pricking a small hole for entry. Once within, the progress of growth is attested by the gradual enlargement of the tunnel, until a diameter of perhaps three-eighths of an inch is attained in hardwoods. As growth proceeds, the necessity of boring to avoid being pinched is obvious. It is believed that the teredo draws nourishment from minute organisms in the water, the timber representing, not food but habitation.

In New Brunswick, the teredo infests the whole coast bordering on Northumberland Strait. In length it varies from one and a half to four inches, increasing as the facilities for boring, or breeding are multiplied. In one place, before a contemplated

work was begun, none were found to exceed the smaller size mentioned. After the work had been finished, the worms appeared in infinitely greater numbers, and attained double the former length. Apart from the extended accommodation thus provided by the large quantity of timber brought within reach of the teredo, doubtless the eddies, slackwater, and lee, formed by the projection of the work from the land across the current, were also favourable to development, the temperature rising in the still water.

The light-coloured, shell-like head of the teredo is somewhat globular in form, open in front, and lipped after the fashion of an auger. With this apparatus, it is supposed the work of destruction is done. The soft white body apparently receives protection from a fragile tube frequently found lining the tunnels. The vertical working range lies between the bottom and half tide, but specimens may be met in wood above that level. Destructive power is greatest when the temperature of the water is high, that is from the middle of July to the end of August, or a little later. By October the worm is less inclined to attack new timber, but whether autumnal inactivity becomes absolute dormancy in the winter is not positively known. It is believed that the teredo has one enemy, (Lycoris fucata) which also preys upon the pholas.

Experiments made in Northumberland Strait with pieces of pine, spruce, hemlock, birch, beech, and maple treenailed together, and exposed at low water mark from October to December, showed no trace of the worm when taken up. Another raft, similar to the last, but lacking the birch, placed under the ice on the 7th of February, was found after 77 days' immersion to be untouched also. Since these timbers were in contact with ice, the experiments do not conclusively establish torpidity in the cold months, for it is possible that in deeper water the worm may work during the winter. It would be interesting to know whether, in timbers between half-tide and low water, the worms are killed by frost. On the 20th of April following, the first raft was replaced in the water, and suffered to remain

undisturbed until the 29th of October, a period of 192 days.

Upon examination, it was discovered that the pine and spruce had been demolished, only a portion of the sticks being left. The hemlock, while preserving the original outward form, had become a mere honeycomb, and the hardwoods were much in the same condition as the hemlock. In fact all the timbers were destroyed. When the raits were carefully taken apart, it was found that teredines did not, as popularly reputed, invariably hold inviolate each others tunnels, but bored capriciously in every direction; that is to say, with the grain, directly across, or obliquely across it. More than this, there were instances in which they had bored from one stick into another below placed transversely to the first, the tunnel continuing across the seam. In such cases the timbers were hard up, without any film of water between, being tightly drawn together by the treenails. Of course, if the second timber had not been quite close to the first, it would have been entered by other worms through the intervening water. In several examples, the tunnels ran without interruption from the timbers through the treenails.

Near the close of the paper in Bulletin No. 8 (Natural History Society) upon the Mollusca of Acadia, it is suggested that since foul or brackish water is avoided by the teredo, the fact might be turned to practical account. One difficulty in the way of utilizing either, lies in the differing density of fresh and salt water. An apt illustration occurred at one of the Cape Breton coal mines. Some of the pit-water, strongly impregnated with iron, sulphurous, and otherwise unsavory, was discharged immediately alongside the colliery shipping-pier. For some time it was thought that the water conferred-complete protection, for the timbers of the pier, highly coloured by it, showed no trace of the teredo. Later, it was discovered, by failure of the cribwork deeper down, that the stratum of red water ceased a few feet beneath the surface, and that in the pure salt water below, the worm flourished.

The Dutch commission referred to in Bulletin No. 8, was appointed in 1857, and began two years afterwards a series of careful experiments lasting for a period of years. The valuable result of the labours of that commission, reported in the

Popular Science Monthly for August and September, 1878, by Dr. E. H. Von Baumhauer, one of the members, represents the most reliable information extant upon the subject. Briefly, it showed that no mechanical protective application was of real service, and that only impregnation with creosote afforded immunity from attack of teredo or limnoria. In the use of creosote, it was found that two points were essential to success: (1) the oil must be of proper quality, (2) the process of im-

pregnation must be thoroughly performed.

Considering No. 2 first, it may be said that the most approved process is that of Mr. S. B. Boulton, in which advantage is taken of the difference between the boiling point of water (212 F.) and of creosote (say 400 F. as a minimum) to evaporate all the sap and moisture in the timber by wet heat, and so to make with certainty room for the oil without injury to the fibres. At 250 degrees F. the woody fibre of timber begins to be decomposed, and the pyroligneous acids are distilled. At less than 212 degrees, evaporation of the moisture will not take place, hence attention to the thermometer in the conduct of the process is imperative. The creosote is introduced into the cylinders containing the timber to be treated at a temperature between 212 and 230 degrees. The sap thus vaporized rises to the surface, is drawn off through the dome by the vacuum pump, led to a condenser, and finally to a receiver where it may be measured. The creosote of course flows into the empty pores, but to make assurance doubly sure, the pressure pumps are put on up to 130 pounds per square inch.

Creosote is produced by simple distillation of tar, the mother of most of the commercial by-products of coal. The lighter oils, from which dyes, drugs, etc., are extracted by subsequent treatment, come over first, the creosote last, while a residue of pitch is left behind. The best creosote, known as London Oil, sp. g. about 1.055, is derived from Newcastle coal, through tar obtained by coking at high temperature. Since the preservative action of the oil is two fold, viz., chemical in the antiseptic sense, and mechanical in excluding the entrance of fresh germs by closing the pores, the specific gravity and the constituents become of the utmost importance. It is essential that as few as possible of the latter, should be either volatile below 600 F.

or soluble in water. Wood creosote is of no use for marine purposes.

The substances eliminated by destructive distillation of coal are almost innumerable. Although results vary somewhat with the different measures, one ton of coal, 2,240 pounds, worth from 90 cents to \$1.75 at the pit-mouth, usually yields for first results, besides ammoniacal liquor and illuminating gas, 1,200 pounds of coke worth \$3.60 to \$4 per ton, and 12 gallons of coal tar. Broadly speaking, the twelve gallons of coal tar give upon distillation:

These quantities fluctuate according to the time allowed for the different

runnings, and the quality of the tar.

Although the value of crossote as a preservative is well known, and it is likely to be in request provided the oil can be placed in the market at a price sufficiently low to encourage the use, coal tar is not at present distilled in Canada. The undertaking should be feasible, since the oil is only one of many results from a single operation. In fact the production can be combined with manufacture of the almost infinite extracts obtained from the light oils given off before the crossote is reached. Besides, for the residue, pitch, now altogether imported, there is ready market even after the local requirements for use in artificial asphalt, roofing and other purposes are satisfied. On account of the growth of the oriental market for the patent fuel made at Cardiff by compressing culm into bricks, the demand at that port for pitch, one of the ingredients, exceeds the supply, notwithstanding the price, 27 shillings per ton, recently offered.

In making creesote and the other by-products of coal, the residue when all is over, consists of pitch equal to one-half, and sometimes two-thirds of the original quantity of tar placed in the still. An enterprise in which a residual product can

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be shipped at good profit appears to offer advantages worthy of consideration. Yet near New Glasgow, where 125 tons of coke are sometimes made daily, by burning 250 tons of coal, the ovens are not constructed to save the tar, about three thousand gallons being, as it were, wasted every day when coke is made. The maritime provinces, abounding in coal said to resemble in composition the Newcastle seams, present a field so eminently suitable for manufacture of the by-products, that the establishment of an industry capable of indefinite expension can only be a question of time.

APPENDIX No. 16

DETAILED STATEMENT OF EXPENDITURE

ON ACCOUNT OF

REPAIRS, Etc.

то

PUBLIC BUILDINGS, CANADA

For the Fiscal Year ended 30th June, 1895

BY

O. DIONNE, Esq., ACCOUNTANT

APPENDIX No. 16.

DETAILED STATEMENT of Expenditure on account of "Public Buildings-Repairs, &c.," for fiscal Year ended 30th June, 1895.

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	Extraordinary re-	& cts.			226 50	
REPAIRS,	Painting, glazing, Lc.	\$ cts.	2 25	181 63	234 40	41 74
	Brick and stone- work, plastering, &c.	cts.			294 40	5 64
	Lumber, &c.	& cts.				62 08
	Repairing roots, chimney tops, &c.	& cts.				
	Hardware, metal work, plumbing, &c.	& cts.	129 88 93 129 88 86 129 88 88	23 50	62 69 62 64 65 64 65 169 43 49 76	426 87
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APPENDIX No. 16,-Expenditure on account of "Public Buildings, Repairs," &c.-Continued.

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APPENDIX No. 16.-Expenditure on account of "Public Buildings, Repairs," &c.-Continued.

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	Travelling expen- ses, telegrams, &c.	e cts.				1,160 09	
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REPAIRS	Painting, glazing, &c.	s cts.	72 45 4 00 1,096 79	585 00 193 49 177 32	88 88 89 80 80 80 80 80 80 80 80 80 80 80 80 80	10,47281	22 19 50 19 50
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	Lumber, &c.	\$ cts.	10 25 1,557 24	114 28	52 00	6,408 35	24 45
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DOMINION OF CANADA

ANNUAL REPORT

OF THE

DEPARTMENT OF RAILWAYS AND CANALS

FOR THE PAST

FISCAL YEAR FROM 1st JULY, 1894, TO 30th JUNE, 1895

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
1896

[No. 10—1896.] Price 45 cents.

Department of Railways and Canals.

To His Excellency the Right Honourable Sir John Campbell Hamilton-Gordon, Earl of Aberdeen, &c., &c., &c., Governor General of Canada, &c., &c., &c.

MAY IT PLEASE YOUR EXCELLENCY:

The undersigned has the honour to present to Your Excellency the Annual Report of the Department of Railways and Canals, of the Dominion of Canada, for the past fiscal year, from the 1st of July, 1894, to the 30th June, 1895.

All of which is respectfully submitted,

JOHN HAGGART,

Minister of Railways and Cana's.

Department of Railways and Canala

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- 2. Nova Scotia, Cape Breton, Prince Edward Island and part of New Brunswick.
- 3. New Brunswick and parts of Maine and Quebec.
- 4. do do taking in Montreal.
- 5. Eastern Ontario and part of Quebec.
- 6. Western Ontario.
- 7. North of Lake Superior.
- 8. Lake Superior to Manitoba.
- 9. Manitoba and Assiniboia.
- 10. Assiniboia and Saskatchewan.
- 11. Assiniboia and Alberta to the Rocky Mountains.
- 12. British Columbia.
- 13-16. Canals.

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Department of Railways and Canals.

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REPORT

1894-95.

To His Excellency The Earliof Aberdeen. Governor General.

MAY IT PLEASE YOUR EXCELLENCY, -I have the honour to submit the Annual Report of the Department of Railways and Canals for the fiscal year ended on the 30th of June, 1895.

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.*

In an appendix will be found a special statistical report, embodying returns for the fiscal year ended on the 30th June, 1895, made by Canadian railway companies as required by statute. This report gives information as to railroad operations in Canada, including the Government roads.

The following general facts gathered from the compilation will be of interest.

10-c

^{*} 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, 1895. Information on points relating to subsidized lines of railway has, in previous years, been brought down in the general report to the end of December, thus giving the results of the season's work. This year, however, it has been found necessary, in consequence of the early date of the meeting of Parliament, to confine statements to the operations of the fiscal year.

The number of railways in actual operation, including the two Government roads. the Intercolonial and the Prince Edward Island Railways, was 138, two short and unimportant roads having temporarily ceased operation; some of these, however, are amalgamated or leased; making the total number of controlling companies 74, not including the Government railways.

The number of miles of completed railway was 16,091, an increase of 323 miles, besides 2.054 miles of sidings. The number of miles laid with steel rails was 15,745. The number of miles in operation was 15,977.

The paid-up capital amounted to \$894,640,559, an increase of \$6,675,539. The gross earnings amounted to \$46,785,487, a decrease of \$2,777,041, and the working expenses aggregated \$32,949,669, a reduction of \$2,468,764, compared with the previous year, leaving the net carnings of the year \$14,035,818, a decrease of \$298.277 The number of passengers carried was 13,987,580, a reduction of 474,918, and the freight traffic amounted to 21,524,421 tons, an increase of 803,305 tons. The total number of miles run by trains was 40,661,890, a reduction of 3,108,139 miles. The accident returns show that 9 passengers were killed.

RAILWAY CONSTRUCTION EXPENDITURE.

BEFORE AND SINCE CONFEDERATION.

The following shows the total amount expended by the Government for construction of railway works or granted in aid of such construction: embracing the period prior to confederation and extending down to the 30th of June. 1895:

(a.) Intercolonial Railway system as established by the		
Act 54-55 Vic., ch. 50 (1891)	\$55 ,007,939	40
Prince Edward Island Railway	3,750,565	38
Montreal and European Short Line Railway	333,942	72
(b.) Carleton Branch Railway	48,410	4 8
Canadian Pacific Railway-Works built by the Govern-	•	
ment and transferred to the Canadian Pacific Rail-		
way Company, including payments made under		
award for works in B.C	31,014,163	78
Canadian Pacific Railway-Other expenditure on sur-	,	
veys, explorations, telegraph lines, Dawson Route,		
Fort Frances Lock, &c	6,639,581	43
(c) Annapolis and Digby Railway	119,225	80
Total expended by the Government itself on rail-		
way works	\$96,913,828	99

⁽a) Certain amounts, originally charged to "Capital," expended prior to confederation on railways which became part of the Intercolonial, were subsequently transferred to "Consolidated Fund" (see the accountant's note p. 20). They are not included in the above, but are included in his Recapitulation p. 27.

(b) Being the difference between \$88,410.48 expended by the Government and the sum of \$40,000, paid to it in March, 1893, by the Corporation of St. John, to whom this road was transferred.

(c) Being the expenditure over and above the sum of \$500,000 voted as a subsidy by the special act 52 Vic., ch. 8 (1889), which sum is now included in the "subsidies to railways" under the heading "Western Counties Railway" (see accountant's statement p. 33), this section having been transferred to that Company. ХII

SUBSIDIES TO RAILWAYS.

Canadian Pacific Railway	25,000,000 00
(d) Canadian Pacific Railway Extension to Quebec	1,500,000 00
(e) Canada Central Railway	1,525,250 00
Western Counties Railway (Annapolis and Digby)	500,000 00
(f) Other railways	12,487,136 54
Total paid as subsidy	41,012,386 54
Total expenditure	\$ 137,926,215 5 3

The expenditure for each year is shown in Appendices 1, 2 and 3.

This amount does not include the annual subsidy of \$186,600 payable half yearly for twenty years, dating from the 1st of July, 1889, to the Atlantic and North-west Railway Company; nor the annual payment of \$119,700 to the Provincial Government of Quebec, being interest at the rate of 5 per cent on the sum of \$2,394,000 granted by 47 Vic., ch. 8 (1884), for the line between Ottawa and Quebec. 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);-

Intercolonial Railway Route-		
•	Miles.	
By Intercolonial Railway to Point Lévis	675	
Grand Trunk Railway to Montreal	173	
·		848
(Or by forry across the St. Lawrence to Quebec, thence		
by North Shore Railway, C.P.R., also 173 miles.)		
Canadian Pacific Railway Route—		
By Intercolonial Railway to St. John, N.B	275	
New Brunswick Railway and Maine Central Rail-		
way to Muttawamkeag	146	
Canadian Pacific Railway to Montreal	334	
•		775

⁽d) Of this, \$970,000 was expended in the purchase of bonds of the road, which were subsequently cancelled under the Act 54-55 Vic., ch. 11.

(e) Including \$85,250 refunded to the town of Pembroke.

(f) Including value of old rails transferred, and also the \$500,000 expended on the Annapolis and Digby section of the Western Counties Railway.

115

— 814

Grand Trank Railway Route-Miles. By Intercolonial Railway to St. John, N.B..... 275 . 90 Maine Central Railway 224 Total up to Danville Junction...... 589 By Grand Trunk Railway to Montreal 270 - 859 Témiscouata Railway Route— By Intercolonial Railway to St. John..... 275 New Brunswick Railway to Edmunston. 170 Témiscouata Railway to Rivière du Loup...... 81

MONTREAL TO THE PACIFIC COAST.

Intercolonial Railway to Lévis.....

CANADIAN PACIFIC RAILWAY.

Note.—A somewhat detailed statement of the Government transactions with the company will be found in the Annual Report of this department for the year 1887.

	Trunk Line.	
	Quebec to St. Martin's Junction (13 miles north of Montreal)	Miles. 159
	` <u>-</u>	
	Montreal (at the head of Atlantic Ocean Navigation to St. Martin's Junction)	13
	St. Martin's Junction to Callander	331
on sed on ct.	Callander to Port Arthur	
portion company lbsidized u n d e r	Port Arthur to Red River (opposite Winnipeg) 428 Red River to Savona's Ferry	
this e cc result ect	Savona's Ferry to the waters of the Pacific Ocean	
For this the c were su direct their c	at Port Moody 213	0 7 4 5
	Port Moody to Vancouver	2,547 15
	Total, Montreal to Vancouver	2,906
	7	

This railway was opened for through traffic on the 28th of June, 1886.

By the Act 51 Vic., ch. 32, approval and ratification was given to a certain agreement, dated the 18th of April, 1888, provisionally made between the Government and the company, whereby the restrictions contained in Article 15 of the original agreement for the construction of the road, barring the Dominion Parliament for twenty years from authorizing the construction of railways south of the Cauadian Pacific Railway from any point at or near that road, except those running south-west, were removed. By this agreement, the Government undertook to

guarantee the payment of interest at 31 per cent on an issue of the company's bonds, to the extent of fifteen million dollars, running for a term not exceeding fifty years; the unsold lands of the company's subsidy, estimated at nearly fifty million acres, to form the security for such bonds. The arrangements contemplated by this agreement are being carried out by the Department of Finance. A deed of mortgage in favour of special trustees, one of whom is the Minister of Finance, has been executed under date the 2nd of June, 1888, having previously been approved by an Order in Council of the 1st of that month, being a mortgage of the said unsold lands of the company's subsidy, amounting to 14,934,238 acres, and constitutes the said security.

By the Act passed in 1891, 54-55 Vic., c. 11, respecting the North Shore section of the Canadian Pacific Railway, authority was given, subject to certain provisions for the cancellation of the mortgage bonds of the North Shore Railway, which to the value of \$1,108,626, had been purchased by the Government for the sum of \$970,000 (part of a sum of \$1,500,000 voted by Parliament in the years 1884 and 1885, to secure to the port of Quebec free access for the trains and traffic of the Canadian Pacific Railway) and for discharging that company from all liability in respect of such bonds. The conditions under which this action might be taken were, as stated in the Act, that the company should execute a deed of agreement binding itself to complete and provide, with all due diligence, the following works and improvements. namely: --

"Rolling stock, including sleeping cars, day coaches, baggage, mail, and express cars, locomotives and freight cars, of a standard equal to that used on other portions of the company's railway system, involving an outlay of about three hundred and fifty thousand dollars.

"Improvements over the whole line between St. Martin's Junction and the city of Quebec, of such a character as to bring that section up to the highest standard of the other Canadian Pacific stations, including additional accomodation 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 developement of stone, lumber and other traffic, the substitution of iron for wooden bridges on the line of the North Shore Railway, and the construction of the following specific works, that is to say:-

- (1.) In the city of Quebec:
 - (a.) One grain elevator;

(b.) One flour shed;

- (c.) Such local improvements and facilities as are necessary for the handling of the traffic of that city.
- (2.) In Three Rivers:

- (a.) One grain elevator;(b.) Improvements over the loop line;
- (c.) Improvements on the Piles Branch;

"The said improvements over the whole line involving an outlay of about \$300,000, in addition to the said outlay on rolling stock;

"The whole to be completed to the satisfaction of the Minister of Railways and Canals."

In pursuance of this Act, and on application by the company, an Order in Council was passed on the 14th of December, 1891, reciting the facts of the case and approving of the execution of a draft agreement, by which the company binds

itself to carry out the improvements called for by the Act; expending the money thereon as follows:—

"At least two hundred thousand dollars (\$200,000) during the year ending on the first day of April, A.D., 1893; an aggregate of at least three hundred and fifty thousand dollars (\$350,000) to the end of the year ending on the first day of April, A.D., 1894; and an aggregate of at least five hundred thousand dollars (\$500,000) to the end of the year ending on the first day of April, A.D. 1895, and an aggregate of at least six hundred and fifty thousand dollars (\$650,000) to the end of the year ending on the first day of April, 1896, subject to such extension in respect of any repairs or renewals for which the necessity has not arisen as may be granted by His Excellency the Governor in Council."

On the 22nd of December, 1891, the agreement so authorised was duly signed. The works are in progress, but no inspection has yet been made.

In the agreement dated the 20th of November, 1886, and executed under an Order in Council of the 2nd of that month, which constituted the basis of the final settlement of matters between the Government and the company prior to the transfer of the road to them, a special provision was inserted, in view of dispute as to the condition in which the work in British Columbia executed by the Government should be handed over. The company accepted the same, "subject to the adjustment and correction by the Government of any defects or deficiencies in the construction thereof, if any, according to the specifications and conditions of the contracts therefor, except in so far as the same were modified by the Government prior to 21st of October, 1880."*

For the determination of the questions covered by the foregoing, a special arbitration was authorized by an Order in Council of the 5th of January, 1888. The arbitrators duly made their award, dated the 6th of July, 1891, and it was furnished to the Government in October, 1891, the amount fixed thereby as payable by the Government to the company being \$579,255.20. The amount claimed by the company was \$12,000,000. This award, in effect, represents the value of work which the arbitrators find the Government should have performed on the sections of the road in British Columbia constructed by it. The amount awarded was to be expended, under the supervision of an officer of the Government, for the improvement of the railway in certain specified directions.

The total value of the work so executed from the date of the award up to the 1st of September, 1895, as returned by the Government officer in charge is \$319,892.02, which added to the expenditure, \$202,675.20, prior to the date of the award makes the total expenditure thereunder \$522,567.22, to this has to be added the sum of \$8,885.20 for work done in the month of September 1895, making the total of \$531,452.42 and leaving still to be expended the sum of \$47,802.78. A detailed report from the Inspecting Engineer on the work executed will be found in Appendix 6, p. 124.

It should be noted that for the year ended on the 30th June, 1895, the company had under traffic, in Canada, 6,159 miles of railway, including leased lines—and that its gross earnings were \$17,912,273.60 (as against 6,094 miles of railway and receipts \$19,357,098.05 the previous year). The total expenditure for

^{*}The date of the company's contract.

working expenses was \$11,282,506, making the net earnings \$6,629,767.60. The company carried 2,892,995 passengers and 3,720,567 tons of freight. These figures, which apply only to the traffic in Canada, are taken from the sworn statements of the company, furnished in accordance with the Railway Act. (See Railway Statistics Appendix).

GOVERNMENT RAILWAYS IN OPERATION.

The several lines maintained by the Government are: The Intercolonial, the Windsor Branch (maintained only), and the Prince Edward Island Railway, making a total of 1,397½ miles.

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 Apperdices Nos. 4, p. 34, and 5, p. 66, containing reports from the Chief Engineer of the department, the General Manager of Government Railways, and the officials of these roads.

The general revenue accounts for 1894-95 show the following as the financial position of these roads for the fiscal year.

The Intercolonial Railway system, 1,142 miles in operation, earned \$2,940,717.95 and the working expenses aggregated \$2,936,902.74, leaving a profit of \$3,815.21.

The Windsor Branch is maintained, but not operated, by the Government, which takes one-third of the entire receipts. Its length is 32 miles. The Government earnings amounted to \$59,077.64, and the expenditure on maintenance was \$14,640.07 leaving a profit of \$24,437.57.

The Prince Edward Island Railway is 211 miles long. Its earnings amounted to \$149,654.78, and the working expenses were \$232,905.69; the loss on the year's operation being \$83,250.41. Deducting from the profit made on the Intercolonial and the Windsor Branch the loss on the Prince Edward Island Railway, the net loss was \$54,997.63.

The gross earnings of all the Government roads for the past fiscal year amounted to \$3,129,440.37, and compared with those of the preceding year show a decrease of \$49,579.20. The gross working expenses amounted to \$3,184,448.00 a reduction of \$41,760.13.

INTERCOLONIAL RAILWAY.

The Intercolonial Railway touches six Atlantic Ocean ports, namely Pointe du. Chêne, Pictou, Halifax, St. John, Sydney and North Sydney. Connection is made with the Grand Trunk Railway at Chaudière Junction and with the Canadian Pacific Railway at Quebec (by ferry from Lévis).

The total length of the road is 1,142 miles, to which is to be added for freight branches 12½ miles, making a total of 1,154½ miles.

xvii

The following are the through distances:—	Miles.
Lévis (opposite Quebec) via St. Joseph and St. Charles Junc	·
tion (14 miles) to Halifax	675
Lévis to St. John	57 8
Lévis via Truro { to Sydney	827
to North Sydney	820

Note.—At Lévis, passengers make connection with the Canadian Pacific Railway and with the Grand Trunk Railway. Freight is carried direct along the old main line between Chandière Junction and St. Charles Junction (17 miles), instead of round by Lévis to St. Charles Junction, a total distance of 24 miles.

CAPITAL ACCOUNT.

During the fiscal year there was an addition of \$327,034.51 to the Capital Account expenditure, making the total expenditure chargeable to "Capital," on the whole road as amalgamated under the Act 54-55 Vic., ch. 50 (1891), up to the 30th of June, 1895, \$55,007,939.40.

The additions made during the year included \$122,708.28 for increased accommodation at Halifax, \$118,15\\\.94 for the construction of the branch line from Windsor Junction to Dartmouth, \$9,984.24 for fitting the automatic break to freight cars, and \$62,610.41 paid in settlement of claims in connection with the construction of the Oxford and New Glasgow and Cape Breton sections of the road.

REVENUE ACCOUNT.

The gross earnings of the year amounted to \$2,940,717.95, and the working expenses to \$2,936,902.74, making the excess of earnings over expenditure \$3,815.21. The expenditure was less than that of the previous year by \$44,769.24.

Comparing the earnings with those of the previous year, the passenger traffic produced \$963,914.44, an increase of \$4,999.31; the freight traffic amounted to \$1,782,608.54, a decrease of \$51,517.80, and the carriage of mails and sundries produced \$194,194.97, an increase of \$273.83.

The value of stores, including fuel and steel rails, on hand at the close of the fiscal year was \$691,347.30.

The cost per mile of railway was \$2,571.71 against \$2,610.94 the previous year, and the cost per mile run by trains was \$73.43 cents against \$70.94 cents the previous year.

GENERAL OBSERVATIONS.

In comparing the traffic of the past fiscal year with that of the previous year, the following features will be of interest:—

The total number of passengers carried was 1,352,667, an increase of 51,605. The local passenger traffic increased by 56,257, but the through traffic showed a decrease of 4,652. The freight traffic amounted to 1,267,816 tons, a decrease of 74,894 tons, the local freight having fallen off to the extent of 64,740 tons, and the through freight to the extent of 10,154 tons.

Of flour there were carried 938,351 barrels, a decrease of 6,616. Of grain there were carried 1,036,384 bushels, a decrease of 268,300. No portion of this was for shipment at Halifax. Lumber showed an increase of 1,739,320 superficial feet, the total quantity transported being 200,507,949 feet. There was a decrease of 7,097 in the number of live stock carried, the number being 72,106. Coal showed a decrease of 93,491 tons, the quantity being 385,200 tons. Of raw sugar 10,342 tons were carried, an increase of 3,567 tons, the whole quantity being for local stations. Of refined sugar 33,865 tons were carried, an increase of 284 tons; of this all but 4,695 tons was for points west of the road. A total of 6,892 tons of fresh fish, an increase of 517 tons, and a total of 10,209 tons of salt fish, an increase of 2,512 tons were carried.

A further addition was made to the number of freight cars fitted with the automatic air brake, the number so fitted being now 971.

Twenty-five miles of track were relaid with the heavier steel rail, 67 pounds to the yard, in place of the 56 pounds rail. This work was charged to revenue.

On the 20th of October, 1894, the engine house, at Rivière du Loup, was destroyed by fire and a number of locomotives were damaged. The rebuilding of the engine house cost \$6,363.18 and the repair of the locomotives \$10,981.11.

By a fire which occurred at the Halifax deep water terminus on the 27th of February, 1895, railway property was destroyed to the value of \$202,100, the wharf and the grain elevator being the principal losses. The work of repair was at once commenced and temporary arrangements were made to obviate delay and inconvenience so far as possible.

A second fire on the 19th of May, 1895, occurred at the Richmond wharf near Halifax, entailing a loss to the extent of \$100,000.

The old railway crossing of the Narrows at Halifax harbour, giving communication with Dartmouth, having been practically destroyed by storms, has been abandoned, and the construction of a branch line, 112 miles in length, between Windsor Junction and Dartmouth is in progress.

The winter of 1894-95 was severe, entailing heavy cost for removal of snow and ice, the sum of \$64,000 being expended in this direction.

All necessary repairs were made to structures, buildings, wharves, and other works, and the whole road, with its rolling stock has been maintained in a condition of efficiency.

Various statistical and comparative tables and other detailed information will be found in the appended reports of the Chief Engineer of the department, and of the General Manager and other officers of the Intercolonial Railway. (See Appendices 4 and 5.)

WINDSOR BRANCH.

This road is 32 miles in length. It extends from Windsor Junction, on the Intercolonial Railway, to Windsor.

This railway is operated by the Windsor and Annapolis Railway Company, now called the Dominion Atlantic Railway Company. The company pay all charges in connection with the working of the traffic, two-thirds of the gross carnings being allowed them, the Government taking the remaining one-third, and assuming all

costs of maintenance of the road and works. This arrangement is carried out under an agreement dated the 13th of December, 1892, which extends for a further term of 21 years arrangements similar to those made in 1871.

All charges for superintendence and supervision of maintenance of works are borne by the Government, the duty of supervision being performed by the chief officers of the Intercolonial Railway.

The gross earnings of the Government (one-third of gross receipts) amounted to \$39,077.64, an increase of \$6,102.17. The expenses of maintenance amounted to \$14,640.07, a decrease of \$3,005.02, leaving the profit to the Government \$24,437.57.

The road has been maintained in good order. Details will be found in the appendices. (See Appendix 5, p. 100.)

PRINCE EDWARD ISLAND RAILWAY.

LENGTH OF LINE.

	Miles.
Souris to Tignish	168
Mount Stewart to Georgetown	24
Charlottetown to Royalty Junction	. 5
Emerald Junction to Cape Traverse	. 13
Alberton to Cascumpec Wharf	. 1
	211

The railway was first opened for traffic on the 12th of May, 1875.

CAPITAL ACCOUNT.

The total cost of the road and equipment chargeable to capital account at the close of the fiscal year 1893.94 was \$3,750,565.38. There was no addition during the fiscal year 1894-95.

REVENUE ACCOUNT.

On revenue account the gross earnings amounted to \$149,654.71., and the working expenses to \$232,905.19, the over expenditure being \$83,250.41.

Compared with the previous year the gross earnings show a decrease of \$8,879.05. The railway carried 125,089 passengers, an increase of 1,362, producing \$62,239.37, a decrease of \$1,920.23. Of freight there were carried 48,325 tons, a decrease of 5,252 tons, producing \$68,061.11, a decrease of \$6,881.72. The transport of mails and sundries produced \$19,354.30, a decrease of \$77.10.

Compared with the previous year, the expenditure was greater by the sum of \$6,014.13.

The cost per mile run by trains was 95.35 cents, a reduction of 1.57 cents; and per mile of railway \$1,109.07, an increase of \$28.34.

The winter was unusually severe and the cost of clearing snow and ice, \$13,568.67, was greater, by \$3,873.73, than the cost in the previous year.

The value of stores on hand at the close of the fiscal year was \$106,748.57.

The road, with its buildings and rolling stock has been maintained in a satisfactory condition.

Details of operations will be found in Appendix 5, p. 105.

Communication between the Prince Edward Island Railway and the Intercolonial is afforded in summer by steamer between Summerside and Point du Chêne, between Charlottetown and Pictou, and between Georgetown and Pictou, and in winter by the specially-built steamer "Stanley" between Georgetown and Pictou and between Charlottetown and Pictou; there is also further provision made for communication by iceboats from Cape Traverse. These cross the Strait to Cape Tormentine, on the mainland, a distance of about 9 miles. Here, by the line of the New Brunswick and Prince Edward Railway, about 40 miles in length, connection is made with the Intercolonial Railway at Sackville. This winter service is conducted by the Marine Department, the mails being taken to and met at Cape Traverse by special trains, whenever required by the Post Office Department.

GOVERNMENT ACTION AS TO SUBSIDIZED LINES.

Note.—The numbers within brackets after the title of the company refer to the lists of railways subsidized by Parliament. Appendix 10, p. 187.

With regard to the several lines of railway subsidized by the Dominion, the following represents the action taken and the progress made, in so far as the Dominion Government is concerned; only those lines and companies being mentioned as to which definite steps, other than merely preliminary, have been taken towards securing the subsidy. Information has been brought down to the end of the fiscal year, the 30th of June, 1895, only.

The following shows the aggregate of the payments made on ordinary subsidy accounts since the system of subsidy of railway enterprise was commenced.

For the fiscal	year 1883-84, en	ded on June :	30, 1884	\$ 208,000 00
do	1884-85	do	1885	403,245 00
do	1885-86	do	1886	2,171,249 00
d o	1886-87	do	1897	1,406,533 00
do	1887-88	do	1888	1,027,041 92
do	1888–8 9	do	1889	846,721 83
do	1889-90	do	1890	1,491,595 72
do	1890-91	do	1891	1,079,105 87
do	1891-92	do	1892	1,061,615 93
do	1892-93	do	1893	624,794 07
do	1893-94	do	1894	1,043,285 10
do	1894–95	do	1895	1,123,949 10

\$12,487,136 54

To the above there have to be added the following exceptional subsidies:

Canada Central Railway	\$ 1,525,250	00
Canadian Pacific Railway	25,000,000	00
" extension		
Western Counties Railway (Digby Annapolis section).	500.000	

Total payments up to the 30th of June, 1895.....\$41,012,386 54

The above does not include the annual subsidy payable to the Atlantic and North West Railway Company nor the amount due to the Province of Quebec for the North Shore Railway between Ottawa and Quebec, on which interest only is paid.

The following pages show, in alphabetical sequence, the position of those companies whose dealings with the Government in respect of subsidies are not yet closed. Reports of previous years give information as to companies whose subsidies have been fully earned and paid prior to the 1st of July, 1894.

A tabulated statement of payments will be found in Appendix 3, page 28, and a list of subsidy agreements entered into during the fiscal year in Appendix 14, p. 246.

The several Subsidy Acts passed in each year from 1882 will be found in Appendix 10, p. 187. No subsidies were authorized in the session of 1895.

Albert Southern Railway Company.

(See Annual Report of 1891-92.)

Atlantic and North-west Railway Company.

(See Annual Report of 1889-90.)

Baie des Chaleurs Railway Company.

(See Nos. 6, 42 and 158.)

This company was incorporated by the Quebec Provincial Act, 43 Vic., ch. 53.

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 Metapediae towards Paspebiae.

Tenders for the works were received, but none of them coming within the limit of expenditure authorized by Parliament, an offer made by the Baie des Chaleurs Railway Company to build and operate this section as a part of their own road from Metapediac to Paspebiac for the amount, was accepted by an Order in Council of the 18th of September, 1885, and a provisional contract was entered into with them on the 7th of November, the section to be finished by the 1st of July, 1888; plans being furnished and the work supervised by the department.

By the Act 46 Vic., ch. 25 (1883), a subsidy had been authorized in favour of this company towards the construction of their said road; the limit fixed by the Act being \$3,200 a mile, for 100 miles, or a total of \$320,000.

Provision, however, having been made, as above stated, for the building of the first 20 miles of this distance, the contract entered into with the company, also on the 7th of November, 1885, as authorized by an Order in Council, also dated the 18th of September, for the work under this subsidy, dealt with the construction of the last 80 miles only. It contained a clause under which, subject to authorization from Parliament to that end, the portion, namely, \$3,200 a mile, applicable to the first 20-mile section of the road under the 100-mile subsidy of 1883, should be transferred

to the second 20-mile section as an additional subsidy therefor, making the grant for such section \$6,400 a mile.

To this arrangement approval of Parliament was given, the two agreements above mentioned being ratified and confirmed by the special Act 49 Vic., ch. 17; the date for the completion of the road being fixed by the Act as the 1st of December 1888, in place of the 25th of May, 1887, as contemplated by the agreements.

By the Railway Subsidy Act of 1889, 52 Vic., ch. 3, the balance, \$244,500 remaining unpaid of the subsidy mentioned in the Act 49 Vic., ch. 17, was granted to the company.

By authority of the same Act, the subsidy applicable to the 30 miles between the 70th and 100th mile was transferred to the section between the 40th and the 70th, making the grant for this section also \$6,400 a mile. The company undertook to construct the section from the 70th to the 100th mile without subsidy, and have deposited bonds to the value of £83,000 stg. as security to that effect.

Under date the 1st of June, 1891, an Order in Council was passed approving of the location of the section between the 60th and the 80th miles, and under date the 26th of October, 1891, a copy was furnished to the department of a contract made by the company for the construction of this section of road.

By the Act 54-55 Vic., ch. 97 (1891), the company was declared to be a corporation under the Parliament of Canada, and the time for completion of its railway was extended for charter purpo es, namely, up to Paspebiac, to the 30th of September, 1893, and up to Gaspé Basin to the 30th of September, 1895.

The total subsidy for this road, covering the first 70 miles, was \$620,000.

Up to the close of the fiscal year 1889-90, payments had been made aggregating \$524,175. During the past fiscal year, there has been paid the balance, \$95,825, covering the 70 miles subsidized and completed. Further work has been done on the remainder of the road for which no subsidy is payable.

Beauharnois Junction Railway Company.

(See Nos. 102 and 302.)

By the Railway Subsidy Act, 50-51 Vic., ch. 24, the grant of a subsidy not exceeding \$96,000 was authorized in favour of the Beauharnois Junction Railway Company from St. Martin towards St. Anicet, the estimated distance being 30 miles.

On the 21st of November, 1887, and under the authority of Orders in Council of the 1st 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. By the Act 56 Vic., ch. 2 (1893), the unpaid balance, \$3,500, was revoted, but no further payment has been made up to the 30th of June, 1895.

Belleville and North Hastings Railway Company.

(See Annual Report of 1888-89.)

Boston and Nova Scotia Coal Company.

(Nos. 251 and 356.)

The company was incorporated by the Act of the Province of Nova Scotia 56 Vic., ch. 147 (1893), with general powers for railway purchase or construction.

By the Dominion Subsidy Act, 57-58 Vic., ch. 4, 1894, a subsidy to this company limited to \$113,600 (in lieu of one previously granted in 1892) was authorized for the construction of 35½ miles of railway from a point on the Cape Breton Railway at or near Orangedale to Broad Cove, on the western side of the Island, and under date the 16th of November, 1894, a contract was entered into with the company for the work subsidized, the date for completion being fixed as the 1st August, 1896.

No payments have been made up to the 30th of June, 1895.

Brockville, Westport and Sault Ste. Marie Railway Company.

(See Nos. 48, 181, 193, 240, 267 and 316.)

By the Act 48-49 Vic., ch. 59 (1885), aid was granted to an extent not exceeding \$128,000 towards the construction of the portion between Brockville and Westport, about 40 miles, of the line of the Brockville, Westport and Sault Ste. Marie Railway.

Under the authority of an Order in Council of the 28th of April, 1886, a contract was made with the company on the 16th of July, 1886, the subsidized road to be finished by the 1st of August, 1889.

Under an Order in Council of the 26th of November, 1888, the sum of \$45,000 was paid. The balance of the subsidy lapsed on the 1st of August, 1889, but was revoted by the Act 53 Vic., ch. 2 (1890).

By the Act 53 Vic., ch. 2 (1890), the grant of a subsidy to the extent of \$64,000 was authorized for 20 miles of railway from Newboro' towards Palmer's Rapids. For this subsidy there was substituted, by Act 54-55 Vic., ch. 8, one for the same amount, and for the same distance, 20 miles, but from a point "at or near Newboro' towards Palmer's Rapids," payment to be made on completion of each section of the railway as follows:—from at or near Newboro' to Westport, 4 miles, and from Westport towards Palmer's Rapids, 16 miles.

By the Subsidy Act 55-56 Vic., ch. 5 (1892), the unpaid balances granted by 52 Vic. and 53 Vic., were revoted, and were further revoted by the Act 57-58 Vic., ch. 4, (1894), the amount not to exceed \$88,800.

Up to the close of the fiscal year, 1891-92, payment had been made to the extent of \$105,200. Nothing further has been paid up to the 30th June, 1895.

Brantford, Waterloo and Lake Erie Railway Company

(See Nos. 104 and 318).

By the Act 50-51 Vic., ch. 24 (1887), authority was given for the grant of a subsidy of \$57,600 to the above company, for 18 miles of their railway from Brantford to Hagersville or Waterford, or some intermediate point on the Canada Southern Railway.

Under an Order in Council of the 4th of August, 1888, a contract was made with the company, on the 31st, for a line from Brantford to Waterford. An Order of the same date approved of the location, the actual distance being 16\frac{3}{4} miles. Up to the close of the fiscal year, 18:10-91, the payments amounted to \$52,810, the amount of subsidy applicable being \$53,600. This company has now become amalgamated with the Toronto, Hamilton and Buffalo Railway Company, the agreement for amalgamation being approved by an Order in Council of the 16th of December, 1892.

By the Subsidy Act of 1894, 57-58 Vic., ch. 4, the unpaid balance of the previous subsidy, not exceeding \$4,790, was revoted. No further payments have, however, been made up to the 30th of June, 1895.

Buctouche and Moncton Railway Company.

(See Annual Report for 1893-94).

Canada Atlantic Railway Company.

(See Annual Report for 1888-89.)

Canada Eastern Railway Company.

Formerly the Northern and Western Railway Company of New Brunswick, for which see Annual Report of 1889-90.

(See Nos. 350 and 370.)

This company was originally incorporated by a Provincial Act in 1872, under the name of the Northern and Western Railway Company of New Brunswick.

The railway was declared to be a work for the general advantage of Canada by the Dominion Act, 53 Vic., ch 74 (1890) and the name was changed as above.

Under its previous name, the company received subsidy to the extent of \$312,000 for the construction of a line of railway from Chatham to Gibson, opposite Fredericton.

By the Subsidy Act, 57 58 Vic., ch. 4 (1894) the grant of assistance, limited to \$32,000, was authorized for two extensions, one 6 miles in length from Chatham to Black Brook, the other a branch to Nelson, 4 miles. A contract was entered into with the company on the 10th of November, for the construction of both works, to be completed by the 31st of October, 1896.

Also by the same Act, a subsidy of \$3,200 was authorized for one mile of railway from the western end of the line, to connect with the Canadian Pacific Railway.

The works contemplated by these three subsidies have all been completed, and during the fiscal year the sum of \$30,400 was paid, making the total payments to these two companies \$342,000.

Canadian Pacific Railway Company

(See No. 243.)

By the Subsidy Act 55-56 Vic. ch. 5 (1892), the grant of a subsidy limited to \$80,000 was authorized for 25 miles of a railway from a point on the Canadian Pacific Railway at or near Revelstoke to the head of Arrow Lake.

Under date the 24th of October, 1893, a contract has been made with the Canadian Pacific Railway Company for this work, the date for completion being the 1st of August, 1896. During the fiscal year, the sum of \$28,000, covering the first 10 miles from Revelstoke, has been paid.

Cape Breton Railway Extension Company.

(See No. 366.)

This company was incorporated by the Provincial Act of 1890, ch. 72, with powers for the construction of a line of railway from the Gut of Canso to Sydney or Louisbourg, with branches to any other railway.

By the Subsidy Act 57-58 Vic., ch. 4 (1894), assistance was authorized to the extent of \$96,000 for 30 miles of the company's railway from Port Hawkesbury to St. Peter's on their line of railway from Port Hawkesbury to Louisbourg, and on the 21st of September, 1894, a contract was entered into with them for the work, the date for completion being fixed as the 1st of October, 1895.

No portion of the subsidy has been paid up to the 30th of June, 1895.

Caraquet Railway Company.

(See Annual Report of 1888-89)

Central Railway Company of New Brunswick

(See Nos. 40, 143, 156, 205 and 353.)

By the Act of 1884, 47 Vic., ch. 8, a subsidy not exceeding \$128,000 was granted in aid of the construction of about 40 miles of the Central Railway, from the head of the Grand Lake to a point on the Intercolonial Railway between Sussex and St. John, N.B.

Under the authority of an Order in Council of the 5th of June, 1886, a contract was made with the Central Railway Company, on the 7th July, 1886, for a line from Salmon River, at the head of Grand Lake, to Norton, on the Intercolonial Railway, work to be completed by the 1st of July, 1888. Certain work has been executed, but the contract obligations had not been carried out, and no portion of the subsidy was paid. The subsidy lapsed, but was revived by the Subsidy Act, 52 Vic., ch. 3 (1889).

On the 1st of December, 1890, a new contract was made with the company for this work under the Subsidy Act of 1889, the limit of subsidy being \$128,000; this contract covering also a subsidy for $4\frac{1}{2}$ miles, the limit of which was \$14,400, authorized by the Act, 53 Vic., ch. 2, making a total subsidy of \$142,400; the total length of road subsidized being $44\frac{1}{2}$ miles. The date for completion was fixed as the 1st of December, 1891.

By the Act 51 Vic., ch. 3, a grant as a subsidy to this company was authorized of used iron rails to the value of \$83,612.54, loaned to the St. Martin's and Upham Railway Company (which railway has been acquired by the Central Railway Company; the sale being approved by an Order in Council of the 15th of November, 1887), the condition of the grant being that such rails should first be replaced by new steel rails. The new steel rails were substituted, and an Order in Council of the 18th of October, 1889, authorized the transfer of the rails to the company.

By the Subsidy Act of 1894, 57-58 Vic., ch. 4, the grant of a subsidy, not exceeding \$48,000, to this company was authorized for 15 miles of their railway from Chipman station to the Newcastle coal fields.

Up to the end of the fiscal year 1891-92, there had been paid, including the value of the said rails, the sum of \$159,251.54; no payments have since been made up to the 30th of June, 1895.

Chatham Branch Railway Company

(See Annual Report of 1893-94.)

Chignecto Marine Transport Company.

(See No. 5.)

On the 3rd of February, 1882, this company (which received incorporation the same year, by Act 55 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 Tignish 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 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.

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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.

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 clause 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, was promised, provided that the works were actually in progress, and that satisfactory evidence was given that the capital necessary for completion had been obtained. This evidence, however, was not produced, and no action was taken. The subsidy has lapsed.

Cobourg, Northumberland and Pacific Railway Company.

(See Nos. 301, 249 and 275).

This company was incorporated by the Act 52 Vic., ch. 62 (1889), for the construction of a line of railway from Cobourg Harbour to the River Trent, to the Ontario and Quebec Railway, and to the mining regions of Marmora and Belmont.

By subsequent legislation in 1891, 1892 and 1894, the company's charter has been revived, and powers given for extension to the mineral lands of the county of Hastings, and for leasing the same to the Canadian Pacific Railway Company; the time for completion being extended to the 9th of July, 1898.

By the Subsidy Act of 1890, assistance to the extent of \$96,000 was authorized for 30 miles of the company's railway from Cobourg to the Ontario and Quebec Railway, and by the Subsidy Act of 1892, an additional subsidy of \$60,800 was authorized for 19 miles. By the same act the subsidy voted in 1890, was revoted.

A contract for the construction of the 49 miles subsidized was entered into with the company on the 16th of June, 1894, the date for completion being fixed as the 1st of August, 1896.

By an Order in Council of the 28th of December, 1894, approval has been given to an agreement between the company and the Canadian Pacific Railway Company, dated the 30th of June, 1894, for the lease of the road to the latter company, when completed, for a term of 999 years.

No payments have been made up to the 30th of June, 1895.

Columbia and Kootenay Railway and Navigation Company.

(Leased to the Canadian Pacific Railway Company.)

(See Annual Report for 1891-92.)

Cornwallis Valley Railway Company.

(See Annual Report for 1891-92.)

Cumberland Railway and Coal Company.

(See 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. Up to the end of the fiscal year 1890-91, the sum of \$39,850 had been paid. No further payments have been made since, and the balance of subsidy has lapsed.

Dominion Atlantic Railway Company.

(See Western Counties Railway Company.)

Dominion Lime Company.

(See Annual Report for 1888-89.)

Dominion Coal Company.

(See No. 262.)

This company was incorporated by the Nova Scotia Act, 56 Vic., ch. 145 and 146. By the Subsidy Act, 55-56 Vic., ch. 5 (1892), a subsidy, limited to \$89,600, was authorized for 28 miles of a railway to complete connection between Sydney and Louisbourg, Cape Breton.

On the 26th January, 1894, a contract was entered into with the above company for the work from Bridgeport to Louisbourg Harbour. The first 10 miles section from Bridgeport has been completed, and during the fiscal year the sum of \$32,000 has been paid.

Drummond County Railway Company.

(See Nos. 99, 175, 214 and 339.)

By the Railway Subsidy Act of 1888, 50-51 Vic., ch. 24, the grant of aid to an extent not exceeding \$96,000 was authorized to the Drummond County Railway Company for 30 miles of their railway from Drummondville towards Nicolet, 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 south-west branch of the River Nicolet; the road to be completed by the 1st of August, 1891.

On the 2nd of May, 1889, the company were admitted to contract for the balance, $17\frac{1}{2}$ miles, of the 30 miles subsidized.

By the Subsidy Act of 1889, 52 Vic., ch. 3, the company were further subsidized for $4\frac{1}{2}$ miles from the end of the line already subsidized, to Ball's wharf, on the River St. Lawrence, to the extent of \$14,400, and were admitted to contract on the 21st of January, 1890.

By the Subsidy Act, 53 Vic., ch. 2 (1890), authority was given for the grant of a subsidy the limit of which was \$76,000, for 24 miles of the railway of the company from Drummonville to Ste. Rosalie. Under date the 2nd of February, 1891, the company were admitted to contract for this work.

By the Subsidy Act, 57-58 Vic., ch. 4 (1894), authority was given for the grant of a subsidy to this company for 30 miles of railway from St. Leonard westerly towards a junction with the Intercolonial at Chaudière Junction; the limit being fixed at \$96,000, and a contract for the work was made with the company on the 14th of November, 1894.

Up to the close of the fiscal year 1892-93, there had been paid to the company the sum of \$195,840, and during the past fiscal year the further sum of \$92,096 was paid, making the total payments \$287,936 up to the 30th of June, 1895.

Elgin, Petitcodiac and Havelock Railway Company.

(See Annual Reports for 1885-86 and 1890-91.)

Erie and Huron Railway Company.

(See Annual Report for 1886-87.)

Esquimalt and Nanaimo Railway Company.

(See Annual Report for 1886-87.)

Fredericton and St. Mary's Bridge Company.

(See Annual Report for 1888-89.)

Grand Trunk, Georgian Bay and Lake Erie Railway Company.

(See Annual Report for 1893-94.)

Great Eastern Railway Company.

(See Nos. 88, 114, 174, 213, 235 and 296.)

By the Act 49 Vic., ch. 10, authority was given for the grant of a subsidy to an extent not exceeding \$32,000, on an estimated distance of 10 miles, towards the construction of a line from Yamaska to the River St. Francis, Que.; and the Great Eastern Railway Company having applied, a contract was made with them on the 12th of October, 1886, under the authority of an Order in Council of the 9th of that month, the time of completion being fixed as the 1st 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 the Order in Council of the 27th of March, 1887.

By the Act 50-51 Vic., ch. 24, authority was given for the grant of a subsidy to the company to an extent not exceeding \$96,000, for 30 miles of their railway from the River St. Francis to the Arthabaska (Grand Trunk) Railway at St. Grégoire, and under an Order in Council an agreement was entered into with them for the work, the date being 16th March, 1888. During the fiscal year 1890-91 the sum of \$16,300 was paid from this subsidy for 6.66 miles from the east bank of the River Nicolet to the Grand Trunk Railway at St. Grégoire.

By the Act 52 Vic., ch. 3, a subsidy was authorized to the extent of \$64,000 for a further distance of 20 miles from St. Grégoire. This subsidy was, in effect, revoted by the Act 56 Vic., ch. 2 (1893).

Authority has been given for entry into contract for this work, but the contract has not yet been signed.

By the Act 53 Vic., ch. 2 (1890), a subsidy of 15 per cent on the value of two bridges, one over the River Nicolet, the other over the River St. Francis, not exceeding \$37,500, was authorized. On the 20th of June, 1891, a contract was entered into with the company for the work. During that fiscal year there was paid the sum of \$4,845 for work on the Nicolet bridge.

By the Subsidy Act 54-55 Vic., ch. 8, there was revoted the balance unpaid, \$79,700, of the subsidy granted by the Act 50-51 Vic., ch. 26, which had lapsed, for a railway from the River St. Francis to the Arthabaska Railway at St. Grégoire.

There has been no further payment. The total amount paid the company is \$40,345 up to the 30th of June, 1895.

Great Northern Railway Company

(See Nos. 33, 37, 72, 79, 154, 215, 231, 308, 309 and 371.)

By the Act 47 Vic., ch. 8 (1884), a subsidy not exceeding \$32,000 was granted to this company for the construction of a line from St. Jérôme to New Glasgow, Que., the estimated length being 10 miles.

Under the authority of an Order in Council of the 3rd February, 1885, a contract for the work was entered into with the company on the 14th of that month, the road to be completed by the 1st of July, 1885.

The line was duly completed and inspected. Under an Order in Council of the 2nd of March, 1885, payment was made therefor, namely 7.84 miles, \$25,088.

By the Act 49 Vic., ch. 10 (1886), a subsidy not exceeding \$57,600 was authorized for a line from New Glasgow to Montcalm, a distance of about 18 miles. The Great Northern Railway Company having applied for it, it was granted to them by an Order in Council of the 18th July, 1887, which also approved of the location. The contract was made on the 19th of August, 1887, the road to be completed by the 1st of August, 1890.

By the Act 49 Vic., ch. 10, a subsidy not exceeding \$22,400 was granted for a line from St. Andrews to Lachute, Que., 7 miles. For this subsidy the above named company applied, but no contract was made. The same subsidy was again voted by the Act of 1889, 52 Vic., ch. 3, and under date the 8th of October, 1890, a contract was entered into with them for the work, calling for completion by the 1st of August, 1891. The road was built and allowed to be opened for public traffic in January, 1892.

By the Act 53 Vic., ch. 2 (1890), the grant of a subsidy was authorized, limited to \$48,000, for a line from at or near Montcalm to the Canadian Pacific Railway, between Joliette and St. Félix de Valois, fifteen miles.

By the Act 54-55 Vic., ch. 8 (1891), the unpaid balance, \$28,100, of the subsidy granted in 1886 was revoted.

By the Act 56 Vic., ch. 2 (1893), the unpaid balance, \$25,600 of the subsidy granted in 1891, was revoted, and a new contract for this work was entered into with the company on the 16th of June, 1894.

Also, by the same Act, the subsidy not exceeding \$48,000 granted to the company for 15 miles of their railway from Montcalm to the Canadian Pacific Railway, between Joliette and St. Félix de Valois, by 53 Vic., ch. 2, was revoted, and a contract for this work was entered into with them on the 16th of June, 1894.

By the Subsidy Act, 57-58 Vic., ch. 4 (1894), the grant to this company of a subsidy limited to \$96,000, was authorized for 30 miles of railway from a junction with the Lower Laurentian Railway near St. Tite, westwards, in lieu of a subsidy previously granted to the Maskinongé and Nispissing Railway Company.

During the past fiscal year there was paid the sum of \$32,000 for a ten mile section between the 18th and 28th mile from St. Jérôme, making the total payments to this company \$110,688 up to the 30th June 1895.

Guelph Junction Railway Company.

(See Annual Report of 1888-89.)

Harvey Branch Railway Company.

(See Annual Report for 1889-90.)

Hereford Railway Company (formerly Hereford Branch Railway Company.)

(See Annual Report for 1891-92.)

International Railway Company.

(See Annual Reports for 1887-88 and 1889-90.)

Inverness and Richmond Railway Company.

(See No. 357.)

This company was incorporated by the Act of the Province of Nova Scotia, 50 Vic., ch. 60 (1887), with powers for the construction of a line of railway between xxxii

Hawkesbury and a point in the district of Margaree. By the Act of 1888, ch. 79, the location of the line was authorized as from Port Hawkesbury, through Port Hastings, Judique, Port Hood, Mabou and Margaree, to a point at Eastern Harbour, Chéticamp.

By the Subsidy Act, 57-58 Vic., ch. 4 (1894), assistance to the extent of \$80,000 was authorized for 25 miles of railway from Port Hawkesbury towards Chéticamp, and the above company was admitted to contract for the work on the 23rd of November, 1894, the time for completion being fixed at the first of December, 1896.

No payments have been made up to the 30th of June 1895.

Irondale, Bancroft and Ottawa Railway Company.

(See Nos. 24, 159 and 301.)

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 of August, 1886.

The unpaid balance of subsidy, \$145,000, which had lapsed, was revoted by the Act 52 Vic., ch. 3 (1889), and was again revoted by the Act 56 Vic., ch. 2 (1893).

During the past fiscal year the sum of \$32,000 was paid, making the total payments up to the 30th of June, 1895, \$96,000.

Joggins Railway Company. (See Annual Report for 1891-92.)

Kingston, Napanee and Western Railway Conpany. (See Napanee, Tamworth and Quebec Railway Company.)

Kingston and Pembroke Railway Company.

(See Annual Report for 1884-85.)

Lake Erie and Detroit River Railway Company.

Formely "the Lake Erie, Essex and Detroit Railway Company," name changed by Dominion Act, 54-55 Vic., ch. 88 (1891).

(See Annual Report for 1893-94.)

L'Assomption Railway Company.

(See Annual Report of 1886-87.)

Leamington and St. Clair Railway Company.

(See Annual Report of 1888-89.)

Lake Témiscamingue Colonization Railway Company.

(See Nos. 55, 84, 119, 122, 169, 216, 278, 282 and 324.)

By the Act 48-49 Vic., ch. 59, a subsidy was authorized in aid of the construction of a line of railway from Long Sault to the foot of Lake Temiscamingue, surmounting certain rapids on the Ottawa River. The limit of the amount was \$25,600, covering a total distance of 8 miles. A contract was entered into on the 25th of November, 1885 for the construction of 6 miles, to be completed by the 1st of January, 1887.

In conformity with an express provision to that effect in clause 2 of the Act 49 Vic., ch. 10, letters patent were issued under an Order in Council of the 20th of July, 1886, published in the Canada Gazette of the 24th, granting a charter for the construction of this railway to the "Lake Temiscamingue Colonization Railway Company."

By the Subsidy Act, 49 Vic., ch. 10, a further subsidy of \$6,000 was authorized for the building of 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 subsidy to the extent of \$33,600 was authorized for $10\frac{1}{2}$ miles of this company's line from Long Sault to Lake Kippewa. The contract for this subsidy was entered into on the 27th of June, 1888.

By the Act 52 Vic., ch. 3 (1889), a subsidy was authorized, not exceeding \$48,000, for 15 miles, from Mattawa station, C.P.R., towards the Long Sault, or vice versa.

By the Act 53 Vic., ch. 2 (1890), a subsidy was authorized, not exceeding \$64,000, for 20 miles from the northern end of the line subsidized by 52 Vic. ch. 3.

By the Act 55-56 Vic., ch. 5 (1892), in lieu of the above named subsidies of 1889 and 1890, a subsidy was authorized to this company not exceeding \$112,000 for 35 miles of their railway from Mattawa to the Long Sault.

By the same Act a subsidy was granted to the company, namely, for 15 miles of their railway from the Long Sault to the crossing of the Kippewa River, and 15 per cent on the value of a wooden truss bridge over the Ottawa River, near Mattawa, not exceeding \$15,000, and not exceeding in all \$63,000.

Under date the 31st of August, 1893, a contract was entered into with the company for the construction of the section between Mattawa and the Long Sault Rapids under the subsidy granted in 1892.

By the special Act 54-55 Vic., ch. 94 (1891), the company were empowered to convey or lease their road to the Canadian Pacific Railway Company, and also to extend the railway to the head of Lake Temiscamingue; the company's works to be completed by the 10th of July, 1896. The road is now controlled by the Canadian Pacific Railway Company.

By the Subsidy Act. 57-58 Vic. ch. 4 (1894), the subsidies previously granted were revised, balances unpaid were revoted, and additional subsidy was granted; the

whole of the subsidies not to exceed \$274,940. Under date the 12th of September, 1894, a new contract was entered into with the company for the work, embracing the distance between Mattawa and Lake Kippewa.

By a separate contract, dated the 1st of June, 1894, the company undertook to build a truss bridge over the Ottawa, at Mattawa.

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 was made until the fiscal year now past, but during this year payments have been made to the extent of \$233,198.95 making the total payments \$285,958.95, up to the 30th of June, 1895.

Lotbinière and Megantic Railway Company.

(See Nos. 253 and 338.)

This company was incorporated by the Quebec Act, 52 Vic., ch. 89 (1889), for the construction of a railway from some point at or near the parish church of St. Jean Deschaillons, in the county of Lotbinière, to a point at or near Glen Lloyd, in the county of Megantic.

By the Subsidy Act 55-56 Vic., ch. 5 (1892), a subsidy to the extent of \$48,000 was authorized for 15 miles of railway from a point at or near St. Jean Deschaillons toward Glen Lloyd.

On the 17th of July, 1893, a contract was entered into with the company for the work so subsidized, for which was substituted one dated the 27th of February, 1894, covering the distance from St. Jean Deschaillons to Lyster Station on the Grand Trunk Railway.

By the Subsidy Act 57-58 Vic., ch. 4 (1894), a subsidy for a further distance of 15 miles was authorized, the limit being \$48,000.

A contract was entered into with the company on the 19th of November, 1894, covering the distance from Lyster Station to Lyster, $2\frac{1}{2}$ miles, and $12\frac{1}{2}$ miles from the end of the 15 miles built.

During the fiscal year the sum of \$38.000 was paid, making the total payments \$73,600 up to the 30th of June, 1895.

Montfort Colonization Railway Company.

(See No. 245, 310 and 373.)

This company was incorporated by the Quebec Act, 53 Vic., ch. 107 (1890), for the construction of a railway from a point on the Canadian Pacific Railway, or the Montreal and Occidental Railway, either from Lachute, St. Jérome or St. Sauveur, or near the same, to Montfort, and for the continuation of the road to a point on the Rivière Rouge, in the township of Arundel.

By the Subsidy Act, 55-56 Vic., ch., 5 (1892), the grant of a subsidy to this company to the extent of \$67,200 was authorized for 21 miles of railway from Lachute, St. Jérôme, or a point at or near St. Sauveur, on the line of the Montreal and Western Railway to Montfort.

By the Subsidy Act, 55.56 Vic., (1893), this subsidy was revoted with an addition, specifying the gauge as "three feet."

On the 16th of May, 1893, a contract was entered into with this company for the construction of 21 miles of railway from St. Sauveur to Montfort and westward, the road to be completed by the 1st of September, 1895.

During the past fiscal year the sum of \$35,200 has been paid, making the total payments \$67,200 up to the 30th of June, 1895.

Montreal and Champlain Junction Railway Company.

(See Annual Report for 1892-93.)

Montreal and Lake Maskinongé Railway Company.

(See Annual Report for 1890-91.)

Montreal and Sorel Railway Company.

(See Annual Report for 1892-93.)

Montreal and Western Railway Company.

(See Annual Report for 1893-94.)

Montreal and Ottawa Railway Company.

(Formerly the Vaudreuil and Prescott Railway Company.

Name changed by 53 Vic., ch. 58.)

(See Nos. 97, 186, 237 and 320.)

By the Railway Subsidy Act of 1887, 50-51 Vic., ch. 24, the grant of a subsidy to the above company was authorized for 30 miles of their railway from 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 was 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 the subsidy was approved by an Order in Council on the 21st 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.

In September, 1892, after inspection, permission was given to open for traffic the portion of the road between Vaudreuil and Pointe Fortune, 23½ miles.

By the Subsidy Act, 57-58 Vic., ch. 4 (1894) the unpaid balances of subsidies granted in 1887 and 1890 were revoted.

By an Order in Council of the 16th of April, 1894, the time for the completion of the 30 miles of railway from Vaudreuil towards Hawkesbury has been extended to the 1st of August, 1896. No payments were made during the past fiscal year; the total payments made remaining, as last year, at \$73,600.

This railway has been leased in perpetuity to the Canadian Pacific Railway Company.

Napanee, Tamworth and Quebec Railway Company.

(Name changed to the Kingston, Napanee and Western Railway Company by the Act 53 Vic., ch. 62.)

(See Nos. 13, 27, 57, 94, 107, 166, 256 and 273.)

In 1883 Parliament authorized a subsidy of \$89,600 to this company, covering their road from Napanee to Tamworth.

A contract, dated the 31st of December, 1883, was entered into with the company for this work, and upon completion, inspection, and approval of the road, the subsidy was all paid under Orders in Council, the last dated the 28th of July, 1884.

In the session of that year Parliament authorized the grant of a further subsidy, not exceeding \$3,200 a mile, or a total of \$70,406, for an extension of this company's road from Tamworth to Bogart and Bridgewater. In 1885, however, in substitution for this subsidy, Parliament authorized the grant to the company of a subsidy of \$70,000 for a line "from Tamworth towards Bogart and Bridgewater, 16 miles." This, again, was cancelled by the Act 49 Vic., ch. 10 (1886), a subsidy of \$70,000 being granted to the company for 18 miles of their railway from Tamworth to Tweed.

By the Act 50-51 Vic., ch. 24 (1887), a further subsidy to this company, not exceeding \$12,800, was authorized for 4 miles of their road to Tweed.

Under date the 25th of July, 1888, an Order in Council authorized entry into contract, and approved the location plans from Tamworth to Tweed, 20 miles. The contract was signed on the 31st of July, 1888, covering both subsidies.

By the Act 52 Vic., ch. 3 (1889), the grant of a further subsidy to this company was authorized for 7 miles of their railway from Yarker to Harrowsmith, and also a grant to a company for 3 miles of railway from Harrowsmith to Sydenham, the total being \$32,000. Under date the 4th of September, 1889, the company were admitted to contract for 3 miles, and under date the 26th of December, for the distance of 62 miles, from a point near Yarker to or near Harrowsmith.

By the Act 55-56 Vic., ch. 5 (1892), in lieu of the subsidy granted by the above Act for 3 miles, a subsidy not exceeding \$9,600 was granted for 3 miles from a point at or near Harrowsmith to a point at or near Sydenham. A contract was made with the company for this work on the 18th of September, 1893.

By the Act 55-56 Vic., ch. 5 (1892), a subsidy not exceeding \$64,000 was granted to this company for 20 miles of their railway, being for branches to be built to certain iron deposits. A contract was made with the company for one of these

branches (to Lake Sydenham) on the 11th of December, 1893, the distance being 1_{1000}^{375} miles. Under date the 30th of November, 1889, the company were allowed to open for traffic between Tamworth and Tweed, and between Yarker and Harrowsmith, and from Harrowsmith to Sydenham in November, 1893. During the last fiscal year no payments were made, the total payments up to the 30th of June, 1895, being \$208,732.80.

Nakusp and Slocan Railway Company.

(See No. 362.)

This company was incorporated by the Dominion Act, 56 Vic., ch. 56 (1893), with powers to construct a railway from a point at or near Nakusp, in British Columbia, to a point at or near the forks of Carpenter Creek, in the district of West Kootenay, the gauge to be either the standard gauge (4 feet $8\frac{1}{2}$ inches) or a narrow gauge not less than 3 feet; also to run vessels on the lakes and rivers of the province, in connection with their railway. Powers were further conferred for the conveyance or lease of the road to the Canadian Pacific Railway Company.

By the Railway Subsidy Act, 57-58 Vic., ch. 4 (1894), the grant of assistance to the extent of \$121,600 was authorized for the said railway, estimated at 38 miles, and on the 23rd of October, 1894, a contract was made with the company for the work, the date for completion being fixed on the 1st of August, 1895, the standard gauge to be adopted.

The whole road has been completed, and in December 1894 was inspected, the actual distance being 39.80 miles, and the amount of subsidy applicable being consequently \$117,760, which amount has been paid during the fiscal year.

The road has been leased to the Canadian Pacific Railway Company for 25 years, under an agreement dated the 9th of August, 1893, approved by an Order in Council of the 18th of July.

New Brunswick and Prince Edward Island Railway Company.

(See Annual Report for 1888-89.)

New Glasgow Iron, Coal and Railway Company.

(See No. 268.)

By the Subsidy Act, 55-56 Vict., ch. 5, the grant of assistance to the above company for 12½ miles of railway from Eureka Junction on the Intercolonial Railway, to a point at or near Sunnybrae, including a branch line to the charcoal iron furnace at Bridgeville, was authorized, the limit of aid being \$40,000.

Under date the 23rd of November, 1892, the company were admitted to contract for this work.

No payments were made during the fiscal year. The total payments up to the 30th of June, 1895, amount to \$38,400, covering 12 miles of railway.

Northern and Pacific Junction Railway Company.

(See Annual Report of 1890-91.)

Northern and Western Railway Company.

(See Annual Report of 1889-90.)

Also under head "Canada Eastern Railway Company," in present report.

Nova Scotia Central Railway Company.

(See Nos. 129, 135 and 307.)

By the Subsidy Act of 1887, 50-51 Vic., ch. 24, the Nova Scotia Central Railway Company were subsidized for 34 miles of their railway, to an extent not exceeding \$108,800. Under an Order in Council of the 16th of September, 1887, the company were admitted to contract on the 17th of October, 1887, the works to be executed being a line of railway from Lunenburg, on the east coast of Nova Scotia, westward to a point in the district of New Germany, together with a spur, about \(\frac{3}{4}\) mile long, to Bridgewater Railway wharf, the whole to be completed by the 31st of December, 1889.

By the Act 51 Vic., ch. 3 (1888), the grant of further subsidy, not exceeding \$147,200, was authorized for 46 miles of the company's railway, and under an Order in Council of the 9th of October, 1888, a contract, dated the 15th of October, 1888, was executed, covering a line of railway, 39½ miles, starting from a point 33½ miles from Lunenburg, and running to Middleton, on the Windsor and Annapolis Railway; the work to be completed by the 31st of December, 1890.

By the Subsidy Act, 56 Vic., ch. 2 (1893), the unpaid balance, \$4,500, was revoted. Up to the close of the fiscal year 1891-92, the total payments to this company amounted to \$230,700, covering the distance from Lunenburg to Middleton and the spur to Bridgewater, a total of 73½ miles. Authority for payment of the said balance of \$4,500 has been given by an Order in Council dated the 2nd of July, 1894, but no further payment has been made up to the 30th of June, 1895, pending decision on certain matters in litigation.

Nova Scotia Southern Railway Company.

(See Nos. 207 and 272.)

This company was incorporated by the Nova Scotia Act, 51 Vic., ch. 82, as the "Annapolis and Atlantic Railway Company." The name was changed as above by the Act 56 Vic., ch. 65.

By the Dominion Subsidy Act, 55-56 Vic., ch. 5 (1892), a subsidy (taking the place of one previously granted), was authorized for 75 miles of railway from Sand Point, Shelburne Harbour, N.S., to Annapolis Royal, and to a point of junction with the Nova Scotia Central Railway, at or near New Germany, the subsidy limit being \$240,000.

The above company having applied for the subsidy, a contract, dated the 12th of January, 1894, has been entered into with them for the work of building a line from Sand Point towards New Germany, and approval has been given by an Order in Council dated the 25th of August, 1894, to the location of the railway for the whole distance, 75 miles.

No payment has been made up to the 30th of June, 1895.

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, via Newington, Chrysler, Manotick and Franktown, the road to be completed by the 1st of July, 1888. This subsidy lapsed on the 1st of July, 1888.

By the Act 50-51 Vic., 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^{87}_{100} miles. Under date the 1st of June, 1895, a contract was entered into with the company for the construction of this line from Cornwall to Ottawa, 53.87 miles, the work to be completed by the 1st of August, 1896.

Ontario and Quebec Railway Company.

(See West Ontario Pacific Railway Company, and Annual Report for 1891-92.)

Ontario, Belmont and Western Railway Company.

(See No. 246.)

This company was incorporated by the Ontario Act, 54 Vic., ch. 90 (1891), for the construction of a railway from the Midland Railway of Canada at either Hast ings or Campbellford to some point on the Central Ontario Railway within the township of Marmora, county of Hastings.

By the Subsidy Act, 55-56 Vic., ch. 5 (1892), the grant of a subsidy to this company to the extent of \$32,000, was authorized for 10 miles of railway from the Belmont iron mines to the Canadian Pacific and the Central Ontario Railway.

On the 9th of March, 1893, a contract was entered into with the company for this work, namely, from the Belmont mines to the junction of the two railways named, the road to be completed by the 1st of August, 1896.

No portion of this subsidy has been paid up to the 30th of June, 1895.

Orford Mountain Railway Company.

(See Annual Report for 1893-94.)

By the Subsidy Act, 53 Vic., ch. 2, the grant of 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 work was completed, and the subsidy was paid in 1892.

By an Order in Council, dated the 20th June, 1892, authority was given for entry into contract with the company for the balance of the work, 16½ miles, between Lawrenceville and Kingsbury, and such contract was signed on the 10th of September, 1892.

The road between Lawrenceville and Kingsbury has been completed, and during the past fiscal year, the subsidy applicable thereto, \$52,800, was paid, making the total payments to this company \$84,800, the whole amount applicable.

Ottawa, Arnprior and Parry Sound Railway Company

(See Nos. 92, 134, 199, 242, 276 and 277.)

This company was formed by the amalgamation, under the Act 54-55 Vic., ch. 93, of the Ottawa and Parry Sound Railway Company, incorporated by the Act 51 Vic., ch 35, and the Ottawa, Arnprior and Renfrew Railway Company, incorporated by the Act 51 Vic., ch. 71. The company has powers to build a line of railway from the city of Ottawa through Arnprior, Renfrew, Eganville and Killaloe, to a point on the Georgian Bay at or near the village of Parry Sound.

By the Subsidy Act 55-56 Vic., ch. 5 (1892), there were granted to this company the following subsidies (in lieu of subsidies previously granted but not utilized):—

- (a.) For 22 miles of railway from a point on the Canadian Pacific Railway to Eganville, a subsidy limited to \$70,400.
- (b.) For 30 miles of railway from Eganville to Barry's Bay, a subsidy limited to \$96,000.
- (c). For 55 miles of railway from Barry's Bay towards the Northern Pacific Junction Railway, a subsidy limited to \$6,400 a mile on the first half of that division, and to \$3,200 a mile on the second half, not exceeding in the whole \$264,000.

The first two subsidies were covered by a contract dated the 29th of September, 1892; the starting point on the Canadian Pacific Railway being Renfrew, and the date for completion being fixed as the 1st of August, 1896.

The third subsidy, from Barry's Bay towards the Northern Pacific Junction Railway, was covered by a contract with the company dated the 8th of November, 1892, for which was substituted a contract dated the 20th of September, 1894.

The location plans have been approved for the whole distance covered by the three subsidies.

The sections between Ottawa and Renfrew, were opened for traffic in September and December, 1893.

During the past fiscal year, payments have been made to the extent of \$249,-280, making the total payments to the company \$350,400, up to the 30th of June, 1895. The distance covered thereby is to the end of the 30th mile west from Barry's Bay, or a total of 82 miles west from Renfrew.

Ottawa and Gatineau Valley Railway Company.

Name changed to the Ottawa and Gatineau Railway Company (by the Act 57-58 Vic., ch. 87, which consolidated and amended Acts relating to the Company).

(See Nos. 8, 26, 58, 151, 305 and 349).

By the Act 48-49 Vic., 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 railway from Hull station towards the village of Le Désert, 62 miles, the amount being \$320,000. The subsidy having lapsed, it was revoted by the Act 52 Vic., ch. 3 (1889).

Under authority of an Order in Council of the 10th of July, 1889, a contract with the company for the work in question, 62 miles, was signed on the 19th of August.

By the Subsidy Act, 56 Vic., ch. 2, (1883), the unpaid balance, \$89,248, was revoted.

By the Subsidy Act, 57-58 Vic., ch. 6 (1894), authority was given for subsidizing to the extent of \$64,000, a further distance of 20 miles from the end of the 62 miles already subsidized, but no contract has yet been made for the work.

During the past fiscal year, no portion of the subsidy has been paid. The total payments up to the 30th of June, 1895, amounts to \$284,128.

Oshawa Railway and Navigation Company.

Name changed to the Oshawa Railway Company, by 54-55 Vic., ch. 91.

(See Nos. 112, 233 and 314.)

By the Act 50-51 Vic., ch. 24 (1887), the grant of a subsidy, to the extent of \$22,400, was authorized for seven miles of this company's railway, extending from Port Oshawa towards Raglan; they were admitted to contract on the 20th of July, 1889. This subsidy was renewed by the Act 54-55 Vic., ch. 8; and by the Act 56 Vic., ch. 2, 1893, it was revoted in such form as to admit of payment on completion of named sections.

Entry into contract accordingly has been authorized, but no contract has yet been signed.

By the special Act 54-55 Vic., ch. 91, the corporate powers of the company were revived, and its name was changed as above.

No portion of the subsidy has been paid up to the 30th of June, 1895.

Parry Sound Colonization Railway Company.

(See Nos. 153, 312, 342.)

By the Subsidy Act of 1889, 52 Vic., ch. 3, authority was given for the grant of a subsidy to this company, not exceeding \$128,000, for 40 miles of railway from the village of Parry Sound to the village of Sundridge, or some other point on the line of the Northern and Pacific Junction Railway.

On the 21st of July, 1890, the company were admitted to contract accordingly, the line to run from the village of Parry Sound through the townships of Foley, Christie, Monteith, McMurrich and Parry, joining the line of the Northern and Pacific Railway at Scotia, or a point about two miles from Elmsdale station. The date for completion has been extended to the 1st of August, 1897. The location for 50 miles has been approved by Order in Council, covering the distance between the Northern Pacific Junction Railway and Parry Sound.

By the Act 56 Vic., ch. 2 (1893), the unpaid balance of subsidy, \$97,600, was revoted.

By the Act 57-58 Vic., ch. 4 (1894), the grant of a further subsidy, limited to \$64,000, was authorized, for 20 miles of this company's railway east from Parry Sound.

During the past fiscal year there was paid the sum of \$68,780, making the total payments up to the 30th of June, 1895, \$128,000, covering 40 miles of railway built,

Philipsburg Junction Railway and Quarry Company.

(See Nos. 255 and 322.)

This company was incorporated by the Quebec Act 51-52 Vic., ch. 107 (1888) for the construction of a railway from Philipsbarg to Stanbridge.

By the Subsidy Act, 55-56 Vic., ch. 5 (1892), the grant of a subsidy to the extent of \$21,600 was authorized for a railway between the points named, $6\frac{7}{100}$ miles.

On the 27th of February, 1893, a contract was entered into with the company for this work, the distance being set down as $6\frac{3}{4}$ miles.

By the Subsidy Act, 57-58 Vic., ch. 4 (1894), a subsidy, in part a revote, was authorized for the small difference in length and for a short branch, in all, \$2,912.

During the past fiscal year, \$2,912 was paid, making a total of \$21,600, the full amount of the subsidy, covering the distance, 5.84 miles, from Stanbridge Station on the Central Vermont Railway to Philipsburg.

Port Arthur, Duluth and Western Railway Company.

(Formerly the Thunder Bay Colonization Railway Company.)

(See Annual Report of 1892-93.)

Pontiac and Renfrew Railway Company.

(See Annual Report of 1889-90.)

Pontiac Pacific Junction Railway Company.

(See Nos. 25, 137, 211, 329, 330 and 331.)

This company was incorporated by the Dominion Act 43 Vic., ch. 55' (1880), with powers to construct a railway from a point on the line of the Quebec, Montreal, Ottawa and Occidental Railway, at or near Hull or Aylmer, to a point in the

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county of Pontiac, suitable for crossing the River Ottawa, thence to Pembroke to connect with the Canada Central Railway.

The Act 45 Vic., ch. 69, gave authority for the construction of a bridge across the River Ottawa.

This line was subsidized by Parliament in 1884, 49 Vic., ch. 8, to the extent of \$3,200 a mile, not exceeding \$272,000.

Under authority of an Order in Council, dated the 12th of December, 1884, a contract, dated the 22nd of that month, was made with this company for the building of the line subsidized, namely, from Aylmer, Quebec, to Pembroke, crossing the River Ottawa at a point "not east of Lapasse"; the first twenty-seven miles to be completed by the 1st of September, 1885, (extended to the 15th of December by Order in Council of the 13th of August, 1885), the second twenty-seven miles by the 1st of July, 1886, and the whole road, estimated at eighty-five miles west of Aylmer, by the 1st of July, 1887.

By the Act 51 Vic., ch. 3 (1888), a subsidy to this company of \$31,500 was authorized for the bridging of the River Ottawa at Culbute; also a subsidy of \$9,600 for 3 miles of their railway from a point 3 miles east of Pembroke to Pembroke, provided that the entire work subsidized on this railway be completed within four years from the 22nd of May, 1888.

By the Act 53 Vic., ch. 2 (1890), a subsidy limited to \$24,000 was authorized for 7½ miles of this railway, between Hull and Aylmer.

By the Act 53 Vic., ch. 68 (1890), the time for completion of the railway to the town of Pembroke, and of the bridge over the River Ottawa, at or near the city of Ottawa, which the company were empowered to construct by the Act 45 Vic., ch. 69, was extended to the 22nd of May, 1892. The same Act gave the company power to extend their line from the said bridge to the canal basin in the city of Ottawa.

The Act 53 Vic., ch. 69 (1890), gave to this company power to purchase from the Canadian Pacific Railway Company the section between Hull and Aylmer, or any part thereof.

By the Subsidy Act, 55-56 Vic., ch. 5, clause 4 (1892), the balance unpaid of the subsidy voted in 1884 was revoted; and by the special Act of 1892, ch. 56, the time for the commencement of the bridge over the River Ottawa, at or near Ottawa, was extended for two years, and its completion for five years, from the 9th of July, 1892. The time for the completion of the line to Pembroke was also extended for four years from that date.

By the Subsidy Act, 57-58 Vic., ch. 4 (1894), the subsidies voted in 1888 were revoted, subject to the condition that the entire work subsidized on this railway should be completed within four years. The time for completion is thus extended to the 23rd of July, 1898.

By the same Act the unpaid balance of the subsidy voted by ch. 8 of the Act of 1884, less \$24,000 for the 7½ miles from Hull to Aylmer, was revoted, namely \$73,172.

By the same Act the sum of \$24,000, voted for the road from Hull to Aylmer in 1890, was, in effect, revoted.

The road is open from Aylmer to Waltham, 71 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. During the past fiscal year the sum of \$18,750 has been paid, making a total of \$193,578.

Quebec Central Railway Company.

(See Nos. 22, 142, 219 and 321.)

This company was subsidized in 1884, to the extent of \$211,200, in aid of the construction of 66 miles of their railway from Beauce Junction to the International Boundary.

Under the authority of an Order in Council, dated the 2nd of August, 1884, a contract was made with the company on that date for the construction of a line from Beauce Junction on their trunk line, thence up the valley of the River Chaudière to the frontier, the line to be completed by the 2nd of February, 1888.

The location of the first 23 miles was approved of by an Order in Council of the 8th of May, 1885. The amount of the subsidy paid up to the end of the fiscal year 1885-86, under an Order in Council of the 14th of August, 1885, was \$60,342, covering 15½ miles of road inspected, starting from Beauce Junction.

In lieu of the balance of this subsidy, which lapsed on the 1st of July, 1888, authority was given by the Act 51 Vic., ch. 3 (1888), for the grant of a subsidy to this company of \$21,191.54 a year, for 20 years, equivalent to a cash grant of \$288-000, for a line of railway from St. Francis station to a point on the Atlantic and North-west Railway, near Moose River, 90 miles. No contract was made for this work.

By the Act 53 Vic., ch. 2 (1890), in lieu of the subsidy so granted, the company may receive the same amount for a similar term of years, or a guarantee of interest on bonds for a like sum, for 90 miles of their railway from St. Francis station on their line to a point on the Atlantic and North-western Railway near Moose River, or from a point on their line between the Chaudière River and Tring station to a point on the International Railway at or near Lake Megantic; the first annual payment to be made at the end of twelve months from the date of the certificate of completion. A contract was entered into for this subsidy on the 30th of June, 1892, the work to be completed by the 1st of July, 1894.

By the Subsidy Act, 57-58 Vic., ch. 4 (1894), authority was given for the payment of the subsidy granted by the Act of 1890, as a cash subsidy, at the present worth \$288,000; payment to be made on completion, inspection, and acceptance of the railway. An Order in Council of the 16th of June, 1894, has authorized this mode of settlement of subsidy, but nothing can be paid until an inspection, to be made on completion of the above road, has shown it to be in a satisfactory condition.

In view of the terms of the subsidy, there has been no further payment beyond the \$60,342 made in 1885-86, up to the 30th of June, 1895, but at that date the road was nearly completed.

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Quebec and Lake St. John Railway Company.

(See Nos. 2, 14, 40, 82, 126, 140, 177, 220, 232, 300 and 347.)

By the Subsidy Act of 1882, a subsidy of \$384,000 was granted for a line from St. Raymond to Lake St. John. By the Act of 1883, the Quebec and Lake St. John Railway Company, engaged in the work of constructing 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 was \$775, 095, the number of miles subsidized being 186.

An agreement was duly entered into on the 4th of September, 1883, in respect of the two subsidies first named, under which this line was to be completed by the 25th of May, 1887, the portion up to Lake Edward to be completed by the 31st of December, 1885; and on the 10th of February, 1886, an agreement was signed covering the third subsidy, namely, that of 1885. For the subsidies granted in 1886 and 1887, no further contracts were required, these subsidies being applicable to works embraced in the previous contracts.

By the Act 21 Vic., ch. 3, a subsidy to the extent of \$96,000, previously granted to the Saguenay and Lake St. John Railway Company, for 30 miles of their railway, from Lake St. John towards Chicoutimi, was transferred to this company, and under authority of an Order in Council of the 17th of November, 1888, a contract was made with them on the 5th of December for this work, which starts from Chambord Junction, near Lake St. John, on the main line; the work to be completed by the 1st of August, 1890.

By the Act 52 Vic., ch. 3 (1889), a further subsidy of \$64,000 was granted for an additional 20 miles, making the total subsidy for this branch \$160,000. Under date the 17th of October, 1892, a contract was entered 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.

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By the Act 55-56 Vic., ch. 5, clause 5 (1892), authority was given for the payment of the unpaid balance of the subsidy granted in 1889, and also for the payment of the unpaid balance, \$12,800, of the subsidy granted in 1887. This last, representing 4 miles of railway built towards Roberval, was covered by a contract made on the 17th of October, 1892.

By the Subsidy Act, 56 Vic., ch. 2 (1893), the unpaid balance, \$81,040, of the subsidy granted by 51 Vic., ch. 3, was revoted.

By the Subsidy Act, 57-58 Vic., ch. 4 (1894), a subsidy was voted to this company for 2 miles of their Chicoutimi branch to deep water at Chicoutimi, also for a further distance of 12 miles from the 52nd mile of that branch to Ha! Ha! Bay, in al! \$44,800.

During the past fiscal year no payments were made. The total payments to the company up to 30th of June, 1895, amount to \$1,002,999.50, covering the main line and 50 miles of the Chicoutimi Branch.

Quebec, Montmorency and Charlevoix Railway Company.

(See Nos. 164 and 304.)

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 Tourmente, Quebec.

A contract was entered into with the company on the 14th of November, 1889, for this work, from Hedleyville to St. Joachim.

By the Subsidy Act, 56 Vic., ch. 3 (1893), the unpaid balance, \$30,400, of the previous subsidy was revoted.

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. During the fiscal year the balance of the 30 miles subsidized has been completed, and the sum of \$30,400 paid, making the total payments \$96,000, the whole amount of the subsidy.

Shuswap and Okanagan Railway Company.

(See No. 167.)

This company was incorporated by the Act 49 Vic., ch. 82 (1886), 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 Okanagan.

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 road is completed.

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During the fiscal year the sum of \$300 was paid to the company, making the total payments up to the 30th of June, 1895, \$163,200, the full amount of the subsidy.

This road is leased to the Canadian Pacific Railway for a term of 25 years, under an agreement confirmed by the Act 54-55 Vic., ch. 72 (1891).

South Norfolk Railway Company.

(See Annual Report of 1888-89.)

South Shore Railway Company.

(See No. 365.)

This company, incorporated by chap. 130 of the Statutes of Nova Scotia of 1892, received a Dominion charter by the Act 58-59 Vic., ch. 64 (1895), with powers to construct a line of railway from a point near the harbour of Yarmouth, N.S., then passing through the counties of Yarmouth, Shelburne, Queen's, Lunenburg and Halifax to a point in or near the city of Halifax; also a branch line to Lockeport and Caledonia.

By the Subsidy Act 57-58 Vic., ch. 4 (1894), the grant of a subsidy to this company of \$3,200 a mile, limited to \$112,000, was authorized for 35 miles of railway from Yarmouth towards Shelburne and Lockeport.

Under date the 28th of February, 1895, a contract was entered into with the company for the work so subsidized, the time for completion being fixed as the 1st of August, 1897. The location plans for the whole distance have been approved by an Order in Council dated the 14th of February 1895.

No portion of the subsidy has been paid up to the 30th of June, 1895.

St. Catharines and Niagara Central Railway Company.

(See Nos. 96, 176, 190, 265 and 319.)

By the Act 50-51 Vic., ch. 24 (1887), the grant of a subsidy to the extent of \$38,400 to the above company was authorized for 12 miles of their railway from St. Catharines to the bridge over the River Niagara.

The company were admitted to contract on the 5th 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 53 Vic., ch. 7 (1890), a subsidy limited to \$44,800 was authorized for a further distance of 14 miles.

By the Act 50-51 Vic., ch. 5 (1892), in lieu of the subsidies granted in 1889 and 1890, there was granted an annual subsidy for 20 years, calculated on the basis of $3\frac{1}{2}$ per cent of the amount, not to exceed \$108,000, granted for the 34 miles in question; payment of the first half-yearly instalment to be made 6 months after the date of the Chief Engineer's certificate of completion.

By the Subsidy Act, 57.58 Vic., ch. 4 (1894), the grant of a subsidy to this company for 34 miles of their railway from St. Catharines to Hamilton was authorized, the amount not to exceed \$108,800.

During the fiscal year 1890-91, the sum of \$11,760 was paid, covering the distance, 12 miles, between St. Catharines and Niagara River, making a total of \$38,400 paid to this company. No further payments have been made up to the 30th of June, 1895.

St. Clair Frontier Tunnel Company.

(See Annual Reports of 1890-91 and 1891-92.)

St. John Valley and Rivière du Loup Railway Company.

(See Annual Report of 1893-94.)

Stewiacke Valley and Lansdowne Railway Company.

(See Nos. 87, 232, 254 and 258.)

By the Act 49 Vic., ch. 18 (1886), a subsidy was authorized for a railway from a point on the Intercolonial Railway through the Stewiacke Valley, affording communication with the Iron Mines, Spring Side, Upper Stewiacke and Musquodoboit settlements, 25 miles, the extent of aid not exceeding \$80,000. The Stewiacke Valley and Lansdowne Railway Company having applied for this subsidy, a contract was made with them on the 17th of December, 1886, the line to be completed by the 1st of December, 1889.

By the Act 53 Vic., ch. 2 (1890), the above subsidy was, in effect, revoted, and the old contract having been cancelled, a new contract with this company was entered into on the 30th of August, 1890. Completion was called for by the 1st of September, 1892.

By the Act 55-56 Vic., ch. 5 (1892), the same subsidy was, in effect, revoted.

By the Act 52 Vic., ch. 3 (1889), a subsidy was granted for a railway from Truro or a point between Truro and Stewiacke to Newportor Windsor, 49 miles, the limit being \$156,800. A contract was made with this company on the 30th of August, 1890, for the work; the line to run from Brockville station, on the Intercolonial, to Newport station, on the Windsor Branch Railway; the line to be completed by the 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 30th June, 1895.

St. Lawrence and Adirondack Railway Company.

(See Annual Report for 1893-94.)

St. Lawrence, Lower Laurentian and Saguenay Railway Company.

(Name changed to "The Laurentian Railway Company" by Provincial Act 51-52 Vic., ch. 108.)

(See Annual Report for 1891-92.)

St. Louis and Richibucto Railway Company.

(See Annual Report of 1884-85.)

Témiscouata Railway Company-Rivière du Loup to Edmundston.

(See Annual Report for 1892-93.)

Thousand Islands Railway Company.

(See Nos. 182 and 269.)

By the Subsidy Act, 52 Vic., ch. 3 (1889), the grant of a subsidy to the extent of \$54,400 to the above company, for 4 miles of their railway from a point near the River St. Lawrence, in the village of Gananoque Junction, on the Grand Trunk Railway, and for 13 miles of their railway from Gananoque Junction to a point of junction with the Brockville, Westport and Sault Ste. Marie Railway, was authorized.

A contract was made with the company for this work on the 24th of October, 1889, the 4-mile section to be built by the 1st of July, 1890, and the 13-mile section by the 1st of August, 1893. In the fiscal year 1889-90, the sum of \$10,400 was paid for the section, 3½ miles, from Gananoque to the Grand Trunk Railway, completed.

By the Act 55-56 Vic., ch. 5 (1892), in lieu of the unpaid balance, \$44,000, of the above subsidy, there were granted railway subsidies for the extension of the railway, one, the northern, to connect with the Brockville, Newport and Sault Ste. Marie Railway, the Kingston, Napanee and Western Railway, the Kingston, Smith's Falls and Ottawa Railway, or the waters of the Rideau Canal, for which the limit is \$30,000; the other, the southern, and across the mouth of Gananoque River, for which the limit is \$14,000.

Under date the 30th of November, 1892, a contract was entered into with the company for this work; the date for completion being fixed as the 1st of August, 1896.

During the past fiscal year no payments were made. The total paid up the 30th of June, 1895, is \$24,400.

Tobique Valley Railway Company.

(See Annual Report for 1893-94.)

Toronto, Grey and Bruce Railway Company.

(See Annual Report for 1887-88.)

United Counties Railway Company.

(See Nos. 297 and 344.)

This company was incorporated by the Quebec Act 46 Vic., ch. 90 (1883), for the construction of a railway from a point on the line of the Montreal, Portland and Boston Railway, at Richelieu, to a point on the River Richelieu and the River St. Lawrence.

By the Subsidy Act, 56 Vic., ch. 2 (1893), a subsidy to the extent of \$102,400 for 32 miles between Iberville and St. Hyacinthe, and beyond towards Sorel, was authorized.

On the 19th of August, 1893, a contract was entered into with the company for this work.

By the Subsidy Act, 57-58 Vic., ch. 4 (1894), a subsidy, limited to \$102,400, was authorized for a further distance of 32 miles, and on the 23rd of October, 1894, a contract was made with the company for the work, covering the whole distance from St. Hyacinthe to Sorel.

During the past fiscal year, the sum of \$42,728.15 was paid, making the total payments \$131,701.15.

Vaudreuil and Prescott Railway Company.

(See Montreal and Ottawa Railway Company.)

Waterloo Junction Railway Company.

(See Annual Report for 1891-92.)

Western Counties Railway Company.

(Name changed to "The Yarmouth and Annapolis Railway Company" by 56 Vic., ch. 63.)

(Name further changed to "The Dominion Atlantic Railway Company" by 57-58 Vic., ch. 69.)

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; and 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 pre-

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mises, undertook to pay to the company the sum of \$500,000, the 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 the 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 the 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 completed. The company was placed in possession for operating purposes on the 27th of July, 1891.

On the 17th of January, 1894, the company executed a deed of release to the Government in respect of all claims, and on the 1st of February, letters patent were issued, vesting the said section of railway in the company.

The total Government expenditure up to the 30th of June, 1895, is \$619,225.80.

By the special Act 57.58 Vic., ch. 69 (1894) authority was given for the purchase of the Yarmouth and Annapolis Railway by the Windsor and Annapolis Railway Company, in accordance with an agreement between the two companies, dated the 12th of October, 1893, and for the change of the names of the companies to "The Dominion Atlantic Railway Company."

West Ontario Pacific Railway Company.

(Leased to the Ontario and Quebec Railway Company-C. P. R.)

(See Annual Report of 1890-91.)

Woodstock and Centreville Railway Company.

(See Nos. 131, 203, 266, 281 and 335.)

By the Act 50-51 Vic., ch. 24 (1887), (see Nos. 131, 203, 266, 281 and 335) 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, contract was made with them on the 6th of May, 1889, for the distance named; the line to start from Upper Woodstock station, on the New Brunswick Railway; the work to be completed by the 1st October, 1890, the date being subsequently extended to the 1st of October, 1893.

By the Act 53 Vic., ch. 2 (1890), a subsidy, limited to \$19,200, was authorized for a further distance of 6 miles to the International Boundary.

By the Act 55-56 Vic., ch. 5 (1892), the subsidy granted in 1887 was, in effect, revoted.

By the same Act, the subsidy granted in 1890, for the further distance to the boundary was in effect revoted.

A contract, dated the 16th of September, 1892, was made with the company, to construct the 26 miles so subsidized, the date for completion being fixed as the 1st January, 1894.

By the Subsidy Act, 57-58 Vic., ch. 4 (1894), the two subsidies granted in 1887 and 1890 were revoted, namely, for 26 miles of railway from Woodstock to the International Boundary, \$83,200.

By an Order in Council of the 24th of July, 1894, the contract time has been extended to the 1st of August, 1896.

No portion of the subsidy has been paid up to the 30th of June, 1895.

Yarmouth and Annapolis Railway Company.

(See Western Counties Railway Company.)

LAND SUBSIDIES.

The following companies have been aided by subsidies in land, duly authorized by Parliament and granted by the Department of the Interior:—

They are enumerated here because the engineering details have been dealt with by this department, the certificate of whose officer is required prior to handing over to the company concerned any part of the subsidy. (The numbers given refer to the special "Land subsidies" list. See Appendix 10, page 228).

Alberta and Athabasca Railway Company.

(Name changed by 52 Vic., ch. 65, to the "North-west Railway Company of Canada," which see.)

Alberta Railway and Coal Company.

(See Annual Report for 1892-93.)

(See also "North-western Coal and Navigation Company," in Annual Report of 1891-92.)

Brandon and South-western Railway Company.

(See No. 19, Land subsidies.)

By an Order in Council, dated the 23rd of November, 1889, but subject to the approval of Parliament, and contingent on their obtaining an Act of incorporation from the Dominion, this company has been granted a subsidy of 6,400 acres per mile in aid of a railway from a point in Township 1, in either Range 23 or 24, west of the 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). Under the said Order in Council, the subsidized section was to be completed and running by the 1st of May, 1891. Location plans and profiles have been approved by an Order in Council, dated the 19th of February, 1892, showing the proposed line from a point of junction with the Souris Branch of the Canadian Pacific Railway to the Turtle Mountain coal fields. A revised location was approved by an Order in Council of the 3rd of October, 1894.

By the special Act 57-58 Vic., ch. 65, the company's charter was revived.

By the Land Subsidies Act, 57-58 Vic., ch. 6 (1894), the subsidy authorized in 1890 was revoted.

Calgary and Edmonton Railway Company.

(See Annual Report for 1892-93.)

Canadian Pacific Railway Company.

(See Annual Report for 1892-93.)

Great North-west Central Railway Company.

(See No. 7, Land subsidies.)

The construction of a line of railway to extend from Brandon on the Canadian Pacific Railway, to Battleford, in the provisional district of Saskatchewan, a distance of about 450 miles, was contemplated by the North-west Central Railway Company (formerly the Souris and Rocky Mountain Railway Company); and under an Order in Council of the 29th of July, 1885, the privilege of purchasing land at the rate of \$1.06 per acre, to the extent of 6,400 per mile, previously accorded, was converted into a free grant of such land (subject to a charge of 10 cents per acre for survey), the grant being contingent on the due completion of the work in stated sections.

This concession did not result in the construction of any section of the road; and difficulties arising, and other applications being put forward for the work, the Act 49 Vic., ch. 11 (1886), granting aid to the extent of 6,400 acres per mile for the same, was made applicable either to the company named or to such other company as might undertake the construction of the road. The Great North-west Central Railway Company was incorporated by an Order in Council of the 22nd of July, 1889, in conformity with the provisions of the Act; a second Order, of the 3rd of August amending such charter, and the whole being confirmed and ratified by the Act

51 Vic., ch. 85 (1888). A section of such charter giving running powers to the Canadian Pacific Railway was repealed by 52 Vic., ch. 67 (1889).

By an Order in Council, also of the 22nd July, 1886, the subsidy referred to was granted to this company, the contract itself being signed on the 12th of September, 1887. Under successive Orders in Council the time for completion has been extended.

On the 3rd of September, 1890, an Order in Council was passed accepting as completed the first 50-mile section.

By an Order in Council, dated the 7th of December, 1891, extension of time was accorded—subject to the condition that the first 50 miles should be effectively operated and maintained on and after the 15th of that month, as follows:—100 miles from the end of the first 50 miles by the 30th November. 1892, and 300 miles further (or whatever distance may be required to complete the road to Battleford) by the 30th of November, 1893.

The company reported the first 50 miles as having been opened for traffic on the 16th of December, 1891.

On the 20th of June, 1892, an Order in Council was passed approving of the proposed location for the second 50-mile section.

By the special Act 58-59 Vic., ch. 48 (1894), the charter time for completing this railway to the Rocky Mountains was extended to the 22nd of May, 1902, provided that before the end of 1897, and each year thereafter, not less than 20 miles be completed.

Lac Seul Railway Company. (See Annual Report of 1891-92.)

Manitoba and North-western Railway Company.

(See Land subsidies Nos. 4 and 6, also Money subsidies No. 358.)

This company was incorporated by the Provincial Act 43 Vic., ch. 35 (1880), under the name of the Westburne and North-western Railway Company, and received a Dominion charter by the Act 45 Vic., ch. 80 (1882). In 1883 its name was changed to the Manitoba and North-western Railway Company. Various Acts followed in subsequent years, defining and extending the company's powers.

In 1893, however, these were all repealed, being consolidated in an Act 56 Vic., ch. 52. This Act gave specific powers for the construction of (a) an extension of the main line from the terminus at Yorkton, to, or near to, Prince Albert, (b) an extension of the Shell River Branch to the northern or western boundary of the province, and other branches from the main line. The company was required to construct not less than 20 miles a year, but by a subsequent Act, chap. 79, of 1894, nine years have been allowed for the completion of the extension authorized, such portion, not exceeding 20 miles a year, to be built each year as may be prescribed by the Governor in Council.

By the Act 48-49 Vic., ch. 60, authority was given for the grant of aid for a line from Portuge 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 a rate of 50 miles a year.

By the 1st of December, 1885, the company had built and equipped 131 miles of road.

By the Act 49 Vic., ch. 11 (1886), authority was given for the grant of aid for a branch of this railway from a point on the main line at or near Todburn to the River Assiniboine, near Shellmouth, about 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 16th and 21st of September, 1886, the line was permitted to start from Binscarth, the Order first named approving the location to Russell, up to which point the road has been built. This branch, 11½ miles long, is in operation.

By the Subsidy Act of 1894, 57.58 Vic., ch. 4, the grant of a subsidy to this company, limited to \$320,000, was authorized for the construction of 100 miles of an extension of the main line towards Prince Albert, the company relinquishing 3,200 acres per mile of their land grant.

The main line is in operation from Portage la Prairie to Yorkton, 223 miles.

Manitoba and South-eastern Railway Company.

(See Annual Report for 1893-94.)

Manitoba South-western Colonization Railway Company.

(Leased to the Canadian Pacific Railway Company.)

(See Annual Report for 1890-91.)

Medicine Hat Railway and Coal Company.

(See No. 12, Land subsidies.)

By the Act 50-51 Vic., ch. 23 (1887), authority was given for the grant to the above company of Dominion lands to the extent of 6,400 acres per mile, for a railway from a point at or near Medicine Hat, on the line of the Canadian Pacific Railway, to the coal fields in or near Townships Nos. 12 and 13, Range 6, west of the 4th Principal Meridian, a distance of about 8 miles.

By an Order in Council of the 6th July, 1887, the grant was made to the company accordingly, it being provided that the road should be completed and in operation by the 31st of December, 1888.

By an Order in Council of the 24th of January, 1889, approval was given to a draft of a formal contract with the company, and an extension of time to the 2nd of June, 1890, was granted for completion of the road. A contract was signed on the 14th of February, 1890, for this work.

By the special Act 54-55 Vic., ch. 79 (1891), the charter of the company was revived and its powers were extended, and by the special Act 57-58 Vic., ch. 80, the time limit for completion was further extended to the 1st of January, 1898.

North-western Coal and Navigation Company
(Purchased by the Alberta Railway and Coal Company.)

(See Annual Report for 1891-92.)

North-western Railway Company of Canada.

(Formerly the Alberta and Athabasca Railway Company.)

(See Annual Report for 1891-92.)

Qu'Appelle, Long Lake and Saskatchewan Railroad and Steamboat Company.

(Leased to the Canadian Pacific Railway Company.)

(See Annual Report for 1891.)

Red Deer Valley Railway and Coal Company.

(See Nos. 14 and 26, Land subsidies.)

This company was incorporated by the Act 52 Vic., ch. 52, for the construction of a railway from a point near Calgary, N.W.T., to a point on the Red Deer River, in Township 32, Range 21, west of the 4th Principal Meridian, the route being defined; also from a point at or near Cheadle station, on the Canadian Pacific Railway, northerly to a point of junction with the line from Calgary, in or near Township 26, Range 25, west of the 4th Principal Meridian, with other branches indicated.

On the 28th of November, 1888, an Order in Council authorized the grant, subject to approval by Parliament, of a subsidy in land to the extent of 6,400 acres per mile for the line from Cheadle station to a point in or near Township 29, Range 23, west of the 4th Meridian, a distance of about 55 miles. This was confirmed by the Land Subsidy Act, 52 Vic., ch. 4 (1889).

By the Act 54-55 Vic., ch. 9, the above subsidy was cancelled, and in lieu thereof there was granted a subsidy, not exceeding 6,400 acres per mile, for the company's railway from Calgary to a point in or near Township 29, Range 23, west of the 4th Meridian, a distance of about 55 miles.

On the 17th of June, 1893, a contract was entered into with the company for the lines so subsidized, the work to be completed by the 1st of November, 1894.

By an Order in Council of the 28th February, 1894, the time for completion was extended to the 1st of November, 1895.

Winnipeg and Hudson Bay Railway and Steamship Company.

[Name changed to Winnipeg Great Northern Railway Company by the Act 57-58 Vic., ch. 94 (1894).]

(See No. 1, Land subsidies, and Special Act, 54-55 Vic., ch. 81.)

By 47 Vic., ch. 25, clause 7 (1884), authority was given for the grant of aid or a line from some point on the Canadian Pacific Railway to Hudson Bay, viz.,

for each mile in Manitoba, 6,400 acres, and in the North-west Territories, 12,800 acres.

In the year 1880, by Act 43 Vic., ch. 59, there was incorporated the "Winnipeg and Hudson's Bay Railway and Steamship Company," with powers for the construction of a line from Winnipeg to or near Port Nelson, Hudson's Bay.

In 1884 this Act was amended (by chapter 70), and the company were authorized to commence their line either from Winnipeg or from some point between Selkirk and Portage la Prairie, extending to Port Nelson and Churchill, or some other point on Hudson's Bay; also to construct a branch from any point on their main line to the Canadian Pacific Railway, west of Lake Winnipegosis, contruction to be carried on at the rate of at least 50 miles a year.

By the same Act, a previous Act authorizing the amalgamation of this company with the Nelson Valley Railway and Transportation Company was repealed, and authorization was given for the winding up of the company last named, and the transfer to the Winnipeg and Hudson's Bay Company of all its property and interests.

By an Act passed in 1886 (49 Vic., ch. 73), the date for completion was fixed as the 2nd of June, 1890.

By an Order in Council of the 11th of May, 1885, all previous Orders in this connection were cancelled, and there was granted to the Winnipeg and Hudson's Bay Railway and Steamship Company a subsidy in land, as follows:—

Division A.—From the Canadian Pacific Railway to the northern boundary of Manitoba—estimated distance, 225 miles....... 1,440,000

The time for completion was fixed by this Order as 50 miles on division A or B by the 19th of April, 1887, and 50 miles a year thereafter until completion of main line; but if the main line was not completed by the 11th of May, 1890, they were to forfeit their right to a grant for their branch line, which must itself be completed by the 11th May, 1893.

In April, 1888, the Chief Engineer of Government Railways reported, showing that 40 miles of road were completed, with the exception of certain station buildings, &c.

By an Order in Council dated the 16th of September, 1891, the dates for the completion of the company's road have been extended as follows:—

From the end of the 40 miles already built to a point on the south shore of the River Saskatchewan, near the western end of Cedar Lake, or between Cedar Lake

and Grand Rapids, a distance of about 250 miles, by the 21st of June, 1894 (the limit allowed by their charter as amended by 53 Vic., ch. 80). This Order in Council approved of the draft of a definite agreement to be made with the company for the work, and the agreement was duly signed on the 18th of September, 1891.

By the special Act 54-55 Vic., ch. 81, the entry into a contract with this company was authorized for the conveyance of men, supplies, materials and mails over the portion of this line between Winnipeg and the River Saskatchewan for an annual payment of \$80,000 a year, for 20 years. Under authority of an Order in Council, an agreement was made with the company accordingly on the 18th of September, 1891.

Under date the 8th of November, 1893. an Order in Council was passed extending the time for the completion of the main line to the River Saskatchewan to the 21st of December, 1896.

By the special Act 57-58 Vic., ch. 94 (1894), the name of the company was changed, as above, and an extension of time to the 31st of December, 1896, was granted for the completion of the main line to the River Saskatchewan.

By the special Act 58-59 Vic., ch. 8, the transport subsidy Act, 54-55 Vic., ch. 81 was amended to such effect as to enable one-half of the annual subsidy to be paid on completion of one-half of the railway between Winnipeg and the River Saskatchewan, and the balance on completion of the remainder; amendment of the transport contract of the 18th of September, 1891, accordingly, being authorized Failing this action, the Governor in Council was authorized to transfer the said one-half of the subsidy to some other company.

Wood Mountain and Qu'Appelle Railway Company.

(See No. 8, Land subsidies.)

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 between the Canadian Pacific and Fort Qu'Appelle), the rate of construction to be 50 miles each year, subsequently, until completion of the road.

By a further amending Order in Council of the 22nd of November, 1887, the company 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

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direction to a point at or near the North-west corner of Lake Winnipegosis; the portion between the point of intersection with the Canadian Pacific Railway and Fort Qu'Appelle to be completed by the 1st August, 1890, and the whole road by the 16th of April, 1896.

By the Land Subsidy Act of 1889, 52 Vic., ch. 4, the subsidy provided by the Act 49 Vic., ch. 11, was made available for this new line.

By the Act 53 Vic., ch. 83 (1890), the statutory time for the construction of the portion of this railway between the Canadian Pacific Railway at Fort Qu'Appelle was extended to the 1st of August, 1892—the balance of the road to be completed at the rate of 50 miles a year thereafter.

This Act was repealed by the Act 55-56 Vic., ch. 63 (1892), and the time for the completion of the railway between the point of intersection with the Canadian Pacific Railway and Fort Qu'Appelle was extended to the 30th of October, 1894, the railway to be completed at the rate of 20 miles each year thereafter.

Powers were given to convey or lease the road to the Canadian Pacific Railway Company, the Manitoba and North-western Railway Company, the Great North-west Central Railway Company, or the Winnipeg and the Hudson Bay Railway Company.

By the special Act of 1894, 57-58 Vic., ch. 96, the time for completion of the section of railway between the Canadian Pacific Railway and Fort Qu'Appelle was extended to the 30th of October, 1896. The remainder of the road to be completed at the rate of 20 miles a year thereafter.

THE RAILWAY COMMITTEE OF THE PRIVY COUNCIL.

The Minister of Railways and Canals, being Chairman of the Railway Committee of the Privy Council, on which certain extensive duties are imposed by the Railway Act, 1888, and its amendments, it seems proper that a brief record should here be made of the matters submitted to the Committee during the calendar year from January to December, 1895, and the decisions arrived at. They are as follows:—

Extension of Cedar Avenue, Point Claire, across Grand Trunk and Canadian Pacific Bailways.—Under consideration.

Petition of certain ratepayers of the town of St. Johns, P. Q., against the granting of an application from the Atlantic and North-west Railway Company for approval of the construction of a siding from their main line to the Chambly Canal.—Petition withdrawn—Case dismissed.

Complaint of village of Eganville with reference to the Atlantic and North-west Railway track along John Street in that village and request that street be graded up to the same level.—Application withdrawn—Case dismissed.

Toronto, Hamilton and Buffalo Railway under-crossing of Grand Trunk Railway near, Cainsville. Approved.

Cobourg, Northumberland and Pacific Railway crossing of the Grand Trunk Railway at Cobourg.—Approved.

Town of Berlin application for certain improvements to highway bridge crossing Grand Trunk Railway on Margaret Avenue.—Not granted.

Town of Berlin, application for Tuerk Street to be opened up across the Grand Trunk Railway.—Not granted.

Town of Berlin, application re certain changes at bridge crossing the Galt Branch of the Grand Trunk Railway over Tuerk Street.—Changes approved.

Occupation by Tillson Spur Line Rulway of certain streets in the town of Tilsonburg.—Approved.

Junction of Tillson Spur Line with Grand Trunk and Canadian Pacific Railways in the town of Tilsonburg—Approved.

Application from the County and Township of York for a case to be stated for the Supreme Court re apportionment of the cost of certain protection ordered at the Dufferin and Bathurst Street crossings of the Canadian Pacific Railway in the city of Toronto.--Not granted.

Application of the Toronto Trades and Labour Council for an Order to issue, under 57-58 Vic., cap. 55, directing protection to be provided for motor-men and others on electric and other railways.—Applicants did not appear—Case dismissed.

Occupation by the Cobourg, Northumberland and Pacific Railway of certain streets in the town of Cobourg.—Approved.

Extension of Stanley Street in the town of Richmond across the Grand Trunk Railway,—Under consideration.

Complaint of Messrs. Chapman & Co., Grain and Commission Merchants, Toronto, of alleged overcharge on wheat shipped by the Canadian Pacific Railway from the North-west.—Dismissed—The Committee not having jurisdiction.

Cobourg, Northumberland and Pacific Railway crossing of spur line of Grand Trunk Railway at Campbellford.—Not approved—Other arrangements ordered.

Cobourg, Northumberland and Pacific Railway under crossing of the Grand Trunk Railway at Campbellford.—Approved.

Occupation by the Cobourg, Northumberland and Pacific Railway of certain streets in the town of Campbellford.—Approved.

Toronto, Hamilton and Buffalo Railway overhead crossing of Aberdeen Avenue and Hamilton and Dundas Street Railway in the city of Hamilton.—Approved.—Subject to an agreement between parties being furnished.

Toronto, Hamilton and Buffalo Railway under-crossing of London and Hamilton public road near Brantford.—Approved.

Toronto, Hamilton and Buffalo Railway crossing of Hamilton and Dundas public road by an overhead bridge.—Approved.

Kingston, Napanee and Western Railway crossing of the Kingston and Pembroke Railway at Harrowsmith.—Approved.

Galt, Preston and Hespeler Railway crossing of the Grand Trunk Railway at Hespeler,—Approved.

Township of Wainfleet, application for an Order directing the Grand Trunk Railway Company to enlarge a culvert carrying drain under their track.—Granted. Terms under consideration.

Petition from the Central Ontario Railway to be released from maintaining night watchman at crossing by their railway of the Grand Trunk Railway at Trenton, and at a point in the Township of Rawdon.—Not granted.

Application of the city of Toronto for an Order to issue authorizing the widening of the Queen Street Subway passing under the tracks of the Grand Trunk and Canadian Pacific Railways in that city.—Case pending.

Grand Trunk Railway siding in the village of Dunnville.—Sanctioned.

Atlantic and North-west Railway crossings of certain streets in the town of St. Johns, P.Q.—Approved.

Application of the Canadian Pacific Railway Company and the city of Toronto for approval of plans, &c., of an overhead highway bridge along east side of York Street in the city of Toronto.—Plans, &c., approved generally—Detailed plans to be submitted for approval of the Government Chief Engineer.

Extension of Ellis Street and Eastwood Avenue, in the town of Niagara Falls, across the Canada Southern Railway.—Eastwood Avenue crossing approved—Ellis Street crossing not approved.

Canada Southern Railway Branch from a point near the Welland Station to the works of the Ontario Peat Fuel Co.—Sanctioned.

Junction of Canada Southern Railway Branch to works of Ontario Peat Fuel Co., with their main line.--Approved.

Crossing by Canada Southern Railway Branch to works of Ontario Peat Fuel Co., of the Forks Road, or road allowance, between Concessions 4, lot 8, and 5, lot 9.—Approved.

Plan and proposed site of bridge to carry the Canada Southern Railway Branch to works of Ontario Peat Fuel Co., across the Welland Canal Feeder.—Approved.

Canada Southern Railway Branch from Ruscombe's Siding to Smith's Mill, Township of Rochester, County of Essex.—Approved.

Plan and site of Canada Atlantic Railway Bridge across the Richelieu River, at Lacolle.—Approved.

Great Northern Railway crossing of Piles Branch of the Canadian Pacific Railway.—Approved.

Plan and site of Great Northern Railway Bridge across the Ottawa River and Grenville Canal, near Hawkesbury, Ont.—Approved.

Massawippi Valley Railway Branch, from a point on the Stanstead and Derby Branch of that railway to the village of Stanstead Plain.—Sanctioned.

Toronto, Hamilton and Buffalo Railway, overhead crossings of Garth, Poulette, Locke, Pearl and Bay Streets, in the city of Hamilton.—Approved.

Toronto, Hamilton and Buffalo Railway crossings of certain public roads in the Townships of Brantford and Ancaster.—Approved.

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Toronto, Hamilton and Buffalo Railway, occupation of part of Hunter Street, in the city of Humilton, including the construction of a tunnel along said street.

—Approved.

Toronto, Hamilton and Buffalo Railway, overhead crossing of Hamilton and Dundas Street Railway on road allowance between 3rd and 4th Concessions, Town ship of Barton, Ont.—Approved.

Cobourg, Northumberland and Pacific crossing of the Central Ontario Railway in the Township of Rawdon, Ont.—Approved.

Oshawa Railway crossing of the Grand Trunk Railway, in the Township of East Whitby, Ont.—Approved.

Toronto, Hamilton and Buffalo Railway crossing of Hamilton and Dundas Street Railway, corner McNab and Hunter Streets, Hamilton.—Approved.

Toronto, Hamilton and Buffalo Railway Crossing of Grand Trunk Railway, east of Victoria Avenue, South Hamilton.—Approved.

Toronto, Hamilton and Buffalo Railway under-crossing of Hamilton Street Railway, on Locke Street, Hamilton.—Approved.

Toronto, Hamilton and Buffalo Railway crossing of Hamilton Street Railway, on James Street, in the City of Hamilton.—Approved.

Plan and site of Toronto, Hamilton and Buffalo Railway Bridge across the Chippawa River at Welland.—Approved.

Montreal Street Railway crossing of the Canadian Pacific Railway, on St. Denis Street, Montreal.—Approved.

Montreal Street Railway crossings of the Grand Trunk Railway, on Notre Dame Street, Montreal.—Approved.

Grand Trunk Railway Branch, St. David's Station to Queenston Quarries.—Sanctioned partly on a different location from that previously sanctioned.

Extension of Grand Trunk Railway siding on Esplanade, between Sherbourne and George Streets, in the city of Toronto.—Approved.

Berlin and Waterloo Street Railway crossings of the Grand Trunk Railway, at certain points in the towns of Berlin and Waterloo.—Approved.

Plan and site of Great Northern Railway Bridge across the St. Maurice River.

—Approved.

Tilsonburg, Lake Erie and Pacific Railway crossing of Grand Trunk Railway at Tilsonburg.—Approved.

Tilsonburg, Lake Erie and Pacific Railway Junction with Grand Trunk Railway at Tilsonburg.—Approved.

Great Northern Railway Junction with Canadian Pacific Railway Piles Branch.

—Approved.

Toronto, Hamilton and Buffalo Railway occupation of Hunter Street in the city of Hamilton from Queen to James Streets.—Approved.

Toronto, Hamilton and Buffalo Railway crossings of streets in the city of Hamilton, between McNab and Sherman, inclusive.—Approved with the exception of Hughson Street.

Toronto, Hamilton and Buffalo Railway crossing of Stoney Creek mountain road east of Village of Stoney Creek.—Over-crossing of road approved.

Montreal Street Railway temporary crossing of the Canadian Pacific Railway on St. Denis Street, Montreal.—Authorized.

Presentment of Grand Jury with reference to alleged dangerous condition of approaches to the Fenelon Road crossing of the Grand Trunk Railway near the town of Lindsay.—Partly heard.

Occupation by the Oshawa Railway of certain Streets in the town of Oshawa.—Approved.

Application from the Grand Trunk Railway Company and city of Toronto with reference to details of plans of York Street Bridge in the city of Toronto. Referred to Government Chief Engineer for report.—Inquiry postponed, at request.

Change of location of South Shore Railway Bridge across the Richelieu River, at Sorel-Approved.

Toronto, Hamilton and Buffalo Railway occupation of lands of the Hamilton, Grimsby and Beamsville Electric Railway across lots 3, 45, and 6, 3rd Concession, Township of Barton—with power to construct their line thereon, and to remove track of the Hamilton, Grimsby and Beamsville Railway.—Approved as per agreement between the parties, the terms thereof not being prejudicial to the public interests.

Toronto, Hamilton and Buffalo Railway Junction with Canada Southern Railway at Welland.—Approved.

Toronto, Hamilton and Buffalo Railway occupation of lands of the Hamilton Grimsby and Beamsville Electric Railway Company part lot 4, 3rd Concession, Township of Barton.—Approved as per agreement between the parties, the terms thereof not being prejudicial to the public interests.

Toronto, Hamilton and Buffalo Railway occupation of lands of the Grand Trunk Railway Company, part lot 12-3rd Concession, Township of Barton.—Approved as per agreement between the parties.

Toronto, Hamilton and Buffalo Railway crossings of public highways in Townships of Thorold, Pelham, Gainsboro, N. and S. Grimsby, Saltfleet and Barton.—Approved, with certain exceptions.

Township of Saltfleet complaint of inadequacy of drain under track of Toronto, Hamilton and Buffalo Railway in that township.—Government Chief Engineer to report, and Order to be made accordingly.

Renewed complaint of Mr. Emile Dubé with respect to rates charged on the Temiscouata Railway.—Hearing adjourned.

Branch line of Nakusp and Slocan Railway from Three Forks to Sandon.—Sanctioned.

Ottawa Electric Railway over-crossing of the Ottawa, Amprior and Parry Sound Railway, on lot 36, 1st Concession, Township of Nepean.—Approved.

RAILWAY AND CANAL LEGISLATION OF THE SESSION OF PARLIA-MENT.

58-59 VICTORIA, (1895).

CHAP.

Assented to 28th June and 22nd July, 1895.

- 45. An Act respecting the Alberta Railway and Coal Company.
- 46. An Act respecting the Canada Southern Railway Company.
- 47. An Act to incorporate the Dominion Atlantic Railway Company.
- 48. An Act respecting the Great North West Central Railway Company.
- 49. An Act to incorporate the International Radial Railway Company.
- 50. An Act to incorporate the James Bay Railway Company.
- 51. An Act respecting the Kingston and Pembroke Railway Company.
- 52. An Act to revive and amend the Act respecting the Lake Manitoba Railway and Canal Company.
- 53. An Act to incorporate the Langenburg and Southern Railway Company.
- 54. An Act to incorporate the Lindsay, Haliburton and Mattawa Railway Company.
- 55. An Act respecting the Manitoba and South-Eastern Railway Company.
- 56. An Act respecting the Oshawa Railway Company.
- 57. An Act respecting the Ottawa, Arnprior and Parry Sound Railway Company.
- 58. An Act to incorporate the Ottawa and Aylmer Railway and Bridge Company.
- 59. An Act respecting the Quebec, Montmorency and Charlevoix Railway Company.
- 60. An Act respecting the Red Mountain Railway Company.
- 61. An Act respecting the St. Catharines and Ningara Central Railway Company, and to change the name of the Company to the Niagara, Hamilton and Pacific Railway Company.
- 62. An Act respecting the St. Lawrence and Adirondack Railway Company.
- 63. An Act respecting the Shore Line Railway Company.
- 64. An Act respecting the South Shore Railway Company.
- 65. An Act respecting the Temiscouata Railway Company.
- 66. An Act respecting the Toronto, Hamilton and Buffalo Railway Company.
- 67. An Act to incorporate the Trail Creek and Columbia Railway Company.
- 68. An Act to incorporate the Trans-Canadian Railway Company.
- 69. An Act respecting the Windsor and Annapolis Railway Company.
- 70. An Act respecting the Buffalo and Fort Erie Bridge Company.
- 71. An Act to amend the Act incorporating the Canada and Michigan Tunnel Company, and to change the name of the Company to the Canada and Michigan Bridge and Tunnel Company.
- 72. An Act respecting the Clifton Suspension Bridge Company.
- 73. An Act to incorporate the Deschenes Bridge Company.
- 74. An Act to incorporate the St. John River Bridge Company.
- 75. An Act to amend the Act to incorporate the St. Clair and Erie Ship Canal Company.

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.
- 2. The Welland Canal.
- 3. The Sault Ste. Marie Canal.
- 4. The Richelieu navigation, from the St. Lawrence to Lake Champlain.
- 5. The River Ottawa.
- 6. The Rideau navigation, from Ottawa to Kingston.
- 7. The Trent navigation.
- 8. St. Peter's Canal, Cape Breton.

TOTAL EXPENDITURE ON CANAL WORKS AND MAINTENANCE.

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 of June, 1895:—

Lachine Canal	\$9,940,974	01
Beauharnois Canal	1,611,690	26
Soulanges Canal (under construction)	1,739,969	48
Williamsburg Canals (being enlarged)	3,786,298	59
Cornwall Canal (being enlarged)	5,505,254	22
St. Lawrence River and Canals, surveys, &c	1,139,675	77
Lake St. Louis	4,753	14
Murray Canal	1,247,470	26
Welland Canal	23,767,675	74
Sault Ste. Marie Canal	3,258,025	24
Ste. Anne Canal	1,170,215	63
Carillon and Grenville Canals	4,025,938	55
Culbute Canal.	379,494	46
Rideau Canal (including the Perth branch, or Tay	•	
Canal)	4,560,285	60
Trent Canal	1,145,803	89
St. Ours Lock	121,537	65
Chambly Canal	637,206	76
St. Peter's Canal	647,300	43
Baie Verte Canal survey	44,387	53
Total	864 689 569	68

Details as to the above will be found in Appendix No. 2, p. 2, et seq.

TOTAL EXPENDITURE AND RECEIPTS FOR THE YEAR.

The total expenditure on the several canals for the fiscal year ended on the 30th of June, 1895, was as follows:—

Construction (charged to Capital) \$2,452,273 65
Renewals, (charged to Income).......\$239,494 73
Ordinary repairs (charged to Revenue). 172,600 21
Staff (operating and collecting) do 333,680 10

745,775 04

\$3,198,048 69

The total revenue for the fiscal year was \$340,861.58, less refunds \$971.09, leaving the actual revenue \$339,890.49; compared with a total revenue for 1893-94 of \$387,421.37, less refunds \$1,882.20, leaving the actual revenue \$385,539.17. The decrease amounted to \$45,648.68. The system of granting refunds on through shipments of grain and other food products was discontinued at the beginning of 1893, the through rate being fixed at ten cents a ton by an Order in Council of the 13th of February, 1893. The refunds above referred to are detailed in App. 2, p. 19, and were for over payments, and for material carried for government works.

The falling off in revenue is mainly in the tolls on the Welland Canal, a decrease of \$35,688.79, and on the St. Lawrence Canals a decrease of \$8,722.92.

The total expenditure on staff and maintenance, repairs and renewals, amounted for the year to \$745,775.04; * the total net receipts, including \$282,107.17 from tolls, amounted to \$339,890.49; the amount of expenditure in excess of receipts being \$405,884.55.

The following statement shows the amount collected on each canal for Canal Revenue proper, and hydraulic rents, etc., during the Fiscal Year ended on the 30th of June, 1895.

Details will be found in Appendix No. 2, p. 17.

Name of Canal.	Tolls.	Wharfage and Storage.	Fines.	Other Receipts.	Hydraulic and other Rents.	Total.
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	S cts.	\$ cts.
Welland St. Lawrence Chambly Ottawa Rudeau St. Peters	33,828 19 5,833 70	2,437 93	5 00 12 00	8 65	32,621 03 100 00 36 00 829 00	161,850 2 112,606 9 21,601 6 33,884 8 7,041 7 2,072 4
Murray Trent Valley						699 9 1,103 7
Total	282,107 17	2,506 95	257 00	15,383 56	40,606 90	340,861 5
Ref	unds					971 0
					-	339,890 4

The statement of the Accountant p. 17, giving a total of \$506,280.31, does not include the sum of \$239,494.73 for renewals charged to "Income."

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Details relating to the canals revenue and various commercial statistics for the season of navigation of the year 1894, will be found in the appendix, "Canal Statistics," No. 15, p. 249.

The following features of the principal canal traffic during the season of navigation of 1894, will be found of interest:—

On the Welland Canal, 1,008,221 tons of freight were moved, of which 594,765 tons were agricultural products, and 145,929 tons produce of the forest, 758,783 tons passing eastwards and 249,438 tons westwards, 989,534 tons were through freight, of which 745,942 tons passed east through the whole length of the canal. Canadian vessels carried 263,526 tons of through freight and United States vessels 726,008 tons. The total freight passed eastwards and westwards through this canal from United States ports to United States ports was 592,267 tons, a decrease of 39,400 tons compared with the year 1893. The quantity of grain passed down this canal and the St. Lawrence Canals to Montreal was 273,651 tons, a decrease of 228,155 tons compared with the previous year; of this 23,030 tons were transhipped to Ogdensburg, as against 501,806 tons carried down in 1893, of which 71,445 tons were transhipped at Ogdensburg.

It has, however, to be noted that the year 1893 was a most exceptional year for grain traffic, and that the quantity carried in 1894 exceeds that carried in 1892.

On the St Lawrence Canals a total of 886,778 tons of freight were moved, of which 494,778 tons were east bound through freight, and 43,204 tons west bound through freight. 355,148 tons were agricultural products and 348,025 tons were merchandise.

Two small cargoes were taken down to Montreal direct.

On the River Ottawa Canals the total quantity of freight moved was 562,010 tons, of which 543,747 tons were produce of the forest.

On the Chambly Canal 277,608 tons were moved, of which 151,732 tons were produce of the forest.

On the Rideau Canal 94,479 tons were carried, of which 64,633 tons were produce of the forest.

On St. Peter's Canal 55,460 tons were carried, of which 6,269 tons were produce of the forest.

On the Murray Canal 21,888 tons were passed, of which 8,360 tons were produce of the forest.

On the Trent Valley Canal 36,271 tons were moved, of which 36,076 tons were the produce of the forest.

During the season a steamer from Christiansand, Norway, passed up through, the St. Lawrence and Welland Canals with a cargo of 509 tons of fish for Chicago returning with a cargo of flour and wheat.

RIVER ST. LAWRENCE AND LAKES.

The River St. Lawrence, with the system of canals established on its course above Montreal, and the Lakes Ontario, Erie, St. Clair, Huron and Superior, with connecting canals, afford a course of water communication extending from the Straits of Belle Isle to Port Arthur, at the head of Lake Superior, a distance of 2,260 statute miles. The distance to Duluth is 2,384 miles.

From the Straits of Belle Isle at the mouth of the St. Lawrence to Montreal is 986 miles. From Quebec to Montreal the distance Owing to the shallowness of the waters on a portion of 160 miles. the river between these two places, particularly through Lake St. Peter, vessels drawing more than from ten to twelve feet were formerly barred from passage for the greater part of the season of navigation. In 1826, the question of deepening the channel was first definitely mooted, but it was not until 1844, that any dredging operations were begun. In that year, the deepening of a new straight channel was commenced, but the scheme was abandoned in 1847. In 1851, the deepening of the present channel was begun. At that time the depth of the channel at low water was 10 feet 6 inches. By the year 1869, this depth had been increased to 20 feet, by 1882, to 25 feet, and by the close of 1888 the depth of $27\frac{1}{3}$ feet, at low water, was attained for a distance of 108 miles from Montreal to a point within tidal influence. This work is now being continued by the Government of Canada, who in 1888, under the provisions of the Act 51, Vic., ch. 5 of that year, assumed the indebtedness The channel has a minimum width of 300 feet, extending to 550 feet at points of curvature. The channel is lighted and buoyed.

Prior to the commencement of the work of deepening the new channel, the size of vessels which could reach Montreal was limited to about 350 tons, and in the year 1853, the port was visited by only three small transatlantic steamers.

During the season of 1894, out of 5,400 vessels arriving, 734 were sea-going vessels, having an aggregate tonage of 1,077,876 tons, some of them being vessels of over 5,000 tons. The impetus to commerce thus given has resulted in the undertaking of very extensive works of harbour improvement at Montreal by which the present accommodation will be greatly increased. Navigation, which is closed by ice during the winter months, opens about the end of April.

Montreal has by this work been placed at the head of ocean navigation, and here the canal systems of the River St. Lawrence begin, overcoming the various rapids by which the river channel upwards is obstructed, and giving access, through the Welland Canal, the great lakes, and the Sault Ste. Marie Canal, to the head of Lake Superior.

The difference in level between the point on the St. Lawrence near Three Rivers where tidal influence ceases, and Lake Superior, is about 600 feet.

The Dominion canals, constructed between Montreal and Lake Superior, are the Lachine, Beauharnois, Cornwall, Farran's Point, Rapide Plat, Galops, Welland and Sault Ste. Marie. Their aggregate length is 71 miles; total lockage (or height directly overcome by locks) 551 feet. The number of locks through which a vessel would pass in its passage from Montreal, at the head of ocean navigation, to the head of Lake Superior is 54.

Communication between Lakes Huron and Superior is obtained by means of the Canadian, Sault Ste. Marie Canal, and also by the St. Mary's Falls Canal, situated on the United States side of the River St. Mary. Both these canals are free of toll.

The American Canal is a little over a mile in length, with a bottom width of 100 feet, and has one lock, of which the dimensions are:—length 515 feet, width 80 feet, gate openings 60 feet wide, with 16 feet of water on the sills, and a lift of about 18 By it there is afforded a 16 feet navigation between the two lakes.*

The usual source of official information has hitherto been the annual report of the Chief of Engineers of the United States army, but the last available is that for the year 1892-93, and the season of navigation of 1893, a summary of which was given last year.

There being now, however, a regular system of interchange of traffic information between the officers of the two canals, it has become possible to give traffic statements up to the very latest date, the close of the Season of Navigation of 1895. The first statement gives the total traffic at this point, and the second the traffic through the Canadian Canal.

COMPARATIVE STATEMENT of Freight and Passenger Traffic to and from Lake Superior for the season of 1895.

Items.	Designation.	Seaso	on.	Increase	Per cent.	Decrease.	Per cent.
Vessels ("A"). N. Lockages Tonnage, registered Tonnage, freight Passengers Coal, hard Coal, soft Flour Hheat Grain (other than wheat) ("C"). Manuf'c'red & Pig Iron Salt Iron Ore Lumber Silver Ore Building Stone Unclassified, freight	do Vet tons do Vet tons do Sarrels do Vet tons Barrels Vet tons do Vet tons M. ft. B. M	1894. 14,491 6,431 13,110,366 13,195,860 27,236 532,870 2,264,314 8,965,773 34,869,483 1,545,008 60,659 237,461 99,573 6,548,876 722,788 412 21,417	1895. 17,956 7,734 16,696,781 15,062,580 31,656 440,477 2,133,885 8,902,302 46,218,250 8,328,694 100,337 269,919 107,452 8,062,209 740,700 100 23,876	3,465 1,303 3,696,415 1,866,720 4,420 11,348,767 6,783,686 39,678 32,458 7,879 1,513,333 17,912 2,459	20 28 14 16 33 65 14 08 23 02	130,499 63,471	 17 06 01
("B"),	do	431,185	463,308	12,123	03	1	

Note.

"A" Steamers...... 12,495 Sails . . 4,790 Unregistered.....

"B" Included in the item of "Unclassified Freight" is 2,250 tons of Wool and 397 tons of Hides.

Total.....17,956

Canal was open to navigation during the season of 1894, 234 days.

Canal was open to navigation during the season of 1895, 231 days.

"C" The item of "Grain (other than wheat)" in this season's report includes such East bound grain as was heretofore reported in the item of "Unclassified Freight"; therefore no percentage is given.

"D" The above comparison includes the traffic through the Canadian Canal which was opened to

commerce on September 9th and closed on December 6, 1895, completing a season of 87 days.

^{*}The enormous extent of the ever increasing traffic on the great lakes is so little realized by the general public that it has been thought well as in previous years to prepare and print as a note to this report a summary of the various official statements, showing the traffic operations at this point, and also the general features of the work of new lock construction now in progress on the American side of the river.

The following indicates the main features of the works executed, in progress, and in contemplation in connection with the scheme of canal enlargement on the through line of navigation between tide water and Lake Superior.

The general enlargement scheme comprises locks of the following dimensions:—Length, 270 feet between the gates; width, 45 feet; with a navigable depth of 14 feet of water over the sills. The Sault Ste. Marie lock, however, is 900 feet long, 60 feet wide, and with a depth of water more than equivalent to 21 feet in the new American lock.

Lachine Canal.—On the Lachine Canal the foundations of the permanent structures were put down to the full depth for vessels drawing 14 feet, but for about $6\frac{1}{2}$ miles the canal itself has yet to be lowered 2 feet to obtain this depth. The work is in progress.

STATEMENT of Traffic through the Sault Ste. Marie (Canadian) Canal for Navigation, 1895, being from date of opening, September 9th, to the date of closing, December 6th, 1895.

EAST BOUND.

Copper ore, net tons. Iron, do Iron, all other, net tons. Stone, lime, &c., net tons Wheat, bushels. Other grain, bushels. Flour, barrels. Lumber sawn, feet, b.m. Unclassified freight, net tons Passengers, No.	305 214,290 1,102 3,116 4,518,075 707,340 165,366 11,762,144 5,574 1,130
WEST BOUND.	
Coal, bituminous, net tons Coal, anthracite, do Iron, manufactured, net tons Salt, barrels. Coal oil, barrels. Unclassified freight, net tons Passengers, No East bound freight, net tons West do do	122,763 24,910 1,074 7,994 35,320 21,686 1,196 415,432 180,405
Total freight in tons	595,837
Total passengersdo registered tonnagedo vessels passed	2,326 749,626 1,191

The new American lock in progress occupies the site of the two old locks built in 1855, the intention being to afford a navigable depth of 20 feet, the present canal to be deepened to correspond with that depth. The dimensions of the new lock will be:—length, 800 feet between gates, width, 100 feet throughout, depth, 21f eet on the mitre sills, and a single lift corresponding to 18 feet. The estimated cost of the work, including the deepening of the canal, is set down at \$4,738,865. Up to the 30th June, 1893, there had been expended a total of \$1,442,567.80. The amount set down as to be expended profitably in the fiscal year, ending on the 30th of June, 1895, was \$300,000. No turther information is available.

ending on the 30th of June, 1895, was \$300,000. No turther information is available.

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, the practical limit of which was formerly to vessels drawing not more than 6 feet. 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 United States engineers, quoted, at \$2,659,115. The expenditure during the fiscal year ended the 30th of June, 1893, was \$345,357,34, making a total expenditure of \$1,455,163.43. It was stated that for the fiscal year ending on the 30th of June, 1895, the sum of \$150,000 could be profitably expended. No more recent information is available.

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Lake St. Louis.—For about four miles above the head of the Lachine Canal Lake St. Louis is obstructed by numerous shoals, consisting principally of hard material, the removal of which is necessary to form a channel suitable to the enlarged 14 feet navigation. The work of excavating a channel 300 feet wide and 16 feet deep for a distance of about 4 miles is in progress.

Soulanges Canal.—Between Lakes St. Louis and St. Francis there is a rise of about 83 feet in the river, which is at present surmounted by the Beauharnois Canal, on the south shore of the St. Lawrence. The enlarged scale canal (the Soulanges), on the north shore of the river, will be about 14 miles in length. It is in course of construction.

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 shouls to be removed.

Cornwall Canal.—The works are nearly completed.

Farran's Point Canal.—Nothing has been done towards the enlargement of the canal at Farran's Point beyond the necessary surveys and the preparation of plans.

Rapide Plat Canal.—At the Rapide Plat the works of enlargement remaining to be done are nearing completion.

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, 75 miles in length, passes the Iroquois, the Cardinal and Galops Rapids. Of these, the Iroquois and the Cardinal are very strong currents rather than rapids.

This canal is being enlarged for a distance of about 4,000 feet from the upper entrance to a point below the Galops Rapids, where a new lift-lock and other works, now completed, give access from the river. These enlargement works are nearly completed.

From the upper entrance of this canal to the Prescott reach, a distance of about three miles, the present circuitous and, in parts, shallow channel lies across what is known as "Flat Rock" shoal, and runs through American waters. The improvement and utilization of the north or Canadian channel of the river has been suggested as a part of the general scheme of enlargement, but beyond survey and the preparation of plans nothing has yet been done.

Welland Canal.—The enlargement of this canal is completed.

Sault Ste. Marie Canal.—This canal is now open for traffic. The approaches are dredged out for a depth of 17 feet of water at extreme low water, in place of a 20 feet navigation to which the lock and canal are adapted.

LACHINE CANAL.

		Old Line.		New Line.
Length of canal	81	statute miles.	8 1	statute miles.
Number of locks	5		5	
Dimensions of locks	200	feet by 45 feet.	270	feet by 45 feet.
Total rise, or lockage	45	66,	45	"
Depth of water (at two locks	16	"	18	"
Depth of water { at two locks on sills } at three locks.	9	"	14	"
Mean width of new canal			150	"

The depth of the canal between locks is at present only adapted to vessels of 12 feet draught.

The canal consists of one channel, with two distinct systems of locks, the old and the enlarged. There are two entrances at each end.

This channel extends from the city of Montreal to the town of Lachine, over-coming 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 of a navigable depth of 14 feet throughout. The improvement immediately in view, however, was only intended to furnish a navigable depth of 12 feet in the canal proper, and accordingly, on the following reaches, namely, between Lachine and Côto 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. The works for the further deepening of the canal for the 14 feet navigation are in progress.

The canal was closed on the 30th of November, 1894, and opened on the 30th of April, 1895.

The navigation of the canal was carried on through the season without interruption.

The report of the Superintending Engineer gives details of the repairs and new works executed, and shows generally the condition of the canal. (Appendices pp. 51, 58 and 133).

The expenditure on this canal during the past fiscal year was as follows:-

Renewals, chargeable to income	
Staff	

BEAUHARNOIS CANAL.

Length of canal	111	statute miles.
Number of locks	9	
Dimensions of locks	200	feet by 45 feet.
Total rise or lockage	$82\frac{1}{2}$	feet.
Depth of water on sills	9	66
Breadth of canal at bottom	80	"
Breadth of canal at water surface	120	"

This canal commences on the south side of the St. Lawrence, 15½ miles from the head of the Lachine Canal. It connects Lakes St. Louis and St. Francis, and passes the three rapids known, respectively, as the Cascades, the Cedars and the Coteau.

The canal was closed on the 30th of December, 1894, and was reopened for traffic on the 1st of May, 1895.

During the season navigation was uninterrupted.

Details of repairs, &c., will be found in the Appendices, pp. 56 and 136.

The expenditure on this canal for the past fiscal year was as follows:-

Construction, chargeable to capital	\$ Nil.
Renewals, chargeable to income	27,982 93
Repairs	12,299 49
Staff	20,428 59
Total	\$ 60,711 01

CORNWALL CANAL.

Length of canal	11	$\frac{1}{2}$ statute miles.
Number of locks	6	
Dimensions of locks	270	by 45 feet.
Total rise or lockage	4 8	feet.
Depth of water on sills	14	"
Present breadth of canal at bottom (except		
at three culverts)*	100	"
Breadth of canal at water surface	150	"

From the head of the Beauharnois to the foot of the Cornwall Canal there is a stretch through Lake St. Francis of 32\frac{3}{4} miles, which is navigable for vessels of the size at present in use.

The Cornwall Canal extends past the Long Sault Rapids.

This canal was closed on the 8th of December, 1894, and reopened on the 29th of April, 1895.

A delay of 4 days was caused during the season by the breaking of the gates of one of the locks by a passing steamer.

Details of repairs and operation will be found in the Appendices, pp. 53, 59, and 155.

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^{*} 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.

NEW WORKS.

The two locks at the new lower entrance (taking the place of three on the old line) were completed in 1882, and the remaining three are now completed.

The work of deepening and enlarging the prism of the canal is approaching completion.

It having been decided to adopt the north channel of the River St. Lawrence between Sheik's Island and the mainland as a part of the canal, the enlargement of the existing canal at this point was abandoned. The work of constructing the necessary dams across the channel was placed under contract on the 19th of June, 1893, and is now practically completed.

The estimated cost of the enlargement of this canal is \$4,000,000, of which there had been paid, up to the 1st of October, 1895, \$3,522,571.

The work of the year is described in detail in the appendices to the present report. (See page 159.)

 The expenditure on this canal for the past fiscal year was as follows:—

 Construction, chargeable to capital
 \$450,689 65

 Renewals, chargeable to income
 21,497 74

 Repairs
 13,053 55

 Staff and maintenance
 15,414 56

 Total
 \$500,655 31

WILLIAMSBURG CANALS.

The Farran's Point, Rapide Plat, and Galops Canals are collectively known as the Williamsburg Canals.

The canals were closed on the 10th of December, 1894, and reopened on the 23rd of April, 1895.

No accidents occurred, and navigation is stated to have been maintained in a satisfactory manner.

The expenditure on these canals during the past fiscal year was as follows:-

Construction, chargeable to capital	\$347,357	23
Renewals, chargeable to income	13,720	36
Repairs	7,371	37
Staff and maintenance	9,675	09
Total	\$378,124	 05

For details of work see the Appendices, pages 53, 54, 156 and 162.

FARRAN'S POINT CANAL.

Length of canal	34	mile.	•
Number of locks	1		
Dimensions of lock	200 1	eet by	45 feet.
Total rise, or lockage	4	feet.	
Depth of water on sills at ordinary water level	9	"	
Breadth of canal at bottom	5 0	66	
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 rapids with ease and safety.

The enlargement of this canal has not been commenced, but surveys have been made and plans prepared. (See Appendices, pages 53 and 162.

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,	9 "
Breadth of canal at bottom	50 "
Breadth of canal at surface of water	90 "

From the head of Farran's Point Canal to the foot of Rapide Plat Canal there is a navigable stretch of $10\frac{1}{2}$ miles. This canal was formed to enable vessels ascending the river to pass the rapids at that place. Descending vessels run the rapids safely.

NEW WORKS.

The enlargement works of the Rapide Plat Canal consist of the enlargement of the channel way above, and for some distance below, the present guard-lock at the head of the canal, and the construction of a new guard-lock and a supply weir in connection with the old lock. The bottom of the channel, for a distance of about 1,000 feet below, and out into deep water, above the lock, about 700 feet, has been excavated to an extent sufficient to afford a navigable depth of 14 feet. The new lock was completed in 1888, and is in operation; the other works in that connection are also finished. Contracts for the enlargement of the remaining portion of the canal, including the lock at the lower outlet, were entered into in the month of January, 1891. The works are in progress. The estimated cost of enlargement is \$1,600,000, of which, up to the 1st of October, 1895, there has been paid, \$1,298,789. (See Appendices, pages 53, 156 and 162.)

GALOPS CANAL.

Length of canal	7 §	miles.
Number of locks	3	
Dimensions of locks	200 f	eet by 45 feet.
Total rise, or lockage	15 1	feet.
Depth of water on sills	9	"
Breadth of canal at bottom	50	•6
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, Point Cardinal and the Galops.

NEW WORKS.

The works for the widening and deepening of the upper entrance, and for the construction of a lift-lock from the river below the Galops Rapids, about 4,000 feet from the upper entrance, together with a guard-lock and supply weir to the canal adjacent to that point were placed under contract in November, 1888. Both locks are completed, and the water was admitted to them in October, 1894. The balance of the work is in progress. Out of the estimated cost of this enlargement, \$1,500,000, there had been paid up to the 1st of October, 1895, the sum of \$1,302,424.

It is proposed that, by the use of this new lift-lock, vessels qualified to stem the currents 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.

No steps have, therefore, 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 certain shoals in 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 work was believed by the superintending engineer to be completed in 1888, and was so reported by him.

On further examination, however, it was found that, at certain points, the depth is less than 17 feet, and under these circumstances, a very close examination and survey with a vessel specially fitted with appliances for testing the depth under the difficult conditions of the case has been made under the supervision of Mr. Kennedy, the Chief Engineer to the Montreal Harbour Commissioners, as an independent authority. Mr. Kennedy's report shows that there are obstructions in the channel by which the navigable depth of water, at certain places, is reduced considerably below that required for vessels of the draught contemplated.

The contractors have been settled with under a judgment of the Court of Exchequer in their favour.

Since the formation of the new channel it has been navigated by propellers and other vessels drawing over 9 feet of water, but in view of the results of Mr. Kennedy's examination it cannot be regarded, at present, as safe. The buoys by which the channel was indicated were not placed in position during the past season and it has not been used.

To fully carry out the design, some work will be necessary in order to obviate certain cross currents, the action of which requires to be ascertained by actual experience of the channel.

During the season of 1892, a location survey was completed of what is known as the "north channel," from the head of the Galops Canal to the head of Spencer's Island, a channel which, if improved, would afford a course shorter by $\frac{2}{3}$ of a mile than the southern channel in American waters now in use. (See Appendices, pages 54, 153, 161 and 164.)

MURRAY CANAL.

Length between eastern and western pier heads	5 1	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 Canal, 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'ille Harbour has a width varying from 1,000 feet outside the main light to 200 feet at the entrance of the channel. The maximum depth at the entrance is 16 feet at low water.

The canal was closed on the 15th of December, 1894, and reopened on the 19th of April, 1895.

Navigation was maintained without interruption. The canal was used to the extent of 673 passages of vessels. (Appendices, pages 59 and 157.)

The expenditure on the canal, during the past fiscal year, was as follows:-

Construction, chargeable to capital	Nil.	
Renewals, chargeable to income	Nil.	
Repairs	5,063 49	1
Staff and maintenance	5,354 97	
Total	\$ 10.418 46	

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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.	$\frac{263}{2}$ miles.
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	26 1	lift 25
Dimensions	1 lock 200 x 45 1 " 200 x 45 1 (tidal) 230 x 45 24 locks 150 x 45	270 feet x 45 feet.
Total rise, or lockage. Depth of water on sills.	3263 feet. 104 feet.	326 ³ / ₄ feet.

WELLAND RIVER BRANCHES.

Length of canal—	Port Robinson Cut to River		
	Welland	2,622 f	eet.
"	From the canal at Welland,		
	to the river, via lock at		
	aqueduct	30 0	"
"	Chippawa Cut to River Nia-		
	gara	1,020	"
Number of locks-	one at aqueduct and one at		
Port Robinso	n	2	
Dimension of locks		150 by 2	6 1 feet.
Total lockage from the	e canal at Welland down to	•	_
River Welland		10 feet	•
Depth of water on sill	8	9 "	10 inches.

GRAND RIVER FREDER.

Length of canal	21 miles.
Number of locks	2
Dimensions of locks	$\begin{cases} 1 \text{ of } 150 \text{ by } 26\frac{1}{2} \text{ feet.} \\ 1 \text{ of } 200 \text{ by } 45 \end{cases}$
Total rise or lockage	7 to 8 feet.
Depth of water on sills	9 feet.

PORT MAITLAND BRANCH.

Length of canal	13 miles.
Number of locks	
Dimensions of locks	
Total rise or lockage	71 feet.
Depth of water on sills	11 "
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The Welland Canal has two entrances from Lake Ontario, at Port Dalhousie, one for the old, the other for the new canal.

From Port Dalhousie to Allanburgh, 11\frac{3}{4} miles, there are two distinct lines of canal in operation, the old line and the enlarged or new line.

From Allanburgh to Port Colborne, a distance of 15 miles, there is only one channel, the old canal having been enlarged.

The canal was opened in 1883 for vessels drawing 12 feet of water, and in May, 1887, for vessels drawing 14 feet.

Navigation closed on the 11th of December, 1894, and reopened on the 20th of April, 1895.

On the 9th of May, 1895, a delay of $4\frac{1}{2}$ days was caused by the carrying away of certain lock gates by a passing steamer.

The staff of the canal was considerably reduced at the opening of navigation in 1894 and placed on a sound working basis. The operating of this canal is reported by the chief engineer to have been satisfactorily conducted with the staff as so reduced.

Tables will be found on page 177 showing the highest and lowest depth of water of the new entrance locks at Port Dalhousie and at Port Colborne for each month throughout the past fiscal year.

Details as to repairs executed will be found in the appendices. (See Appendices, p. 60 and p. 166.)

The expenditure on this canal during the past fiscal year was as follows:-

Construction, chargeable to capital\$	3,809	35
Renewals, chargeable to income	24,245	02
Repairs	48,270	94
Staff and maintenance	90,438	07
Total \$	166,763	38

From the head of the Welland Canal there is a deep water navigation through Lake Erie, the Detroit River, Lake St. Clair, the St. Clair, River, Lake Huron and River St. Mary to within a short distance of the Sault Canal, a distance of about 394 miles. From the Sault the distance through Lake Superior to Port Arthur is 266 miles, and to Duluth 390 miles.

SAULT STE. MARIE CANAL.

Length of canal, between the extreme ends	
of the entrance piers	5,967 feet.
Numbers of locks	
Dimensions of lock	900 feet by 60 feet.
Depth of water on sills	
Total rise or lockage	18 feet.
Breadth of canal at bottom	
Breadth at surface of water	

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This canal has been constructed through St. Mary's Island, on the north side of the rapids of the River St. Mary, and, with that river, gives communication on Canadian territory between Lakes Huron and Superior.

At ordinary stages of the river water there is a difference of 18 feet in the levels of the water above and below this island. The length of the canal across the island is 3,500 feet. In addition, approaches have been formed at both entrances. The total length of this canal together with its excavated channels of approach is about 18,100 feet.

For contract purposes, the work was divided into three sections, and contracts were entered into as follows:—For the lower entrance, on the 30th of January, 1889; for the upper entrance, on the 26th March 1889, and for the canal and liftlock on the 20th of November, 1888.

The scheme, as covered by these contracts, contemplated a lock chamber 600 feet long and 85 feet wide, with a depth of water on the sills of 16½ feet at the lowest known water level; the width of the gate entrances to the lock to be 60 feet. This lock was designed to pass two vessels at one lockage. The prism of the canal was to be 18 feet below the lowest known water level of the river above St. Mary's Island.

Representations were, however, made by parties concerned in the navigation of this work, urging that the above dimensions should be increased, and under authority of Orders in Council of 21st of May and 3rd of July, 1891, a supplemental agreement was entered into with the contractors for the canal and lock, Messrs. Hugh Ryan & Co., on the 19th of June, 1891, whereby the following dimensions were to be adopted:—Length of lock chamber, 650 feet, width 100 feet, depth of water on the sills 19 feet, the time for completion being extended from the 10th of May, 1892, to the 10th of May, 1893.

In the session of 1891, however, a discussion took place in Parliament as to the desirability of making the entrance of the lock in a straight line with the walls of the chamber, and on the 24th of December, 1891, and 1st of April, 1892, Orders in Council were passed authorizing further changes with this view. A second supplemental agreement was accordingly made with the contractors on the 5th of April, 1892, the dimensions of the lock to be as follows:—Length of chamber 900 feet, width 60 feet, throughout, with a depth of 20 feet 3 inches of water on the sills at the lowest recorded stage of the water in the river below the lock, the date for completion being fixed as the 31st of December, 1894.

Later on it became desirable that the work should be completed at an earlier date, and under authority of an Order in Council of the 10th of October, 1892, a further agreement was made with the contractors, on the 8th of November, 1892, for the execution, by the 1st July, 1894, of all the works under their contract, including the deepening of the canal prism to a further depth of 4 feet, making it 22 feet below the lowest known river level.

By the scheme, as so modified, accommodation is afforded to three vessels lying in the lock one behind the other, one of the lake type, 320 feet long, and two of the Welland Canal type, 225 feet long, with ready means of entrance and exit on a course through the gates and lock straight with the line of the canal.

The lock and the prism of the canal were completed and ready for traffic by the end of June, 1895, but it was not until the 9th of September that the channels of approach had been sufficiently cleared to admit of regular traffic. On that day, however, the canal was opened and has since been regularly operated up to the 6th of December, though the approaches still contain some obstructions, presumed to be boulders, at a depth of 17 feet. This, however, in no way affects the full use of the canal by the largest class of lake shipping, traffic being dependent on the available depth of the river below, the navigable limit of which is at present governed by certain shoals in the American channel, and at Sailor's Encampment, reducing the depth to 16 feet at mean water level. These are in process of removal.

The expenditure on this canal during the past fiscal year amounted to \$466,-151.50, making the total expenditure up to the 30th of June, 1895, \$3,258,025.24.

Details of the works will be found in the appendices. (See Appendices, pages 49* and 129.)

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 245% miles.

After leaving the Lachine Canal the works constructed to overcome difficulties of navigation are:—

The Ste. Anne's Lock
Carillon Canal
Grenville Canal
Rideau Canal

The total lockage (not including that of the Lachine Canal) is 509 feet—(345 rise, 164 fall)—and the number of locks is 55.

The following table exhibits the intermediate distance from Montreal harbour:

Sections of Navigation.	Intermediate Distances.	Total Distances from Montreal.
The Lachine Canal. From Lachine to Ste. Anne's Lock Ste. Anne's Lock and piers. From Ste. Anne's Lock to Carillon Canal The Carillon Canal From Carillon Canal to Grenville Canal The Grenville Canal From the Grenville Canal to entrance of Rideau navigation Rideau navigation, ending at Kingston	Miles. $ \begin{array}{c} 8\frac{1}{2} \\ 15 \\ 27 \\ 6\frac{1}{4} \\ 56 \\ 126\frac{1}{4} \end{array} $	Miles. 231 235 506 513 576 633 1193 2456

^{*}The amount set down on page 49 as the total paid up to the 30th June, 1895 should be \$3,258,025.24, as above.

STE. ANNE'S LOCK.

	Old Lock.	New Lock.
Length of canal	⅓ 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 sill	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 River Ottawa which forms the Lake of Two Mountains, 23½ miles from Montreal harbour.

This lock was closed to navigation on the 25th of November, 1894, and reopened on the 27th of April, 1895.

Navigation has been conducted without interruption during the year.

Both the old and the new locks are available. (See Appendices pp. 57 and 138.)

The expenditure on this canal during the past fiscal year was as follows:-

Construction, chargeable to capital	\$ Nil.
Renewals, chargeable to income	3,694 33
Repairs	3,025 91
Staff and maintenance	2,508 14
Total	\$ 9,228 38

THE CARILLON CANAL.

Length of canal	j	🖁 mile.
Number of locks	2	
Dimensions of locks	200	by 45 feet.
Total rise, or lockage	16	feet.
Depth of water on sills		
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 30th of November, 1894, and reopened on the 29th of April, 1895.

By the construction of the Carillon dam across the River Ottawa the water at that point is raised 9 feet, enabling the river above to be used for navigation. (See Appendices pp. 58 and 138.)

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.

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GRENVILLE CANAL.

Length of canal	5¾ miles.
Number of locks.	5
Dimensions of locks	200 by 45 feet.
Total rise, or lockage	43¾ feet.
Depth of water on sills	9 "
Breadth of canal at bottom	40 to 50 feet.
Breadth of canal at surface of water	50 to 80 "

This canal, by which the Long Sault Rapids are avoided, is about 56 miles below the city of Ottawa.

The canal was closed on the 30th of November, 1894, and reopened on the 29th of April, 1895. (See Appendices pp. 58 and 138.)

The expenditure on these two canals, the Carillon and the Grenville, during the past fiscal year was as follows:—

Construction, chargeable to capital	\$	Nil	
Renewals, chargeable to income	5,	963	76
Repairs	12,	303	25
Staff and maintenance			
Total	\$ 33,	720	22

Tables showing the depth of water at the above canals during the past fiscal year will be found in Appendices pp. 58 and 138.

UPPER OTTAWA RIVER.

CULBUTE LOCKS AND DAMS.

Number of locks	2			
Dimensions of locks	200	by	4 5	feet.
Total rise, or lockage	18	to	20	"
Depth of water on sills				"
Aggregate length of dams				"

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 Des Chênes, 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 contiguous dams, all built of wood. The dams at Rocher Fendu and Grand Calumet, 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.

The anticipated benefits to trade from the construction of these works have not been realized, there being practically no traffic. Authority was accordingly obtained for the abandonment of this canal and the removal of the dams. At the close of navigation in 1894, this abandonment was carried into effect. The Grand Calumet dam has been partially removed.

The expenditure on this canal during the fiscal year was as follows:-

Construction, chargeable to capital	Nil.	
Removal of dam works, chargeable to income	\$1,675	26
Repairs	434	28
Staff and maintenance	436	05
Total	\$2,345	5 9

(See Appendices pp. 58 and 138.)

RIDEAU NAVIGATION.

The Rideau system connects the River Ottawa, at the city of Ottawa, with the eastern end of Lake Ontario, at Kingston.

Length of navigation waters		1261	mil	08.
Number of locks going from Otta	wa to Kingston.	{ 35 { 14	asc des	ending. cending.
Total lockage446 $\frac{1}{4}$ feet $\left\{ -\frac{1}{4} \right\}$	2821 rise and 164 fall.	at h	igh	water.
Dimensions of locks	********	134	by 3	3 feet.
Depth of water on sills, 5 feet;			•	
through the several reaches.		$4\frac{1}{2}$	feet	
Breadth of canal reaches at botte	0m	∫ 60 ⁻	"	in earth.
Dieacti of Canal Teaches at Dotte	UIII	54	"	in rock.
Breadth at surface of water	********	80	"	in earth.

Perth Branch.

Length of canal		mile	8.
		C 4	h 00 f4
Dimensions of locks			by 32 100t.
Total rise or lockage			
Depth of water on sills			6 inches.
Length of dam			
Breadth of canal at bottom			
Breadth of canal at surface of water	40	"	in rock.
	60	"	i n 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 the Rideau system is at upper Lake Rideau, but several of the descending reaches are also supplied by waters which have been made tributary to them. The following description gives the sources of supply:—

From the summit, the route towards Ottawa follows the Rideau River, and that towards Kingston follows the River Cataraqui. The supply of water for the canal is derived from the reserves given in detail below.

These may be divided into three systems, viz:-

1. The summit level, supplied by the Wolfe Lake system. 2. The eastern descending level to Ottawa, supplied by the River Tay system, discharging into Lake Rideau. 3. The south-west descending level to Kingston, supplied by the Mud Lake system, formerly known as the Devil Lake system, discharging into Lake Openicon.

Lake Openicon receives the waters of Buck Lake and Rock Lake.

All these waters on the descending level, supplemented by those of Lake Loughboro', flow into Cranberry Lake, which, discharging through Round Tail outlet, forms the River Cataraqui. The river, rendered navigable by dams at various points, affords a line of navigation to Kingston.

The navigation stopped at Ottawa on the 26th of November, 1894, and at Kingston Mills, on the 19th, and recommenced at Ottawa on the 27th of April, 1895, and at Kingston Mills on the 30th of April.

Navigation on the Perth Branch was closed for 21 days owing to damages caused to lock gates by a passing steamer.

Extremely low water rendered navigation difficult at certain periods of the season.

Details of repairs and other works will be found in the appendices. (Pages 59 and 150.)

The expenditure on this canal for the past fiscal year was as follows:-

Construction, chargeable to capital	\$ Nil.	
Renewals, chargeable to income	31,559	4 8
Repairs	19,897	32
Staff and maintenance	33,827	80
Total	\$85,283	88

RICHELIEU AND LAKE CHAMPLAIN.

This system, commencing at Sorel, at the confluence of the River St. Lawrence and Richelieu, 46 miles below Montreal, extends along the River Richelieu, through the St. Ours Lock to the basin of Chambly, thence by the Chambly Canal to St. John's and the River Richelieu and Lake Champlain. The distance from Sorel to the boundary line is 81 miles.

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At Whitehall, the southern end of Lake Champlain Canal is entered, and connection is obtained with the River Hudson, by which the city of New York is directly reached. From the boundary line to New York, the distance is 330 miles.

The following table shows the distance between Sorel and New York:-

Section 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	$egin{array}{c c} 23 \\ 111 \\ 66 \\ 7 \\ \hline \end{array}$	14 46 58 81 192 258 265 411

ST. OURS LOCK AND DAM.

Length	1	mile.
Number of locks	1	
Dimensions of lock	200	feet by 45 feet.
Total rise, or lockage	5	"
Depth of water on sills	7	" at low water.
Length of dam in eastern channel	300	"
" western channel	690	"

At St. Ours, 14 miles from Sorel, the River Richelieu is divided by a small island into two channels. The St. Ours Lock is in the eastern channel.

There is a navigable depth in the Richelieu of 7 feet between St. Ours Lock and Chambly Basin, a distance of 32 miles.

Navigation closed on the 26th of November, 1894, and reopened on the 15th of April, 1895.

Navigation was conducted without accident or delay. (See Appendices, pages 57 and 139.)

The expenditure on this work during the past fiscal year was as follows:-

Construction, chargeable to capital	Ni	il.
Renewals, chargeable to income	3,694	33
Repairs,	3,025	91
Staff and maintenance	2,508	14
Total	\$9,228	38

CHAMBLY CANAL.

	•	of canal of locks		8.	
Din	ensions	of locks:	_		
	Guard I	Lock, No.	1, at St. Johns	122 fee	ot)
	Lift	"	2	124 "	From 22½ to
	"	"	3, 4, 5, 6	118 "	24 feet wide.
	"	"	7, 8, 9 combined	125 "	J
	Total ri	se, or loc	kage	74 "	•
	Depth o	f water o	on sills	7 "	
	Breadth	of canal	at bottom	36"	
	"	"	surface of water	60 "	

This canal succeeds the 32 miles of navigable water between St. Ours Lock and Chambly Basin. The canal overcomes the rapids between Chambly and St. Johns.

The canal was closed to navigation on the 30th of November, 1894, and was reopened on the 1st of May, 1895.

Navigation was interrupted for 14 hours, owing to the giving way of a lock gate.

A description of the several works of repair and improvement executed during the year will be found in the appendices. (See Appendices, pages 57 and 139.)

The expenditure on this canal during the past fiscal year was as follows:-

Construction, chargeable to capital	8 Nil	
Renewals, chargeable to income	6,147	63
Repairs	11,779	12
Staff and maintenance	19,325	49
Total	\$ 37,252	24

TRENT CANAL.

The term "Trent Canal" is applied to a series of water stretches, which do not, however, form a connected system of navigation, and which, in their present condition, are efficient only for local use. By various works, this local use has been extended, &c., and by others now in progress and contemplation, this will become a through route between Lake Ontario and Lake Huron.

The series is composed of a chain of lakes and rivers, extending from Trenton, at the mouth of the River Trent, on the Bay of Quinté, Lake Ontario, to Lake Huron.

Many years ago the utilizing of these waters for the purpose of through water communication between Lake Huron and Lake Ontario was projected.

The course as originally contemplated and modified is as follows:-

Through the River Trent, Rice Lake, the River Otonabee and Lakes Clear, Stoney, Lovesick, Deer, Buckhorn, Chemong, Pigeon, Sturgeon and Cameron to Lake

Balsam, the summit water, about 165 miles from Trenton; from Lake Balsam by a canal and the River Talbot to Lake Simcoe; thence by the River Severn to Georgian Bay, Lake Huron, the total distance being about 235 miles.

The full execution of this scheme, commenced in 1837, was deferred. By certain works, however, below specified, sections of these waters have been made practicable for navigation and the whole scheme is now being carried out. A branch of the main route, extending from Sturgeon Lake south, affords communication with the town of Lindsay, and through Lake Scugog, to Port Perry, a distance of 190 miles from Trenton.

The following table gives the distance of navigable and unnavigable reaches:-

Naviga Miles		Innavigable Miles.
From Trenton, Bay of Quinté, to Nine Mile Rapids		9
" Nine Mile Rapids to Percy Landing 1	91	
" Percy Landing to Heeley's Fall Dam		$14\frac{1}{4}$
" Heeley's Fall Dam to Peterborough 5	13	
" Peterboro' to Lakefield	_	9 1
" Lakefield to a point across Balsam Lake 6	31	
·	1321	$32\frac{3}{4}$
Total distance, Bay of Quints to a point across		
Balsam Lake From Sturgeon Point on Sturgeon Lake, 483 miles from Lakefield, the branch through the town	• • • • • •	. 165
of Lindsay to Port Perry at the head of Lake		
Seugog	• • • • • •	$\frac{27\frac{1}{2}}{2}$

The works by which the Trent navigation has been improved comprise canals, with locks and bridges, at Burleigh Rapids, Buckhorn Rapids and Fenelon Falls; also dams at Lakefield and Young's Point. By these works there is afforded communication between Lakefield, $9\frac{1}{2}$ miles from Peterborough, and Balsam Lake, the headwaters of the system; opening up a total of about 160 miles of direct and lateral navigation.

At Lakefield, 9½ miles from Peterboro', the dam, at the head of the Nine Mile Rapids of the River Otonabee, maintains navigation on Lake Katchiwannoe up to Young's Point.

At Young's Point, 5 miles from Lakefield, the dam between Lake Katchiwannoe and Clear Lake controls the water level through Clear and Stoney Lakes up to the foot of the Burleigh Canal. The lock here, it should be observed, is controlled by the Provincial Government.

At Burleigh Rapids, 10 miles from Young's Point, a canal about 2½ miles in length, passes the Burleigh and Lovesick Rapids, and gives communication between Stony Lake and Deer Bay.

At Buckhorn Rapids, 7 miles from Burleigh Rapids, there is a canal about one fourth of a mile long.

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At Bobcaygeon, 15\(^2\) miles from Buckhorn Rapids, a dam, 553 feet long, controls the water level up to Fenelon Falls.

At Fenelon Falls, 15 miles from Bobcaygeon, a canal about one third of a mile in length connects Sturgeon Lake with Cameron Lake.

The following is a list of the locks, with their dimensions:-

1 lock at Rosedale, (maintained by the Ontario Government).....100' \times 30' \times 4' 6" to 6' 6" depth water on mitre sill.

2 lo	cks at	: Fenelon134	$' \times 33'$	x 5′ 0″ to	7' 6"	depth water on	mitre sill.
1	do	Lindsay	do	5' 0" to	7' 0"	do	do
1	do	Bobcaygeon	do	5′ 8″ to	7' 6"	do	do
1	do	Buckhorn	do	5' 0" to	9' 0"	do	do
1	do	Lovesick	do	5' 0" to	9′ 4″	do	do
2	do	Burleigh	do	2' 4" to	7' 0"	do	do
1	do	Young's Point (a	Provi	ncial Gove	ernme	nt work.) 134' 2	x 33" x 5' 0"
	. 1	to 14' 0" depth wate	er on m	itre sill.		·	
1	ďő	Peterborough.13	¥ x 33"	x 5′ 0′′ to	10' 0"	depth water on	mitre sill.
1	do	Hastings	do	7' 0" to 3	10′ 6″	do	do
1	do	Chisholms	do	5' 0" to	8′ 6″	do	do
13							

NEW WORKS.

Of the $9\frac{1}{2}$ miles between Lakefield and Peterborough, the first section, 6 miles, is under contract and in progress. The balance is surveyed and the plans are prepared.

On the division between Lake Balsam and Lake Simcoe the first section, $5\frac{1}{2}$ miles, is under contract and work is progressing. Surveys and plans of the balance, about $13\frac{1}{2}$ miles, are being prepared. One feature of the work on this division will be a hydraulic lift lock with a lift of 50 feet.

Navigation closed on the Central Reach, on the 23rd of November, 1894, and reopened on the 26th of April, 1895; on the LowerlReach it closed on the 24th of November 1894 and re-opened on the 21st of April, 1895.

There was no interruption to navigation.

Details of the several repairs executed will be found in the appendices, pages 58 and 145.

The expenditure on this canal system during the past fiscal year was as follows:

Construction, chargeable to capital	\$ 53,907.70
Renewals, chargeable to income	21,143.41
Repairs	3,374.49
Staff and maintenance	
Total	\$82 609 78

ST. PETER'S CANAL, CAPE BRETON.

Length of canal	\mathbf{A} bo	ut :	2,400 feet.
Breadth at water line	55 f	eet.	
Loek	One	tid	al lock, 4 pairs of gates.
Dimensions	200	feet	by 48 feet.
Depth of water on sills			
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 15th of December, 1894; since that date the canal has been closed for the execution of important repairs.

The repairs and improvements carried out are described in the appendices. (See Appendices, pages 61 and 179.)

The expenditure on this canal during the past fiscal year was as follows:-

Construction, chargeable to capital*	\$ 868	44
Renewals, chargeable to income	26,222	46
Repairs	353	55
Staff	2,499	81
Total	\$29,944	26

SOULANGES CANAL.

This work is being constructed on the north side of the River St. Lawrence in place of enlarging the Beauharnois Canal on the south side. It follows a line extending upwards from Cascades Point to Macdonald's Point, near Coteau Landing. The scheme contemplates a canal on a practically straight line, 14 miles long, comprising four lift-locks, overcoming a total rise of 82½ feet. The number of locks on the Beauharnois Canal, including the guard-locks, is nine. The dimensions of the Soulanges locks will be those of the enlarged system, namely, length, 270 feet, width, 45 feet, depth of water on sills, 14 feet. The estimated cost of the canal is \$4,750,000. The works of construction of the canal proper, and bridge and lock masonry have been placed under contract, and are in progress. The chief engineer tates that it will probably take at least three years before this canal is completed.

 $^{^*}$ Due to legal expenses charged against this canal under the general appropriation vote for departmental litigation.

Further information will be found in the report of the chief engineer, and in that of the engineer in charge. (See Appendices pages 49 and 130.)

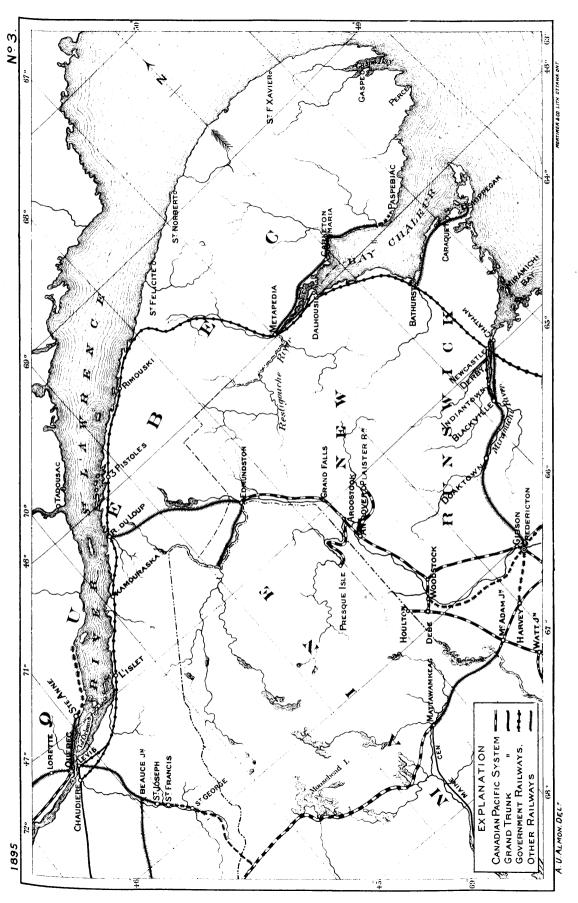
The expenditure on this work for the past fiscal year was, \$752,016.53, making a total of \$1,739,969.48 up to the 30th of June, 1895. The total expenditure up to the 1st of October is \$1,899,535.16.

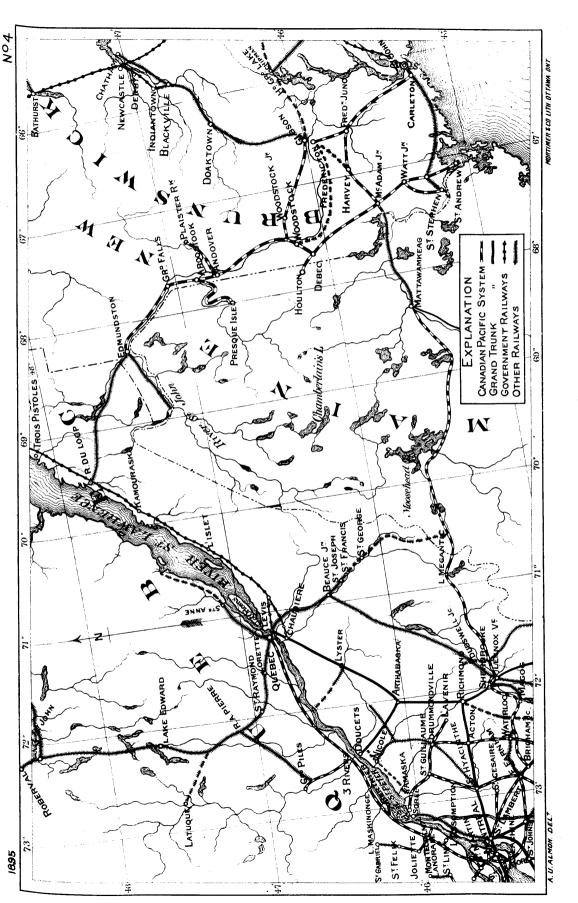
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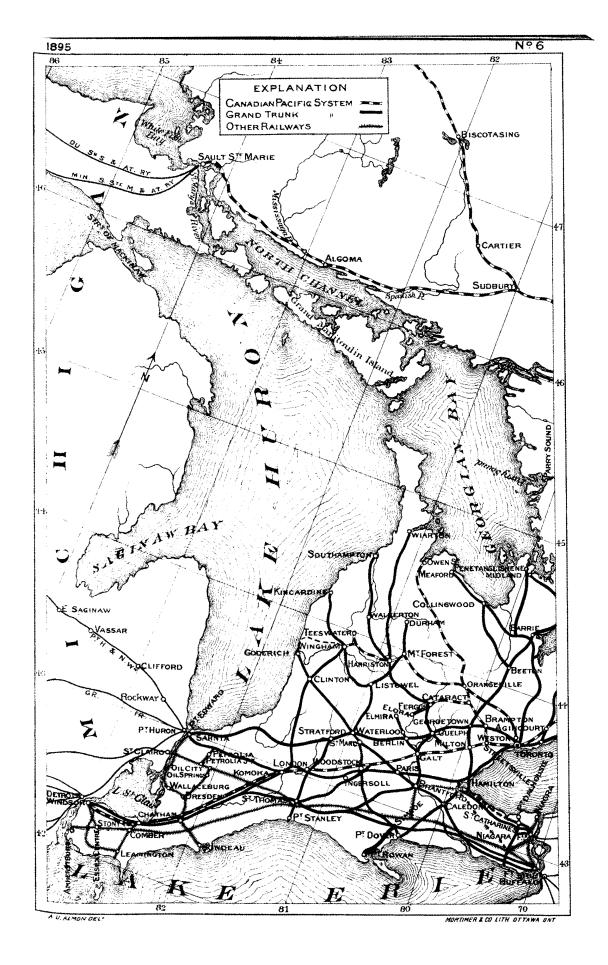
Your Excellency's most obedient servant,

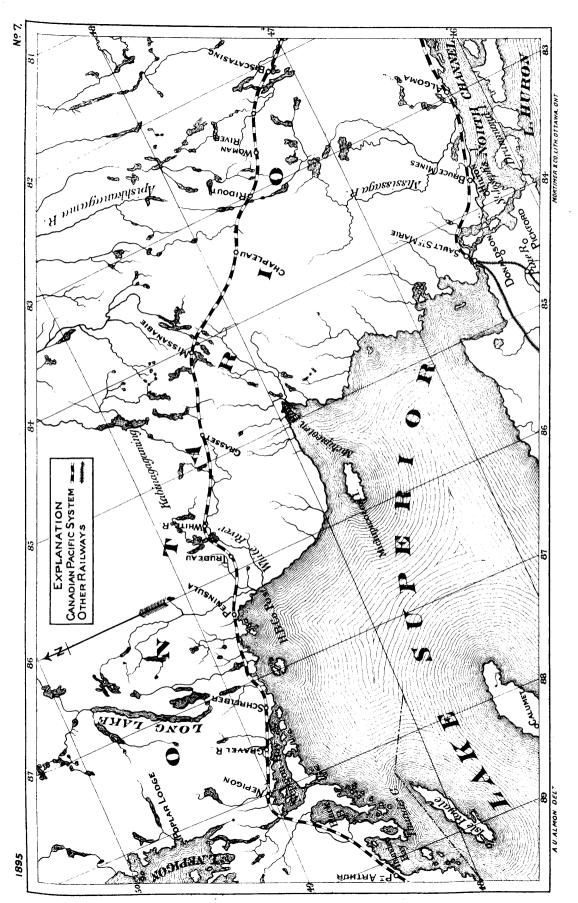
JOHN HAGGART,

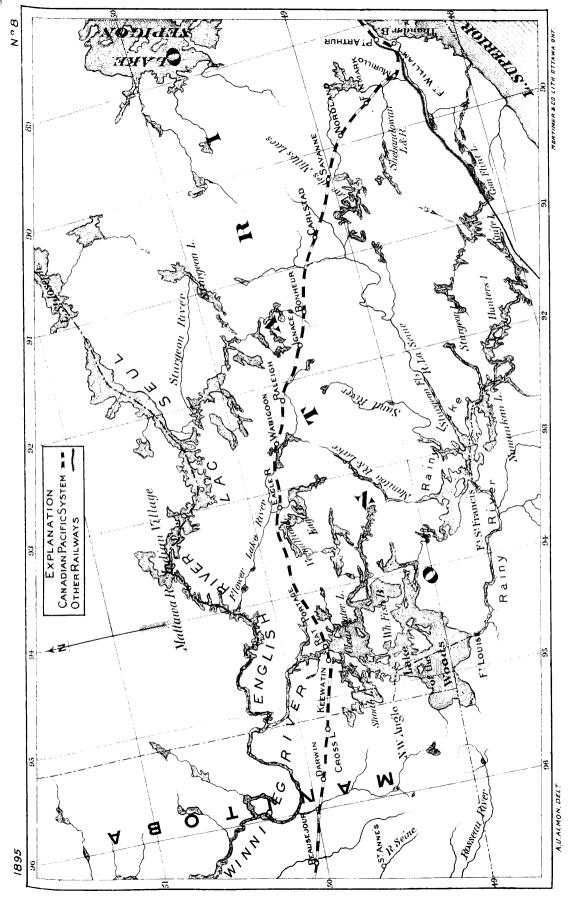
Minister of Railways and Canals.

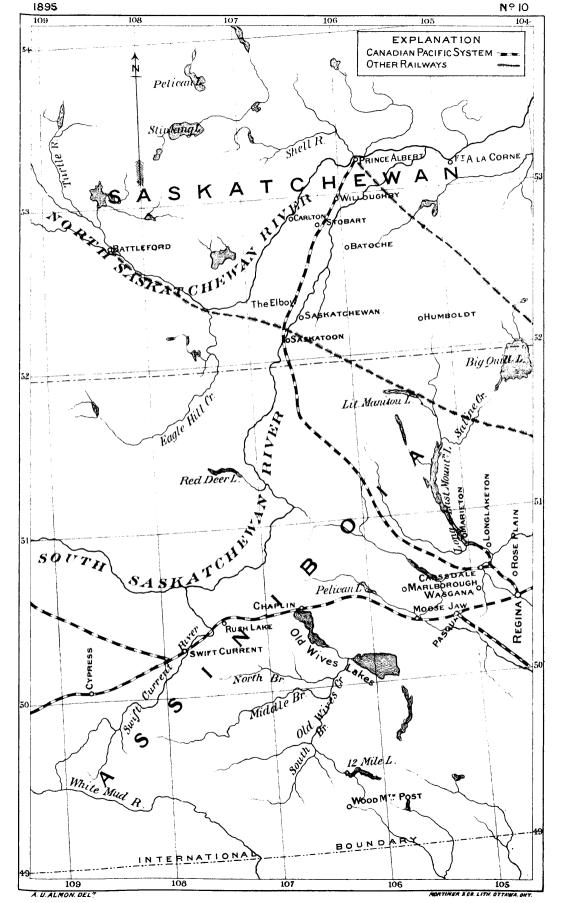


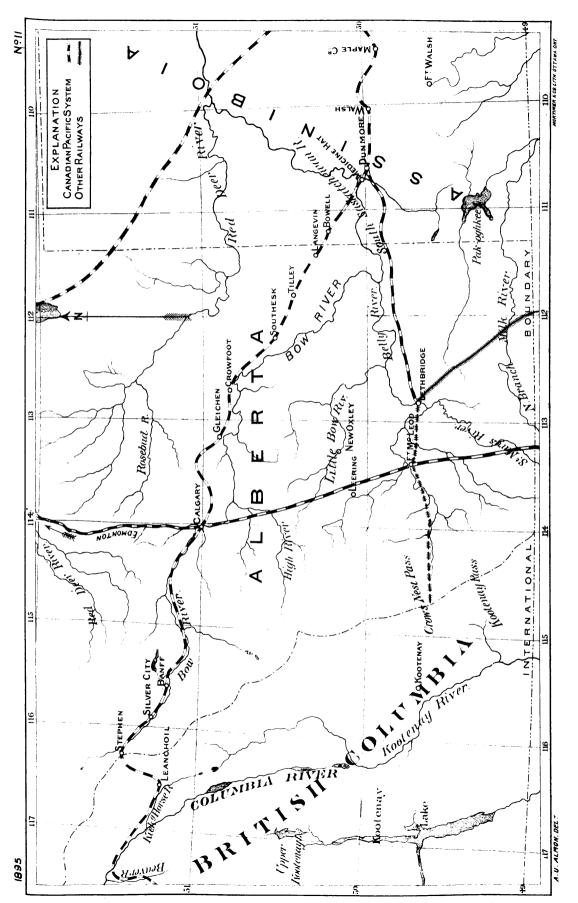


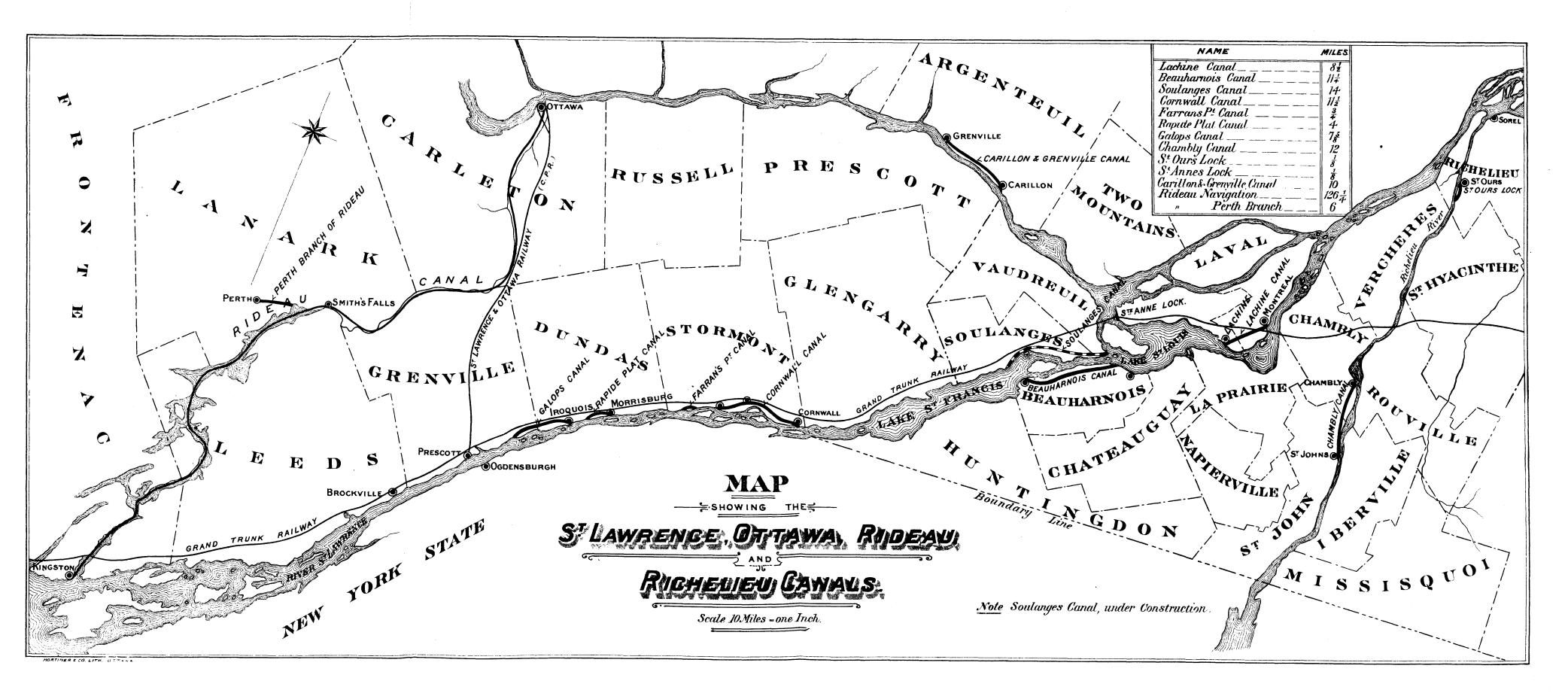


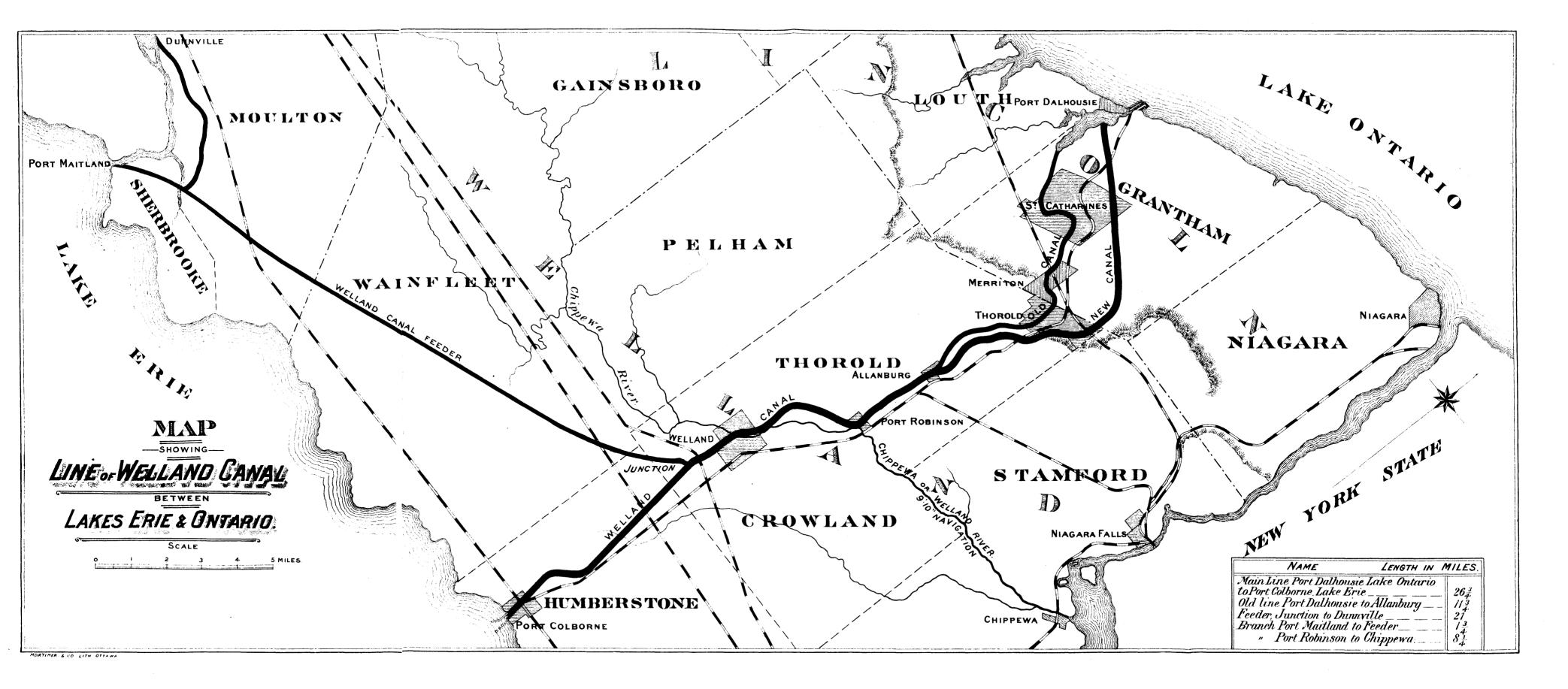


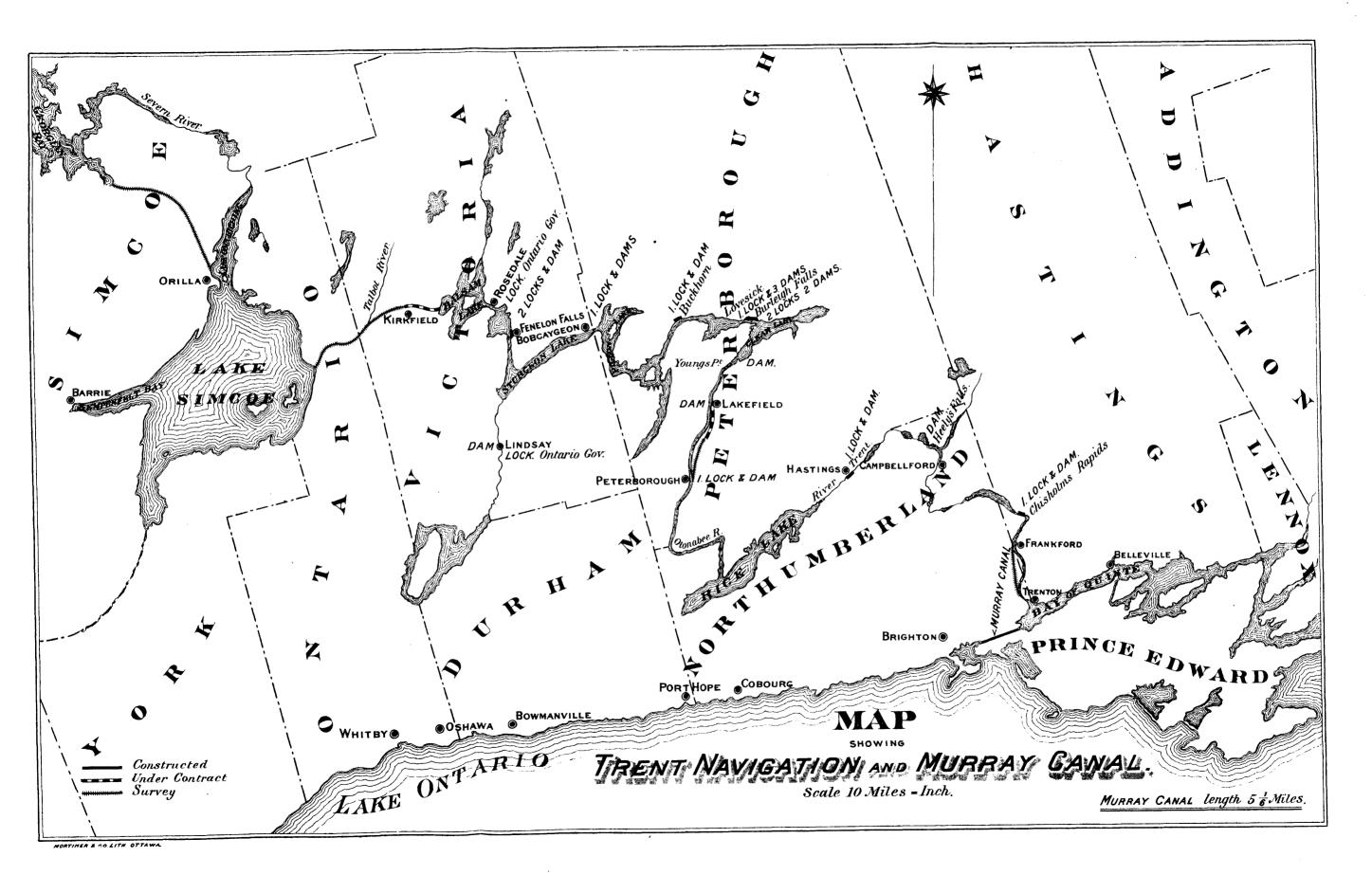


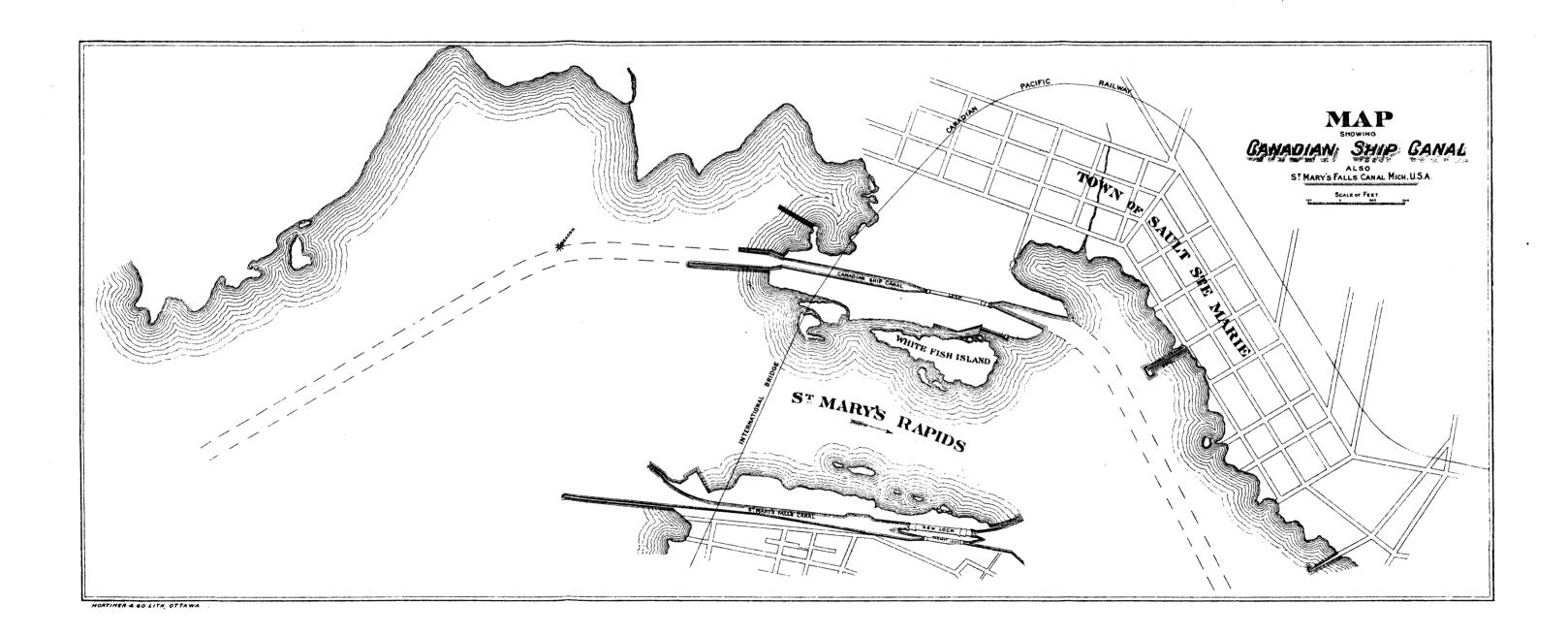












APPENDIX No. 1.

STATEMENT showing the amount expended by the Department of Railways and Canals, Dominion of Canada, during the Fiscal Year ending 30th June, 1895.

Name of Work.	Capi	ital.		Incom	e.	Staff.		Repairs	
CANALS.	8	3	cts.	\$	cts.	\$	cts.	\$	cts.
Lachine \$190,589 36 Less refunds previous years 645 00	189,	044	26	25,849	2 00	56,337	44	25,891	45
Soulanges	752,			20,04.	2 00	50,557	44	7,091 م	40
Cornwall Lake St. Louis	450, 4,	$\frac{689}{753}$	$\frac{65}{14}$	21,49	7 74	15,414	56	13,053	55
Rapide Plat. Williamsburg	228,5 $118,$			3,720 27,989		9,675 20,428		7,371 12,299	
Welland Murray	3,	809	35	24,24		20,428 90,438 5,354	07	48,270 5,063	94
rent .		907		21,143 } 5,963		4,184 15,453	18	3,374 12,303	49
Carillon		868		26,22		2,499	81	· ·	55
Sault Ste. Marie St. Lawrence Chambly	466, 182,	775	75	6,14	7 63	3,432		11,779	
RideauCulbute		• • •		31,55 1,47	9 48 5 26	33,827 436	$\begin{array}{c} 08 \\ 05 \end{array}$	19,897 434	32 28
St. Anne's St. Ours Miscellaneous works not provided for		• • •		3.80	4 33 5 51	2,508 2,161 865	63 69	3,025 915	
Surveys and inspections. Salaries of extra clerks and copyists. Salaries of engineers, draughtsmen and extra			 	32 1,88	6 77 4 85				• •
Lachine Canal Commission				17,42 6,56	3 20				
Dredge vessels, Lachine				1		39,655	52	2,744 5,822	39
Total on Canals				239,49		$-\frac{11,681}{333,680}$		172,600	
RAILWAYS.	2,402,			200,10		555,000		112,000	
Intercolonial	327	,034	51						
Windsor Branch Prince Edward Island Canadian Pacific	49	209	77			14,640 232,905	19		
Annapolis and Digby Repairs and alterations to car "Victoria" Gratuity to James Rutherford		570	55	3,20	0 00				• •
Compensation to A. H. Archibald	1	<i>.</i>	• • •	4,00	00 00				
Compensation to Mr. Martin for injuries			• • •			11,898			
Railway subsidies. Surveys and inspections	1,123			4.54		1,500) 00 		
Ttairway statistics	<u> </u>	• • • •	• • •	9	7 36				
Total on Railways				-	21 27	3,197,840		150 000	
Total on Railways and Canals	3,953	,037	,58	252,7	16 00	3,531,52	b 27	172,60	ມ 2

Total amount expended, \$7,909,880.06.

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 1st November, 1895.

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, 1895.

ST. PETER'S CANAL.

			Year ending 30th June.	Capital.	Renewals Chargeable to Income.	Staff.	Repairs.
				\$ ets.	\$ cts.	\$ cts.	\$ cts.
Government expend:	iture prior to (Confederati	on	156,523 32	 	! 	
do	since	do	1868	21,519 72			
dο	do	do	1869	70,719 80			1
do	do	do	1870		46,193 57		l
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			725 93	1,558 57
do	do	do	1875	20 97		560 00	889 35
do	do	do	1876	11,125 00		641 55	
do	do	do	1877	63,330 18		600 00	17 45
do	do	do	1878	26,511 51]	600 00	
do	do	do	1879	107,337 75		631 50	l
do	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
dο	do	фo	1883			2,089 19	232 42
do	do	do	1884	2,471 40		2,601 47	367 85
do	ďο	ďο	1885	16,820 15		1,929 11	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	фo	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
do	do	ďο	1893	811 59	9,987 78	2,938 15	1,856 30
do	do	do	1894	437 05	3,852 21	2,935 94	1,986 70
do	do	do	1895	868 44	26,222 46	2,499 81	353 55
Tota	al	•••		647,300 43	118,953 37	43,695 46	25,474 78

LEONARD SHANNON,

Accountant.

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 1st November, 1895.

STATEMENTS showing the amounts expended on Construction, Renewals, &c.—Con.

BAIE VERTE CANAL—SURVEY.

	-			Year ending 30th June.		Capital.		me.
					\$	ets.	8	cts.
Government expend	iture prior to	Confederatio	m			. 	ļ	
do •	since	do		1868				
do	\mathbf{do}	do		1869				
do	do	do		1870				
do	do	do	••	1871			17,92	29 34
do	\mathbf{do}	do	• • • • • • • • • • • • • • • • • •	1872				9 41
do	do	do	**********	1873			14,94	
do	do	do		1874		. <i></i>		l8 90
do	do	do		1875				13 00
\mathbf{do}	do	$\mathbf{d}o$		1876	1	.		lo 75
do	do	do		1877		. .	2	22 30
do	do	do		1878			. 	
do	do	do		1879			1	
do	do	do		1880				
do	do	$\mathbf{d}\mathbf{o}$		1881			52	XO 00
do	do	do		1882				
do	do	do		1883				
do	do	do		1884				
do	do	do		1885				
do	do	do		1886				
do	do	do		1887				
do	do	do		1888				
do	do	do		1889	1			
do	do	do		1890				
do	do	do .		1891				
do	do	do		1892	1	. .		
do	do	do		1893				. .
do	\mathbf{do}	do	• • • • • • • • • • • • • • • • • • • •	1894				
do	do	do		1895	1			
	_	•			-			
\mathbf{T}_{0}	tal		•		.		44,3	87 53

LEONARD SHANNON,
Accountant.

DEPARTMENT OF RAILWAYS AND CANALS,
OTTAWA, 1st November, 1895.

STATEMENTS showing the amounts expended on Construction, Renewals, &c.—Con.

LACHINE CANAL.

Expenditure by Imperial Government. Government expenditure prior to Confeder do since do do do do do do do do do do	ration	Year ending 30th June.	Capital.	Renewals Chargeable to Income.	Staff.	Repairs.
Government expenditure prior to Confeder do since do do do do do do do do	ation					
Government expenditure prior to Confeder do since do do do do do do do do do	ation		\$ ets. 40,000 00	\$ cts.	\$ ets.	\$ cts.
do do do do do			2,547,532 85			
do do do	• •	1868		1,852 70	13,742 05	10,431 51
	• •	1869 1870	2,000 00		14,209 02 15,834 49	12,085 84 13,302 39
uo uo uo	• •	1871		12,231 40	17,478 52	15,093 25
do do do		1872	36,708 15		16,076 93	12,334 69
do do do		1873	7,824 28	35,158 21	23,601 03	34,300 60
do do do		1874	158,618 35		25,811 07	22,828 66
do do do		1875	197,420 52		28,592 01	30,057 34
do do do		1876	327,769 39		33,797 73	29,103 65
do do do	• •	1877	1,439,375 73		33.148 86	19,824 33
do do do do do do	• •	1878 1879	1,484,619 63 958,053 30		39,062 97 42,338 84	13,646 41 12,400 78
do do do do do do	• •	1880	369,566 74		38,950 90	10,223 62
do do do	• • •	1881	292,165 51		39,027 99	19,888 33
do do do		1882	252,821 33	2,978 66		17,116 46
do do do		1883	396,496 96	1,859 68	45,554 91	18,199 59
do do do		1884	188,266 18		48,624 51	19.683 24
do do do		1885	111,215 23		49,004 85	20,199 78
do do do		1886	210,509 42		50,969 10	19,199 18
go go go		1887	28,772 52	12,981 59	53,113 97	22,567 81
do do do	• •	1888	19,414 34 76,032 96	$\begin{array}{c} 7,996 \ 38 \\ 972 \ 71 \end{array}$	52,229 61 54,110 67	19,999 64 22,957 71
do do do do do do	• •	1889 1890	7,448 03	8,238 46	53,114 34	22,999 38
do do do do do do		1 1001	217 53	16,155 75	59,721 69	36,292 98
do do do		1892	87.852.35	27,480 80	52,729 37	67,499 62
do do do		1893	445,983 21	50,937 40	53,185 00	51,616 79
do do do		1894	64,345 14	15,856 74	60,174 03	40,939 70
do do do	• •	1895	189,944 36	32,405 20	56,337 44	25,891 45
Total		1	9,940,974 01	227,105 68	1,102,700 80	660,684 73
BH	EAUI	HARN	OIS CANAI			
Government expenditure prior to Confede	ration	·	1,611,424 11		1	
do since do				63,193 75	9,349 99	6,216 98
do do do				55 00	9,626 99	6,498 57
do do do do do do	• •	1 1001		27 50	10,117 57 12,316 53	6,384 81 5,722 36
do do do				27 50	11,792 46	15,733 38
do do do		1050		5,122 50	12,210 73	9,882 06
do do do		1074		26 00	15,392 51	10,990 56
do do do		1875		36 00	14,399 32	12,253 01
do do do				{	14,465 86	17,170 83
do do do		1 1070			14,377 63	15,207 36
do do do		1050		\····	14,383 37	9,861 05
do do do do do do		1879	266 15		15,015 86 15,362 61	10,370 71 8,997 34
do do do	•	1881	200 10		17,659 93	10,770 67
do do do		1 1000			18,804 53	20,813 86
do do do		1000		6,727 44	18,287 77	15,826 71
do do do		. 1884		3,277 98	19,107 38	16,232 61
do do do		. 1885		7,999 79	18,960 40	14,637 70
do do do				8,491 80	19,228 90	14,356 00
do do do		. 1887		3,633 57	18,867 45	14,999 88
do do do do do do		1000		14,411 97 10,993 52	19,325 05 20,019 11	14,285 98 14,982 54
do do do do do do				10,000 02	19,847 42	14,982 54 14,999 20
do do do		1001		17,085 68	18,886 86	12,537 39
do do do		1000	1	1,696 23	18,886 86 20,050 01	14,999 80
do do do			1	l	20,348 34	14,107 11
do do do		. 1894			20,574 53	13,903 46
do do do					20,428 59	12,299 49
Total			1,611,690 26	177,336 88	459,207 70	355,041 42

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 1st November, 1895.

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.
overnment expen	diture prior to (lonfederati	on		\$ cts. 18,442 85	\$ cts 98,378 46
do	since	do		1868		00,0,0 10
$\ddot{\mathbf{do}}$	do	do		1869		
do	do	do		1870		
do	do	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	ďο		1876	50.215 47	
do	do	do	• • • • • • • • • • • • • • • • • • • •	1877	47,377 31	,
do	do	do		1878	5,570 46	
do	do	ďο		1879	9,265 77	• • • • • • • • • • • • • • • • • • •
do	do	ďο		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	do		1885	115,110 17	
do	do	do		1886	116,051 73	• • • • • • • • • • • • • • • • • • •
do	do	do		1887 1888	74,437 31	
do	do	do	• • • • • • • • • • • • • • • • • • • •		56,482 85	· · · · · · · · · · · •
do	do	do	• • • • • • • • • • • • • • • • • • • •	1889 1890	18,493 92	• • • • • • • • • • • • • • • • • • •
do do	do	do	*****	1891	23,979 91 35,137 25	
do	do	do		1892	59,779 31	
	do do	do do		1893	52,643 39	• • • • • • • • •
					02,010 00	
do do			******	1894	13 721 66	1
do	do	do		1894 1895	13,721 66	
	do do	do do	• • • • • • • • • • • • • • • • • • • •	1894 1895	$\begin{array}{r} 13,721 & 66 \\ 182,775 & 75 \\ \hline \end{array}$	
do	do	do do			13,721 66	
do do	do do Total	do do L	AKE ST. LOUIS.		$\begin{array}{r} 13,721 & 66 \\ 182,775 & 75 \\ \hline \end{array}$	
do do	do do Total	do do L.	AKE ST. LOUIS.	1895	$\begin{array}{r} 13,721 & 66 \\ 182,775 & 75 \\ \hline \end{array}$	
do do do dovernment expen	do do Total diture prior to 0 since	do do L. Confederat	AKE ST. LOUIS.	1895	$\begin{array}{r} 13,721 & 66 \\ 182,775 & 75 \\ \hline \end{array}$	
do do Government expen do do	do do Total diture prior to 6 since do	do do L.Confederati do do	AKE ST. LOUIS.	1895 1868 1869	$\begin{array}{r} 13,721 & 66 \\ 182,775 & 75 \\ \hline \end{array}$	
do do Fovernment expen do do do	do do Total diture prior to conce do do do	do do L.Confederati do do do	AKE ST. LOUIS.	1895 1868 1869 1870	$\begin{array}{r} 13,721 & 66 \\ 182,775 & 75 \\ \hline \end{array}$	
do do do do do do do	do do Total diture prior to 0 since do do do	do do L. Confederati do do do do	AKE ST. LOUIS.	1895 1868 1869 1870 1871	$\begin{array}{r} 13,721 & 66 \\ 182,775 & 75 \\ \hline \end{array}$	98,378 46
do do do do do do do do do do do do do d	do do Total diture prior to 0 since do do do do	do do L. Confederat do do do do do do	AKE ST. LOUIS.	1895 1868 1869 1870 1871 1872	$\begin{array}{r} 13,721 & 66 \\ 182,775 & 75 \\ \hline \end{array}$	
do do do do do do do do do do do do do d	do do Total diture prior to do do do do do do do do do do do do do	do do L. Confederati do do do do do do do do do do do do do d	AKE ST. LOUIS.	1895 1868 1869 1870 1871 1872 1873	$\begin{array}{r} 13,721 & 66 \\ 182,775 & 75 \\ \hline \end{array}$	98,378 46
do do do do do do do do do do do do do d	do do Total diture prior to 6 since do do do do do do do do do do do do do	do do L. Confederati do do do do do do do do do do do do do d	AKE ST. LOUIS.	1895 1868 1869 1870 1871 1872 1873 1874	$\begin{array}{r} 13,721 & 66 \\ 182,775 & 75 \\ \hline \end{array}$	98,378 46
do do do do do do do do do do do do do d	do do Total diture prior to 0 since do do do do do do do do do do do do do d	L. Confederati do do do do do do do do do do do do do	AKE ST. LOUIS.	1895 1868 1869 1870 1871 1872 1873 1874 1875	$\begin{array}{r} 13,721 & 66 \\ 182,775 & 75 \\ \hline \end{array}$	98,378 46
do do do do do do do do do do do do do d	do do Total diture prior to do do do do do do do do do do do do do	L. Confederation do do do do do do do do do do do do do	AKE ST. LOUIS.	1895 1868 1869 1870 1871 1872 1873 1874 1875 1876	$\begin{array}{r} 13,721 & 66 \\ 182,775 & 75 \\ \hline \end{array}$	98,378 46
do do do do do do do do do do do do do d	do do Total diture prior to o since do do do do do do do do do do do do do	L. Confederati do do do do do do do do do do do do do	AKE ST. LOUIS.	1895 1868 1869 1871 1872 1873 1874 1875 1876 1877	$\begin{array}{r} 13,721 & 66 \\ 182,775 & 75 \\ \hline \end{array}$	98,378 46
do do do do do do do do do do do do do d	do do Total diture prior to 6 since do do do do do do do do do do do do do d	L. Confederate do do do do do do do do do do do do do	AKE ST. LOUIS.	1895 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878	$\begin{array}{r} 13,721 & 66 \\ 182,775 & 75 \\ \hline \end{array}$	98,378 46
do do do do do do do do do do do do do d	do do Total	do do L. Confederati do do do do do do do do do do do do do d	AKE ST. LOUIS.	1895 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878	$\begin{array}{r} 13,721 & 66 \\ 182,775 & 75 \\ \hline \end{array}$	98,378 46
do do do do do do do do do do do do do d	do do Total diture prior to do do do do do do do do do do do do do d	L. Confederati do do do do do do do do do do do do do	AKE ST. LOUIS.	1895 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880	$\begin{array}{r} 13,721 & 66 \\ 182,775 & 75 \\ \hline \end{array}$	98,378 46
do do do do do do do do do do do do do d	do do Total diture prior to o since do do do do do do do do do do do do do	L. Confederati do do do do do do do do do do do do do	AKE ST. LOUIS.	1895 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881	$\begin{array}{r} 13,721 & 66 \\ 182,775 & 75 \\ \hline \end{array}$	98,378 46
do do do do do do do do do do do do do d	do do Total	L. Confederation do do do do do do do do do do do do do	AKE ST. LOUIS.	1895 1868 1869 1871 1872 1873 1874 1875 1876 1877 1878 1880 1881 1881	$\begin{array}{r} 13,721 & 66 \\ 182,775 & 75 \\ \hline \end{array}$	98,378 46
do do do do do do do do do do do do do d	do do Total	L. Confederati do do do do do do do do do do do do do	AKE ST. LOUIS.	1895 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883	13,721 66 182,775 75 1,139,675 77	98,378 46
do do do do do do do do do do do do do d	do do Total diture prior to o since do do do do do do do do do do do do do	L. Confederati do do do do do do do do do do do do do	AKE ST. LOUIS.	1895 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883	13,721 66 182,775 75 1,139,675 77	98,378 46
do do do do do do do do do do do do do d	do do Total diture prior to o since do do do do do do do do do do do do do	L. Confederation do do do do do do do do do do do do do	AKE ST. LOUIS.	1895 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1880 1881 1882 1883 1884 1883	13,721 66 182,775 75 1,139,675 77	98,378 46
do do do do do do do do do do do do do d	do do Total	L. Confederation do do do do do do do do do do do do do	AKE ST. LOUIS.	1895 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1880 1881 1882 1883 1884 1885 1886	13,721 66 182,775 75 1,139,675 77	98,378 46
do do do do do do do do do do do do do d	do do Total	L. Confederati do do do do do do do do do do do do do	AKE ST. LOUIS.	1895 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 1885 1886 1887	13,721 66 182,775 75 1,139,675 77	98,378 46
do do do do do do do do do do do do do d	do do Total	L. Confederati do do do do do do do do do do do do do	AKE ST. LOUIS.	1895 1868 1869 1871 1872 1873 1874 1875 1876 1877 1878 1881 1882 1883 1884 1885 1886 1887 1888	13,721 66 182,775 75 1,139,675 77	98,378 46
do do do do do do do do do do do do do d	do do Total	L. Confederation do do do do do do do do do do do do do	AKE ST. LOUIS.	1895 1868 1869 1871 1872 1873 1874 1875 1876 1877 1878 1880 1881 1882 1883 1884 1885 1886 1887 1888 1888 1888 1888 1888	13,721 66 182,775 75 1,139,675 77	98,378 46
do do do do do do do do do do do do do d	do do Total	L. Confederati do do do do do do do do do do do do do	AKE ST. LOUIS.	1895 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1880 1881 1882 1883 1884 1885 1886 1887 1888 1888 1889 1890	13,721 66 182,775 75 1,139,675 77	98,378 46
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	L. Confederation do do do do do do do do do do do do do	AKE ST. LOUIS.	1895 1868 1869 1871 1872 1873 1874 1875 1876 1877 1878 1881 1882 1883 1884 1885 1886 1887 1888 1889 1890 1891	13,721 66 182,775 75 1,139,675 77	98,378 46
do do do do do do do do do do do do do d	do do Total diture prior to o since do do do do do do do do do do do do do	L. Confederati do do do do do do do do do do do do do	AKE ST. LOUIS.	1895 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1881 1882 1883 1884 1885 1886 1887 1888 1889 1890 1891 1892	13,721 66 182,775 75 1,139,675 77	98,378 46
do do do do do do do do do do do do do d	do do do Total	L. Confederation do do do do do do do do do do do do do	AKE ST. LOUIS.	1895 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1881 1882 1883 1884 1885 1886 1887 1888 1889 1890 1891 1892	13,721 66 182,775 75 1,139,675 77	98,378 46
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	AKE ST. LOUIS.	1895 1868 1869 1870 1871 1872 1873 1874 1875 1878 1877 1878 1879 1881 1882 1883 1884 1885 1886 1887 1888 1889 1891 1892 1893 1894	13,721 66 182,775 75 1,139,675 77	98,378 46

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 1st November, 1895.

STATEMENTS showing the amounts expended on Construction, Renewals, &c.—Con.

			CC	RN	WAL	L CANAL.			
					Year ending 30th June.	Capital.	Renewals Chargeable to Income.	Staff.	Repairs.
Governm	nent expe	enditure prior toCor	nfedera	tion		\$ cts. 1,933,152 69	\$ cts.	\$ ets.	\$ cts.
	do	since	do		1868	l	2,786 00	11,244 47	3,774 18
****	do	do	do		1869	10,692 04	l	10.347 91	3.859 14
• • •	do	do	\mathbf{do}	٠.	1870		17,780 05	10,368 16	7.145 42
-	do	do	do		1871		7 50 10,000 21	11,848 39	8.891 61
	ďο	do	ďο	٠.	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	1 700 00	•••••	13,405 20	7,610 70
	do do	do do	do do	٠.	1875	1,780 00		13,351 91	7,097 34
	do	do	do	٠.	1876 1877	49,211 37		13,320 61	6,423 67
4.1.	do	do	do	• •	1878	145,015 45		13,375 70 13,825 50	6,440 54 4,935 21
	do	do	do	• •	1879	143,692 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	1	15,173 60	5,524 10
	do	do	do		1882	44,587 61		15,052 20	6,634 62
	ďο	do	do		1883	21,728 93		18,283 67	8,361 71
	do	do	do		1884	23,018 13		18,475 48	9,007 73
	do	do	$_{ m do}$		1885	62,034 90	16,298 96	15,988 96	12,368 51
	do	do	do		1886	57,820 83	6,960 95	15,994 80	11,832 83
	ďο	do	do		1887	46,966 43		17,520 54	12,100 29
	ďο	do	do	٠.	1888	67,945 74		16,938 54	13,942 64
	do	ďο	do	• •	1889	163,9 3 85	0.000.00	17,890 55	58,205 26
	do	do	do	• •	1890	365,038 01	2,000 00 1,459 98	17,063 49	12,758 18
	do do	do	do	• •	1891	599,001 85	2,345 26	16,077 72	9,830 05
	do	do do	do do	• •	1892 1893	398,555 25 352,536 13	2,345 20	15,596 66 15,173 01	9,864 36
	do	do	do	• •	1894	404,990 22		15,344 02	9,668 14
	do	do	do	• •	1895	450,689 65	21,497 74	15,414 56	7,733 54 13,053 55
	Tot	al				5,505,254 22	82,148 40	408,970 49	292,413 58
					<u> </u>				200,110 10
						JRG CANAI			
Governi		enditure prior to Co		tion	1 :::::	1,320,655 54		{	
	go	since	ģο	٠.	1868			5,745 97	6,442 41
	do	do	do	• •	1869		•••••	5,769 81	5,670 88
	d o d o	do do	do do	٠.	1870			5,573 13	6,546 16
	do	do	do	• •	1871 1872 1873		1 077 00	6,382 17 5,542 94	5,308 41
	do	do	do	• •	1873	1	1,077 00	6,424 49	3,230 07 7,347 75
	do	do	do	• • •	1874			6,857 19	7,395 92
	do	do	do	• • •	1875	1	1	6,547 62	4,110 29
	do	do	do		1876			7,418 39	11,690 98
	do	do	do		1877			7,388 08	10,053 61
	do	do	do		1878	\		7,430 11	4,449 78
	do	do	do		1879			7,517 20	3,549 71
	do	do	фo	٠.	1880			7,590 15	3,999 77
	do	do	do		1881			7,572 35	5,020 73
	ďο	do	ďο	٠.	1882			7,589 44	7,447 69
	ďο	фo	ďο	٠.	1883	13 19		7,423 48	7,299 39
	do do	do	do	•	1884	2,473 44		7,757 04	7,349 37
		do	do	• •	1885	103,237 12 149,835 71		7,696 67	8,198 03
	do do	do do	do ძა	••	1886 1887	115,853 00		7,671 54 7,635 54	7,847 05 7,904 76
	do	do	do	٠	1888	70,128 29	1 619 6	7,030 04	7,904 76
	do	do	do	• •	1889	59,867 26	1,613 67	7,646 79 7,485 28	8,190 13
	do	do	do	• •	1890	139,078 37		7,485 28 8,954 53	8,794 61 8,191 69
	do	do	do	• •	1891	230.670 60		8,678 25	7,987 40
	do	do	go		1892	376,545 32	797 83	9,458 33	8,551 32
	do	do	do	• • •	1893	372,193 29	3,675 00	8,676 03	8,347 97
	do	do	do		1894	372,193 29 498,390 23	,	10,230 09	7,029 95
	do	do	do		1895	347,357 23	13,720 36	9,675 09	7,371 37
					I			I	

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 1st November, 1895.

LEONARD SHANNON,
Accountant.

20,883 86 | 210,337 70 | 195,327 20

3,786,298 59

STATEMENTS showing the amounts expended on Construction, Renewals, &c.—Con.
WELLAND CANAL

		v	VEL	LANI	CANAL.		····	
				Year ending 30th June.	Capital.	Renewals Chargeable to Income.	Staff.	Repairs.
-					\$ cts.	\$ cts.	\$ cts.	\$ cts.
Imperial Governmen	ıt		::		222,220 00			
Government expendi				1000	7,416,019 83		97 650 05	90.0=0.00
do do	since do	do do	• • •	1868 1869	12,097 84 43,486 36		37,679 05 39,060 61	38,852 96 50,773 03
do	do	do	::	1870	20, 200 00	22,173 72	40,340 45	65,009 19
do	do	do		1871		48,569 10	42,383 33	53,381 02
do	do	do		1872	53,680 32		37,085 37	50,276 90
do	do	do		1873	82,282 20	47,876 27	45,382 99	
do	do	do		1874	746,420 61		50,966 48	103,666 99
do	do	do	• • •	1875	1,047,119 91		52,595 00	88,539 99
d o	do	do	• •	1876	1,569,478 19	700 00		81,376 12
do	do	do	• •	1877	2,199,962 61	• • • • • • • • • • • • • • • • • • • •	59,963 47	49,783 93
do	do	do	• • •	1878	$\begin{bmatrix} 2,138,392&99\\ 1,552,697&41 \end{bmatrix}$		60,138 59	66,393 53
do .	do do	do do	• • •	1879 1880	1,252,924 75		59,942 23 63,198 10	56,755 57 76,535 25
do	do	do	• • •	1881	1,242,943 37	6,593 19	56,398 04	69,249 53
do	do	do	::	1882	603,402 17	13,664 80	74,641 51	84,374 97
do	do	do		1883	549,433 29	5,979 03	109,207 21	72,707 62
ďo	do	do		1884	432,336 21		113,276 87	90,926 97
do	do	do		1885	463,505 38	6,150 21	112,670 00	91,534 66
do	do	do		1886	215,380 75	1,359 00	111,660 22	69,507 48
фо	do	do		1887	1,071,073 87	3,828 67	109,371 69	77,440 80
do	ďο	ďο		1888	429,720 94	10,740 86		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 19,767 73	109,202 02	72,686 19
do do	do	do	• • •	1891 1892	36,371 03 29,541 21	9,008 80	107,662 63 104,673 73	82,548 3 0 73,771 87
dο	do do	do do	• • •	1893	8,259 94			65,016 84
do	do	do	• •	1894	1,571 78		102,018 80	
do	do	do	• • •	1895	3,809 35		90,438 07	48,270 94
Total	• • • • • • • • • • • • • • • • • • •				23,767,675 74	360,664 25	2,176,899 56	1,963,051 83
	S'	TE. AN	NE'	S LOC	CK AND CA	NAL.		
Governmentexpendi	ture prior to Co	onfedera	tion		134,456 51			
do	since	do		1868			778 16	432 47
do	do	do		1869			1,062 96	
фо	do	фo		1870			1,136 54	1,280 36
ďο	dο	ďο	• •	1871			1,285 84	1,539 02
do	do	do	• •	1872		1,939 46		
do	do	do	• • '	1873	12,753 27	540 11	2,199 64	
do do	do do	do do	• •	1874 1875	32,627 71		2,614 90 1,859 20	
do	do	do		1876	24,935 85			4,033 72
do	do	do	•	1877			1,982 65	
do	do	do		1878				
do	do	do		1879	22,113 02		2,202 03	3,259 70
ĝο	do	do		1880	3,054 68			
фо	do	do	• • '	1881	69,042 76		2,553 02	3,257 92
ďο	ďο	do		1882	193,158 36			
do	do .	do	• •	1883			2,569 86	3,448 83
do	do	qo	• •	1884	142,006 25		2,775 32	2,725 49
do do	do do	do do	• •	1885 1886	93,679 57 129,681 67		2,618 60 2,611 90	
do	do	do	• •	1887	45,276 08	6,054 10		
do	do	do	• •	1888	18,910 55	1.372 59		
do	do	do	• • •	1889	24,786 33		2,569 22	1,750 79
do	do	do	• • •	1890	6,151 14	1	2.571 04	1,525 51
do	do	do		1891		8,173 69	2,505 69	1,503 56
do	do	do		1892		25,471 61	2,571 28	1,666 21
do	ďο	do		1893		6,521 88	2,581 08	2,890 03
do	фо	do		1894		3,497 56		2,799 63 3,025 91
do	do	do	• •	1895		3,694 33		
Total	• • • • • • • • • • • • • • • • • • • •				1,170,215 63	57,265 33	61,120 22	70,349 34

DEPARTMENT OF RAILWAYS AND CANALS,
OTTAWA, 1st November, 1895.

STATEMENTS showing the amounts expended on Construction, Renewals, &c.—Con.

CARILLON AND GRENVILLE CANALS.

			Year ending 30th	Capital.	Renewals Chargeable to Income.	Staff.	Repairs.
a .				\$ cts.	\$ cts.	\$ cts.	\$ cts.
	enditure prior to C			63,053 64			
do	since	фo	1868		19,817 22	6,301 88	8,911 28
do	ġο	ďο	1869			6,549 38	10,157 42
φo	do	do	1870		4,167 96	6,617 81	9,852 09
do	do	do	1871		23,119 37	8,676 90	8,218 24
ďο	do	do	1872	165,257 28		8,324 51	17,235 31
ďο	do	do	1873	133,199 10	3,051 38	10,068 28	8,781 50
qo	do	ďο	1874	245,258 38		10,710 88	10,605 82
qo	do	ďο	1875	339,864 76		10,378 57	18,520 44
ďο	do	do	1876	326,203 16	[. <i>.</i>	10,764 38	11,475 96
ďο	do	do	1877	245,738 04		11,050 27	10,304 06
ďο	do	фo	1878	22,676 20	[11,401 30	5,082 72
do	do	do	1879	243,141 24		11,501 22	7,629 98
do	do	do	1880	281,514 27		11,959 14	7,625 54
ďο	do	ďο	1881	336,707 53		13,059 18	8,076 91
фо	do	ďο	1882	433,084 39		14,387 49	7,582 68
do	do	do	1883	433,575 10		17,479 58	8,310 02
фо	\mathbf{do}	do	1884	399,267 16		17,393 91	7,918 42
do	do	do	1885	157,187 72		19,702 30	10,429 26
do	do	do	1886	104,973 24	75 00	20,597 82	9,303 31
do	do	do	1887	20,747 11		20,011 36	10,554 41
do	do	do	188×	38,996 29		21,531 12	10,036 (2
do	do	do	1889	298 17		22,098 88	10,135 66
do	\mathbf{do}	do	1890	17 58	4,526 61	15,896 16	7,582 38
do	do	do	1891		4,395 25	21,230 22	10,796 68
do	do	do	1892	34,585 64	15,036 48	17,458 69	8,620 15
do	do	do	1893	207 00	42,298 74	16,762 71	10,669 28
do	do	dσ	1894	385 55	20,034 94	14,144 98	11,620 09
do	do	do	1895	1	5,963 76	15,453 21	12,303 25
	Total			4,025,938 55	142,486 71	391,512 13	278,339 48

CULBUTE LOCK AND DAM.

Government exp	enditure since C	onfederatio	n.	1868				
do	do	do		1869		·		
do	do	do]	1870				· · · · · · · · · · · · · · · · · · ·
do	do	do		1871				
do	\mathbf{do}	\mathbf{do}		1872				
do	do	do		1873		835 53		
do	do	do		1874		38,388 99		
do	do	do		1875	63,659 29			
do	do	do		1876	76,842 44			
do	do	do		1877	56,081 87			
do	do	do		1878	5,933 53			
do	do	do	'	1879	20,694 19			
do	do	\mathbf{do}		1880	16,688 20		202 50	259 31
do	do	\mathbf{do}		1881	4,721 62		962 85	
do	do	dο		1882	29,567 15	\ <i></i>	790 00	162 33
do	$\mathbf{d}o$	do		1883	14.249 60		695 00	288 99
do	do	do		1884	8,151 16		733 50	
do	₫o	do		1885	19,071 76		730 00	572 75
do	do	do		1886	26,385 27	í	730 00	2,396 14
do	do	do		1887	7,760 88	 .	730 00	967 33
do	do	do			7,573 99		739 50	730 60
do	do	do	٠.	1889	17,112 01	\	1,050 00	116 53
do	do	do		1890	2,818 35		747 83	
do	do	do		1891	2,183 15	9,122 05	745 25	499 91
do	do	do		1892		1,546 25	736 00	
do	do	do				1,420 65	749 00	13 55
do	do	do		1894		2,540 14	730 00	494 43
do	do	do	• •	1895		1,475 26	436 05	434 28
	Total	•••••			379,494 46	55,328 87	11,507 48	6,936 15

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 1st November, 1895.

STATEMENTS showing the amounts expended on Construction, Renewals, &c.—Con. RIDEAU CANAL.

				Year end- ing 30th June.	Capital.	Renewals Chargeable to Income.	Staff.	Repairs.
Imposial Course	ment				\$ cts. 3,911,701 47	\$ cts.	\$ cts.	\$ cts.
	enditure prior to Co				153,062 60			
do	since	do		1868		7,298 12	18,397 28	16,475 21
do	do	do		1869			19,250 71	13,140 77
φo	do	do		1870		13 16	20,022 37	19,469 33
do	do	do	• • •	1871		11,732 98	22,814 58	18,120 52
do do	do do	do do		1872 1873		4,967 50 18,070 97	22,139 48 22,841 51	14,005 32 26,074 49
do	do	do	• •	1874		5,793 16	26,815 44	22,957 40
do	do	do	•	1875	9,310 85		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	do		1878			26,651 51	11,034 22
do	do	do		1879	7,703 88	• • • • • • • • • • • • • • • • • • • •	26,042 52	7,134 55
фо	ģo	do	• •	1880	ļ 		26,463 88	11,434 05
do	do	do	• •	1881		133 50	26,024 71	8,627 00
do do	do do	do do	• •	1882 1883		70 65	26,915 29 27,322 81	13,860 28 23,524 84
do	do	do	• •	1884		4,597 50	26,938 95	19,245 02
do	do	do	• • •	1885		2,098 76	26,971 32	18,189 55
do	do	go		1886		550 00	27,045 95	35,648 04
do	do	do		1887		20,823 96	29,440 46	18,565 34
do	do	do		1888		18,889 48	33,458 83	25,478 87
do	do	do		1889		6,665 22	33,801 77	18,106 36
do	do	ďο		1890		21,124 10	34,270 57	18,025 21
do	do	do	• •	1891		20,967 25 31,363 23	34,641 98 35,500 82	21,537 56
do do	do do	do do	• •	1892 1893		24,274 71	35,022 49	21,507 16 18,789 50
do	do	do	٠.	1894		14,485 11	34,943 35	16,939 47
do	do	do		1895		31,559 48	33,827 08	19,897 32
				 -	1.001.150.05	ļ		
	Total	• • • • • • •			4,084,156 87	245,478 84	776,509 36	506,113 62
C					S LOCK.	1		
Government expe	enditure prior to since	nfeder do		1868	121,537 65		1,532 75	753 74
do	do	do	• • •	1869			1,755 15	1,399 18
do	do	do	• • •	1870			1,458 09	1,006 22
do	do	do		1871			1,414 48	1,210 98
do	de	do	• .	1872				1,210 00
do		do			1		1,565 80	1,263 19
	do			1873			1,565 80 2,076 50	1,263 19 1,575 10
do	do	do		1873 1874			1,565 80 2,076 50 2,219 13	1,263 19 1,575 10 2,363 42
do do	do do	do do		1873 1874 1875			1,565 80 2,076 50 2,219 13 1,362 22	1,263 19 1,575 10 2,363 42 1,245 69
do do do	do do do	do do do	•••	1873 1874 1875 1876			1,565 80 2,076 50 2,219 13 1,362 22 1,403 92	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		1873 1874 1875 1876 1877			1,565 80 2,076 50 2,219 13 1,362 22 1,403 92 1,533 40	1,263 19 1,575 10 2,363 42 1,245 69 1,601 71 750 80
do do do do do	do do do do do	do do do do		1873 1874 1875 1876 1877 1878			1,565 80 2,076 50 2,219 13 1,362 22 1,403 92 1,533 40 1,556 65	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		1873 1874 1875 1876 1877			1,565 80 2,076 50 2,219 13 1,362 22 1,403 92 1,533 40	1,263 19 1,575 10 2,363 42 1,245 69 1,601 71 750 80 283 77 456 07
do do do do do do do	do do do do do do	do do do do do		1873 1874 1875 1876 1877 1878 1879			1,565 80 2,076 50 2,219 13 1,362 22 1,403 92 1,533 40 1,556 65 1,581 55	1,263 19 1,575 10 2,363 42 1,245 69 1,601 71 750 80 283 77 456 07 705 54 1,299 77
do do do do do do do do	do do do do do do do	do do do do do do do		1873 1874 1875 1876 1877 1878 1879 1880 1881			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	1,263 19 1,575 10 2,363 49 1,245 69 1,601 71 750 80 283 77 456 07 705 54 1,299 77
do do do do do do do do	do do do do do do do do	do do do do do do do do do		1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883		17,230 32	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	1,263 19 1,575 10 2,363 42 1,245 69 1,601 71 750 80 283 77 456 07 705 54 1,299 71 1,902 41 2,188 08
do do do do do do do do do	do do do do do do do do	do do do do do do do do do		1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884		17,230 32 5,279 17	1,565 80 2,076 50 2,219 13 1,362 22 1,403 92 1,533 40 1,556 65 1,681 55 1,614 01 1,741 97 2,002 71 2,361 65 2,315 37	1,263 19 1,575 10 2,363 42 1,245 69 1,601 71 750 80 283 77 456 07 705 54 1,299 77 1,902 41 2,188 08 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		1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 1885		17,230 32 5,279 17 4,700 64	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	1,263 19 1,775 10 2,343 42 1,245 69 1,601 71 750 80 283 77 456 07 705 54 1,299 77 1,902 41 2,188 08 1,494 99 3,652 63
do do do do do do do 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		1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 1885 1886		17,230 32 5,279 17	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	1,263 19 1,575 10 2,343 42 1,245 69 1,601 71 750 80 283 77 456 07 705 54 1,299 77 1,902 41 2,188 08 1,494 93 3,652 63 4,143 47
do do do do do do do do do 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		1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 1885 1886 1887		17,230 32 5,279 17 4,700 64	1,565 80 2,076 50 2,219 13 1,362 22 1,403 92 1,533 40 1,556 65 1,614 01 1,741 97 2,002 71 2,361 65 2,315 37 2,271 57 2,311 70 2,175 37	1,263 19 1,575 10 2,373 42 1,245 69 1,601 71 750 80 283 77 456 07 705 54 1,299 77 1,902 41 2,188 08 1,494 99 3,652 63 4,143 47 5,864 78
do do do do do do do do 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		1873 1874 1875 1876 1877 1878 1880 1881 1882 1883 1884 1885 1886 1887 1888		17,230 32 5,279 17 4,700 64	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	1,263 19 1,575 10 2,343 42 1,245 69 1,601 71 750 60 283 77 456 07 705 54 1,299 77 1,902 41 2,188 08 1,494 99 3,652 63 4,143 47 5,860 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 d		1873 1874 1875 1876 1877 1878 1880 1881 1882 1883 1884 1885 1886 1887 1888		17,230 32 5,279 17 4,700 64	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	1,263 19 1,575 10 2,363 42 1,245 69 1,601 71 750 80 283 77 456 07 705 54 1,299 41 2,188 06 1,494 93 3,652 63 4,143 47 5,864 78 2,801 2,202 63
do do do do do do do do do do do	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		1873 1874 1875 1876 1877 1878 1880 1881 1882 1883 1884 1885 1886 1887 1888		17,230 32 5,279 17 4,700 64	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 2,011 08	1,263 19 1,575 10 2,373 42 1,245 69 1,601 71 750 60 283 77 456 07 705 54 1,299 77 1,902 41 2,188 08 1,494 99 3,652 63 4,143 47 5,864 17 2,002 63 1,935 44 4,460 16
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		1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 1885 1886 1887 1888 1889 1890 1891		17,230 32 5,279 17 4,700 64 17,964 45 24,571 96	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 2,011 08 2,168 44	1,263 19 1,575 10 2,363 12 1,245 69 1,601 71 750 80 283 77 456 07 705 54 1,299 77 1,902 41 2,188 08 1,494 93 3,652 63 4,143 47 5,664 77 2,002 63 1,935 44 4,466 1,944 33
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		1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 1885 1886 1887 1890 1891 1892 1893		17,230 32 5,279 17 4,700 64 17,964 45 24,571 96 21,696 74	1,565 80 2,076 50 2,217 50 2,217 50 2,217 50 1,581 55 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 2,011 08 2,168 44 2,136 66	1,263 19 1,575 10 2,343 12 1,245 69 1,601 71 750 80 283 77 456 07 705 54 1,299 77 1,902 41 2,188 08 1,494 99 3,652 63 4,43 47 5,864 78 2,801 17 2,002 63 1,935 44 4,460 16
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		1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 1885 1886 1887 1888 1889 1890 1891 1892		17,230 32 5,279 17 4,700 64 17,964 45 24,571 96 21,696 74	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 51 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 2,011 08 2,168 44 2,136 66 2,216 68	1,263 19 1,575 10 2,373 42 1,245 69 1,601 71 750 80 283 77 456 07 705 54 1,299 77 1,902 41 2,188 08 1,494 99 3,652 63 4,143 47 5,864 62 2,901 17 2,002 63 1,935 44 4,460 16 1,944 33 1,994 34 924 55
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		1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 1885 1886 1887 1890 1891 1892 1893		17,230 32 5,279 17 4,700 64 17,964 45 24,571 96 21,696 74	1,565 80 2,076 50 2,217 50 2,217 50 2,217 50 1,581 55 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 2,011 08 2,168 44 2,136 66	1,263 19 1,575 10 2,343 12 1,245 69 1,601 71 750 80 283 77 456 07 705 54 1,299 77 1,902 41 2,188 08 1,494 99 3,652 63 4,43 47 5,864 78 2,801 17 2,002 63 1,935 44 4,460 16

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 1st November, 1895.

STATEMENTS showing the amounts expended on Construction, Renewals, &c.—Con.

		CH	MBLY	CANAL.			
	·		Year ending 30th June.	Capital.	Renewals Chargeable to Income.	Staff.	Repairs.
Covernmenterne	adituma prianta Con	fodoratio		\$ cts.	\$ cts.	\$ cts.	\$ cts.
do	nditure prior to Cons since	do .		634,711 76		8,312 90	9,355 70
do	do	do .	1000			8,437 22	13,120 97
do	do	do .				8,934 41	20,180 73
do	do	do .	1871		2,839 85	10,214 71	22,426 33
do do	do do	do . do .	1000		1,906 40 759 00	9,628 50 10,390 44	22,327 99 11,789 27
do	do	do . do .	1054	1	2,810 00	11,675 67	16,427 19
do	do	do .	. 1875	2,415 00		12,201 99	16,306 91
фо	ďο	do .	. 1876		• • • • • • • • • • • • • • • • • • • •	10,593 14	13,273 56
do	do	do .		80 00	•	10,281 78	10,111 32
do do	do do	do . do .	1070			10,413 99 11,301 53	6,022 96 8,809 77
do	do	do . do .	1880			11,516 22	12,377 74
do	do	do .	1001			13,950 47	20,705 17
do	do	do .			31,796 41	16,686 78	16,843 60
do	do	do .			21,332 36	15,904 38	15,182 24
do do	do	do .			41,640 77 21,049 23	18,448 85 18,378 55	12,003 34
do	do do	do . do .	1000		14,547 27	19,501 28	13,046 95 11.999 77
do	do	do . do .	1887	1	17,911 17	19,053 62	20,071 37
do	do	do .	1000		65,536 64	20,073 60	11,823 74
do	do	do .			51,437 87	19,679 22	19,392 18
do	do	do .			23,221 48 43,344 41	19,655 38 19,204 76	14,399 93
do do	do do	do . do .	$ \begin{array}{c c} & 1891 \\ & 1892 \end{array} $		38,353 99	19,665 22	11,399 93 12,976 48
do	do	do .	1000		21,127 65	19,310 29	12,451 03
do	do	do .	1 2004		8,567 78	19,040 93	11,920 74
do	do	do .	. 1895		6,147 63	19,325 49	11,779 12
To	tal			637,206 76	414,329 91	411,781 32	398,526 03
		M	URRA	Y CANAL.			
	nditure prior to Con	federatio					·
do	since	do .			400 00		
do	do	do .	1070				· · · · · · · · · · · · · · · ·
do do	do do	do . do .	1071				
do	do	do .	1070				
do	do	do .					
do	фo	do .	. 1874				
do	do	. do .	. 1875	1		1	
do do	do do	do . do .	. 1876			i .	
do	do	ao . do .	1050				
do	do	do .	1070				
do	do	do .	. 1880				
ďο	ďο	do.	. 1881	7.107.00	· · · · · · · · · · · · · · · · · · ·		
do do	do do	do .	1882	7,135 63 84,071 68		l.	
do	do	do . do .	4004	118,187 43			
. do	do	do .	1885	148,902 66		1	
do	do	do .	. 1886	179,704 52			
do	do	do .		142,563 66			
do do	do	do .	1000	146,754 37			
do do	do do	do . do .	1000	215,326 46 106,760 35		494 31	
do	do '	ao . do .	1 001	61,260 49		F 40F 00	173 53
do	do	do .	. 1892	5,964 22		5,803 48	3,505 15
do	do	do .	. 1893	30,838 79		5,499 62	5,341 34
do	do	do .				5,667 52	5,295 57
do	do	do .	. 1895			5,354 97	5,063 49
m				1 047 470 00	400.00	05.050.00	40.070.00

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 1st November, 1895.

LEONARD SHANNON,
Accountant.

19,379 08

STATEMENTS showing the amounts expended on Construction, Renewals, &c.—Con.
TRENT CANAL.

				Year ending 30th June.	Capital.	Renewals Chargeable to Income.	Staff.	Repairs.
Comment	itana maior to Cor				\$ cts. 309,371 31	\$ cts.	\$ cts.	\$ cts.
Government expended do	since	do do	FUOII	1868	303,311 31	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • •	
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			1	
do	do	do		1876				
do	do	do		1877				
do	do	do	4.	1878				
do	do	do		1879			1	İ
do	do	do		1880	561 50		1,188 92	3,568 89
do	do	ďo		1881			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		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	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	do	• •	1891	9,826 49	3,164 81	3,803 66	4.888 98
do	do	do	• •	1892	4,457 28	6,506 97	3,695 85	4,721 85
do	do	do	• •	1893	5,962 47	10,838 90	3,739 86	2,087 17
do	do	do	• •	1894	3,412 32	20,403 93	3,785 47	4,988 59
do	do	do	• •	1895	53,907 70	21,143 41	4,184 18	3,374 49
			• •	l	·	<i>i</i>		<u> </u>
T	otal		• • • • •		1,145,803 89	124,597 33	44,688 96	70,688 91
			7	'AY C	ANAL.			
Government expend	diture since Co	nfeder	ation	1868				
do -	фo	ďο	• •	1869	• • • • • • • • •		· · · · · · · · · · · · · · · · · · ·	
do	ďο	do	• •	1870	• • • • • • • • • • •			
do	do	do	٠.	1871		• • • • • • • • • • • • • • • • • • •		\
do	do	do		1872				
do	ďο	фo		1873				
do	do	do	• • •	1874				
do	do	do	• ,	1875	•			
do	ďο	do	• •	1876	• • • • • • • • • • •			
do	do	фo	• •	1877	••••••			
do	do	do	• •	1878			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
ģo	do	do		1879				
ďο	do	do	• •	1880				
do	do	ďο		1881				········
do	do	do	• •	1882	4 001 00	748 65	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
do	do	do	• •	1883	4,831 80	• • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •
do	do	ďο		1884	50,878 12	,		
do	do	do		1885	92,473 97 65,561 51	[
do	do	do		1886	00,001 01		,	
do do	do	do	• •	1887	49,617 92			
	do	do	• •	1888	54,166 57			
do	do	do	• •	1889	89,486 18 22,226 23		*	*
do do	do	do	• •	1890		1	*	
do do	do	do	• •	1891 1892	17,114 78		*	
do do	do do	do do	• •	1892	29,771 65	1	*	*
do	do do	do	• •	1894		1		*
do	do	do	• •	1895	1	}	+	*
		40	• •				·	
T	otal	• • • • •			476,128 73	748 65	J	.

^{*} Included in Rideau Canal.

STATEMENTS showing the amounts expended on Construction, Renewals, &c.—Con. SAULT STE. MARIE CANAL.

		-	Year end-	ing 30th June.	Capital.	Renewals Chargeable to Income.	Staff.	Repairs.
410000000000000000000000000000000000000		£ 4		1000	\$ ets.	\$ cts.	\$ cts.	\$ cts.
do do	enditure since Con do	do		1868 1869	• • • • • • • • • • • • •	•• • • • • • •	· • · · · · · • • • • •	· · · · · · · · · · · · · · · · · · ·
do	do	do		1870				
do	do	do		871				
do	do	do	1	1872		949 35		
do	do	do	1	873				
do	фo	do	1	1874				
do	do	do	1	875				
do	do	ďο	1	1876				
do	do	do		1877				
, do	do	do		1878			• • • • • • • • • • • • • • • • • • • •	
do do	do do	do	1 -	1879 1880		• • • • • • • • • •		
do	do	do do		1881			•• •••••	
ob	do	do		1882			• • • • • • • • • • • • • • • • • • • •	
do	do	do	1 1	1883				
do	do	do		1884				
do	do	do	1 1	1885				· · · · · · · · · · · · · · · · · · ·
do	do	do		1886				
do	do	do		1887				
do	do	do		1888	8,145 06	J		· · · · · · · · · · · · · · · · · · ·
do	do	do		1889	34,018 95			
do	do	ďυ		1890	176,568 55			
do	do	do	1	1891	325,336 33			
do	do	do	1	1892	341,474 31			l
do	do	do	1	1893	589,801 25			l
do	do	do			1,316,529 29			
\mathbf{do}	do	do	1	1895	466,151 50		3,432 73	
			1					
	Total	••••			3,258,025 24	949 35	3,432 73	
	Total					949 35	3,432 73	
Governmenteyn		S	OULA		3,258,025 24 S CANAL.	949 35	3,432 73	
Governmentexpe	enditure prior to Co	S(nfedera	OULA!	NGE		949 35	3,432 73	
do	enditure prior to Co	S(nfedera do	OULA:	NGE		949 35	3,432 73	
do do	enditure prior to Cor since do	Sonfedera do do	OULAL 1	NGE 1868 1869		949 35	3,432 73	
do	enditure prior to Co	S(nfedera do	OULA:	NGE 1868 1869 1870		949 35	3,432 73	
do do do	enditure prior to Co since do do	Somfeders do do do	OULA: ation	NGE 1868 1869 1870		949 35	3,432 73	
do do do do	enditure prior to Cor since do do do	Sonfedera do do do do	OULA: ation . 1 . 1 . 1 . 1 . 1 . 1	NGE 1868 1869 1870		949 35	3,432 73	
do do do do do do	enditure prior to Cor since do do do do	Sonfedera do do do do do	OULA: ation . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1	NGE 1868 1869 1870 1871 1872 1873 1874		949 35	3,432 73	
do do do do do do do	enditure prior to Cor since do do do do do do do do	somfeders do do do do do do do do	OULA: ation . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1	NGE 1868 1869 1870 1871 1872 1873 1874 1875		949 35	3,432 73	
do do do do do do do	enditure prior to Cor since do do do do do do do do	sonfeders do do do do do do do do do	OULA: ation . 1	NGE 1868 1869 1870 1871 1872 1873 1874 1875 1876		949 35	3,432 73	
do do do do do do do do	enditure prior to Cor since do do do do do do do do do	nfedera do do do do do do do do do	OULA: ation	NGE 		949 35	3,432 73	
do do do do do do do do do	enditure prior to Cor since do do do do do do do do do do	nfedera do do do do do do do do do do	OULA: ation 1 1 1 1 1 1 1 1 1 1 1	NGE 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877		949 35	3,432 73	
do do do do do do do do do	enditure prior to Cor since do do do do do do do do do do do	nfedera do do do do do do do do do do do	OULA: ation	NGE 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1878		949 35	3,432 73	
do do do do do do do do do	enditure prior to Cor since do do do do do do do do do do do	scale of the state	OULA: ation	NGE 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880		949 35	3,432 73	
do do do do do do do do do do	enditure prior to Cor since do do do do do do do do do do do do	sonfedera do do do do do do do do do do do do do	OULA: ation	NGE 1868 1869 1870 1871 1872 1873 1874 1875 1876 1876 1877 1878 1879 1880 1880		949 35	3,432 73	
do do do do do do do do do do	enditure prior to Corsince do do do do do do do do do do do do do	nfedera do do do do do do do do do do do do do	OULA: ation	NGE 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1880 1881 1882		949 35	3,432 73	
do do do do do do do do do do	enditure prior to Cor since do do do do do do do do do do do do	nfedera do do do do do do do do do do do do do	OULA: ation	NGE 1868 1869 1870 1871 1872 1873 1874 1875 1876 1876 1877 1878 1879 1880 1881 1882 1883		949 35	3,432 73	
do do do do do do do do do do	enditure prior to Cor since do do do do do do do do do do do do do	nfedera do do do do do do do do do do do do do	OULA: ation	NGE 1868 1869 1870 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1883 1884	S CANAL.	949 35	3,432 73	
do do do do do do do do do do do	enditure prior to Cor since do do do do do do do do do do do do do	nfedera do do do do do do do do do do do do do	OULA: ation	NGE 			3,432 73	
do do do do do do do do do do do	enditure prior to Cor since do do do do do do do do do do do do do	nfedera do do do do do do do do do do do do do	OULA: ation	NGE 	S CANAL.	949 35	3,432 73	
do do do do do do do do do do do do	enditure prior to Cor since do do do do do do do do do do do do do	nfedera do do do do do do do do do do do do do	OULA: ation	NGE 8868 8869 870 871 872 873 874 875 8876 8877 8878 8878 8881 8881 8881 8883 8884 8886 8886 8886	S CANAL.			
do do do do do do do do do do do	enditure prior to Cor since do do do do do do do do do do do do do	nfedera do do do do do do do do do do do do do	OULA: ation	NGE 	S CANAL.			
do do do do do do do do do do do do do d	enditure prior to Cor since do do do do do do do do do do do do do	nfedera do do do do do do do do do do do do do	OULA: ation	NGE 8868 8869 870 871 872 873 874 875 8876 8877 8878 8878 8881 8881 8881 8883 8884 8886 8886 8886	S CANAL.			
do do do do do do do do do do do do	enditure prior to Corsince do do do do do do do do do do do do do	nfedera do do do do do do do do do do do do do	OULA3 ation	NGE 868 868 869 870 871 872 873 874 875 876 887 887 888 889 888 888 888 888	S CANAL.			
do do do do do do do do do do do do do d	enditure prior to Corsince do do do do do do do do do do do do do	nfedera do do do do do do do do do do do do do	OULA: ation	NGE 	S CANAL.			
do do do do do do do do do do do do do d	enditure prior to Corsince do do do do do do do do do do do do do	nfedera do do do do do do do do do do do do do	OULA: ation	NGE 868 869 870 871 872 873 874 875 876 8876 8878 8889 8881 8882 8883 8844 885 8888 8888 8888 8889 8891	54,235 76 210,336 24			
do do do do do do do do do do do do do d	enditure prior to Corsince do do do do do do do do do do do do do	nfedera do do do do do do do do do do do do do	OULA: ation	NGE 868 869 871 872 873 874 875 877 878 887 887 8881 8881 8881 8884 8881 8886 8881 8886 8881 8886 8881 8886 8881 8886 8866 8666 866	54,235 76 210,336 24 723,380 95			
do do do do do do do do do do do do do d	enditure prior to Corsince do do do do do do do do do do do do do	nfedera do do do do do do do do do do do do do	OULA: ation	NGE 	54,235 76 210,336 24			

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 1st November, 1895. LEONARD SHANNON,
Accountant.

RECAPITULATION-EXPENDITURE on Canals, also showing Revenue received.

		Year ending 30th June	Capital.	Income.	Staff.	Repairs.	Revenue received.
	l		♣ cts.	es cts.	& cts.	& cts.	s cts.
Government expenditure prior to	o Confederation, including Imperial		20,593,866 13				
diture si	nfederation	1868	33,617 56	95,347 79	113,084 50	101,646 44	403,879 19
00 00 00 00		1870	120,000 20		120,403 02		414,687 02
		1871			135,040 81		488,538 76
		1872			124,137 09		466,847 52
		1873	256,547 27		148,581 18		486,433 26
		1875			168,401 21		414,979,59
90		1876	2,388,733 46		178,411 80		390,337 01
		1877	4,131,374 30		179,661 40		390,857 37
		1878	3,843,338 62		187,521 31		373,814 17
		1879	3,064,098 61	:	191,892 44		337,675 13
		1880	2,123,300 34	69 976 2	197,573 (.9		361,558 17
do do		1882	1.593,174 09	55,025 03	224,572 61		325,231 54
		1853	1,763,00; 97	62,503 14	269,415 01		361,604 01
		1884	1,577,295 42	60,993 99	280,657 29		372,561 69
		1882	1,504,621 47	58,297 59	280,226 20		321,289 47
		1886	1,333,324 80	31,984 02	282,323 63		323,977 43
do do		1888	1,033,118,34	120.561 59	292,458 76		317,902 04
		188	972,918 43	162,015 49	301,040 23		333,188 90
		1890	1,026,364 24	146,853 54	290,516 63		354,816 92
		1881	1,318,092 15	165,843 87	294,562 12		349,431 90
		1892	1,437,149 30	194,129 61	293,115 58		324,475 24
		1893	2,069,573.30	136,185 84	291,588 97		307,089 87
do op		1894	9,027,104 IB	216,057, 58	281,477 04		339,890 49
0D 0D		2001	2,1202,120	00 100 100			ar ouclass
Total		:	64,689,569 68	2,266,472 04	6,184,584 90	4,894,465 81	10,578,258 02

LEONARD SHANNON,

CANALS,

DR.

COLLECTORS of Canal Tolls

Balance		CANAL R	tevenue.		Total		
due by Collectors, 1st July, 1894.	Tolls.	Wharfage and Storage.	Fines.	Other Receipts.	Canal Rev- nue accrued.	Hydraulic Rents, &c.	Total.
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ ets.	\$ cts.	\$ cts.	\$ cts.
, 0 01	100,039 22 53,635 84 356 75 35 70 216 80 445 59 22 60		95 00 20 00	14 00	100,148 22 53,655 85 356 75, 35 70 216 80 445 49 22 60	915 00 5,038 26 5 00	100,454 90 53,853 11 863 42 35 70 1,131 80 5,483 75 27 60
0 01	154,752 40		115 00	14 00	154,881 41.	6,968 87	161,850 28
	1,462 28 26,683 00 825 47 2,794 89 21,840 13 8,859 58 62,465 35	30 00 16 35 2,391 58 2,437 93	70 00 10 00 45 00	1,009 41 13,948 25 14,957 66	1,562 28 26,693 00 870 47 3,820 65 38,179 96 8,859 58 79,985 94	2,716 00 1,395 00 560 00 27,950 03 32,621 03	4,278 28 28,088 00 1,430 47 3,820 65 66,129 99 8,859 58 112,606 97
		2,10, 00					
	9,457 69 11,439 57 599 35		5 00		9,457 69 11,444 57 599 35	100 00	9,457 69 11,544 57 599 35
	21,496 61		5 00		21,501 61	100 00	21,601 61
	19,252 05 13,243 87 186 57 1,145 70		12 00	8 00	19,252 05 13,251 87 198 57 1,146 35	13 (0 23 00	19,252 05 13,264 87 221 57 1,146 35
<u></u>	33,828 19		12 00	8 65	33,848 84	36 00	33,884 84
	3,724 21 1,479 82 629 67	69 02		310 00	4,103 23 1,479 82 629 67	639 50 105 00 84 50	4,742 73 1,584 82 714 17
	5,833 70	69 02		310 00	6,212 72	829 00	7,041 72
	2,072 42				2,072 42		2,072 42
	2,072 42				2,072 42		2,072 42
	699 95				699 95		699 95
	699 95				699 95		699 95

1894-95.

in Account with Revenue.

Cr.

	CREDI	ED TO THE F OF THE R GENERAL.			Memo- randum of
Collection Divisions.	On account of Canal Revenue.	On account of Hydraulic Rents, &c.	Balance.	Total.	Expenses and Repairs.
	\$ cts	. \$ ets.	\$ cts.	\$ cts.	\$ cts.
Welland Canal Port Colborne Port Dalhousie Dunnville Port Maitland Port Robinson St. Catharines Chippawa.	100,148 22 53,655 85 356 75 35 70 216 80 445 49 22 60	506 67 915 00 5,038 26		100,454 90 53,853 11 863 42 35 70 1,131 80 5,483 75 27 60	142,188 54 3,711 31 2,272 59 783 00 631 00 772 18 185 67 130 00
Totals	154,881 41	6,968 87		161,850 28	150,674 29
St. Lawrence Canals. Beauharnois. Cornwall Cardinal Lachine. Montreal Kingston	1,562 28 26,693 00 870 47 3,820 65 38,179 96 8,859 58	1,395 00 560 00 27,950 03		4,278 28 28,088 00 1,430 47 3,820 65 66,129 99 8,859 58	166,960 54 1,540 68 2,090 77 1,325 01 2,235 43 8,815 64 1,205 63
Totals	79,985 94	32,621 03		112,606 97	184,173 70
Chambly Canal Chambly St. Johns St. Ours	9,457 69 11,443 80 599 35	100 00	-	9,457 69 11,544 57 599 35	34,181 74 1,591 23 1,699 89 616 20
····.Totals	21,500 84	100 00	0 77	21,601 61	38,089 06
Ottawa Canals. Ottawa. Grenville. Carillon. St. Ann's Lock.	19,252 05 13,251 87 198 57 1,146 35	13 00 23 00		19,252 05 13,264 87 221 57 1,146 35	33,290 51 1,150 83 840 17 842 12
····. Totals	33,848 84	36 00		33,884 84	36,123 63
Rideau CanalOttswa. Kingston Mills. Smith's Falls	1,479 82	105 06		4,742 73 1,584 82 714 17	54,664 00 2,418 66 460 16 345 40
Totals	6,212 7	829 00		7,041 72	57,888 22
St. Peter's Canal	2,072 45	3		2,072 42	2,853 36 238 23
	2,072 4	3		2,072 42	3,091 59
Murray CanalBrighton	699 9	5		699 95	10,627 38 311 02
Totals	699 9			699 95	10,938 40

CANALS,

DR.

COLLECTORS of Canal Tolls

Balance		Canal R	REVENUE.		Total		
due by Collectors, 1st July, 1894.	Tolls.	Wharfage and Storage.	Fines.	Other Receipts.	Canal Rev- nue accrued.	Hydraulic Rents, &c.	Total.
\$ cts.	\$ cts	\$ ets.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ ets.
	68 19 425 78 46 02 28 05 285 23 105 27			0 25 93 00	68 44 518 78 46 02 28 05 285 23 105 27	50 00	68 44 518 78 96 02 28 05 287 23 105 27
	958 54			93 25	1,051 79	52 00	1,103 79
0 01	282,107 16	2,506 95	257 00	15,383 56	300,254 68	40,606 90	340,861 58
					971 09 299,283 59		971 09 339,890 49

1894-95-Concluded.

in Account with Revenue.

Cr.

	CRED	TED TO THE T OF THE R GENERAL.			Memo-
Collection Divisions.	On accoun of Canal Revenue.	On account of Hydraulic Rents, &c.	Balance.	Total.	Expenses and Repairs.
	\$ ct	s. \$ ets.	\$ cts.	\$ ets.	\$ cts.
Trent Valley Canal. Burleigh Bobcaygeon Fenelon Falls Hastings Peterboro' Buckhorn Totals	518 78 518 78 46 02 28 08	50 00		68 44 518 78 96 02 28 05 287 23 105 27	7,558 67 1 44 45 09 22 62 3 75 7,631 57
Sault Ste. Marie Culbute Dredge vessels Inspection					3,432 73 870 33
Department of Public Printing and Stationery General	l				689 93 1,547 37
***************************************	300,253 9	40,606 90	00 77	340,861 58	506.280_31
·····Less Refunds	971 0)		971 09	1
····.Net Revenue	299,282 8	2		339,890 49	

LEONARD SHANNON,
Accountant.

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HYDRAULIC AND OTHER RENTS.

Accounts-1894-95.	
Statement of Lessees' A	
No. 2.—Summary	

Dr.

Total.	\$ cts. 36,506 98 3,924 62 5,907 50 10,608 50 52,411 73 421 84 5,766 24 170 00	116,070 59
Balance.	\$ cts. 29,607 55 3,364 22 4,8512 50 7,892 50 22,872 80 4,937 24 80 00	73,943 23
Paid into hands of Collector.	6,898 43 6,898 43 560 00 1,395 00 2,716 00 27,948 03 100 00 90 00	40,536 46
Abate- ment.	1,590 90	1,590 90
NAME OF WORK.	Welland Canal Welland Canal O Cornwall Beauharnois do Chambly do Chambly do Sundry do Sundry do Sundry do	
Total.	\$ cts. 36,505 98 3,924 62 5,907 50 10,606 12,411 73 421 84 5,766 24 170 00	116,070 59
Accrued during the year ended 30th June, 1895.	\$ cts. 7,824 55 979 00 4,205 00 2,437 00 2,437 00 1,016 20 1,016 20 90 00	41,253 50
Balance due lst July, 1894.	28,681 43 2,945 62 1,702 50 8,1702 50 27,854 98 4,750 04 80 00	74,817 09

LEONARD SHANNON,

Accountant.

STATEMENT SHOWING REFUNDS CANAL TOLLS PAID DURING THE YEAR 1894-95.

Date.	To whom paid.	Refunds of Tolls on	Canals.	Amount.	Total.
1894				\$ cts.	\$ cts.
Sept. 26	Lomes, Higginson & Co	Overpaid on coal	Lachine	16 64	40.00
do 29	John Heney	Wood	Rideau	445 27	16 64
Nov. 7	M. Garrant	Coal	Chambly	1 35	445 27
Dec. 14	Montreal Transportation Co do do do J. B. Fairgrieve	do	Cauals	53 21	1 35
do 18 Feb. 5 do 13	Montreal Transportation Co Poupore & Fraser. R. O. & A. B. Mackay. Kingston and Montreal Forwarding Company. R. O. & A. B. Mackay.	do	do do do do	8 70 23 51 67 28 125 02 30 55	411 32
Dec. 14	J. & T. Conlon	Cement	Welland	95 91	
	R. O. & A. B. Mackay	Castings and cement	do	0 60	96 51
				-	971 09

LEONARD SHANNON,

Accountant.

INTERCOLONIAL RAILWAY.

(Including amounts paid to Nova Scotia Railway and European and North American Railway, N.B.)

		-		Year.	Construction.		Working Expenses including Windsor Branch Railway.	Revenue received, inclu Windsor Bra Railway.	iding
					\$ et	ts.	\$ cts.	8	cts.
Expendit	ure prior to	Confederatio	n		10,766,725	54			
do		do		1868	483,353		359,961 08	420,75	2 58
do	do	do		1869	282,615	18	387,548 47	455,023	
do	do	do		1870	1,729,381	49	445,208 75	471,24	
do	do	do		1871	2,916,782	13	442,993 31	565,71	
do	do	do		1872	5,131,141	51	595,076 22	622,900	
do	do	do		1873	5,201,450		1,011,892 60	703,45	8 26
do	do	do	!	1874	3,614,898	81	1,847,175 24	893,43	0 17
do	do	do		1875	3,426,099		1,532,589 62	861,59	3 43
do	do	do		1876	1,108,321	59	1,277,197 79	848,86	1 46
do		do		1877	1,318,352		1,661,673 55	1,154,44	
do		do		1878	408,816		1,811,273 56	1,378,94	678
do		do		1879	226,639		2,010,183 22	1,294,09	969
do		do		1880	2,048,014		1,607,956 70	1,520,31	
do		do		1881	608,732		1,780,353 53	1,777,85	
do		do		1882	585,568	79	2,080,592 37	2,100,31	5 85
do		do		1883	1,616,632		2,383,477 20	2,395,03	4 99
do		do		1884	1,405,377		2,366,719 95	2,376,66	
do		do		1885	1,195,363		2,460,229 87	2,392,60	
do		do		1886	544,958		2,508,473 10	2,406,85	
do		do		1887	823,070		2,854,158 91	2,621,33	
do		do		1888	742,203		3,300,481 94	2,937,33	
do		do		1889	655,228		3,174,785 19	2,923,73	
do		фо		1890	365,246		3,500,455 80	2,958,24	
do		ďο		1891	79,929		3,691,273 65	3,007,63	
do		do	• • • •	1892	168,101		3,458,891 39	2,978,95	
do		ďο		1893	228,984		3,062,207 45	3,099,81	
do		do		1894	166,362		2,999,317 07	3,020,48	
do	do do	do		1895	327,034	91	2,964,940 98	2,979,79	ə ə9 ——
	Total				*48,175,387	26	57,577,088 51	51,167,45	0 28

^{*} Including \$296,872.90 charged to "Consolidated Fund."

Total cost of construction as above..... \$48,175,387 26

LESS amounts transferred from Capital to Consolidated Fund as follows:-

	Nova Scotia Ry.	European and North American Ry.	h
1868	34,403 45 50,405 69	\$ 11,302 89 1,749 21	
1873	106,899 59	75,311 08	
4	3 208,509 72	\$ 83,363 18 208,509 72	
			\$ 296,872 90
Agreeing with balance sheet, Pu	blic Accounts, 189	94-95	\$47,878,514 36
Intercolonial Railway Cape Breton Railway			3,859,884,54
Oxford and New Glasgo Eastern Extension Raily	w Railway vay	•••••	1,945,497 69 1,324,042 81
Total Capital cost	of Intercolonial R	ailway system	\$55,007,939 40

LEONARD SHANNON, .

EASTERN EXTENSION RAILWAY.

				Year.	Capit	tal.	Worl Expe		Reve recei	
Goran					\$	cts.		cts.	\$	cts.
Government expend	niture prior to C	ontegerat	ion	1000				• • • • • •		• • • • • •
ďo	since	do		1868	1	• • • • •		· • · • • •		• • • • • •
do	do	ďο		1869	· · · ·	· · · · · ·		• • • • •] <i>.</i>	· · · · · ·
do	do	dο		1870		• • • • •				
do	do	do		1871						
do	do	do		1872						• • • • • •
do	dο	do		1873						
\mathbf{do}	do	dο		1874						
\mathbf{do}	do	$_{ m do}$		1875)			
do	do	do		1876	1			. 		
do	do	do		1877						
. do	do	do		1878			<i></i>			
do	do	do		1879						
do	do	do		1880	1	. .	<i></i> .		1	
do	do	do		1881			1			
do	dο	do	,	1882						
do	do	$\mathbf{d}\mathbf{o}$		1883	1		1			
do	do	do		1884	1,284,3	311 97	10.0	33 77	30.	767 66
do	do	do		1885		55 92		273 65		050 01
do	do	do		1886		83 79	94.7	56 06		893 11
do	do	do		1887				254 04		107 10
do	do	do		1888	1			54 73		552 20
do	do	do		1889	34.2	235 73		19 04		436 65
do	do	do		1890				102 77		658 95
do	do	do		1891	3.2	255 40	*		1	
do	do	do	• • • • • •	1892	,,,,		*		1 4	
do	do	do		1893	1		*		4	
do	do	ďο	• · · · · ·	1894	1		*		1 4	
do	do	do	• • • •	1895			*		+	
т	otal				1,324,0	042 81	538.0	094 06	462.	465 68

^{*} Included in Intercolonial Railway working expenses.

CARLETON BRANCH RAILWAY.

overnment expend	liture prior to C	onfederat	ion				
do	since	do		1868			
do	do	do	i	1869	·		
do	do	do		1870			
do	do	do		1871	·		
do	do	do		1872	·		
do	do	do		1873	! 		
do	do	do		1874		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
do	do	do		1875			
do	do	do		1876			
do	do	do		1877			
do .	do	dο		1878	<i></i>		
do	do	ďo		1879			
do	do	do		1880			
do	do	do		1881			
do	do	do		1882			• • • • • • • • •
do	do	do	1	1883			
do	do	\mathbf{do}		1884	i		
do	do	do		1885	l	·	
do	do	do		1886	85,610 69		
do	do	do		1887	2,299 62		
do	do	do		1888	500 17		
do	do	do		1889	l		
do	do	do		1890	l		
\mathbf{do}	do	do		1891			 {· • • • • • • • • • • • •
\mathbf{do}	do	do		1892	[
do	do	do		1893			
To	otal				*88,410 48		

^{*56} Victoria, cap. 6, transferred the Carleton Branch Railway to the city of St. John, N.B., for the sum of \$40,000 which sum was paid in March, 1893, to the Receiver General.

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 1st November, 1895.

LEONARD SHANNON,
Accountant.

[†] Included in Intercolonial Railway revenue.

CAPE BRETON RAILWAY.

				Year.	Capi	ital.	Worl Expe	
				1000	\$	cts.	8	cts.
Government expenditu	re prior to Confe	deration		1868	• • • • • • •		• • • • • • •	· · · · •
фо	gince	do		1869	· · · · · · ·	• • • • • •		• • • • •
фо	do	do	•	1870			• • • • • • •	
do	do	do	•• •••	1871 1872			• • • • •	• • • • •
ďο	do	do	• • • • • • • • • • • • • • • • • • • •	1873				
do	do	do	• • • • • • • • • • • • • • • • • • • •	1874	• • • • • • •	• • • • • •		
ďο	do	do	• • • • • • • • • • • • • • • • •		• • • • • • •	· · · <i>·</i> · · ·		
do	do	do	*. * * * * * * * * * * * * * * * * *	1875 1876			• • • • • •	• • • • • •
go	do	do	••• ••• ••• ••					• • • •
ďο	do	do	• . •	1877 1878			• • • • • • • • • • • • • • • • • • • •	
ďο	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		• • • • • • • •		
do	do	do	• • • • • • • • • • • • • • • • • • • •	1887	70		• • • • • •	
do	do	do	• • • • • • • • • •	1888		501 89		
do	do	go	•• •••••••	1889		450 50 276 60		
do	do	po	•	1890	1 170	276 60 -		
do	do	do	••••	1891	591	523 62 441 62	•• • • • •	· · · · · ·
do	do	do	••• ••• ••• ••	1892				· · · · · · ·
do	do	do	• • • • • • • • • • • • • • • • • • • •	1893		936-96 982-74	• • • • • • •	
go	do	do		1894				• • • • • •
do	do	do			198,	770 61	•• •	• • • • •
do	do	do	*	1895	Ī		i	
	Total				3,859.	884 54	+	

^{*}Included in Intercolonial Railway capital.

OXFORD AND NEW GLASGOW RAILWAY.

Government expenditu	re prior to Confe	deration		1868	
do	since	do		1869	
do	do	do		1870	
do	do	do		1871	
do	do	dυ	• . • . •	1872	
do	do	do	• • • • • • • • • • • • • • • • • • • •	1873	
do	do	do	• • • • • • • • • • • • • • • • • • • •	1874	l
do	do	dο		1875	
do	do	do	• • • • • • • • • • • • • • • • • • • •	1876	
do	do	do	• • • • • • • • • • • • • • • • • • • •	1877	
do	do	do		1878	
do	do	do	• • • • • • • • • • • • • • • • • • • •	1879	
do	do	do	• • • • • • • • • • • • • • • • • • • •	1880	
do	do	do	• • • • • • • • • • • • • • • • • • • •	1881	1
do	do	do	•••••	1882	1
do	do	do	• • • • • • • • • • • • • • • • • • • •	1883	
do	do	do	• . • • • • • • • • • • • • • • • • • •	1884	
do	ďο	do		1885	
do	do	do	• • • • • • • • • • • • • • • • • • • •	1886	
do	do	do		1887	
do	do	do		1888	280,932 35
do	do	do		1889	840,553 57
do	do	do		1890	434,074 60
, do	do	do	•	1891	220,886 39
do	do	do		1892	48,745 23
do	do	do		1893	7,922 80
do	do	do		1894	112,382 75
do	do	do	•••••••••	1895	*
	Total				1,945,497 69

^{*}Included in Intercolonial Railway capital.

LEONARD SHANNON,

⁺Included in Intercolonial Railway working expenses.

⁺Included in Intercolonial Railway working Expenses.

MONTREAL AND EUROPEAN SHORT LINE RAILWAY.

				Year.	Construc	tion.	Work expen		Reve recei	
		-			\$	cts.	*	cts.		cts.
Government expend	iture prior to (Confederat	ion	1868						
do *	since	do		1869					·	
do	do	do		1870						
do	do	do		1871	i					
do	do	do		1872	1					
do	do	do		1873						
do	do	do		1874						
do	$_{ m do}$	do		1875	1					
do	\mathbf{do}	do		1876	l					
do	do	do		1877					1	
đο	do	. do		1878	1				1	
do	do	do		1879						
do	do	do		1880					1	
do	do	do		1881						
do	do	do		1882			(
do	do	do		1883					1	
do	do	do		1884						
do	do	do		1885	49.58	37 45				
do	do	do		1886	135,2	14 38			}	
do	do	do		1887	24.1	7 32				
do	do	do		1888	39	7 35				
do	do	do		1889					·····	•••••
do	do	do		1890	1					
do	do	do		1891	124,50				,	· · · · · · · ·
do	do	do		1892	· · · · · · · · · · · · · · · · · · ·		l			
do	do	do		1893	1					
do	do	do		1004		7 99			l	
do	do	do		1005				. ,		• • • • • •
	Total				333,9	12 72				

LEONARD SHANNON,

Accountant.

PRINCE EDWARD ISLAND RAILWAY.

				Year.	Construction.	Working expenses.	Revenue received.
					\$ cts.	\$ cts.	\$ ets.
Government expen	diture prior to	Confedera	tion	\ <i></i>	3,114,735 11		.
do	since	do		1874	1	750 00	• • • • • • • • • • • • • • • • • • •
do	do	do		1875	46,086 63	49,344 62	24,493 99
do	do	do		1876	42,546 10	219,930 43	118,060 96
do	do	do		1877	200,000 00	228,595 25	130,664 92
do	do	do		1878	6,551 86	221,599 49	135,899 60
do	do	do		1879	40,129 05	223,313 12	125,855 91
do	do	do		1880	16,539 82	164,640 55	113,851 11
do	do	do		1881		203,122 88	131,131 43
do	do	do		1882	402 03	228,259 97	137,267 54
do	do	do		1883	57,186 02	252,808 41	146,170 42
do	do	do		1884	130,663 38	236,428 13	144,504 12
do	do	do		1885	76,956 56	211,207 01	158,588 06
do	do	do		1886	4,668 33	216,744 34	155,584 36
do	do	do		1887	5,800 00	204,237 45	155,303 37
do	do	do		1888	1	229,639 95	158,363 62
do	do	do		1889		247,559 44	171,369 56
do	do	do		1890	,	266,485 85	160,971 78
do	do	do		1891	l	257,990 08	174,258 05
ds	do	do		1892	8,300 49	289,706 38	157,442 69
do	do	do		1893		226,422 17	162,690 42
do	do	do		1894	1	226,891 06	158,533 83
do	do	do	• • • • • •	1895		232,905 19	149,654 78
	Total		• • • • • • • • • • • • • • • • • • •		3,750,565 38	4,638,581 77	2,970,660 52

LEONARD SHANNON,
Accountant.

CANADIAN PACIFIC RAILWAY.

				Year.	Construction, including Subsidy of \$25,000,000.		Working Expenses.		Revenue received.	
					\$	cts.	\$	cts.	\$	cts.
Government expend	iture prior to	Confederat	ion							
do	since	do		1868						
do	do	do		1869						
do	do	do		1870						
do	do	do		1871	30,14	18 32				
\mathbf{do}	do	do		1872	489,42	28 16				
do	do	do		1873	561.81					
\mathbf{d} o	do	do		1874	310,22	24 88				• • • • •
\mathbf{do}	do	do		1875	1,546,24	11 67				
do	do	do		1876	3,346,56	67 06				
do	do	do		1877	1,691,14	19 97				
do	$_{ m do}$	do		1878	2,228,37	3 13				
do	\mathbf{do}	do		1879	2,240,28					
do	\mathbf{do}	\mathbf{do}		1880	4,044,52		78,8	392 01	104,9	975 69
do	do	do		1881	4,968,56		236,	944 98	291,4	198 06
do	do	do		1882	(1) 4,589,07		1,7	786 20		
do	do	do			(2)10,033,80			266 09		
do	do	do			(3)11,192,72			$327 \ 02$.
do	do	do			(4) 9,900,28					
do	do	do			(5) 3,672, 58					
do	do	do			(6) 915,05					
do	do	do		1888	52,09					
do	фo	do		1889	86,71					
do	do	do	• • •	1890	40,98			!		
do	do	do		1891	37,36					
фо	do	do		1892	66,21					
ďο	do	фo		1893	413,83					
ġο	ďο	do		1894	146,53					
do	do	do	• • •	1895	49,20	9 77			• • • • • • •	
Tot	al				*62,653,74	5 21	318 9	216 30	396 4	173 75

^{*} Agrees with Public Accounts balance sheet, 1894-95.

(1)	Including	g	\$	2,210,000	00	on	account subsidy.
(2) (3)	do	- 		5,323,076	60		do
(3)	do			7,254,208	27		do
(4)	\mathbf{do}			6,862,201	00		do
(5) (6)	do			2,890,427	00		do
(6)	do	***************************************		460,087	13		do
		-	_	5 000 000			

\$25,000,000 00

LEONARD SHANNON,

Accountant.

ANNAPOLIS AND DIGBY RAILWAY.

				Year.	Capit	al.	Working Expenses.	
						cts.	\$	cts
Jovernment expend	iture prior to (Confederat	ion			<i>.</i>		
do	since	do		1868				
do	do	do		1869			. 	
do	do	do		1870				
do	do	do		1871				
do	do	do		1872				
do	$\mathbf{d}\mathbf{o}$	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	ďο		1883			· · · · · · · · · · · · · · · · · · ·	• • · ·
do	do	do		1884				
do	do	do		1885				• •
do	do	do		1886				
do	do	do		1887		• • • • • •		• • •
do	do	do		1888	•• •••	• • • • •		
do	do	do	********	1889	9.8	47 27		
do	do	do		1890		42 75		
do	do	do		1891	196,8			
· do	do	do		1892		29 39		
do	do	do		1893		90 62		• • •
do	do	do		1894		75 36		
do	do	do	***************************************	1895		70 55		
do	uo	do		1000		10 55		• • •
Total	1				610.9	25 80		

LEONARD SHANNON,
Accountant.

RECAPITULATION—RAILWAYS.

			Year.	Construction.	Working Expenses.	Revenue Received.
		· 		\$ ets.	\$ cts.	\$ cts.
Government expen	diture prior to	Confederation	J 1	13,881,460 65	·	
do	since	do .	1868	483,353 65	359,961 08	420,752 58
do	do	do .	1869	282,615 18	387,548 47	455,022 76
do	do	do .	1870	1,729,381 49	445,208 75	471,245 09
do	do	do .	1871	2,946,930 45	442,993 31	565,713 52
do	do	do .	1872	5,620,569 67	595,076 22	622,900 56
do	do	do .	1873	5,763,268 81	1,011,892 60	703,458 26
do	do	do .	1874	3,925,123 69	1,847,925 24	893,430 17
do	do	do .	1875	5,018,427 85	1,581,934 24	886,087 42
do	do	do .	1876	4,497,434 75	1,497,128 22	966,922 42
do	do	do .	1877	3,209,502 16	1,890,268 80	1,285,110 27
do	do	do .	1878	2,643,741 73	2,032,873 05	1,514,846 38
do	do	. cb	1879	2,507,053 71	2,233,496 34	1,419,955 60
do	do	do .	1880	6,109,077 14	1,851,489 26	1,739,137 25
do	do	do .	1881	5,577,236 73	2,220,421 39	2,200,486 25
do	do	do .	1882	5,175,046 61	2,310,638 54	2,237,583 39
do	do	do .	1883	11,707,619 02	2,636,551 70	2,541,205 41
do	do	do .	1884	14,013,074 89	2,613,508 87	2,551,937 97
do	do	do .	1885	11,224,244 54	2,749,710 53	2,624,243 07
do	do	do .	1886	4,443,220 17	2,819,973 50	2,628,336 35
do	do	do .	. 1887	1,846,887 18	3,152,650 40	2,840,747 88
do	do	do .	1888	1,765,582 11	3,621,076 62	3,166,253 22
do	$\mathbf{d}\mathbf{o}$	do	1889	2,709,857 37	3,513,063 67	3,167,542 67
do	do	do .	1890	2,392,767 99	3,846,044 42	3,203,874 11
do	do	do	. 1891	1,184,317 34	3,949,263 73	3,181,888 56
do	do	do	. 1892	417,425 73	3,748,597 77	3,136,393 51
do	do	do .	1893	712,917 44	3,288,629 62	3,262,505 62
do	do	do	1894	585,749 01	3,226,208 13	3,179,019 57
do	do	do .	1895	376,814 83	3,197,846 17	3,129,450 37
	Total			*122,750,701 89	63,071,980 64	54,996,050 23

*Total amount paid on construction	\$122,750,701	89
Carleton Branch Railway	40,000	00
Total cost of construction	\$122,710,701	89

LEONARD SHANNON,

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 1st November, 1895. Accountant.

APPENDIX

STATEMENT showing Subsidies voted for Railways as to which contracts

	Subs	idies	voted			Railways.				
Aut	thority	ŗ.	Amo	ount.		-	1883–84.	1884–85.	1885-86.	1886-87.
				} c	ts.		\$	\$	\$	\$
46 Vio	a, cap	. 25	- 15	6,800	00	International Railway, Quebec	144,000			
45 46	do do	14 25		4,000 0,000) 				
48-49 49	do do	59 10		6,000 $6,295$						
50-1 51	do do	24	2	8,800 $6,000$	00	Quebec and Lake St. John Rail- way, Quebec	32,000	37,027	186,745	202,219
52 53	do	3	6	4,000 0,000	00	, , , ,	,		200,, 20	,
54-5	do	8		5,250	00]		
57-8 46	do do	4 25	8	4,800 9,600	00	Kingston, Napanee and Western				
49 50-1	do do	10 24	1:	0,000 2,800	00	Railway, formerly Napanee, Tamworth and Quebec Railway,		l		
52 55-6	do do	3 5		2,000 4,000		Ontario	32,000	57,600		
47 51	do do	8		2,000 $1,000$		Pontiac Pacific Junction Railway, Quebec		40.000	41 000	00 500
53 46	do do	2 25	2	$\frac{4,000}{5,200}$	00) Quebec		49,090	41,000	60,580
47 50-1	do do	8 24	7	6,800 2,000	00	Caraquet Railway, N.B		32,000	76,800	61,200
47 49	do	8	3	2,000	00	ĺ				
52	do do	10	2	7,600 2,400	00	Great Northern Railway, Quebec.		25.088		
53 56	do do	2 2	4	8,000 8,000	00			20,000		
57-8 47	do do	8	9 4	6,000 8,000	00	Kingston and Pembroke Railway, Ontario	<u> </u>	48,000		
45 46	do do	14 26		0,000		Northern and Pacific Junction Railway, Ontario			Ì	
53 47	do do	8	,	0,000 8,000	ł	, Ranway, Ontario		154,440	1,051,590	78,370
48-9 49	do do	59 10	1	9,200 2,000	00	Canada Eastern Ry., formerly				
48-9 57-8	do	59 4	14	0,800	00	Northern and Western Ry., N.B	,	.	128,000	18,200
47	do do	8	l c	5,200 0,342	Į.	ĺ				
51	do	3	,			Quebec Central Railway, Quebec.		.	60,342	
53 48-9	do do	59	7	8,000 2,000	00				64,972	4,950
53 48-9	do do	2 59		10,000 10,000		Montreal and Champlain Junc-	1		01,	2,000
50-1 51	do do	24	6	4,000 9,600	00 0	tion Railway, Quebec		. . 	30,000	
46 51	do do	25 3	3	8,400	00	Elgin, Petitcodiac & Havelock	1		38,400)
47 48-9	do do	8 59	2	2,400 6,000	00	St. Louis and Richibucto Ry., N.B.			22,400	
49 50-1	ďο	10 24	18	8,400	00	Canada Atlantic Railway, Ont			1	44,384
47 47	do do	6l . 8	75 9	6,000 6,000	00	Esquimalt and Nanaimo Ry., B.C. Erie and Huron Railway, Ontario.		.) .	422,520	327,480 96,000
46 47	do qo	25 8		0,000 0,000		Baie des Chaleurs Railway, Que.				250,000
52 48-9	do do	3 59	,	•	į.	New Brunswick and Prince Edward Railway, N.B				97,440

No. 3. have been entered into and payments made up to the 30th June, 1895.

				-				
				Payments.				Total to 30th June
1887-88.	1888-89.	1889-90.	1890-91.	1891-92.	1892-93.	1893-94.	1894-95.	1895.
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ ets.
8,960 00	· · · · · · · · · · · · · · · · · · ·	3,840 00	••••		• • • • • • • • • • • • • • • • • • • •		· · · · · · · · · · · · · · · · · · ·	156,800 00
232,013 00	19,911 00	38,440 00	70,350 00	26,222 73	76, <u>4</u> 71 77	81,600 00		1,002,999 50
•		95,744 00	7,600 00	· · · · · · · · · · · · · · · · · · ·	1,856 00	13,932 80	••••	208,732 80
24,158 00							18,750 00	193,578 00
40,050 00	13,950 00					•••	• • • • • • • •	224,000 00
••••		20,000 00	9,500 00	24,100 00		. 	32,000 00	110,688 00
•••••						••••		48,000 00
•••••		35,000 00	600 00					1,320,000 00
159,400 00	6,300 00	100 00		**** ****			30,400 00	342,400 00
•••••			•••••					60,342 00
••••••	· · · · · · · · · · · · · · · · · · ·	6,719 50	17,116 07		· . • • • · · ·	• • • • • • • • • •	·	93,757 57
16,400 00	36,700 00	5,400 00			15,100 00	,		103,600 00
		 		44,252 82				82,652 82 22,400 00
	9,491 20	149,812 00	30,188 00	· · · · · · · · · · · · · · · · · · ·		• • • • • • • • • • • • • • • • • • • •		282,355 20
••••••	•••••			 				750,000 00 96,000 00
50,300 00	75,200 00	148,675 00				95,825 00		620,000 00
16,000 00			l 	29				113,440 00

APPENDIX No. 3.—Statement showing Subsidies voted for Railways

Secretary States and Secretary Secretary	Sul	nsidie	s voted.					
				Railways.				
Aı	uthori	ity.	Amount.		1883-84.	1884 -85.	1885-86.	1886-87.
			\$ cts.		*		8	
50-1	Vic.,	c. 24		St. Lawrence, Lower Laurentian and Saguenay Ry., Que., now Laur-	1			\$
4 9	do	10	11,200 00	entian Railway L'Assomption Railway, Quebec				64,430 11,200
49 50-51		10 24	32,000 00 96,000 00	Creat Fostom Railway One				i
56 53	qo qo	2 2	64,000 00 37,500 00		ĺ			13,200
47 52	qo do	8	} 160,000 00	Irondale, Bancroft and Ottawa Railway, Ont.				15,000
49 50-51	_	10 24	96,000 00 6,400 00	Railway, Ont. Buctouche and Moncton Railway, N.B				40,480
47 52	do	8	51,200 00	Albert Southern Railway, N.B.	1			1,000
57-8	do	4		Lac Témiscamingue Colonization Railway, Quebec				14,000
49 50·1	do	$\frac{10}{24}$						
45 48-9	do	14 58	240,000 00 258,000 00	Témiscouata Railway, N.B. and				
51 53	do	$\frac{3}{2}$	$\begin{array}{c} 100,000 \ 00 \\ 51,200 \ 00 \end{array}$	<u> </u>	i		•••	
48-9 50-1	do	59 24	6,400 00	Leamington and St. Clair Railway, Ontario				
49	do	10 24		Toronto, Grey and Bruce Railway, Ontario				
50-1 49 53	do	10	1 050,000 00	Dominion Lime Co., Quebec West Ontario Pacific Ry. and Ontario and Quebec Railway.			1	
50-1 52	do do	$\begin{smallmatrix}2\\24\\3\end{smallmatrix}$	96,000-00)				
53 57-8	do do do	2 4	14,400 00 76,800 00 96,000 00	Drummond Cod ty Ny., Quebec.				
48-9 53	do do	59 2	100,000,00	Rrockville Westwort and Sault				
54-5 57-8	do do	8 4	t same or	I Sto Marie Railway Ontario				
49 53	do do	10 2	32,000 00 10,200 00	Montreal and Lake Maskinongé Railway, Quebec				
50-1 50-1	do	$\frac{24}{24}$	54,400 00	South Norfolk Railway, Ontario Guelph Junction Railway, Ontario.				
48-9 49	do do	59 10	22 100 00	L Rollavilla and North Hastings	i	i	i	
49 49 52	do do	10 10 3	108,800 00 48,000 00	Horoford Railway Ouchee				
50-1 55-6	do do	24 5		Lake Erie and Detroit River	1			
50-1 50-1	do do	24 24		Beauharnois Junction Ry., Quebec.				
55-6 57-8	do	5 4	108,000 00 108,800 00	tral Railway Ontario				
52	do	3	30,000 00	Fredericton and St. Mary's Railway Bridge Co., N.B				
50-1 55-6	do do	$^{24}_{5}$		Harvey Branch Railway Co., N.B Nova Scotia Central Railway Co.,		• • • • • • •		
50-1	do	24	,	N.S			· · · · · · · · · · · · · · · · · · ·	
52	do	3	,	N.S Pontiac and Renfrew Railway Co.,				
52	do	3	54 400 00	Ontario Thousand Islands Railway Co. Ont				
52 56	do do	3	1 00,000 00	Quebec, Montmorency and Char- levoix Railway, Quebec				
52	do	3	375,000 00	St. Clair Frontier Tunnel Co., Ont.				1

as to which contracts have been entered into, &c .- Continued.

	Total			·			Payments.		
	1895.	1894-95.	1893-94.	1892-93.	1891-92.	1890-91.	1889-90.	1888-89.	1887-88.
ets	\$	\$ cts.	\$ ets.	\$ cts.	\$ cts.	\$ ets.	\$ cts.	\$ ets.	\$ ets.
)0 0)0 0	$217,60 \\ 11,20$				92,784 00	32,003 00			28,383 00
1 5 0	40,34				4,845 00	16,300 00			• • • • • • • • • • • • • • • • • • • •
							,		• • • • • • • •
	,	• • • • • • • • • • • • • • • • • • • •	34,580 00	Į			4,366 00		20,573 57
50 O	50,46				18,960 00	10,684 37	••••	1,387 06	18,428 57
58 9	285,95	233,198 95					26,360 00	9,000 00	3,000 00
)O O	37,50					1,600 00	9,761 22		26,138 78
50 0	645,95			21,150 00	54,830 00	82,770 00	74,300 00	163,216 00	249,684 00
0 00	51,20							19,200 00	32,000 00
	14,65 15,36	· · · · · · · · · · · · · · · · · · ·						3,520 00	14,656 00 11,840 00
90 0	256,00					6,000 00	189,200 00	800 00	60,000 00
36 0	287,93	92,096 00		13,435 00	5,105 00	136,000 00	12,428 00	13,815 00	15,057 00
)O O	105,20				12,800 00	47,400 00		45,000 00	•••••
30 O	41,28					1.500 00	20.080 00	19.700.00	
00 0	54,40 46,00								
									• • • • • • • • •
	21,88 155,20							63,900 00	
<i>,</i> 0 0	100,20						21,300 00	03,300 00	• • • • • • • • •
	338,73 58,90		220,331 00				11,900 00 4,250 00	106,500 00 54,650 00	• • • • • • • • • •
)O O	38,40			· · · · · · · · · · · · · · · · · · ·		11,760 00		26,640 00	• • • • • • • • • •
	30,00 5,55							30,000 00 5,553 57	• • • • • • • • • • • • • • • • • • •
)O O	230,70				8,300 00	3,300 00	219,100 00		
	39,85					10,450 00	29,400 00		• • • • • • • • • •
	13,60				 	3,800 00	9,800 00	. ,	• • • • • • • •
00 0	24,40		14,000 00				10,400 00		••••
	96,60 375,00	30,400 00			58,600 00	143,400 00	65,600 00 173,000 00		

APPENDIX No. 3.—Statement showing Subsidies voted for Railways

			es voted.	- Railways.				
Aut	thorit	у.	Amount.		1883-84.	1884-85.	1885-86.	188687
			\$ c1	s.	8	\$		\$
50-1 V				Brantford, Waterloo and Lal Erie Railway, Ontario	с е	j		
57-8 51	do do	4 3		(Port Arthur Duluth and Wes	t	!	į.	l
53	do	3 2		ern Railway, Ontario	• .			
50-1 53	do do	$\frac{24}{2}$	1	Montreal and Ottawa Ry., Ontari				
54-5 57-8	do do	8 4	192,000 0	Montreal and Ottawa Ry., Ontari	0			
50-1	do do	$24 \over 3$	14 800 0	Cornwallis Valley Railway, N.S			 	
52	do	3		Olttawa and Gatineau Railwa	y,			
57 -8	do	6	64,000 0	Quebec				
51 52	do do	3	6 149 400 0					
53	do	2 4	142,400 0 48,000 0	1 4				
57-8 53	do do	2	361,270 0		u			
52	do	3	128,000 0	Parry Sound Colonization Ry, On	t			
57-8 52	do do	4 3	$64,000 \ 0$ $163,200 \ 0$					
54-5	do	8	89,600 0) ()	1	i	1	1
53 55-6	do do	2 5	35,200 0 9,600 0		1	1	i	l .
53	do	5 2 2	112,000 0	Columbia and Kootenay Ry., B.C	• .			
53 53	do do	2	35,200 0 99,200 0	Orford Mountain Ry Que				
ნა 53	do	$\frac{2}{2}$	57,600 0					
55-6	do	5 3	25,024 0 24,439 8		• • • • • • • • •			
51 55-6	do do	5	40,000 0	New Glasonw Iron, Coal and Ky	1	1	ì	1
			1	N.S				
56 57-8	do do	2 4	102,400 0 102,400 0	Onited Counties Ry., Que				
55-6	do	5	21,600 0	Philipsburg Junction Ry. Quart	·y		}	}
55-6	do	5	430,400 0	Co., Que & Parry Sour	ıd			
		-	,	Ry., Ont.				
56 55-6	do do	2 5	67,200 0 48,000 0					
57-8	do	4	48,000 0	L'Intollilele and Megannic Ity., &				
56	do	2	48,000 0	Grand Trunk, Georgian Bay an Lake Erie Ry., Ont	ia	1]	
55-6	do	5	80,000 0	Canadian Pacific Ry Revelstoke	to	1	1	
57-8	do	4	121,600 0	Arrow Lake, B.C				
55-7	do	5	89,600 0	Dominion Coal Co., N.S				
					208 000	403 245	2,171,249	1 406 53
37	do	14	1,525,250 0	Canada Central Ry				
1 6	do	2	25,000,000	·				
44 47	do do	8	}1,500,000 0					
48-9	do	58	∫1,000,000 U	Western Counties Ry				
				Western Countries by				

This return does not include the Atlantic and North-western Railway.

us to which contracts have been entered into, &c. - Concluded.

tal	Tota to 30th												nients.	Pay			!
	189	4-95.	189	-94.	1893	93.	1892-	92.	1891-	-91.	1890-	.90 .	1889-	-89.	1888	-88	1887
cts	\$	cts.	\$	cts.	8	cts.	8	cts.	\$	cts.	*	cts.	*	cts.	\$	cts.	\$
810 0	52,8	. 								190 00	16,1	20 00	36,6				• • • • •
200 0	271,2					5 00	114,12	5 00	70,07	00 00	87,0					•••	• • • •
600 0	73,6			10 00	23,64		••••)60 00	49,9						• • • • •
800 0	44,8			••••	•	· 		0 00	2,13	370 00	42,6			, 			••••
128 0	284,1	. 		7 6 0 0	53,37	00	104,38	0 00	38,79	582 0 0	87,8			· · · ·			••••
251 5	159,2	• • • • • •		••••			· · • · ·	2 54	83,61	39 00	75,6						••••
270 00 000 00	361,2 128,0	780 00	68,	36 00	119,48	3 00 0 00	133,38 28,82		32,25 30,40	43 00	76,1						••••
200 0	163,2	300 00	:	ю 00	64			0 00	162,26								•••
016 0	134,0	• • • • • •		1 54	19,34	4 46	41,67	0 00	73,00	• • • •						••••	••••
800 00 800 00 800 00	32,8	• • • • • •		00 00	52,80			0 00	88,80 32,80 32,00								••••
001 60 439 84	65,0			ļ	-	3 00	24,44	6 00	40,25 24,43								••••
400 00	38,4	!		64 16	5,45	5 84	32,94]					• • • •				
701 18	131,70	728 15	42,	73 00	88,97					•••••	• • • • •				• • • • •		• • • • •
600 00	21,6	912 00	2,9	38 0 0	18,68				• • • • • • •	• • • • • •	• • • • • •						••••
400 00 200 00		280 0 0 200 00			101,12 32,00								;		• • • • • • • • • • • • • • • • • • •		••••
600 00		400 00		00 00			••••				 .				• • • • •		••••
744 00	39,74	744 00	39,7		· • • • • • •			• • • •					••••				••••
000 00 760 00	28,00	000 00 760 00	28,0		· · · · · · ·	• • • •									• • • • • •	٠	••••
760 00 000 00		000 00	32,0												• • • • •	• • •	• • • • •
	12,487,1	949 10	1,123,	35 10	1,043,2	4 07	624,79	5 93		L05 87	1,079,	95 72	1,491,5	21 83	846,7	1192	,027,0
	1,525,2	• • • • • •	• • • • •				• • • • •	• • • •		• • • • •			••••		• • • • • •	• • •	٠
	25,000,0 1,500,0	• • • • • •		• • • •		• • • •		• • • •		• • • • •		• • • •	• • • • • •	• • • • •		•••	
,000 OC	,										• • • • • •						
	41,012,3														• • • • • •		

LEONARD SHANNON, Accountant.

APPENDIX No. 4.

DEPARTMENT OF RAILWAYS AND CANALS,

OFFICE OF THE CHIEF ENGINEER,

OTTAWA, 30th September, 1895.

Sir,—I have the honour to submit my annual report for the fiscal year ended 30th June, 1895, covering, however, works of construction up to the present date;

accompanying it are the following:-

First.—The annual report of the General Manager of the Government Railways, attached to which are the reports of the Chief Engineer and Mechanical Superintendent of the Intercolonial Division, and the report of the Superintendent of the Prince Edward Island Division, with statements of accounts prepared by the Accountants of these roads.

Second.—The annual reports of the Superintending Engineers of the several

canals, and of the Inspector of Canals Revenue.

Third,—A statement of the condition of the subsidies granted in aid of the construction of railways: also a list of Railway Subsidy Acts.

Fourth.—Statement of contracts entered into during the year, prepared by Mr.

Doull.

Fifth.—Statement of water powers and other public property leased by the department during the year, prepared by Mr. Doull.

Sixth.—Statement of property purchased or damaged during the year, prepared

by Mr. Doull.

Seventh.—Agreements respecting subsidies in aid of construction of railways entered into during the year, prepared by Mr. Doull.

Eighth.—The canal statistics for the season of navigation of 1894, compiled by

Mr. Devlin.

Ninth.—The railway statistics for the year ended 30th June, 1895, compiled

by Mr. Ridout from returns prepared by the railway companies.

Tenth.—A paper read by the Honourable Sir Charles Tupper, High Commissioner for Canada, before the International Railway Congress, on railway progress in the Dominion, and its beneficial effect on the economic development of the country.

The following table shows the length of the Government railways in operation on the 30th of June, 1895:

INTERCOLONIAL DIVISION.

INTERCODOTIAL DIVIDION.	
Miles.	Total miles.
Chaudière Junction to Halifax 678	1111001
Moneton to St. John 89	
Truro to Sydney 217	
Oxford Junction to Pictou 70	
Chaudière Junction to Lévis 8	
Lévis to St. Charles Junction via Harlaka 14	
Dalhousie Junction to Dalhousie 7	
Derby Junction to Indiantown	
Painsec Junction to Indiantown	
Pugwash Junction to Pugwash 5	
Stellarton Junction to Brown's Point 12	
North Sydney Junction to North Sydney 5	
New Glasgow to Pictou Landing 7	
Dartmouth Branch 5	

	FREIGHT	Branches.		_
			Miles.	Total miles.
Brought forw	ard	***************************************	•••	1,142
Rivière du Loup Wha	rf Branch	1	4	,
Rimouski	do	*******	f 2	
Newcastle	do	************	2	
Dorchester	do	****** * ****************	1	
Courtney Bay	do		1	
Sackville	do		<u>1</u>	
Stewiacke	do		1	
Halifax Cotton Factor	ry Branch	1	1	
				$12\frac{1}{2}$
Total length of th	e Interco	olonial Railway	•••••	1,1541
_		•		, -
v	VINDSOI	R BRANCH.		
Windsor Junction to	Windsor		·····	32
PRINCE E	EDWARD	ISLAND DIVISI	ON.	
Souris to Tignish Mount Stewart to Geo	orgetown.		168 24	
Charlottetown to Roys Emerald Junction to C	alty Junc	tion	5	
Alberton to Cascumpe				
22.0020011 to oasoumpe				211
Total length of	Governm	ent railways		${1,397\frac{1}{2}}$

The result of the year's operations of the Government railways may be stated as follows:—

Name of Railway.	Mileage in operation.	<u> </u>	Amount.	Profit.	Loss	
			\$ cts.	\$ cts.	\$ cts.	
Intercolonial Division	1,142	Earnings	2,940,717 95 2,936,902 74			
Windsor Branch	32	d earnings	39,077 64 14,640 07	3,815 21		
Prince Edward Island Division	211	Earnings	149,654 78 232,905 19	24,437 57		
				• • • • • • • • • • • • • • • • • • • •	83,250 41	
		Deduct profit from loss .		28,252 78	83,250 41 28,252 78	
Total miles	1,385	Net loss	••••		54,997 63	

The maintenance of the road and rolling stock has received careful attention and both road and rolling stock are in efficient condition, the business of the road has been closely looked after as is evident by the results of the operations for the year, given above.

The gross earnings of the Government railways for the last two years compare as follows:—

	1893-94.	1894-95.
Intercolonial Division Windsor Branch Prince Edward Island Division	\$ cts. 2,987,510 27 32,975 47 158,533 83	\$ cts. 2,940,717 95 39,077 64 149,654 78
Total	3,179,019 57	3,129,440 37

Showing a decrease in the gross earning of \$49,579.20

The gross working expenses of the Government railways for the last two years compare as follows:—

	1893-94.	1894-95.
Intercolonial Division Windsor Branch Prince Edward Island Division	\$ cts. 2,981,671 98 17,645 09 226,891 06	\$ cts. 2,936,902 74 14,640 07 232,905 19
Total	3,226,208 13	3,184,448 00

Showing a reduction in working expenses for the year, compared with the previous year, of \$41,760.13, which is made up of the following:—

	1009.04	100.00	Difference.			
	1893-94.	1894-95.	Increase.	Decrease.		
Locomotive power. Car expenses. Maintenance of way and works. Station expenses.	\$ cts, 1,139,245 50 710,681 32 774,183 33 395,972 08	\$ cts. 1,108,697 53 685,164 28 795,707 76 397,251 45		\$ ets. 30,547 97 25,517 04		
General charges	3,226,208 13	3,184,448 00	22,803 80	8,488 92 64,553 93 22,803 80		
Net decrease				41,750 13		

INTERCOLONIAL DIVISION.

The ocean-borne traffic both in passenger and freight via the port of Halifax shows a decrease for the winter season of 1894-95 as compared with the previous winter season, as will be seen by the two following statements:—

COMPARATIVE STATEMENT of ocean-borne passenger business done at the port of Halifax during the winter seasons of 1893-94 and 1894-95.

Name of Steamer.	1893-94. No. of Passengers.			Name of Steamer.	1894-95. No. of Passengers.			
	1st Class.	2nd Class.	Total.		1st Class.	2nd Class.	Total.	
Carthagenian	7	273	280	Carthagenian	4	45	49	
Oregon	37	273	310	Oregon	41	327	378	
Markomonia	9	41	50	Numidian	58	457	515	
Numidian	52	436	488	Labrador	77	344	421	
Stubbenkerk	Nil.	255	255	Assyrian	10	210	220	
Labrador	65	667	732	Mongolian	32	168	200	
Assyrian	7	33	40	Vancouver	52	458	510	
Gremin	Nil.	225	225	Corean	Nil.	15	15	
Mongolian	27	290	317	Laurentian	25	253	27	
Lake Winnipeg	11	334	345	Pomeranian	3	69	7	
Vancouver	34	342	376	Parisian	12	279	29	
Corean	_1	42	43	Sarnia	18	126	14	
Laurentian	15	240	255					
Lake Ontario	16	144	160			ļ		
Lake Superior	6	132	138			ļ	1	
Lake Nepigon	1	43	44			İ	İ	
Pomeranian	4	55	59					
Parisian	22	423	445	1			ĺ	
Sarma	13	420	433	1			i	
Total	327	4,668	4,995	Total	332	2,761	3,09	

Of the 4,495 passengers in 1893-94, 3,303 travelled via St. John by the Canadian Pacific Railway and 1,692 travelled via Chaudière by the Grand Trunk Railway.

Of the 3,093 passengers in 1894-95, 1,746 travelled via St. John by the Canadian Pacific Railway, and 1,347 travelled via Chaudière by the Grand Trunk Railway.

COMPARATIVE STATEMENT of ocean-borne freight traffic during the winter seasons of 1893-94 and 1894-95.

	Wint	ER OF 18	93–94.		WINTER OF 1894-95.		
Name of Line of Steamers.	Measure- ment tons.	Weight tons.	Total tons.	Name of Line of Steamers.	Measure- ment tons.	Weight tons.	Total tons.
Allan Line from Liver- pool	2,280	1,536	3,816	Allan Line from Liver- pool	1,903	1,997	3,900
from Liverpool	134	360	494	verpool	547	348	895
Furness Line from Lon-	1,183	817	2,000	Canada & Newfoundland from Liverpool	82	223	305
Dominion Line from Liverpool	673	133	806	Furness Line from London Donaldson Line from	1,022	457	1,479
Glasgow Hansa Line from Ant-	10	213	223	Glasgow	1,252	1,836	3,088
werp Beaver Line from Liver-	1	Nil.	1	Hansa Line from Ant- werp Beaver Line from Liver-	Nil.	Nil.	Nil.
poolpool	101	121	222	pool	Nil.	Nil.	Nil.
		}		Société Columba Belge de Navigation	12	243	255
Total	4,382	3,180	7,562	Total	4,818	5,104	9,922

The above statement shows an increase of 2,360 tons of ocean-borne freight traffic for the winter season of 1894-95 over the winter season of 1893-94, a result somewhat unexpected, the destruction by fire of the wharfs and warehouses at the deep water terminus and at Richmond in the city of Halifax, having led to the anticipation that the traffic would be directed to some other port. However, the temporary arrangements made by the Honourable Minister of Railways and Canals for the accommodation of the ocean-borne freight arriving at and departing from the port of Halifax were such as to obviate inconvenience as far as possible, and the traffic was carried on with fairly good despatch under the circumstances.

The railway property destroyed by fire at the deep water ocean terminus at Halifax on the 27th February, 1895, consisted of:—

Wharf	\$72,000
Freight house	
Elevated coal trestle	
Grain elevator	85,000
Pile driver	600
Freight cars	5,600
Tracks	
Trucks, gangways, offices, &c	1,000
Emigrant sleeper shed	
Total	\$202 100

The railway property consumed by fire at the deep water ocean terminus at Richmond, Halifax, on the 19th of May, 1895, consisted of:—

Wharf	
Coal trestle	
Cattle shed	
Freight shed	7,000
36 cars	5 900

The following is a statement of the quantity and classes of the rolling stock purchased on capital account up to the 30th June, 1895:-

Total \$92,900

		Passenger Car Stock,				ns.			8.				ls.	
	Engines.	Sleeping and Parlour.	1st Class.	2nd Class Sleeping.	2nd Class.	Baggage and Mail,	Conductors' Vans.	Box and Cattle Cars.	Platform Cars.	Coal Cars of three several kinds.	Snow Ploughs.	Wing Ploughs.	Flangers.	Rotary Snow Ploughs.
	204	15		7	94	1	99	2,071	2,209	999	44	10	21	2
		5				39		103		418 				
Total	204	20	92	7	94	63	99	2,174	2,209	2,185	44	10	21	2

The following is a statement of the quantity and classes of rolling stock which have been rebuilt during the year ended 30th June, 1895, at the cost of revenue to maintain the stock:—

	Pass	Passenger Car Stock.			ans.			8	g					
	Engines.	1st Class Sleeping and Parlour.	1st Class.	2nd Class Sleeping.	2nd Class.	Baggage and Mail.	Conductors' Va.	Box and Cattle Cars.	Platform Cars.	Coal Cars of thre several kinds.	Snow Ploughs.	Wing Ploughs.		Rotary Snow Plough
	6		5			4			42	78	8			

The following table shows the working expenses, gross earnings, the tonnage of freight and number of passengers carried each year since 1st July, 1876, when the road was first opened as a through line to the west:—

Year.	Average Miles in Operation.	Working Expenses.	Gross Earnings.	Profit.	Loss.	Tons of Freight carried.	No. of Passengers carried.
		\$ cts.	\$ cts.	\$ cts.	\$ ets.		
1891–92 1892–93	1,142 1,142	1,661,673 55 1,816,273 56 2,010,183 22 1,603,429 71 1,759,851 27 2,069,657 48 2,360,373 27 2,377,433 62 2,519,751 56 2,583,999 67 2,922,369 67 2,922,369 67 3,366,781 74 3,660,575 74 3,660,575 74 3,660,575 74 3,660,575 74 3,439,377 00 3,045,317 50 2,981,671 92 2,981,671 92 2,981,671 92	1,154,445 33 1,378,946 78 1,294,009 69 1,506,298 48 1,760,393 92 2,079,262 66 2,370,910 10 2,384,414 92 2,441,203 66 2,450,093 88 2,660,116 93 2,983,336 05 2,967,801 00 3,012,739 87 2,977,395 38 2,945,441 97 3,065,499 09 2,987,510 27 2,987,510 27 2,987,510 27 2,940,717 95	542 65 9,605 18 10,547 83 6,981 30 20,181 59 5,838 29 3,815 21	78,547 90 133,905 79 262,252 69 276,846 73 547,835 87 684,946 56 493,935 03	421,327 522,710 510,861 561,924 725,777 838,956 970,961 1,009,237 989,936 1,023,788 1,143,020 1,288,823 1,218,877 1,368,819 1,304,534 1,264,575 1,388,080 1,342,710 1,342,710	613,420 618,957 640,101 581,483 631,245 779,994 878,600 944,636 957,228 932,880 942,784 1,040,163 1,136,272 1,219,233 1,298,304 1,297,732 1,292,878 1,301,062 1,352,667

The following table shows the number of tons of coal carried over the Intercolonial Railway from the Nova Scotia collieries to Chaudière Junction and St. John for points west thereof, and to local stations in each year since the commencement of the trade in 1878-79:—

	For th	e West.	To Local		
Year.	Via Chaudière.	Via St. John.	Stations.	Total.	
1876-77. 1877-78. 1879-79. 1879-80. 1880-81. 1881-82. 1882-83. 1883-84. 1884-85. 1885-86. 1886-87. 1886-87. 1887-88. 1888-89. 1889-90. 1890-91. 1891-92. 1892-93. 1893-94. 1893-94.	300 1,097 6,102 18,015 12,837 22,014 133,440 171,170	4,022 11,779 22,206 19,534 1,773 21,150 27,536 36,228 27,923 25,126 39,213 5,918 3,775 8,028 7,865	103, 420 97,043 112,232 135,369 174,483 218,364 227,380 252,014 213,791 215,272 233,178 309,727 338,538 366,967 344,829 392,441 402,653 367,390	103,420 97,043 112,532 136,466 184,607 248,158 262,423 349,004 407,592 453,585 529,659 526,487 556,546 498,038 433,806 543,296	

It thus appears that the largest tonnage of coal carried over the road for the west was in the year 1886-87, when it reached 220,407, since which the through coal traffic for points west of the Intercolonial Railway has been on the decline.

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.

i	Bush	iels.			Bush	els.	
Year.	Via Chaudière.	Via St. John.	Total.	Year.	Via Chaudière.	Via St. John.	Total.
				Brought forward	794,423		794,42
876-77 1877-78 1878-79 1879-90 1880-81 1881-82 1881-82 1882-83 1883-84 1884-85 1885-86				1886-87 1887-88 1888-89 1889-90 1890-91 1891-92 1892-93 1893-94 1894-95	575,880 69,021 129,725 502,012 148,803 745,997 155,306 Nil. Nil.	69,534 519,500 197,669 8,026 Nil.	575,88 69,02: 129,72: 502,01: 218,33: 1,265,49: 352,97: 8,02: Nil.

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 1877-78 1878-79 1879-80 1880-81 1881-82 1882-83 1882-83 1883-84 1884-85 1884-85	254,710 657,778 630,329 533,248 672,310 692,095 983,916 817,134 935,977 761,127	1886-87. 1887-88. 1888-89. 1889-90. 1890-91. 1891-92. 1892-93. 1893-94. 1894-95.	763,894 871,838 948,514 1,116,650 1,013,129 954,015 856,913 944,967 938,351

TABLE showing the number of bushels of grain carried during each year since the road was first opened as a through line to the west.

Year.	Bushels.	Year.	Bushels.
1876-77 1877-78 1878-79 1879-90 1880-81 1881-82 1882-83 1882-83 1883-84 1884-85 1884-85	292,852 331,170 302,921 534,021 565,678 560,253 1,195,601 654,673 734,902 849,800	1886-87. 1887-88. 1888-89. 1889-90. 1890-91. 1891-92. 1892-93. 1893-94. 1894-95.	1,018,395 1,219,035 1,526,158 2,610,202 2,890,921 3,776,677 1,514,619 1,304,684 1,036,384

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 1878-79 1879-80 1880-81 1881-82 1882-83 1883-84 1884-85 1884-85	56,626,547 55,626,696 55,462,654 72,841,388 78,356,418 104,633,417 131,120,948 138,493,675	1886-87 1887-88 1888-89 1889-90 1890-91 1891-92 1892-93 1893-94 1894-95	161,801,763 197,755,272 199,507,777 210,886,071 184,188,324 175,474,340 181,211,013 200,507,949 202,247,269	

Table showing the number of live stock carried during each year over the road since it was first opened for traffic as a through line to the west.

Year.	Number.	Year.	Number.
1876 -77 1877 -78 1878 -79 1879 -80 1880 -81 1881 -82 1882 -83 1883 -84 1884 -85 1885 -86	34,414 46,498 47,584 70,990 61,574 73,479 68,338 60,090 70,785 74,498	1886-87. 1887-88 1888-89. 1889-90. 1890-91. 1891-92. 1892-93. 1893-94. 1894-95.	82,896 98,302 85,960 86,771 95,529 87,889 93,369 79,203 72,106

Table showing the number of tons of ocean-borne goods to and from Europe, via the port of Halifax, carried over the road during each year since it was first opened for traffic as a through line.

Year.	Via Chau- dière to and from the West.	Via St. John to and from the West.	To and from local Stations.	Total.
	Tons.	Tons.	Tons.	Tons.
1876-77 1877-78			3,405	18.354
1878-79	21,628		2,643	24,271
1879-80			4,952	26,025
1880–81			3,334	18,788
1881-82	21,607		4,168	25,775
1882-83	24,875		7,911	32,786
1883-84			6,533	26,229
1884-85		• • • • • • • • • • • • •	8,405	31,192
1885-86	10,000	····	8,216	21,680
1886-87	41 004		9,811 8,878	26,734
1887-88	17,340			50,742
1888-89	0.00=		11,481 11,730	28,821 21,625
	0,000		10,764	20,687
1890-91		17	23,835	33,571
1892-93		100	12,319	19,714
1893–94	0,000	204	13,455	16,682
1894-95		213	10,399	17,361

TABLE showing the number of tons of raw and refined sugar carried over the road during each year since it was first opened as a through line.

	\$	Raw Sugar.				Refined Sugar.				
Year.	To Chaudière for the West.	audière St. John for		Total.	To Chaudière for the West.	To St. John for the West.	To Local Stations.	Total.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.		
876-77	340	·		340						
377-78	186			186	l					
878-79	1,041			1,041	[
879-80	12,220			12,220	4.000	•••••	0.000			
880-81 881-82	13,872 14,256	· · · · · · · · · · · · · · · · · · ·	1,290	$13,872 \\ 15,546$	4,022 7,146	• • • • • • • • • • •	2,902	6,92		
882-83	9,465		508	9,973	11,126		3,607 5,497	10,75 $16,62$		
883-84	13,778		3,068	16.846	14,543		7,265	21,80		
884-85	10,381		3,661	14.042	18,024		8,445	26,46		
885-86	4,394		3,998	8,392	7.660		5,858	13,51		
886–87	20,450		8,500	28,950	15,044		8,395	23,43		
387-88	14,320		14,085	28,405	21,641		7,133	28,77		
388-89	24,358		7,160	31,518	12,955		11,120	24,07		
389-90	7.390		8,913	16,303	6,778		6,125	12,90		
390-91	5,088	4,670	8,215	17,973	10,130	468	5,996	16,59		
891-92		3,960	10,535	21,637	12,633	7,674	12,414	32,72		
892-93 893-94	Nil. Nil.	Nil.	10,137	10,137	8,327	6,456	7,840	22,63		
894–95	Nil.	Nil. Nil.	$6,775 \\ 10,342$	$6,775 \\ 10,342$	17,729 13,351	6,967 $15,819$	8,885 4,695	33,58 33,86		

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.		
876-77	530	921	527	1,978	551	1.848	802	3,20		
877-78	596	1,015	474	2,085	898	1,644	805	3,34		
1878-79	471	1,336	817	2,624	988	1,038	1,048	2,97		
1879-80	519	1,362	453	2,334	1,612	2,238	959	4,80		
880 81	498	1,879	920	3,297	2,418	937	1,051	4,40		
881-82	475	1,619	957	3,051	4,031	1,066	2,487	7,58		
882-83	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		
884-85	1,062	1,885	484	3,431	3,563	3,600	1,596	8,75		
885-86	1,669	1,645	902	4,216	1,680	2,047	3,376	7,10		
886-87	1,278	1,572	2,008	4,858	3,236	569	1,747	5,55		
887-88	1,533	1,477	1,031	4,041	2,617	476	1,099	4,19		
888-89	2,474	2,000	1,870	6,344	3,070	7,746	2,994	13,81		
889-90	2,235	1,787	2,111	6,223	2,449	847	3,288	6,58		
890-91	2,029	2,788	1,848	6,665	1,953	1,917	3,236	7,10		
891-92	1,367	1,746	547	3,660	1,946	928	1,889	4,76		
892-93	1,683	1,875	3,340	6,898	3,262	1,811	2,176	7,24		
893–94	1,959	2,192	2,224	6,375	2,921	1,814	2,962	7,69		
894-95	2,006	3,726	1,160	6,892	2,075	1,849	5,285	10,20		

Twenty-five miles of the 56-lb, steel rails have been lifted and replaced at the cost of revenue by 2,632 tons of 67-lb, steel rails, and 261,424 ties have been renewed.

CAPITAL ACCOUNT.

Total cost of road and equipment up to 30th June, 1895:-

Road, &c Rolling stock	\$47,210,331 7,797,607	59 81
Total	\$55,007,939	40

The section of the Dartmouth Branch between Tufts Cove and Richmond crossing the narrows of the Halifax harbour, has been abandoned and the branch is being extended to connect with the Trunk Line at Windsor Junction, a distance of 11½ miles.

The freight yard and warehouse accommodation at Halifax being too limited for the local traffic, and being at an inconveniently long distance from the centre of the city, increased yard and warehouse accommodation is being provided on the east side of Water street at deep water terminus. The greater part of the addition to the capital account during the year is attributable to these two works.

Both the road and rolling stock have been maintained in a high state of

efficiency.

WINDSOR BRANCH.

This road is continued to be operated by the Dominion Atlantic Railway Company, formerly the Windsor and Annapolis Railway Company, the company receiving two-thirds of the gross earnings for working the traffic, and the Government one-third of the gross earnings for maintaining the way and works.

Three miles of old iron rails have been lifted and replaced by steel rails of 56 lbs. to the yard, and it is believed that after the renewals of rails are made in 1895-96, no further road renewals will be required during the following year.

Table showing the earnings and its division between the Windsor Branch and the Main Line of the Intercolonial Railway between Windsor and Halifax, the maintenance expenses and net earnings of the Windsor Branch for each year since 1880.

Year.	Miles in Opera- tion.	One-third Gross Earnings.	Proportion of one-third Gross Earn- ings credited to Line Wind- sor Junction to Halifax.	Proportion of one-third Gross Earn- ings credited to the Wind- sor Branch.	Maintenance Expenses.	Profit.	Loss.
	1	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
1880-81	32	28,434 29	7.217 76	21,216 53	20,502 26	714 27	l
1881-82	32	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		30,428 39	7,409 46	23,018 93	22,140 86	878 07	i
1884-85		32,246 30	7,794 95	24,451 35	18,751 96	5,699 39	
1885-86		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		32,242 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		39,544 19	9,381 73	30,162 46	18,982 82	11,179 64	
1890-91	32	39,519 56	9,284 43	30,235 13	28,931 71	1,303 42	. .
1891-92	32	42,891 23	9,382 38	33,508 85	19,514 37	13,994 48	
1892-93	32	43,901 28	9,585 17	34,316 11	16,889 95	17,426 16	
1893-94	32	41,834 70	8,859 23	32,975 47	17,645 09	15,330 38	l
1894-95	32	50,703 84	11,626 20	39,077 64	14,640 07	24,437 57	

PRINCE EDWARD ISLAND RAILWAY.

CAPITAL ACCOUNT.

Total cost of	road and	rolling i	stock up	to 30th	June,	1895 :—	
Road &c	3					\$ 3 291	g

Total....... \$3,750,565 38

The rolling stock provided on capital account consists of :-

	Passenger Car Stock.									
Engines.	1st Class Cars.	2nd Class Cars.	Bag- gage and Smok- ing Cars.	Official Cars.	Box and Cattle Cars.	Platform Cars.	Con- ductors' Vans.	Pay Cars.	Snow Ploughs	Flangers.
			·							
21	17	16	3	. 1	175	125	3	1	8	7

Statement of rolling stock rebuilt during the year—3 platform cars, 1 baggage class car.

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 opened for traffic:—

Year.	Miles in Opera- tion.	Working Expenses.	Gross Earnings.	Loss.	Tons of Freight carried	No. of Passenger carried.
97K 70	100	\$ ets.	\$ cts.	\$ cts.	90.050	00.00
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	111,42
878-79	199	223,313 12	125,855 99	97,457 21	38,668	105,040
879–80	199	164,640 55	113,851 11	50,789 44	37,208	90,533
880-81	199	203,122 88	131,131 43	71,991 45	45,336	102,93
881-82	199	228,259 97	137,267 54	90,922 43	48,315	118,43
882-83	199	252,808 41	146,170 42	106,637 99	51,920	117,16
883-84	199	236,428 13	144,504 12	91,924 01	51,841	118,98
584-85	.1 211	211,207 01	158,588 06	52,618 95	57,346	130,42
580-86	.1 211	216,744 34	155,584 36	61,159 98	57,913	120,37
586-87	. 1 • 211	204,237 37	155,303 37	48,934 00	53,589	103,06
887-88	. 211	229,639 95	158,363 62	71,276 33	59,603	131,24
58889	1 211	247,559 44	171,369 56	76,189 89	55,682	152,78
889-90	211	266,485 85	160,971 78	105,514 07	51,604	133,09
890-91	. 211	257,990 08	174,258 05	83,732 03	59,511	145,50
891–92	. 211	289,706 38	157,442 69	132,263 69	51,065	139,38
892-93	. 211	226,422 17	162,690 42	63,731 75	56,718	132,11
893-94	. 211	226,891 06	158,533 83	68,357 23	53,577	123,72
894–95	211	232,905 19	149,654 71	83,250 41	48,325	125,08

Twelve and three-quarter miles of old iron track were renewed with steel rails weighing 50 lbs. to the yard, so that the track now stands:—

Miles.

Steel rails (50 lbs. to yard)	113 3 97‡
Total length of road	211

One thousand tons of 50-lb, steel rails have been delivered for renewals of track in 1895-96.

The road and rolling stock are in good running condition.

CAPITAL ACCOUNT.

CANADIAN PACIFIC RAILWAY,

I have recently made a trip over the Canadian Pacific Railway from Ottawa to Vancouver, and viewed the work done, and in course of execution under the arbitrators award.

On the division between Savona's Ferry and Emory's Bar, the work is advancing very slowly, but marked improvements in the permanency of the works are observable, and upon the section between Lytton and Spence's Bridge the alignment of the road has been greatly improved, and the amount of the award is being faithfully and profitably employed.

The total award of the arbitrators in favour of the Canadian Pacific Railway Company was	20
The following statement shows the progress made with the work from time to time:	

Amount of work done previous to date of award, July, 1891....... \$202,675 20

Amount of work since done:

From July, 1891, to February, 1892	11,966 69
In February, 1892	188 15
March "	9,160 77
April "	16,674 16
May	16,010 86
June "	21,696 89
July "	21,907 10
August "	19,477 77
September "	21,182 75
October "	22,278 71
November "	12,349 29
December "	4,772 04
January, 1893	6,183 40
February "	3,873 20
March "	4,014 85
April "	10,815 33
May ' "	10,445 76
June "	8,329 18
July "	6,269 49
August "	7,889 02
September "	11,954 28
October "	9,398 85
November "	1,920 40
December "	Nil
January 1894	\mathbf{Nil}
February "	84 37
March "	2,026 64
April "	6,108 73
May "	8,455 57
June "	
July "	4,702 91
August "	8,919 75
September "	6,352 62
October "	4,932 97
November "	282 18
December "	212 06

Brough	nt forward	\$504,127	29	\$579,255	20
	5			•	
February "		Nil			
March "		Nil			
April "		390	56		
May "		1,387	77		
June "					
July "		4,689	27		
August "		7,615	10		
September "		8,885	20	531,452	42
Value of balance of w	ork remaining to be do	ne	••••	\$ 47,802	78

Apart from this expenditure, I observed throughout the entire line improvements which are being steadily made by the Canadian Pacific Railway Company, giving to their road a solid and permanent character.

The damages caused to the road-way by the freshet in the Fraser and Thompson Rivers in the spring of 1894, have been repaired and the road throughout is in an

excellent state of efficiency.

With heavy crops in the north-western section of the country, a large increase in the live stock production for export, the marvellously rapid development of mines in British Columbia, and the improvement in trade which is visible, I am induced to believe that the future earnings of this railway will considerably exceed those realized in the past.

17,912,273 60 11,282,506 00 \$6,629,767 60 2,892,995 The following are the traffic operations of the Canadian Pacific Railway for each year ended 30th June, since the road first opened 3,720,567 Miles, 6,159. 1894-95. 19,357,098 05 12,447,808 03 \$6,909,290 02 4,014,915 cts. 3,153,340 Miles, 6,094. 1893-94. 20,795,304 66 12,665,587 12 \$8,129,717 54 cts. 3,335,598 4,266,348 Miles, 5,782. 1892-93. 20,789,104 17 12,441,126 28 88,347,977 89 cts. 3,150,684 4,058,575 Miles, 5,537. through to the Pacific Coast, for traffic, in June, 1836:-1891-92. 18,672,174 04 11,538,133 53 \$7,134,040 51 3,675,113 Miles, 5,537. cts. 2,971,774 1890-91. 9,424,166 45 \$6,148,819 17 15,572,985 62 cts. 2,685,730 Miles, 5,086. 3,006,684 1889 - 90. \$4,019,299 76 13,016,611 81 8,997,312 05 cts. 2,457,306 2,636,121 Miles, 4,974. 1888-89. \$3,676,649 74 12,711,010 01 9,034,360 27 cts. 2,135,735 2,321,957 Miles, 4,662. 1887-88. \$3,351,208 82 10,650,254 08 7,299,045 16 2,118,319 cts. 1,949,215 Miles, 4,274. 1886-87. Net revenue. No. Passengers carried..... Earnings..... Tons Freight carried Working expenses. 1

This road with its vigorous management is proving to be an important element in the prosperity of the country and with its branches spreading out north, south, east and west, it is developing sections, which had it not been for the enterprise of the company, might have remained for years to come without the modern facilities for transportation.

CAPITAL ACCOUNT-CANALS.

SAULT STE. MARIE CANAL.

Construction.

The section of this canal embracing the lock and prism was completed and ready for traffic on the 30th June, 1895, but the sections at each end of the canal comprising the two approach channels had not been quite completed at the present date, there being certain obstructions in them.

On the 9th September ultimo, however, both channels were free of obstructions for a depth of 17 feet of water, which enabled the canal to be opened for business on that date. The traffic has since been satisfactorily conducted, and 414 vessels have been locked through, aggregating a registered tonnage of 316,132 tons.

The electrical machinery for opening and closing the lock gates, filling and emptying valves, works quickly and well, the lock being filled in seven minutes and emptied in six minutes, the lock gates being opened in less than a minute, thus giving good despatch to vessels using the canal.

Recently a contract has been entered into with Messrs. Miller Brothers for the erection of general offices and a workshop, and they are now engaged in excavating the

foundations and delivering the materials.

The engineers are still engaged in working up the final estimates for the lock and prism, and also those for the two channel approaches, which, owing to the amount of detail, have taken a long time to prepare.

Appended hereto will be found the report of Mr. William Crawford the engineer in charge, from a perusal of which full information as regards the works can be obtained.

SOULANGES CANAL.

The work on this canal has progressed but tardily during the year, and except on sections Nos. 10 and 13, no masonry has yet been built. The four barrelled 10-foot iron cylindrical culvert carrying the "River Rouge" under the canal on section No. 10 is completed; the double barrelled 10-foot iron cylindrical culvert carrying the "Delisle River" under the canal on contract No. 11 is laid in position, and is concreted over; the single barrelled 10-foot iron cylindrical culvert carrying the "La Graisse River" under the canal on contract No. 8, is laid in and covered with concrete. There was a mishap to this culvert last winter, by which a number of the cylinders were broken, they have been repaired by the contractor at his own expense.

The only other mechanical work of any importance executed up to date, is the construction and erection of the steel superstructure of the bridge carrying the Canada Atlantic Railway over the canal, and under contract No. 13, the masonry piers and abutments of this bridge, the masonry revetment and concrete revetment walls and cribwork at the upper entrance, and on contracts Nos. 1 and 2 the crib

piers at the lower entrance.

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The following statement will give a general idea of the progress made with the work up to the 1st September, 1895:—

K up to the lat population, 1000.	
Sections Nos. 1 and 2.—Archibald Stewart, contractor.	
Approximative value of work under contract	\$818,400 00 340,615 00
Balance	\$477,785 00
Section No. 3.—O'Leary Bros., contractors.	
Approximate value of work under contract	\$191,500 00 130,510 00
Balance	\$ 60,990 00
Sections Nos. 4, 5, 6 and 7.—George Goodwin, contractor.	
Approximate value of work under contract Gross amount of progress estimates up to 1st Sept., '95	\$848,000 00 287,005 00
Balance	\$560,995 00
Section No. 8.—Charles Raynor, contractor.	
	\$240,000 00
Gross amount of progress estimates up to 1st Sept., '95	158,203 00
Balance	8 81,797 00
Section No. 9.—Randelph McDonald, contractor.	
Approximate value of work under contract	\$130,000 00 85,033 00
Balance	\$ 44,967 00
Section No. 10Messrs. Rogers & Taylor, contractors.	
Approximate value of work under contract	\$210,500 00 160,306 00
Balance	\$ 50,194 00
Section No. 11.—Messrs. Poupore, Fraser & Co., contracto	ora.
Approximate value of work under contract	
Gross amount of progress estimates up to 1st Sept., '95	176,412 00
Balance	\$ 78,558 00
Section No. 12.—George Goodwin, contractor.	
Approximate value of work under contract	\$229,000 00
Gross amount of progress estimates up to 1st Sept., '95	36,617 00
Balance	\$192,383 00
Section No. 13.—Randolph McDonald, contractor.	
Approximate value of work under contract	\$480,000 00
Gross amount of progress estimates up to 1st Sept., '95	271,221 00
Balance	\$208,779 u0
w.a.	

Bridge over Canal-Dominion Bridge Company, contrac	tors.
Value of work under contract Final estimate	\$ 10,267 00 10,267 00
Balance	Nil.
Cement—C. J. De Sola & Francis Hyde, contractors.	
Value of cement under contract Final certificate	\$ 39,655 55 39,655 55
Balance	Nil.
Cement-Bellhouse, Dillon & Co., contractors.	
Value of cement under contract	\$ 49,750 00
Gross amount of progress estimates up to 1st Sept., 1895	9,627 00
Balance	\$ 40,123 00
Summary	
Approximate value of work under contract	\$ 3,502,072 00
1895	1,705,501 00
Balance	\$ 1,796,571 00
Based on the above named contracts, the canal is estimated to cost, including land and damages Total payments up to 1st October, 1895	\$ 4,750,000 00 1,899,535 16
Balance	\$ 2,8 5 0,464 84

At the lower entrance to the canal on sections Nos. 1 and 2, there were four locks to be built, each with a lift of 17'6", the superintending engineer suggested that a three-lock system with a lift of 23'4" for each lock would be preferable to the four-lock system, both as regards the cost of construction, maintenance and operation, in which view the chief engineer concurred.

Messrs. Walter Shanley and Thos. C. Keefer were called in as consulting engineers, and after carefully looking into the matter, reported very strongly in favour of the three-lock system in preference to the four-lock system, upon which an Order in Council was passed authorizing the change, which will be made without any increase

in the schedule of prices.

It will probably be three years at least before the canal is completed and ready for traffic, the building of these three locks is the key to the whole, as they will occupy a greater length of time to construct than any other part of the work on the canal remaining to be done.

LACHINE CANAL.

CONSTRUCTION AND ENLARGEMENT.

The works being carried on under the above heading are:-

1. Dredging between the lower entrance to the Lachine Canal and St. Gabriel Basin for 22 feet of water.

2. The deepening of the prism of the Lachine Canal between St. Gabriel and Lachine to a depth of 16 feet.

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3. The widening of the Lachine Canal on the south side and building a crib

breast wall at a point between the Wellington-street Bridge and St. Gabriel.

The dredging between the lower entrance and St. Gabriel is being executed by days' labour with the Government dredge No. 2, the work is progressing favourably, but unless additional dredging power is employed, it will occupy two seasons more to complete the work.

The deepening of the prism of the canal between St. Gabriel and Lachine is under contract with Messrs. McNamee & Mann. They have been working both by

day and night, and are making favourable progress with the work.

The widening of the Lachine Canal on the south side between Wellington Bridge and St. Gabriel, is being executed by the Government dredge, and the cribwork is being built under contract with Messrs. Gaherty & Shearer. The dredging is nearly completed and 100 feet of the cribwork is ready to sink in position.

For full particulars of the operations up to 30th June, 1895, I refer you to the

report of the Superintending Engineer.

LAKE ST. LOUIS.

The cutting of a straight channel 300 feet wide with a depth of 16 feet of water for a distance of about 4 miles is being executed by the Weddell Dredging Co. They have two dredges at work, one of which is a very fine, powerful machine, which handles the rock without blasting and with little difficulty. The other dredge is working in the clay and is doing good service; they have executed work to the value of \$16,818.83 up to the 1st September, 1895. This work will occupy at least two more seasons to complete.

TRENT VALLEY CANAL.

CONSTRUCTION.

The first section of $6\frac{1}{2}$ miles of the Peterborough-Lakefield Division, extending from Lakefield towards Peterborough, is under contract with Messrs. Brown, Love & Aylmer. They commenced work at the beginning of September ultimo, and are making fair progress, but no progress estimates have yet been issued in their favour.

This section is estimated to cost \$420,000.

The surveys and plans for the second section extending from the end of the work under contract with Messrs. Brown, Love & Aylmer to Peterborough, have been completed, and the official land appraisers are about to proceed with their work of valuing.

A contract was entered into with Mr. Andrew Onderdonk for the first section of 6½ miles of the Balsam-Simcoe Lake Division, extending from Balsam Lake towards Lake Simcoe, the cost of which is estimated at \$600,000. The lands have all been valued and the work is now progressing rapidly. The gross amount of the progress estimates up to 1st September, 1895, is \$36,874.94.

The surveys and plans for the balance of the division, about 13½ miles, are far advanced towards completion. On the contract let to Mr. Andrew Onderdonk, there is a lift lock with a lift of about 60 feet, the lift is to be made by an hydraulic ram.

The size of the locks on this canal are to be 134 feet long, 33 feet wide, with 5 feet of water on the mitre sills, and the prism of the canal will be 50 feet wide at bottom, and 53 feet wide at water level.

MURRAY CANAL.

EQUIPMENT.

No work has yet been done towards building lockmasters' houses, store or wharf, &c., for which provision was made by Parliament.

CORNWALL CANAL.

CONSTRUCTION AND ENLARGEMENT.

These works with the exception of the waste weir at the Sheiks Island Dam are fast drawing to a close, and are in such an advanced condition that the Sheiks Island Dam section of the canal will be in a condition to utilize for traffic next spring.

\$	477,429
ounts up to 1st	t October
\$	732,280
• • • • • • • • • • • • • • • • • • • •	432,265
•••	482,943
	104,219
•••••	269,200
• • • • • • • • • • • • • • • • • • • •	47,721
	96,832
	184,736
• • • • • • • • • • • • • • • • • • • •	428,210

FARRAN'S POINT CANAL.

Construction.

No work has yet been placed under contract for its enlargement, but the surveys are completed and plans prepared for the work.

RAPIDE PLAT CANAL.

ENLARGEMENT.

The work on section No. 1 of this canal has made favourable progress, the lock masonry of the lock at Morrisburg being far advanced towards completion, the contractors having completely mastered the difficulties which they had encountered, and which were referred to in my last year's report. The work of widening and deepening the canal on sections 1 and 3 is making fair progress; the work on section No. 2, which was under contract with the Weddell Dredging Company, is completed.

The estimated cost of the enlargement is	1,600,000 1,298,789
Balance \$	301,211

The following is a list of the names of the contractors showing the amounts paid to each up to 1st October, 1895:—

Section	No. 1, Poupore & Fraser & Co	\$ 509,450
do	2, Weddell Dredging Co	198,534
do	3, Poupore, Fraser & Co	180,150
do	4, Wm. Broder	
	"Motol	e 1 150 975

GALOPS CANAL.

ENLARGEMENT.

Messrs. Murray & Cleveland, the contractors for the work on the first $1\frac{1}{2}$ miles at the upper entrance of the canal, embracing the building of two locks, a weir and the deepening and widening of the prism, are the only persons carrying on works of enlargement on this canal, at the present time.

The work under this contract should be completed in the season of 1896. The lift lock and guard lock are completed, and the weir is nearly finished, but there

remains about a season's work in dredging to be done.

With a view to facilitating navigation on this section of the St. Lawrence River, the Honourable Minister has given instructions to, at once, have the mitre sill removed from the old guard lock and the dredging to be done at the points necessary to enable vessels to use the new lock.

The estimated cost of this section of the enlargement is.\$ Amount paid up to 1st October, 1895	
Balance\$	197,576

The contractors' names and the amounts paid them up to 1st October, 1895, are as follows, viz.:—

William Allan	
Total	\$1,219,322

GALOPS RAPID IMPROVEMENTS.

These works remain untouched since my report of last year.

Names of contractors who performed the work and amounts paid up to 1st October, 1895:—

Wm. Davis & Sons E. Gilbert & Sons		
Total	8	649,629

There remain from 2,000 to 3,000 cubic yards of rock in the channel which require moving to give a clear navigation for 14 feet draught or 17 feet depth of water.

NORTH AND SOUTH CHANNELS.

-No steps have yet been taken towards straightening and deepening either of these channels.

ST. PETER'S CANAL.

No work on capital account has been undertaken on this canal during the year ended 30th June, 1895.

CANALS.

OPERATION AND MAINTENANCE-GENERAL.

The canals have been operated throughout the year without any serious delay to traffic, and the necessary repairs have been executed to maintain them in efficient working condition.

STATEMENT showing the dates of closing and opening of Canals.

	Closed.		Opened.	
30th 8th 10th 11th 30th 26th 25th 30th 19th 26th 23rd 24th 30th	November, December, December, November, November, November, November, November, November, November, November,	1894 1894	23rd April, 1895. 20th April, 1895. 1st May, 1895. 15th April, 1895. 27th April, 1895. 29th April, 1895. 27th April, 1895. 27th April, 1895. 26th April, 1895. 21th April, 1895.	to date

STATEMENT showing the dimensions of the Locks of the Canals.

	EXISTING SYSTEM. UNDER CONSTRUCTION.						ON.	
Name of Canal.	No. of Locks.	Length.	Width.	Depth of water on mitre sills.	No. of Locks.	Length.	Width.	Depth of water on mitre sills.
		Ft.	Ft. in.	Ft. in.		Ft.	Ft. in.	Ft. in.
Lachine. Beauharnois. Chambly.	5 9 9	270 200 118to125	45 45 22 6 to24	14 9 7				
St. Ours St. Anne's (new) Carillon and Grenville Culbute	${1 \atop 1} \atop 7 \atop 2}$	200 200 200 200	45 45 45 45	7 9 9 5		• • • • • • •		
Trent . Rideau do Perth branch . Murray .	13 49 2	134 134 134 No locks.	33 33 32	5 5 5 6 11				
Cornwall (old)	3 3 6	200 270 200	55 45 45	9 14 9	6	270 270	45 45	14
Welland (new)	26 (24	270 150	45 45	14 10 3				
Welland (old)	$\left\{\begin{array}{c}2\\1\\1\end{array}\right\}$	200 230 150	45 45 26 6	10 3 10 3 9				
Welland (Port Robinson branch). do (Maitland branch)	$\begin{array}{c} 1 \\ 2 \\ 1 \end{array}$	200 150 185	45 26 45	9 9				
Sault Ste. Marie	1	900	60	20 3	4	270	45	14

LACHINE CANAL.

OPERATION.

The traffic on this canal was conducted satisfactorily during the year, and without interruption to traffic.

MAINTENANCE.

For particulars of the repairs during the year, I must refer you to the Superintending Engineer's report.

The cost of these repairs for the year 1894-95 amounts to as follows:-

Ordinary repairs under head of staff and repairs. \$25,891 45

Special repairs under head of income:-

Construction of workshops, sheds, &c., Montreal	¢10 120	QA		
Enlargement of electric light stores,	•			
Montreal	1,983	84		
To pay land damages from leakages	13,189	50		
Repairs to breakwater	528	72		
•			25,842	00
Total	· · · · · · · · · · · · · · · · · · ·	••••	\$51 ,733	45

BEAUHARNOIS CANAL.

OPERATION.

No accident occurred on this canal during the year and the traffic was uninterrupted.

MAINTENANCE.

The necessary repairs have been executed during the year, of which the following is a statement:—

The cost of repairs for the year 1894-95 amounted to as follows:-

Ordinary repairs under head of staff and repairs..... \$12,299 49

Special repairs under head of income :-

Building steel bridge, constructing				
coffer-dam and repairs of sills and				
platforms at lock 14, Valleyfield	\$10,658	91		
Renewing foundations of swing bridge	•			
and guard lock	1,333	75		
Building drain at Grande Isle, Valley-				
field	10,200	00		
Renewing masonry of nine locks	1,552	15		
Rebuilding bridge at Lost Channel, St.	•			
Timothy	4,091	62		
Damages by overflow	55	00		
•			27,891	43
Total	•• • • • • • • • •		\$40.184	92

CHAMBLY CANAL.

OPERATION.

On the 10th September, 1894, an interruption to navigation for fourteen hours occurred by reason of the lower gate of the lower entrance lock giving way, otherwise the traffic during the year was satisfactorily conducted.

MAINTENANCE.

The canal works have received the necessary attention as regards their maintenance during the year.

The cost of the repairs executed during the year 1894-95 is as follows, viz.:—
Ordinary repairs under head of staff and repairs....... \$11,779 12

Special repairs under head of income:-

Building fencing in front of farms along canal	\$	745	33		
Building rubble masonry wall along high-				•	
way		2,4 99	42		
Rebuilding lock walls		5	25		
To pay timber account of Hurteau & Frère do for land taken from A. Yule and		1,937	15		
do for land taken from A. Yule and		•			
A. F. Riddell		960	48		
	_			6,147	63
Total	••••	• • • • • •	••	\$ 17,926	75

ST. OURS LOCK.

OPERATION.

No damage to lock or delay to navigation occurred during the year.

MAINTENANCE.

The necessary repairs have been executed. The cost of the work during the year was as follows, viz.:—

Ordinary repairs under head of staff and repairs, \$915.50.

There were no special repairs provided for in the parliamentary appropriations.

ST. ANNE'S LOCK.

OPERATION.

The navigation through this lock has not been interrupted during the year.

MAINTENANCE.

The lock has been maintained in good working condition. The cost of the work during the year is as follows, viz.:—

3,694 33

Total \$6,720 24

CARILLON AND GRENVILLE CANALS.

OPERATION.

The navigation has been worked without interruption during the year and the canal works have received the necessary repairs.

MAINTENANCE.

The following is a statement of the works of repairs executed during the year:—
The cost of the repairs amounted to as follows, viz.:—

Ordinary repairs under head of staff and repairs...... \$12,303 25 Special repairs under head of income:—

5,963 76

Total....... \$18,267 01

CULBUTE CANAL.

OPERATION.

This canal was only worked during the season of navigation 1894—it was closed and abandoned on the 2nd November, 1894, and the services of the employees were dispensed with; the Grand Calumet Dam was partially removed to give a freer flow to the water.

The following is a statement of the expenditure on this canal during the year:

Staff and repairs. \$ 434 28

Special under head of income:—

Removing obstructions and land damages..... 1,475 26

Total...... \$ 1,909 54

TRENT CANAL.

OPERATION.

There were 3,670 lockages during the year and there was no interruption to navigation. The canal works were well maintained.

MAINTENANCE.

The cost of the works of repairs for the year was as follows, viz.:—
Ordinary repairs under head of staff and repairs....... \$3,374 49

Special work under head of income:

Dreuging, &c	100,0	83
Making cut at mouth of Scugog River	476	40
Building swing bridge at Trent Narrows	8,500	00
Rebuilding Rosa's bridge over Otonabee	•	
River	2,500	00
Sluiceway in Healy's Dam	1,169	20
Fishway at Bobcaygeon	195	98

- 21,143 41

0 0 201 02

RIDEAU CANAL.

OPERATION.

Owing to the extremely low water, the navigating of this canal has been attended with some difficulty, there being only about 4' 4" depth of water in certain sections of the canal. The Perth Branch was closed to navigation from 9th to 30th July, 1894, owing to the upper gates of the lower lock having been run into and damaged by the steamer "Rideau Belle."

MAINTENANCE.

The canal has been maintained in efficient state of repair.

The cost of the repairs was as follows, viz.:-

Ordinary repairs under head of staff and repairs...... \$19,897 32

Special repairs under head of income:

Total	•••	\$ 51, 4 56	80
	-	31,559	48
Paid for land damages 10,000	00		
Smith's Falls 2,851	2 3		
Building swing bridge at Jones' Lock,			
Rebuilding bridge Green Bay Road 591	30		
Rebuilding lock wall at lock No. 4 1,997	90		
Rebuilding Lorne Bridge 5,560	52		
Building ice breaker at Hogs Back 560	33		
Sheet piling side of Deep Cut \$ 9,998	20		
cial repairs under nead of income:			

MURRAY CANAL.

OPERATION.

This canal was operated during the year without interruption, and 673 vessels passed through.

MAINTENANCE.

The canal works have been maintained in efficient condition.

The cost of repairs was as follows:—

Ordinary repairs under head of staff and repairs Special repairs under head of income	\$5,063 Nil.	4 9
Total	\$5,063	4 9

CORNWALL CANAL.

OPERATION.

Navigation has been fairly maintained, considering the inconvenience arising from the prosecution of the works of enlargement; except as regards a serious detention to traffic occasioned by the steamer "Ocean" knocking out the gates of

lock No. 17. This accident which occurred on the 19th of June, 1895, caused a stoppage of navigation for four days, the damage done to the canal amounting to about \$5,000.

MAINTENANCE.

The necessary repairs to the canal works have received due attention.

The cost of repairs during the year was as follows, viz.:-

Ordinary repairs under head of staff and repairs...... \$13,053 55

Special repairs under head of income :-

Building Cornwall sewer	\$14,000	00
Telephone line	2,450	
Repairing old locks Nos. 15 and 17	4,647	74

____ 21,097 74

Total....... \$34,151 29

WILLIAMSBURG CANALS.

OPERATION.

No serious accident or unusual interruption has occurred on these canals (Galops, Iroquois Junction, Rapide Plat and Farran's Point) during the year, and the traffic has been conducted in a fairly satisfactory manner, considering the lowness of the water in the river and notwithstanding the works of enlargement in progress.

MAINTENANCE.

The canal works have been maintained in a good state of repair. The cost of repairs during the year has been as follows, viz.:—

Ordinary repairs under head of staff and repairs...... \$7,371 37

Special repairs under head of income:-

Total		•••	\$21,091	73
			13,720	36
Lower gates at lock 22 To renew superstructure of pier lock 26	3,160	00		
Piers at Farran's Point				

WELLAND CANAL

OPERATION.

The only accident of any importance which occurred during the year was the carrying away of four gates of lock 22 and one gate of lock 21 by the steamer "Jack" on the 9th of May, 1895, which caused a delay to traffic of $4\frac{1}{2}$ days. The damage was estimated at \$5,000. The canal has been worked during the year by the reduced staff in a satisfactory manner.

MAINTENANCE.

The canal works have been maintained in an efficient state of repair.
The cost of repairs during the year has been as follows, viz.:-

Ordinary repairs under head of staff and repairs....... \$48,270 94 Special repairs under head of income:—

Rebuilding in concrete superstructure				
Dalhousie pier	\$13,869	14		
Cleaning out and deepening back ditch	•			
south side of feeder	2,321	4 3		
Forming outlet for drainage at Feeder Jct.	1,160	30		
Taking down and rebuilding Hoover's Cul-	•			
vert	1	37		
Taking down and rebuilding wall of race-				
way lock 25	1,962	50		
Cleaning and deepening back ditch north				
side of feeder	1,751			
Drain on John Charleston's property	26	75		
Claim of North Cayuga Township for				
damage to road by floods	567	00		
			21,659	70
Total		•••	\$ 69,930	64

ST. PETER'S CANAL.

OPERATION.

From 30th June, 1894, to 15th December, 1894, the navigation on this canal was uninterrupted, since that date it has been closed for renewal of lock gates and floor.

MAINTENANCE.

The repairs on this canal were very heavy and costly, as owing to the ravages of the sea-worm, it became necessary to renew the timber floor and the lock gates, which work necessitated the formation of a dam at each end of the canal; the work was being executed under contract with Mr. Sylvester O'Donaghue, but owing to unforeseen difficulties arising in unwatering the canal, he intimated his inability to complete the work under his contract, and it is being carried on by the Government.

The cost of repairs during the year has been as follows, viz.:-

Ordinary repairs under head of staff and repairs	\$ 353	55
Special repairs under head of income:—	*	
Reconstructing west wall \$ 10 68 Renewing mitre sills, floor and lock gates, 26,092 18		
,	26,102	86
Total	\$26,456	<u>-</u>

The supplies and materials have, as a rule, been purchased by tender and contract and are only issued upon requisition of the duthorized officer, and books are kept of the receiving of the goods, and their issue, and the articles in the storehouse are kept in much better order than formerly.

Cost of maintenance of the canal system for 1894-95.	\$506,280	31
Net revenue of canals after deducting refunds	339,890	49
Loss	\$ 166,389	82

RAILWAY SUBSIDIES.

I submit herewith a statement showing the amount of cash subsidy granted per mile available, and amount paid up to 30th June, 1895; also the number of miles of railway on which subsidy granted per mile was available on 1st July, 1895, and the number of miles of railway for which cash subsidy per mile was granted, built up to 30th June, 1895. There will also be found the amount of subsidy paid up to 1st October, 1895.

There also appears a statement of the cash subsidy per annum available and also paid up to 30th June, 1895, with number of miles built, also a statement show-

ing the railways which have been granted aid in land.

Amount of cash subsidy per mile available 30th June, 1895	\$ 8,486,636 53
Amount of cash subsidy per mile paid 30th June, 1895	13,584,831 34
Total available and also paid	\$22,071,467 87
Number of miles of railway on which cash sulmile was available up to 30th June, 1895 Number of miles of railway on which cash submile was paid up to 30th June, 1895 Amount of subsidy paid up to 1st October, 1895 Cash subsidy per annum available on 30th June, 1895 Cash subsidy per annum paid on 30th June, 1895 Number of miles built on cash subsidy per annum up to 30th June, 1895 Number of miles of railway to which aid in land is granted	
Number of acres of land granted in aid of railways	32,257,200

The foregoing statements do not include the grants in cash and land to the Canadian Pacific Railway, the Canada Central Railway and the Esquimalt and Nanaimo Railway.

These roads received:-

Canadian Pacific Railway	1,525,250
	\$ 27,275,250

The foregoing statement of land grant does not include the Canadian Pacific Railway or the Esquimalt and Nanaimo Railway.

These roads received:-

Canadian Pacific Railway Esquimalt and Nanaimo Railway	Acres. 25,000,000 1,900,000
Total	26,900,000

CANAL STATISTICS.

These statistics were compiled by Mr. R. Devlin, the clerk temporarily in charge; they are for the season of navigation 1894 and contain the usual interesting information.

Table showing the tons of freight passing through each caual, the tolls collected, the number of trips of vessels passing through each canal, for the year ended 31st December, 1894.

Name of Canal.	Tons of Traffic passing through.	Tolls collected.	Number of trips of vessels passing through.
Lachine Beauharnois Cornwall Williamsburg.	886,778	63,005 43	8,545
Welland	1,008,221	159,694 19	2,412
Chambly	277,608	21,149 65	2,492
St. Ann's Carillon Ottawa River Canals		34,042 78	2,197
Rideau	94,479	5,836 39	3,490
Murrav	21.888	756 20	690
rent	36,271	1,009 23	1,810
St. Peter's	55,460	2,637 14	1,522

RAILWAY STATISTICS.

The hopes and expectations expressed in my last year's report that the railway companies would in future send in their statistical returns on or before the 1st October in each year, have not been realized, for whilst the great trunk lines and many others forwarded their returns with commendable promptness, there are a large number who are delinquents as regards the despatching of their reports, for through this my annual report is dated the 30th September, 1895. I am at this time, 11th October, delaying the completion of this report, hoping the delinquent companies may without further delay, after my secretary, Mr. L. K. Jones, who is calling upon them, send in their returns.

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.
836.	0	1866	2,18
837	16	1867	2,25
838	16	1868	2,26
839.	16	1869	2,49
840	16	1870	2,49
841	16	1871	2,4
2.70	16	1872	2,5
843	16	1873	2,6
844	16	1874	2,6
	10	1875	4,8
845		1876	5.1
846	59	1877	5,5
848	59	1878	6,1
2.10	59	1879	6,4
849	71	1880	6,8
851	93	1881	7,2
	212	1882	7.5
852	423	1883	8,0
853	657	1884	9,8
854	855	1885	10,1
855	1,296	1886.	10,0
856	1,428	1887	11.6
857	1,420	1888	12,1
858	1,997	1889	12,6
859	$\frac{1,397}{2,087}$	1890	13,2
860	$\frac{2,087}{2,087}$	1891	14,0
861	2,110	1892	14,5
862	2,110	1893	15.0
863	$\frac{2,110}{2,145}$	1894	15,6
864	$\frac{2,145}{2,145}$	1895	15,9
865	4,140	1000	10,1

FATAL ACCIDENTS for Year ended 30th June, 1895.

	Passengers Killed.	Employees Killed.	O.hers Killed.	Total Killed.
Falling from cars or engines Getting on or off trains in motion At work making up trains. Coupling cars Collusions and derailments.	i	5	7 12	25 20 3 9 6
Striking bridges. Walking or being on track. Explosions.		6 	85	91
Other causes	9		127	187

The summary of tables for the years ended 30th June, 1894, and 30th June, 1895, is as follows, viz.:—

·	Comparativ	e Statement,
	30th June,1894	30th June, 189
files of railway completed (track laid)	15,768	16,091
do sidings	2,017	2,054
do iron rails in main line.	400	346
do steel do	15,368	15,745
do do do double track	526	533
Capital paid (including the four following items)	887,975,020	894,640,559
rovernment bonuses paid	156,716,638	158,621,646
do loans paid	21,569,149	21,569,149
do subscriptions to shares paid	300,000	300,000
Iunicipal aid paid	14,153,611	14,180,686
Iiles in operation	15,627	15.977
Earnings	49,552,528	46,785,487
Vorking expenses	35,218,433	32,749,669
Vet earnings	14,334,095	14,035,818
assengers carried	14,462,498	13,987,580
reight carried (tons)	20,721,116	21,524,421
rain mileage	43,770,029	40,661,890
assengers killed	12	9
Number of elevators	59	53
do guarded level crossings	135	151
do unguarded do	9,869	10,430
do overhead bridges	406	398
do level crossings of other railways	212	218
do junctions with other railways	313	316
do do branch lines	215	232
do engines owned	1,965	1,948
do do hired	37	75
do sleepers and parlour cars owned	154	156
do do do hired		60
do first class cars owned	961	1,011
do do hired	31	65
do second class and immigrant cars owned	665	694
do do do hired	5	8
do baggage, mail and express cars owned	626	1,129
do do hired	10	25
do cattle and box freight cars owned	32,758	33,577
do do do hired	3,094	2,783
do platform cars owned	14,589	15,441
do do hired	315	317
do coal and dump cars owned	4,685	4,841
do do hired	14	4

I have attached as an appendix to this report a memorandum on railway progress in the Dominion of Canada and its beneficial effect on the economic development of the country, &c., by the Honourable Sir Charles Tupper, Bart., K.C.M.G., C.B., High Commissioner for Canada in London, as it appears to me to contain much useful information which is of great interest to the public.

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

COLLINGWOOD SCHREIBER,

Chief Engineer of Railways and Canals.

J. H. Balderson, Esq., Secretary, Department of Railways and Canals, Ottawa.

APPENDIX No. 5.

Intercolonial Railway of Canada,
Office of the General Manager,
Moncton, N.B., September, 1895.

SIR,—I have the honour to submit the following report on the working of the Intercolonial Railway during the fiscal year ended 30th June, 1895.

I inclose the reports of the Chief Engineer and the Mechanical Superintendent, and the following statements prepared by the Chief Accountant and Treasurer:—

- No. 1. Capital account.
 - 2. Revenue account.
 - 3. Locomotive power.
 - 4. Car expenses.
 - 5. Maintenance of way and works.
 - 6. Station expenses.
 - 7. General charges.
 - 8. General stores account.
 - 9. General balance.
 - 10. Comparative statement of averages.
 - 11. Special votes.

The mileage of railway in operation during the year was the same as stated in last year's report, 1,142 miles.

CAPITAL ACCOUNT.

The cost of road and equipment on the 30th June,	
1894, by last report was	\$ 54,680,9 04 89

The additions during the year were as follows:-

Increased a	ccommoda	tion at Halifux.	122,708	28	
do	do	at Moncton	7,494	17	
do	do	at Ferrona Jct.	1,981	57	
Constructio	n		1,920	18	
St. Charles	Branch		890	65	
				07	
			9,984		
		sgow and Cape	•		
Breton	Railways.		62,610	41	
		·-	,		9

327,034 51

Making the total cost on the 30th June, 1895. \$55,007,939 40

Increased accommodation at Halifax.—This expenditure is chiefly in payment for land acquired for the increased freight accommodation to be provided there. Work was commenced on a retaining wall, and on the foundation of a freight house, some grading and track laying were also done.

Increased accommodation at Moncton.—This is for providing new machinery for

the work-shops.

Increased accommodation at Ferrona Junction.—This is for additional land and sidings.

Construction.—This is for the settlement of small land claims in connection with the original construction of the railway.

St. Charles Branch.—This is for interest on a land claim and for legal expenses.

Indian Town Branch.—This is for expenses in connection with a contractor's claim on account of the construction of the branch.

Dartmouth Branch.—This is for expenditure on account of the construction of a branch line from Windsor Junction to Dartmouth. The length of line to be built is eleven miles. For construction purposes it was divided into two sections, and the contract for one section was given to Thomas Cooke, New Glasgow, and for the other to D. McGregor & Son, New Glasgow. Work was commenced in January, 1895, and has been steadily prosecuted ever since.

Rolling Stock.—This is for the Westinghouse air brake for freight cars. The total number of cars now equipped with this brake is nine hundred and seventy-one.

Oxford and New Glasgow and Cape Breton Railways.—This consists of payments of claims and of legal expenses in connection with the construction of these lines.

REVENUE ACCOUNT.

The gross earnings and the working expenses for the yea	r con	pare as	follows:-
Gross earnings Working expenses	\$2 ,9	40,717 36,902	95 74
_	8	3,815	,21

Parliament during the session of 1894 granted a compassionate allowance of \$12,000 to the sufferers by the accident which happened at St. Joseph, near Lévis, in 1890, and of this sum \$11,898.17 were paid during the year, also \$1,500.00 voted by Parliament to Mr. Martin for injuries sustained some years ago. These two sums amounting to \$13,398.17 were charged against the revenue account and increased the expenditure to \$2,950,500.91.

increased the expenditure to \$2,350,500.31.					
The gross earnings compare as follows with those of the	pı	evious y	ear	:	
In 1893-94	\$ 2	,987,510	27		
In 1894-95		,940,717			
_	\$	46,792	32		
The earnings from passenger traffic compare as follows:	_				
In 1894-95		963,914	44		
In 1893-94		958,915			
	\$	4,999	31		
The earnings from freight traffic compare as follows :-					
In 1893-94	\$1	,834,126	34		
In 1894-95					
	\$	51,517	80		
The earnings from the carriage of mails and expressions:—	18 1	freight	com	pare	88
In 1894-95 In 1893-94		194,194 194,468			
	8	273	83		

The earnings per mile of railway compare as follows:-	•	
In 1893-94 In 1894-95		2,616 03 2,575 06
The earnings per train mile compare as follows:—		Cents.
In 1894-95In 1893-94		73·53 71·08

There was a decrease in earnings from freight traffic and a small increase in earnings from passenger traffic.

The number of passengers carried compares as follows:—

In 1894-95	1,352,667
In 1893-94	1,301,062
	51,605

There was an increase of 56,257 in the number of local passengers and a decrease of 4,652 in the number of through passengers.

The weight of freight carried compares as follows:-

In 1893-94	1,342,710
In 1894-95	1,267,816
	74,894

This decrease was in both the local and through freight; 64,740 tons in local freight and 10,154 tons in through freight.

The following is a comparative statement of a few of the chief articles of freight, showing the quantity carried in this and in the previous year:—

Articles.	1893-1894.	1894-95.	Increase.	Decrease.
Barrels of flour Bushels of grain Lumber in superficial feet Head of live stock Coal in tons Manufactured goods in tons All other articles in tons	200,507,949 79,203 478,691 331,635	1.036.384		268,300 7,097

WORKING EXPENSES.

The working expenses compare as follows with the previous year:—

In 1893-94			
	8	44,769	24

The averages compare with those of last year as follows:-

Per mile run by engines—		
• •	Cer	nts.
In 1894-95	60	16
In 1893-94	57	99
Per mile run by trains—		
· In 1894-95	73	. 43
In 1893-94	70	94
Expenditure per mile of railway—		
In 1893-94	\$2.610	94
In 1894-95		

The permanent way and structures and all the works of the railway received the

repairs necessary to keep them in good order and in a state of efficiency.

The number of ties renewed was 261,520. One hundred and forty-seven miles of the track were reballastad, twenty-five miles of the track were relaid with new and heavier steel rails, weighing 67 pounds to the yard, and two and a quarter miles of new sidings were laid at various places.

The bridges on all parts of the line received careful attention and repairs. On the line between New Glasgow and Mulgrave two steel bridges of eighty-feet span each and one of hundred feet span were put in to replace wooden ones. A steel bridge of forty feet span and masonry abutments were also put in at Union.

The fences received necessary repairs, and forty-seven miles of new fences were

built.

The snow sheds and snow fences were repaired, and 11,396 lineal feet of snow fences were built.

The buildings on all parts of the line received necessary repairs, and the round house at Rivière du Loup which was destroyed by fire on the 20th of October, 1894, was rebuilt.

The wharfs at various places received necessary repairs, and some work was done towards rebuilding the wharfs at Halifax destroyed by fire on the 27th February, 1895.

Twenty-five semaphore signals were erected at various stations. The rolling stock received necessary repairs and is in good order.

Two heavy locomotives for freight service were purchased, and two smaller and lighter locomotives which they replaced were taken out of service. Four locomotives were entirely rebuilt.

Five first-class passenger cars, four express and baggage cars, forty platform cars, and one snow plough, were purchased; and two platform cars, eleven large coal cars, sixty-seven hopper cars, and seven snow ploughs were rebuilt in the shops.

The water service was well maintained and a new tank and water supply were

provided at Little Metis.

STORES.

The value of stores purchased was \$	963,407	28
The value of stores used was	1.230.723	79
The value of old material sold was	90,122	34
The value of stores on hand at the end of the year was:—		
Ordinary stores including fuel	357,497	54
Iron and steel rails and fastenings	260,491	22
Old material for sale	73,358	54
Total\$	691,347	30

GENERAL.

The winter of 1894-95 like the previous one was severe and the cost of clearing snow and ice was heavy, amounting to \$64,000.

The railway sustained great loss by fire during the year:-

At Rivière du Loup on the 20th October, 1894, the engine house for locomotives, a large brick building with a turntable in the centre, took fire accidentally and was destroyed. There were eleven locomotives in the building at the time, three were taken out without damage before the fire reached them, the other eight were burned in the building. The house was rebuilt at a cost of \$6,363.18, and the locomotives were repaired at a cost of \$10,981.11.

At Halifax on the 27th February, 1895, a fire started in the freight shed on the wharf for European traffic, and entirely destroyed the shed and wharf, also an elevated trestle work for shipping coal, and twenty-seven freight cars, it spread to the grain elevator situated at some distance and consumed it. The property

destroyed cost over \$200,000.

At Richmond, Halitax, on the 19th May, 1895, a fire broke out on one of the wharfs in a freight shed where some cattle were stored. This fire destroyed the wharf, two freight sheds, an elevated trestle work for shipping coal and thirty-eight freight cars. The property destroyed cost about \$100,000.

The work of rebuilding all this property is going on.

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

D. POTTINGER,
General Manager, Government Railways.

Collingwood Schreiber, Esq., C.M.G.,
Deputy Minister and Chief Engineer,
Railways and Canals.

No. 1.-INTERCOLONIAL RAILWAY.

DR.	CAPITAL ACCOUNT, Year ended 30th June, 1895.	;, Year ende	d 30th June	, 1895.		CR.
1894.		& cts.	e cts.	1894.		& cts.
June 30.	June 30. To Cost of Intercolonial Ry. to date. do Bastern Extension Ry. to date do Oxford and New Glasgow Ry. to date. do Cape Breton Ry. to date. do Train Ferry at Strait of Canso.	47,488,016 82 1,324,042 81 1,945,497 69 3,859,884 54 63,463 03	54 F80 904 89	June 30.	June 30. By Dominion of Canada	54,680,904 89
,	To Expenditure for current year:— Intercolonial Railway:— Increased accommodation, Halifax do do Moncton do do Ferrona. Construction (original). St. Charles Branch. Indiantown Branch Branch from or near Pedford to Dartmouth.	122,708 28 7,494 17 1,981 57 9,984 24 1,990 18 890 68 1,291 07 118,153 94				
71	Oxford and New Glasgow Section Construction	264,424 10 5,242 51 4,126 40 53,241 50	327,034 51	1895. June 30.	1895. June 30. By Dominion of Canada	327,034 51
			55,007,939 40		,	55,007,939 40
		B. & O.E.			T. WILLIAMS,	

Monoron, N.B., 30th June, 1895.

Chief Accountant and Treasurer.

No. 2.—INTERCOLONIAL RAILWAY.

DR.

REVENUE ACCOUNT, Year ended 30th June, 1895.

CR.

Previous Year.	Expenditure.	Year ended 30th June, 1895.	Previous Year.	Earnings.	Year ended 30th June, 1895.
672,852 09 656,758 04 369,839 69 195,602 65	Locomotive power, abstract 1 Car expenses, "2 Maintenance way works "3 Station expenses "4 General charges "5 Car mileage	651,031 19 679,468 39 370,702 74	1,834,126 34 194,468 80	Passenger traffic Freight traffic Mails and sundries	1,782,608 54
2,981,671 98 5,838 29 2,987,510 27	Total working expensesBalance	2,936,902 74 3,815 21 2,940,717 95 13,398 17			2,940,717 95

E. & O.E.

T. WILLIAMS,

Chief Accountant and Treasurer.

Moncron, N.B., 30th June, 1895.

No. 3.—INTERCOLONIAL RAILWAY.

LOCOMOTIVE POWER—(Abstract No. 1.)

Previou Year.	S	<u>·</u>	Year end 30th Jun 1895.	led .e,
\$, cts.		\$	cts
12,248	75	Mechanical superintendent's salary, clerks, office and travelling expenses	11,692	
273,316	77	Wages, drivers, firemen and cleaners	266,207 427,404	
444,477	33	Fuel	31,216	
957 703	04	Repairs to engines, tenders and engine tools.	250,521	
36 960	95	Water, including pump and tank repairs.	37,458	
22,400	20	Miscellaneous	19,155	
,081,787	76		1,043,656	57

E. & O.E.

T. WILLIAMS,

Chief Accountant and Treasurer.

MONOTON, N.B., 30th June, 1895.

No. 4,—INTERCOLONIAL RAILWAY.

CAR EXPENSES—(Abstract No. 2).

Previous Year.		Year end 30th Jur 1895.	
\$ cts.		\$	cts.
66.132 15	Repairs to passenger cars	68,610	40
18,136 48	Repairs to passenger cars	22,743	41
217,010 47	Repairs to freight cars and vans	183,153	
7.554 89	Repairs to snow ploughs and flangers	8,923	
255,853 06	Repairs to snow ploughs and flangers. Wages of conductors, train baggage-masters and brakemen	253,802	
18,409 63	Oil and waste for packing	18,883	
59,154 87	Small stores and fuel	64,333	
30,600 54	Oil and waste for packing. Small stores and fuel. Miscellaneous.	30,581	16
672,852 09		651,031	19

E. & O. E.

T. WILLIAMS, Chief Accountant and Treasurer.

Moncron, N.B., 30th June, 1895.

No. 5.—INTERCOLONIAL RAILWAY.

MAINTENANCE OF WAY AND WORKS-(Abstract No. 3).

Previous Year.		Year end .30th Jun 1895.	
\$ cts.		\$	cts.
334,455 51	Chief and assistant engineers' salaries, clerks, office and travelling expenses. Wages, repairing roadway, fences, and semaphores, including new sidings	6,193	93
,	laid in	339,826	
30,001 77	Rails and fastenings, including new sidings laid in	46,868	
07.704 23	Ties	38,815	90
67,997 62	Timber, lumber, &c., for repairs to bridges, cattle-guards, snow fences, &c	102,834	
11.188 78	Repairs to wharfs	7,824	78
65,223 34	Repairs to buildings and platforms, including extensions of and addition to	•	
	same	62.816	50
9,195 57	Repairs to tools. Clearing snow and ice.	8,343	53
68,413 18	Clearing snow and ice	64,122	81
5,653 85	Miscellaneous	1,821	00
656,758 04		679,468	39

E. & O. E.

T. WILLIAMS, Chief Accountant and Treasurer.

Moncron, N.B., 30th June, 1895.

No. 6.—INTERCOLONIAL RAILWAY.

STATION EXPENSES—(Abstract No. 1.)

Previous Year.		Year end 30th Jun 1895.	
\$ cts.		*	cts.
288,114 33	Salaries and wages of station masters, agents, clerks and telegraph operators,	292.104	1 94
81,725 36	station baggage-masters, yard-masters, switchmen and labourers Fuel, oil, light, stationery, tickets and other incidental expenses	78,598	
369,839 69		370,702	74

E. & O. E.

T. WILLIAMS, Chief Accountant and Treasurer.

Monoron, N.B., 30th June, 1895.

No. 7.—INTERCOLONIAL RAILWAY.

GENERAL CHARGES—(Abstract No. 5.)

Previous Year.	s		Year end 30th Jun 1895.	
8	cts.		\$	cts.
		General manager's, district superintendent's, train despatchers', general freight agent's, general passenger agent's salaries, clerks, offices and travelling expenses	78,022	30
		Chief accountant and treasurer's, traffic auditor's, paymaster's and cashier's salaries, clerks, office and travelling expenses	26,985	66
7.278	31	Damages to men, animals, and goods	5,909	58
33.893	65	Ferry service	35,236	97
1.077	35	Telegraph expenses, not including pay to operators	1.475	23
29,020	59	Miscellaneous, printing, advertising, etc	24,561	66
18,035	30	Agency expenses	16,297	
195,602	65		188,488	43

E. & O. E.

T. WILLIAMS, Chief Accountant and Treasurer.

Monoron, N. B., 30th June, 1895.

GENERAL STORES Account, Year ending 30th June, 1895. No. 8.—INTERCOLONIAL RAILWAY.

å

Cr.

1894.		es cts.	• otes.	1895.		es cts.	es cts.
June 30	June 30 To Balance	:	685,366 60	June 30	June 30 By Issues during year	1,230,723 79	
1896					Sales materials, fuel, &c., to other railways, &c	20,116 87	
June 30	June 30 To Purchases during year	963,419 94			Sales of old material	90,122 34	
	Charges from other departments	320,797 59					1,340,963 00
	Lebour, &c	48,821 90			By Balance		
	Staff rolls	13,904 27			Ordinary stores, including fuel	357,497 54	
			1,346,943 70		Iron and steel rails and fastenings.	260,491 22	
					Old material for sale	73,358 54	
					•		691,347 30
			2,032,310 30				2,032,310 30
E. & O. E.					T. WILLIAMS,		
MONC	Monoron, N.B., 30th June, 1895.				Chief Accountant and Treasurer.	ntant and Tr	easurer.

No. 9.—INTERCOLONIAL RAILWAY.

CR.	\$ cts. 910,251 42 4,211 27 7 0 07 9,412 57 13,172 62 258 12 116 88 116 88 116 88 116 71 15 00		
GENERAL BALANCE, Year ended 30th June, 1895.	Dominion of Canada Suspense Chatham Railway Grad Trunk Railway Goral Trunk Railway Goral Trunk Railway Canadian Pacific Railway Central Railway of New Brunswick Elgin, Petitodiac and Havelock Railway Temiscousta Railway Prince Edward Island Railway Canada Coals and Railway Unclaimed freight.		
ANCE, Yea	\$ cts. 399 96 37,285 08 37,285 08 691,347 30 61,131 78 22,446 90 1,150 45	11,025 76 346 19 346 19 15,498 16 15,498 16 119 28 2 6 12 2 6 12 2 9 2 15,957 92 15,957 92	1,151 42 726 10 0 32 40 03 5,221 39 121 25 24 91
DR. GENERAL BALA	Stations Stations Stations Stations Stations Stations General Stores General Stores Ordinary stores, including fuel \$ 357,497 54 Form and steel rails and fastenings 250,491 22 Iron and steel rails and fastenings 73,388 54 Agriculture \$ 421 99 Interior Fost Office 600 Marine 600 Marine 67 28 Militia and Defence 5,139 72 C. P. R. rolling stock 5,139 72 W. & A. Railway — general account	Canada Eastern Railway—general do —traffic New Brunswick and Prince Edward Island Railway Caraquet Railway Caraquet Railway Caraquet Railway Caraquet Railway Caraquet Railway Caraquet Railway Bay Chaleurs Railway Boston and Maine Railway Salisbury and Harvey Railway United Counties Railway New York and New England Railway New York and New England Railway New York New Haven and Hartford Railway New York, New Haven and Hartford Railway New York, New Haven and Hartford Railway Othicago and Grand Trunk Railway New York New Haven and Hartford Railway Othicago and Grand Trunk Railway New York New Haven Railway—general account do —traffic account Sprinchill and Parraboro' Railway	Halifax and Cape Breton Railway Eigin Branch Railway Great Eastern Rail Freight Line Kent Northern Railway Quebec Central Railway Pullman Palace Car Company Armour Refrigerator Line

31 00	2,159 20 3,450 34 1,892 13 1,892 13 1,364 28 1,100 87 1,100 87 97 85 6,749 97	273 25 273 25 1,276 00 1,967 41 32,000 00 283 40 788 81		239 47 16 05 71 30 42 01 10,277 69 027 571 81	
St. John Street Railway Company	Rents Connedian Express Company Dominion Express Company Allan SS. Line SS. "Connest" SS. "Connest" SS. "Admirst" Acadia Coal Company Intercolonial Coal Company Cumber-land Railway and Coal Company Dominion Coal Company Halitax Cotton Company Siding	eð eð ræ	Coal Branch Weldford Weldford Ste. Luce. St. Arsene Valley Nappan Kent Junction Kent Junction Campbellton (freight) St. Arsene 65 50 00 86 65 107 12 72 71 Nappan 231 04 Gloucester Junction Campbellton (freight) St. Arsene 65 65 107 12 72 71 73 104 74 00 88 88 Campbellton (200) Isle Verte 25 00	Car "Victoria" Car "Ottawa" Schooner "Mary Jane" Schooner "Mary Jane" Individual accounts and Insurance Association Individual accounts Trees	1898

77

No. 10.—INTERCOLONIAL RAILWAY.

COMPARATIVE STATEMENT of Averages, Year ended 30th June, 1895.

			1895.	1894.
Engine mileage Frain mileage			1,142 4,879,981 3,999,242 45,277,909	1,142 5,140,867 4,202,740 47,367,234
Receipts per engine mil Receipts per mile of rai	lway	CentsDollars.	60 · 24 2,575 · 06	58·11 2,616·03
Percentage of passenger do freight do other	e earnings to g do do	ross earnings	32 77 60 · 63 6 · 60	32·10 61·39 6·51
Fuel Oil, tallow, waste a Repairs to engines Water and tank re	nd cleaners' w nd small store	ages	5·46 8·76 ·64 5·13 ·77 ·39	5·32 8·65 ·67 5·01 ·72 ·43
Mechanical superintend	Total lent's salary,	office and travelling expenses	21 15 24	20.80
	Total		21 · 39	21 · 04
Car expenses per engin	e mile		21 · 39 13 · 34 13 · 92 7 · 60 3 · 84 · 07	21 · 04 13 · 05 12 · 76 7 · 19 3 · 80 · 05
	Total per e	ngine mile	60.16	57 . 99
Car expenses Maintenance way and Station expenses per tr General charges	do works per trai ain mile do	n mile	26·09 16·28 16·99 9·27 4·71	25 · 74 16 · 0 15 · 6 8 · 8 4 · 6 · 1
-	Total per ti	rain mile	73 43	70.8
Working expenses per		y Dollars.	2,571 · 71	2,610 · 9

E. & O. E.

T. WILLIAMS, Chief Accountant and Treasurer.

Moncton, N.B., 30th June, 1895.

No. 11.—INTERCOLONIAL RAILWAY.

SPECIAL VOTES—(Abstract No. 6).

	Year ended 30th June, 1895.
Compassionate allowance to the sufferers from accident at Lévis (vote \$12,000)	
Compensation to Mr. Martin for injuries sustained (vote \$1,500)	1,500 00
	13,398 17

E. & O. E.

T. WILLIAMS, Chief Accountant and Treasurer.

Monoron, N.B., 30th June, 1895.

Intercolonial Railway of Canada, Office of the Chief Engineer, Moncton, N. B., 10th Sept., 1895.

Sir,—I have the honour to submit my report of the engineering department for the year ended 30th of June, 1895.

TRACK.

During the year 25 miles of old steel rails have been taken up and replaced with new four and a half inch rails, weighing 67 pounds to the yard.

TIES.

During the year 261,424 ordinary ties and 96 sets of switch ties were renewed.

BALLASTING.

Ballasting has been carried on, on all divisions. In all about 147 miles of the track has received a lift of good clean gravel from four to fifteen inches deep, requiring about 100,000 cubic yards of material.

SEMAPHORES.

New standard semaphores signals were erected at the following places: Bedford, Alton, Riversdale, Hopewell, Valley Stellarton, Londonderry, Wentworth, Maccan, Greenville, River Philip, Evans, Dorchester, Memramcook, Moncton, Sussex, Rothesay, Bloomfield, Berry's Mills, Bartibogue, Assametquaghan. Electric semaphores were erected at Truro (2), Springhill and Painsec Junction.

All other semaphores throughout the line have been overhauled, repaired and

painted where necessary.

SIDINGS.

During the year 21 miles of additional siding accommodation were provided.

FENCING.

Forty-seven miles of new barbed wire and woven wire fence were erected during the past year in place of old pole fence, and post and board fences, and at points where no fence had previously been erected.

SNOW SHEDS AND FENCES.

During the year 11,396 feet of new snow fencing were erected on the Northern and Cape Breton divisions, and large repairs were made to fences and sheds where required on the various divisions of the line.

WHARFS AND TRESTLES.

At Halifax a gang of carpenters was engaged in general repairs and renewals of the wharfs and sheds and coal trestles from the 17th of October, 1894, until the 27th of February, at which date the whole lot, including the grain elevator, were

destroyed by fire.

The "long or coal wharf" so called, only escaped. The rebuilding of the wharfs and sheds destroyed was put in haud at once. The wharf and trestle for bunker coal was completed ready for use on the 6th ultimo. The renewal of the ocean steamship pier has been somewhat delayed on account of the non-delivery of creosoted piles and pitch pine timber, but good progress is being made now, and it is expected the wharf and warehouse will be ready by the 15th of December next.

At Richmond necessary repairs were made to the wharfs and coal trestle. The trestle on outside wharf was raised about two feet to better facilitate the coaling

of a special class of steamships now calling at Halifax.
On the 19th of May, the outer wharf 700 feet long by 120 feet wide, together with coal trestle, cattle sheds, and sugar sheds, was entirely destroyed by fire. Materials for the renewals have been ordered and the work of rebuilding is now in hand.

At Pictou Landing necessary repairs were made to the wharf, and a high loading platform on the east side, 125 feet by 14 feet, was renewed from two feet above

high water.

At Pugwash necessary repairs were made to the wharf. A chute for shipping

coal was provided.

At Mulgrave the outer end of main wharf was raised about three feet, fenders were placed on the round corners of wharf, and the wharf levelled up. About 300 tons of stone ballast was placed in the wharf, and a portion of the outer face of wharf was sheathed with 9-inch birch to protect it from the ice. Guides were placed on each side of the transfer apron to facilitate the docking of transfer barge. Some sheathing was placed on the shore side of Mulgrave dock.

At Point Tupper the wharf was overhauled, and repairs made where found

necessary.

At Springhill a number of sills and caps were renewed in the coal trestle.

At Sackville and Dorchester, necessary repairs were made to the wharfs and trestles.

At Moncton the flooring of the top of wharf was renewed.

At Shediac 1,100 feet by 18 feet of the top of wharf was renewed. A portion

of the rail timber of wharf was also renewed.

At St. John about 250 feet of breast-work was renewed along the Courtenay Bay extension. Swing braces were provided for runways and abutments of the swing bridge of the harbour extension.

At Dalhousie the flooring of wharf was renewed.

At St. Charles necessary repairs were made to the coal trestle.

At Lévis a portion of the flooring of Princess Pier was renewed, some new joists and timbers were placed in the wharf, and new elm fenders provided where necessary.

BUILDINGS AND PLATFORMS.

At Halifax a contract for stone foundation of new brick freight shed 759 feet by 60 feet, at the deep water terminus, on the property recently acquired for that purpose, was let to Mr. Theophilus LeBlanc, in April last, and has now been completed. The contract for the walls and roof of same building has been let to Messrs. R. C. Donald & Co., and is now well in hand.

A cribwork across the face of the deep water terminus from the Marine and Fisheries to Cunard's wharf, has been in hand since April last, and is about three-quarters completed. The cribwork is about 15 feet out of water, and when the necessary grading is made up at the rear of it, the area of the yard will be much

enlarged

The buildings and wharfs owned by the department, and under lease to the Marine and Fisheries Department, have received necessary repairs. One wharf has been partially renewed.

A platform 120 feet long by 4 feet wide was provided at the east end of North

Street train shed for the accommodation of milk dealers.

A new door-way was provided in the brick wall at the east end of train shed, and a platform laid to better facilitate the handling of baggage of combined trains. The roof of train shed was overhauled and repaired, and about forty heavy

corrugated lights renewed.

At Richmond necessary repairs were made to the car shops, machine shops, and round house. Eight of the smokestacks over the engine pits were renewed.

The interior wood-work of three offices was painted.

At Bedford new sills were placed under the freight house, and a new floor

provided. The loading platform was renewed.

At Windsor Junction the external walls, and roof of station building were overhauled, repaired and painted. The agent's office, waiting room, and kitchen were also painted.

At Wellington necessary repairs were made to the roof of station building.

At Enfield the external walls and roof of station were overhauled, repaired and painted. The agent's office and waiting room were also painted. An extension of 50 feet was made to the station platform.

At Elmsdale the exterior walls of station were overhauled, repaired and painted.

The iron roof of station also received a coat of paint.

At Milford the station building and roof were overhauled, repaired and painted. At Shubenacadie the external walls and roof of freight shed were overhauled, repaired and painted. The iron roof of station also received a coat of paint. Some repairs were made to the station agent's office and dwelling apartments.

At Stewiacke the interior woodwork of station was painted. A new floor was

placed in the kitchen. Necessary repairs were made to the cattle pen.

At Truro the external walls of station building were overhauled, repaired and painted. The superintendent's and train despatcher's offices received two coats of paint. A portion of the roof was recovered with shingles and painted. The roof of freight shed was also painted. Alterations were made to the windows of the Western Union Telegraph office. The stringers were renewed in two of the engine house pits. An extension was made to the partition of bonded goods warehouse in freight shed.

At West River new sills were placed under the station building, and the west side of roof recovered with shingles. The interior of station agent's office was

sheathed, and a hard wood floor was laid in the waiting room.

At Stellarton the roof of engine shed was recovered with Sparham roofing, and six smoke jacks were renewed. The doors of engine shed also received necessary

repairs. A portion of the roof of freight shed was repaired, and the freight shed. coal house, and inspector's office painted.

At New Glasgow the verandah roof of station was painted.

At West Merigomish the sides and ends of station were re-shingled, and the

building painted.

At Barney's River, Marshy Hope, and James River Stations, necessary repairs

were made to the doors and windows.

At Brierly Brook a new door was provided for the flag station.

At Antigonish necessary repairs were made to the doors and windows of dwelling apartments of station. The freight shed and baggage room were overhauled, repaired and painted.

At South River the station building and platform were overhauled and repaired.

At Harbour au Bouche necessary repairs were made to the station.

At Grosvernor one mile east of Linwood flag station, a new platform 75 feet long was erected.

At Barachois a small freight shed and platform were erected. The loading

platform was moved to a new site and rebuilt.

Other necessary repairs were made to all stations and platforms on the Cape Breton division.

At Pictou the station building was overhauled, repaired and painted.

The station buildings, freight sheds and coal sheds, at the following places were overhauled, repaired and painted: Sylvester's, Scotch Hill, Scotsburn, Meadowville, Denmark, Wallace, Pugwash Junction and Conn's Mills.

At Pugwash the engine shed, freight shed, and coal shed, were overhauled, repaired, and painted. The freight shed on Pugwash wharf also received a coat of

At Debert and Londonderry necessary repairs were made to the station buildings.

At Oxford necessary repairs were made to the engine house.

At Salt Springs the station and freight shed were overhauled and repaired.

At Amherst 180 feet of the platform were renewed.

At Sackville the shingles on one side of the roof, the verandah and the top of bay-window, were renewed. A loading platform 180 feet long and 18 feet wide was renewed.

At Calhouns a new floor was laid in the flag station.

At Painsec Junction the roof of station was re-shingled, and the station and

freight house platforms were renewed.

The platforms at the following stations were overhauled and repaired: Debert, Thomson, Oxford Junction, Springhill, Athol, Maccan, Sackville, Dorchester, College Bridge and Memramcook.

Old box car bodies were placed at Wentwork, Aulac and Dorchester, and fitted

up for section men's tool houses.

At Shediac the roof of station building was reshingled.

At Moneton an addition of 11 by 20 feet was made to the electric station and a new floor was laid in the building. One side of the station building and the roof of the boiler shop were reshingled. Necessary repairs were made to the government cottages.

At Boundary Creek the top of platform was renewed.

At Salisbury the freight shed was overhauled, repaired and painted.

At Sussex necessary repairs were made to the engine shed, and the roof of station recovered with shingles.

At Hampton, Quispamsis and Rothesay, the station buildings were overhauled

and repaired.

The loading platforms were renewed at the following stations: Moncton, Pollett

River, Dorchester Road, and Bloomfield.

At Harcourt the passenger platform 150 feet by 4 feet was renewed. The coal shed was repaired.

At Barnaby River necessary repairs were made to the roof of station building where damaged by fire.

At Chatham Junction necessary repairs were made to the station building and

freight house.

At Nescastle a portion of the roof was recovered with shingles. Hardwood floors were laid in the ladies waiting room and kitchens of station agent and trackmaster's dwelling apartments. Three of the engine pits, and the floor of the round house were overhauled and repaired. The roof of carpenters' shop was reshingled. Some new sills were place under the station, and a patent flush water closet provided in the station.

The following stations between Moncton and Newcastle were overhauled, repaired and painted: Canaan, Millerton, Derby Junction, Indiantown, and Newcastle.

At Beaver Brook the station coal shed and tank house were overhauled,

repaired and painted.

At Bartibogue the station building and coal shed were overhauled, repaired and painted.

At Red Pine the waiting room and office were sheathed and painted.

At Gloucester Junction the satation and dwelling appartments, were over-

hauled, repaired and painted.

At Bathurst storm sashes were provided for the dwelling apartments of station. A bonded ware-room was provided in the freight house and the roof of building repaired.

At Petit Rocher the station building and freight house were overhauled,

repaired and painted.

At Belledune necessary repairs were made to the station and freight house.

At Nash's Creek the walls and ceilings of waiting room were sheathed, and the interior of station painted.

At Jacquet River the roof of freight shed was recovered with shingles, and the

interior of dwelling apartments of station painted.

At New Mills necessary repairs were made to the freight house roof. At Charlo the station building was overhauled, repaired and painted.

At Dalhousie Junction the floor of freight shed was repaired, and the roof of

shed recovered with shingles.

At Campbellton the superintendent's dwelling house was overhauled, repaired and painted. The station building was overhauled and repaired, and the exterior of building painted. Two new hardwood floors were laid in the station. The roof of fuel shed was recovered with shingles. A new foundation was placed under the coal shed. Necessary repairs were made to the floor of round house. The fuel shed and carpenters' shop were overhauled, repaired and painted. The station platform was renewed, and the freight house platform was repaired.

At Moffatt's an office was provided in the waiting room, and general repairs

made to the building.

At Metapedia a water service was provided in the station and dwelling apartments, and the station building overhauled and repaired.

At Millstream the station was overhauled and painted, and the platform was

renewed.

At Assametquaghan a new foundation was placed under the station, and the platform was renewed. The section men's houses were overhauled, repaired and painted.

At Pleasant Beach a gang-way for loading cattle was provided.

At Causapscal a cattle pen was provided, and the platform repaired.

At Amqui fifteen windows were renewed complete, and storm sashes provided for same. The freight house was enlarged to provide for the increased traffic.

At Cedar Hall the freight house was repaired, and the platform at the rear of

that building renewed.

At Sayabec necessary repairs were made to the freight house, and a new door was provided.

At Kempt a loading platform 150 feet long was provided, and the flag station painted.

At Little Metis the station building was overhauled and repaired.

The roofs of the following tank-houses were recovered with shingles: Metapedia, Assametquaghan, Pleasant Beach, Salmon Lake and Kempt. The tank-house at Assametquaghan was painted.

The flag stations at Moffat's, Flat Lands, Pleasant Beach and Salmon Lake, were

all overhauled, repaired and painted.

At Ste. Luce the roof of station building was recovered with shingles.

At Rimouski station a new gallery was provided.

At St. Fabien a hardwood floor was laid in the station.

At St. Simon a hardwood floor was laid in the station.

At Trois Pistoles the roof of restaurant was recovered with shingles.

At St. Eloi necessary repairs were made to the platform.

At Rivière du Loup, on the 20th of October, 1894, a fire destroyed the round house at this station. The work of re-building was put in hand at once, and completed before the end of the calender year. The cost of this work was \$6,363.18.

At Ste. Hélène and River Ouelle stations new hardwood floors were laid in

the stations.

At St. Pierre the station was overhauled and repaired.

At Chaudière Junction a new cattle yard was provided, and necessary repairs made to the freight office and two tenement houses.

At Hadlow necessary repairs were made to four of the tenement houses on the Chapman property.

BRIDGES, CULVERTS, &c.

Necessary repairs were made to the stone cattle guards at the following places between Halifax and Truro: Richmond, Fairview, Johnston's Crossing, Scott's Crossing and Brenton's Crossing.

An extension of about 60 yards of masonry was made to a box culvert at Fer-

rona Junction.

A beam culvert half a mile west of Brookfield station was overhauled and repaired.

The masonry in foundation walls of West River station was overauled, repaired

and pointed.

At Union a new steel deck plate girder of 40 feet span was provided, and first class masonry abutments built for same.

The stone cattle guards at Ross's Crossing near Lansdowne and at crossing near

Glengarry were overhauled, repaired and pointed.

At Merigomish and James River the old Howe truss bridges of 80 feet span were replaced with through steel deck plate girders of the same span, and standard hard pine tops and guard rails were placed on them.

At Black River, near Tracadie Station, the old Howe truss of 100 feet span was replaced with a new steel through pony truss bridge, of the same span. A hard

pine top and guard rails were placed on same.

At Murphy's some new braces and wall plates were put in the Howe truss

bridge at that place.

At South River and Monastery the old Howe truss bridges were overhauled

and strengthened, where found necessary.

At Pictou Brown's Point bridge was overhauled and repaired; 170 new ties were placed on the bridge.

Necessary repairs were made to a small tunnel near Onslow.

The tunnels at Caldwell's Brook and Greenville were overhauled and repaired. A new floor was put on the overhead bridge at Humphrey's, near Sackville.

The west pier of Sackville River bridge was cased with wooden sheathing filled inside with stones.

A large number of open and box culverts between Truro and Moncton received necessary repairs.

The wooden stringers of Darling's tank bridge were taken out and replaced with rail girders, and a standard top put on.

The overhead bridge at Mountain Road, Moncton, was replanked.

Four new hard pine seats were placed under girders of North-west Miramichi River bridge.

Three open culverts between Moncton and Newcastle were overhauled and put

in good repair.

A new floor was placed on Tête-à-Gauche overhead bridge.

Necessary repairs were made to the floors of Middle River and Little River overhead bridges.

New hard pine stringers were placed on several culverts between Newcastle

and Campbellton.

Between Rivière du Loup and Chaudière Junction, the masonry of a number of open and box culverts has been thoroughly overhauled and repaired.

The abutments of Boyer bridge were overhauled and pointed. The following bridges were overhauled, scraped and painted:—

Between Lévis and Campbellton.

Bridge one-half mile east of L'Islet	1	span	55	feet.
Bridge one mile east of L'Islet	1	do	45	do
Ferre River bridge				
Sayabec bridge	1	do	35	do
Causapscal bridge	3	do	100	do

Between St. John and Halifax.

Salmon River bridge	2 sp	ans	100	feet.
Palmer's Pond bridge	1 ^	do	80	do
Sodom bridge				
Folleigh River bridge	3	do	100	do
Debert River bridge	2	do	100	do
Lepers Brook bridge	1	do	40	do
North Street bridge (Halifax)	1	do	30	do

In Cape Breton, three spans of 250 feet each, of Grand Narrows bridge, were

overhauled, scraped and painted.

The pier and abutments of Leper Brook bridge near Truro were extended to carry the new track. An old girder was taken from Maccan under-crossing, lengthened, and put in at this place.

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

P. S. ARCHIBALD,

Chief Engineer.

D. Pottinger, Esq., General Manager Government Railways, Moneton, N.B.

INTERCOLONIAL RAILWAY OF CANADA, OFFICE OF THE MECHANICAL SUPERINTENDENT, MONCTON, N.B., 19th August, 1895.

SIR,—I beg to submit for your information the following statements:-

A .—Statement showing the number of locomotives and of the various classes of cars.

B.—Statement showing the locomotive and car mile age and the number of passenger and freight cars hauled per mile run by engines.

C.—Abstract of locomotive returns.

D.—Statement of the cost of locomotive power for each month during the year.

E.—General statement of the expenses of the mechanical department during the year.

Two locomotives with 18 x 24 inch cylinders were purchased to replace two of the 16 x 22 inch cylinder locomotives taken out of service, and four locomotives were

entirely rebuilt.

Five of the older first-class cars and four of the express and baggage cars were taken out of service, and were replaced by the same number of new cars of the latest and most improved style. Forty-two platform cars, sixty-seven hopper cars, eleven large coal cars, and eight snow ploughs were taken out of service and were replaced by the same number of new ones.

The following is a summary of the principal work done:

DRAWING OFFICE.

New extended wagon top boiler designed, also new cylinders and saddle, new solid head pistons, crossheads, heavy footplates, and frame alterations for rebuilding locomotives classes B 6, 9, 11, 14.

General plans made of 10-wheel passenger express engines A 1 class, and 8 wheel

passenger express engines B4 class, also skeleton sheet of standard locos.

Detail drawings made for rebuilding locomotives classes B 7 and 8.

New specifications and drawings made for standard engine and passenger car axles, tires, wheels, rods, springs, boiler plates, tubes, etc.

Drawings made for foundations for new steam hammer and new machinery.

Drawings made for and repairs to ss. "Mulgrave" supervised.

Additional car detail drawings made.

Registers of lecomotive repairs and water service kept. New materials supplied on specifications tested and reported on.

MONGTON LOCOMOTIVE SHOPS.

Four locomotives were "rebuilt" at a cost of \$8,000.00 each, with new "Belpaire" boilers complete. All boiler mountings and injectors new. Frames strengthened up. New cylinders, crossheads and guides complete. New driving wheels, tires, axles, crank pins and axle boxes. New underhung driving springs and gear. New fluted side rods. New cabs, heavy c.i. footplates and c.i. running boards. New engine truck complete. New improved "Westinghouse" air brake complete. Four locomotives 17" x 24" were rebuilt at a cost of \$4,500,00 each, with large second hand repaired boilers. New boiler tubes. Frames cut, lengthened, and strengthened, up. New injectors. New driving axles and tires. New eccentric sheaves and straps. New rocker arms and boxes. New sids rods and crank pins. New cabs. New improved driving brake gear complete.

Seventy locomotives received general repairs and 49 had specific repairs, the following new parts being supplied:—7 new smoke boxes with extensions, 1 new crown sheet, 4,997 new tubes, 23 new smoke stacks, 22 new cylinders, 16 new driving wheels, 90 new driving tires, 18 new driving axles, 18 new engine truck axles, 15 new main rods, 62 new fluted side rods, 2 new slab side rods, 143 new crank pins.

22 new cabs, 42 new pilots, 2 new s. f. lubricators, 13 new "chime" whistles, 34 sets new heavy c. i. running boards, 24 new heavy c. i. footplates, 12 new tender trucks complete.

Seventy-eight locomotive boilers were tested, 41 fire-boxes were patched, 5,456

tubes were pieced.

Eleven locomotives were equipped with the improved driving wheel brake, and 17 with steam heaters.

One hundred and fifty-six pair driving tires were turned, 338 cast iron wheels and 76 truck tires were bored and fitted.

Sixty-three engines and tenders were repainted and varnished; 10 engines and tenders were renovated and varnished.

One crane in yard rebuilt with new cast iron column and new foundation.

One new boiler built complete for water service.

178,681 bolts were forged.

180,190 do do threaded.

8,218 studs do

79,378 lbs. of nuts were tapped.

New water tight door for engine room bulkhead of ss. "Mulgrave."

New packing rings for l. p. piston.

Engine columns stiffened. Thrust bearing increased.

MONOTON BRASS FOUNDRY.

60,799 lbs. brass castings. 134,055 do bearings.

MONCTON CAR SHOPS.

Sixty-three freight cars, 7 snow ploughs rebuilt.

The following received heavy repairs:—13 sleepers, 5 parlours, 2 second class sleepers. 41 first class and 39 second class cars, 11 postal cars, 14 baggage cars, 22

vans, 639 freight cars, 1 snow plough.

The following received light repairs:—7 sleepers, 2 parlours, 12 second class sleepers, 45 first class, and 37 second class cars, 24 postal cars, 42 baggage cars, 10

snow ploughs, 1 flanger car, 4,237 freight cars.

The following were repainted or stained, and varnished:—5 sleepers, 2 parlours, 2 second class sleepers, 24 first class and 32 second class cars, 5 postal cars, 12 baggage cars and 1 van.

The following were renovated and varnished:—5 sleepers, 2 parlours, 13 first

class and 8 second class cars, 5 postal and 3 baggage cars.

Four hundred and eighteen freight cars, 24 vans and 8 snow ploughs were repainted.

Special work was done as follows:

Sleeper "Montmorenci."—State room converted into a smoking room and fitted with side door. Gentlemen's toilet arrangements altered, and w. c. altered and re-arranged.

Sleeper "Halifax".—Had all seats fitted with new high backs, and re-uphol-

stered with new plush. All lamps and fittings replated.

Sleeper "St. John," "Margaree," "Rustico," "Saguenay" and "Baddeck".—
All had seats recovered with new plush throughout. Lavatory and w. c. added to state room with white Ajax metal wash bowl and fittings. All lamps and fittings replated. Windows all fitted with new "acme" blinds. Sleeper "Saguenay" also had new high backs fitted on seats.

Two first class cars had "inside finish" removed and replaced with new ash finish, and new pine ceilings ornamented with new design. New seat frames and

new woven wire seats. New sets centre lamps.

Three first class cars were re-upholstered with new corduroy and one-first class car with new crimson plush.

Six first-class cars were fitted with continuous basket racks.

Six new tender frames were built.

Two hundred and eighty new freight car trucks were built.

Two thousand nine hundred and seventy-two cast iron wheels were pressed on

axles, 330 pair steel tired wheels were turned, 174 axles were turned.

'Íwelve freight cars were equipped with the Westinghouse 'air brake, also five first-class and one baggage car. Three freight cars were fitted with steam heating pipes.

A large amount of work was done to freight and baggage trucks, chairs, safes,

ticket cases, footboards and other articles for out stations.

RIVIÈRE DU LOUP SHOPS.

Twenty-three locomotives received general repairs and twenty specific repairs;

the following new parts being supplied:

Four new driving wheels, 24 new driving tires, 16 new crank pins, 2 new pair slab side rods, and 1 pair fluted side rods, 1 new cylinder saddle, 25 new driving axle boxes, 9 new smoke stacks, 1,273 new boiler tubes, 6 new heavy cast iron footplates, 7 sets new heavy cast iron running boards, 1 new head lamp, 1 new sight feed lubricator, 2 new cabs, 6 new pilots, 1 new tender frame.

Five locomotives were equipped with the Westinghouse brake complete; 9 had their driving wheel brakes altered and improved, and 3 were equipped with new

steam heaters.

Twenty-five locomotive boilers were tested, 8 fire boxes were patched, 11 tender tanks were patched, and 2 pair tender trucks rebuilt, 39 pair driving wheel tires were turned.

Twenty-three locomotives and tenders were repainted and varnished, and 1

renovated and varnished.

Both trucks of rotary plough No. 2 were rebuilt and machinery repainted, 2 new snow plough aprons and 1 front beam.

15,750 lbs. of bolts forged and threaded for locomotives.

4,570

do

do

cars.

1,858 studs threaded. 300 lbs. nuts tapped.

RICHMOND SHOP.

Sixteen locomotives received general repairs and 26 specific repairs, the following new parts being supplied:—12 new driving wheel tires, 2 new crank pins, 15 new driving also boxes, 7 new smoke stacks, 59 new boiler tubes, 2 new heavy cast iron footplates, 3 sets new heavy cast iron running boards, 1 new cab, 4 new ailots, 2 new tender frames, 1 new tender truck frame, 6 new sets grates, 5 new pistons, 5 new driving springs, 1 new set reversing gear, 1 new throttle valve and gear, 3 new pop valves, 1 new whistle, 1 new set tender springs.

Seven locomotives had their driving wheel brakes altered and improved.

Twelve locomotive boilers were tested, 10 fire boxes were patched, 1 tender tank had capacity increased, and 4 were patched, 26 pair driving tires were turned.

Fourteen locomotives and tenders were repainted and varnished, and 1 renovated and varnished.

varnished. 13,666 bolts were forged.

51,577 do threaded.

1,697 studs were do

NEW PLANT AND MACHINERY.

One single standard 12 cwt. steam hammer, 36-inch stroke.

One set of 10 ft. boiler plate bending rools, Bement pattern, with guarded friction rollers and steel balancing shaft. Top roll of steel.

One single boiler plate punch, 40-inch throat, with overhead crane and Harrington hoist.

One single boiler plate punch, 24-inch throat, with crane and Harrington hoist.

One duplex air compressor $10 \times 10\frac{1}{2} \times 12$ -inch.

One iron planing machine to plane 3 x 3 x 9 feet with patent drive and feed

One double bolt cutter 11-inch with automatic head.

One traversing air hoist for driving wheel lathes built complete in Moncton

One power pipe cutting and threading machine for pipe 1 to 2-inch diameter with

universal chuck and dies complete.

One Moffat portable air drill for use with compressed air.

Tinsmiths' Tools.

One No. 1 Stows brass mounted groover.

One No. 10 improved sheet iron folder.

One Niagara encased wiring machine with standard.

One encased small turning machine with extra faces and standard. One encased small burring machine with extra faces and standard.

One No. 1 double seamer with setting down attachment.

One No. 1 improved beading machine 13-inch with 3 pair rollers and rotary stand.

One No. 2 Niagara circle shears.

One No. 16 tube former with breaker.

One No. 20 Niagara square shears. Cut 22-inch.

Two No. 6½ circular hand shears.

Two No. 00 hollow mandrel stakes.

TURNTABLE REPAIRS.

Antigonish.—Wrought iron truck repaired.

Hadlow.—Eight new 15-inch centre cap bolts.

Moncton.—Two wheels bored out. New flooring.

Rivière du Loup.—One truck rebuilt. Arms and centre casting patched. St. John.—One end girder repaired. One cone faced and turned.

Ste. Flavie.—Both arms patched. Three new truck wheels. New centre cap casting. One end girder repaired.

Richmond.—New centre casting.

WATER SERVICE.

Little Metis.—New 17,000-gallon tank and foundation built complete. New reservoir built. Luid 1,100 feet 3-inch galvanized pipe and 1,000 feet 2½-inch galvanized pipe. Hot air pump repaired.

Canaan.—New tank trestle complete. Hoops cut and rewelded. Tank repaired

and painted. New smoke and tank pipes. New lamps. Steam pump repaired.

Amherst.—Water crane repaired. Reservoir cleaned.

Assametquaghan.—Reservoir cleaned.

Bathurst.—Steam pump and tank pipe repaired. Reservoir cleaned.

Belledune.—Reservoir cleaned.

Campbellton.—New tank trestle complete. Hoops cut and rewelded. Tank repaired and painted. New c. i. centre pipe. Reservoir and brook cleaned. Water pipes repaired.

Charlo.—New smoke and tank pipes.

Chaudière.—Wind-mill pump and pipes repaired.

Causapscal.—Reservoir cleaned.

Dalhousie Junction.—Reservoir repaired and cleaned. One new stove.

Elmsdale.—Steam pump repaired.

Folleigh.—Boiler repaired.

Hampton.—Outlet from lake lowered.

Harcourt.—New tank trestle complete. Hoops cut and rewelded. Tank repaired and painted. New smoke pipe.

Jacquet River.—Reservoir cleaned.

Londonderry.—One new tank hoop.

Millstream.—Reservoir cleaned and repaired.

Metapedia.—New tank pipe. Reservoir cleaned.

Mulgrave.—Reservoir repaired and cleaned.

McKinnons Harbour.—New tank pipe.

New Glasgow.—Water crane and pipe repaired.

Oxford Junction.—One new centre post and three cross-ties. One new stove and pipe. New globe valve.

Point Tupper.—Wind-mill pump repaired.

Pugwash.—235 feet 3-inch galvanized pipe laid. Steam pump and boiler put in. L'Islet.—New tank trestle complete. Hoops cut and rewelded. Tank repaired and painted. One new stove. Steam pump and pipes repaired.

Rogersville.—Steam pump and tank pipe repaired.

River John.—Wind-mill and pump repaired.

Rivière du Loup.—Steam pump repaired. Water pipes in yard repaired.

Sacré Cœur.—Reservoir repaired.

St. Moise.—New tubes in boiler. One new safety valve. Steam pump repaired. New smoke and tank pipes. New tank trestle complete. Hoops cut and rewelded. Tank repainted.

St. Fabien.—Tank valve and steam pump repaired.

St. Valière.—Boiler and steam pump repaired.

Ste. Luce.—Windmill and pipes repaired.

St. Pierre.—Steam pump and tank pipe repaired.

Ste. Flavie.—Reservoir rebuilt. Boiler feed pipe and steam gauge repaired. New stove. New smoke pipe.

Ste. Anne.—Boiler repaired.

St. Paschal.—Water crane repaired.

Stellarton.—New tank trestle complete. Hoops cut and rewelded. Tank repaired and painted. Water meter and pipes repaired.

Springhill.—New tank trestle complete. Hoops out and rewelded. Tank

repainted. Steam pump repaired.

Trois Pistoles.—Built new reservoir. Laid 1,500 feet 6-in. cast iron pipe and 900 feet 4-in. c. i. pipe. Water connections made with tank complete.

Thomson.—New tank trestle complete. Hoops cut and rewelded. Tank repaired

and painted. New stove. New smoke pipe. Truro.—Six new tank supports.

Westcock.—New cast iron centre pipe.

Windsor Junction.—Retubed boiler. Steam pump and tank floor repaired.

I hereby certify the rolling stock to be in good condition.

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

FRANCIS R. F. BROWN,

Mechanical Superintendent.

D. Pottinger, Esq.,

General Manager, Government Railways, Moncton, N. B.

STATEMENT showing the number of Locomotives and of the various classes of Cars on the 1st July, 1894, and on the 30th of June, 1895.

A.—INTERCOLONIAL RAILWAY.

Control of Control o	Various Classes of Cars. Second-Class Passenger, Passenger, Passenger, Passenger, Passenger, Passenger, Passenger, Passenger, Parious Classes of Cars. Second-Class and Passenger,	Coars Coar		Locomotives. First-Class Seepers. Second-Class Sleepers. Sleepers. Starlour.	On hand serviceable 204 15 7 5 9	204 15 7 5	Condemned July 1st, 1894	Less rebuilt	Serviceable and repairing	Total
Various Classes of Cars. Various Classes of Cars. Various Classes of Cars. Various Classes of Cars. 10 2, 2071 2, 2	Various Classes of Cars. Various Classes of Cars. Various Classes of Cars. 10	Various Classes of Cars. Various Classes of Cars. Various Classes of Cars. 10		Second-Class Passenger. Postal and Smoking.	7 6	186			:46 :	192
Various Classes of Carry 2, 2, 130 Platform, 10 Platform, 10 Platform, 10 Platform, 10 Platform, 10 Platform, 10 Platform, 10 Platform, 2, 130 Platform, 2, 130 Platform, 2, 130 Platform, 2, 2, 2, 30 Platform, 2, 2, 30 Platform, 2, 3, 3, 4, 2, 10 Platform, 2, 3, 10 Platform, 2, 3, 10 Platform, 2, 3, 10 Platform, 2, 3, 10 Platform, 2, 3, 10 Platform, 2, 3, 10 Platform, 2, 3, 10 Platform, 2, 3, 10 Platform, 2, 3, 10 Platform, 2, 3, 10 Platform,	Various Classes of Cars. 2,130 2,290 999 418 757 999 110 12,200 999 111 2,200 999 112 2,112 2,112 2,200 999 113 110 120 130 130 130 130 130 130 130 130 130 13	Various Classes of Care. 2,130 2,2309 3,411 3,2,112 2,209 3,418 42,112 3,209 41,113 42,112 42,112 43,101 44,114 44,114 45,115 4		Baggage.		60,		:	ર્ય	I
	LetoT 120 8 120	SanaV 99 92 4 4 4 8 8 8 8 8 8 8	Various	15 and 20 tons. 15 and Hoppers, 6	2,130	500	6.09	139	2,112	2,209
	LetoT 120 8 120	SanaV 99 92 4 4 4 8 8 8 8 8 8 8	Classes	Gondolas, 20 tons.		1] .	i :	<u> </u>	<u> </u>
	LetoT 120 8 120	SanaV 99 92 4 4 4 8 8 8 8 8 8 8	of Cars.	ZO tont.		1	<u> </u>	138		
		won8		.snsV	:	!	1	4 : :		<u> </u>
1	S S Hangers.			Steam Ploughs. Total.	57.	2 77	: :		2 77	2 77

JOHN SUTTON,
Mechanical Accountant.

Monoron, 30th June, 1895.

B.—INTERCOLONIAL RAILWAY.

STATEMENT of Locomotive and Car Mileage year ending 30th June, 1895.

	Госомоти	Lo conotive Mileage.		CAR MILRAGE.	Ilrage.				
Монтня.	Passenger.	Freight.	Ражепдег.	Express, Postal and Baggage.	Freight.	Total.	Snow Ploughs.	Average Passenger.	Average Freight.
1894—July	124,813	202,823	562,281	271,676	2,839,052	3,673,009	2,650	29.9	13.99
August	128,353	212,973	588,702	270,236	2,926,215	3,785,153	:	89.9	13.74
September		206,505	546,824	246,426	2,876,742	3,669,992	855	11.2	13.93
October		252,980	454,172	263,072	3,624,383	4,341,627	41	69.9	14.32
	103,082	247,603	431,384	248,835	3,511,244	4,191,463	5,280	92.9	14.18
December	105,803	203,455	432,684	247,881	2,778,823	3,459,388	3,680	6.43	13.66
1895-January	110,105	215,618	457,964	249,220	2,624,344	3,331,528	17,665	6.43	12.17
February	97,549	207,714	368,355	215,241	2,444,129	3,027,725	33,919	5.98	11.72
March	103,731	259,143	406,641	235,978	3,557,254	4,199,873	17,734	6.19	13.73
A pril	106,143	253,826	441,167	234,815	3,695,170	4,371,152	818	98.9	14.55
May	104,509	229,881	428,792	236,511	3,196,251	3,861,554	457	98.9	13.90
June	105,994	198,001	470,389	247,308	2,647,748	3,365,445	183	22.9	13.37
	1.308.720	2.690.522	5,589,355	2,967,199	36,731,355	45,277,909	83,282	6.54	13.65

JOHN SUTTON,
Mechanical Accountant.

Moncron, N.B., 30th June, 1895.

ABSTRACT of Locomotive Returns for Year ended 30th June, 1895.

C.—INTERCOLONIAL RAILWAY.

	ļ			Consumption.	aption.			Average Cor	Average Consumption per 100 Miles.	er 100 Miles.	
Months.	in Steam.	Locomotive Mileage.	Tons of Coal.	Pints of Oil.	Pints of Valve Gil and Tallow.	Pounds of Waste.	Miles Run to 1 hour in Steam.	Pounds of Coal.	Pints of Oil.	Pints of Valve Oil and Tallow.	Pounds of Waste.
1894—July	37,343	400,487	11,425	25,250	21,481	8,887	10.72	6,390	9:30	5.36	2.21
August	38,405	413,246	11,847	25,535	21,000	8,939	10.76	6,421	6.18	2.08	2.16
September	36,946	391,637	12,097	23,882	18,566	8,390	10.60	6,919	6.10	4.49	2.14
October	40,787	436,492	13,980	56,909	20,348	9,910	10.70	7,174	6.17	4.66	2.27
November	39,488	423,250	14,451	24,922	18,639	9,425	10.71	7,648	5.89	4.40	2.22
December	35,456	379,548	12,809	22,269	17,777	8,753	10.70	699'2	28.9	4.68	2.31
1895—January	37,993	400,639	14,151	24,938	19,432	9,577	10.80	7,889	6.22	4.85	2.39
February	37,698	378,849	13,449	24,269	19,088	8,735	10.05	7,952	6.41	2.04	2.31
March	41,750	438,587	15,358	28,108	21,281	10,176	10.20	7,843	6.40	4.85	2.32
April	40,432	433,475	14,195	28,607	18,915	10,214	10.72	7,335	09.9	4.36	2.36
May	38,106	408,846	12,057	25,587	21,384	9,823	10.72	6,600	6.26	5.23	2.42
June	35,075	374,925	10,553	23,650	21,689	8,970	10.68	6,304	6.31	2.18	2.39
Totals	459,479	4,879,981	156,372	303,926	239,600	111,799	10.62	7,169	6.23	4.30	2.29

JOHN SUITON,

Mechanical Accountant.

Moncron, N.B., 30th June, 1895.

D.-INTERCOLONIAL RAILWAY.

STATEMENT of Locomotive Power for each month from 1st July, 1894, to 30th June, 1895.

						,					Av	Average per 100 miles.	per]	100 m	iles.	
Months.	Miles run by Engunes.	Mechanical Supt.'s Salary, Clerks and Office Expenses.	Engine- men's Wages.	Fuel.	Oil, Tallow and Waste.	Repairs to Engines, Tenders and Tools.	Water.	Engine- houses and Turntables.	Total.	Mechanical Supt. a Sily.	Wages.	Fuel.	and Waste.	Repairs.	Enghouses	& Turntab.
		es cts.	es cts.	es cts.	es cts.	es cts.	s cts.	s cts.	s cts.	8 9	6/3		 		 	69
1894-July.	400,487	966 31	22,395 38	31,739 81	2,769 10	24,996 50	2,527 38	1,135 12	86,529 60	255	2.607	. 94	70 6 . 24		. .	29 21 . 66
Aug.	413,246	951 92	22,439 82	31,833 31	2,595 39	26,584 52	3,997 59	1,438 18	89,840 73	•	235.447	. 02.2	62 6 43	•	26	35 21 .74
Sept.	391,637	1,001 97	21,965 82	33,686 95	2,618 42	26,541 30	3,950 16	1,133 12	90,897 74	•	25 5 61 8	. 09.8	67 6 . 77 1 . 02	77 11.		28 23 . 20
Oct	436,492	1,027 63	23,224 09	37,546 49	2,874 08	27,125 14	4,544 41	1,268 40	97,610 24		24 5 . 32 8 . 60	. 09.	65 6 22 1 04	22 1	•	29 22 .36
Nov.	423,250	1,025 82	22,489 47	39,000 42	2,745 48	17,873 95	5,689 21	1,804 91	90,629 26	75	24 5 . 31 9 .	23	654	65 4 22 1 34	•	43 21 · 41
Dec.	379,548	924 19	21,050 91	35,009 77	2,627 34	17,697 19	3,240 81	2,717 53	83,267 74	.24	5.559	67	69 4 · 66	٠.	÷.	72 21 .93
1895—Jan	400,639	934 60	22,128 82	39,342 14	2,381 86	17,205 18	2,857 95	1,981 80	86,832 35	53	5.539	8.8	594.	4.30	7	49 21 .67
Feb.	378,849	947 04	20,505 22	37,654 59	2,683 39	19,137 84	2,008 89	2,254 38	85,191 35	33	5.419.	.94	71 5.05	· 	33	59 22 · 48
Mar.	438,587	934 33	23,410 06	42,198 43	2,018 68	14,399 56	2,997 87	1,880 69	87,839 62	5 7.	5.34 9	22	46 3 35	•	· · · · · · · · · · · · · · · · · · · ·	42 20 .03
April.	433,475	961 62	23,235 03	38,549 76	2,812 30	23,466 62	2,212 13	1,609 79	92,847 25	•	23 5 36 8 89	- 68	64 5 . 41	•	22	38 21 · 42
May.	408,846	1,038 05	22,267 00	32,495 71	2,850 48	20,575 46	2,352 09	1,407 55	82,986 34	•	25 5 45 7 95	- 65	70 5 .03		22	43 20 29
June	374,925	978 70	21,096 18	28,347 12	2,240 11	14,918 22	1,080 16	523 86	69,184 35	22	5.637	69. 2	593	86	83	14 18 45
Totals .	4,879,981	11,692 18	266,207 80	427,404 50	31,216 63	250,521 48	37,458 65	19,155 33	1,043,656 57	.24	5.46	8.75	64 5.	5.13	77	39 21 .38

JOHN SUTTON,
Mechanical Accountant.

oncron, N.B., 30th June, 1895.

E,-INTERCOLONIAL RAILWAY.

GENERAL STATEMENT of the Expenses of the Mechanical Department, for the Year ending 30th June, 1895.

The miles run	by train were			3,999,242
do	engines			4,879,981
фo	cars			45,277,909
do	snow ploughs		· ··· · · · · · · · · · · · · · · · ·	83,282
Cost of locomo	tive power			\$ ets. 1,043,656 57
Cost of repairs	s to cars:			\$ cts.
Repairs to	passenger cars			68,610 40
do	postal, express and	baggage		22,743 41
do	freight cars and va	ns		183,153 70
do	snow ploughs and f	langers		8,923 27
Oil and w	aste for packing			18,883 41
	Total			302,314 19
				\$ cts.
The cost of lo	comotive power per	100 miles run	by trains	26 09
do	do	do	engines	21 38
do	do	do	cars	2 30
		1 100		\$ cts.
			miles run by trains	7 09
do	do	do	engines	5 81
do	do	do	cars and ploughs	0 62
		. 100		\$ ets.
	_		iles run by trains	0 47
	lo do	do	engines	0 39
Ċ	lo do	do	cars and ploughs	0 04
The cost of re	pairs to cars per 100	miles run by	them:	\$ cts
Passen	ger	• • • • • • • • • • • • • • • • • • • •		1 22
Postal,	express and baggage	e	· · · · · · · · · · · · · · · · · · ·	9 76
Freigh	cars and vans			0 49
Plough	s and flangers		• • • • • • • • • • • • • • • • • • • •	10 71

JOHN 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.
	94.						
July do	2 6	5.20 18.00	74 Special.	Accommodation Working	W. J. Ross Geo. Lamkie	John Gratton F. Probert	48 43
do	13	13.50	do	Freight	P. Carle	R. Kennedy	183
do	17	23.15	9	Express	J. H. Sproull	R. McDonald	106
do	18	10.00		•••••			••••
do	23	9.00	Special.	Freight	J. B. Pollock	W. White	92
do do	24 28	18.20 13.47	do 5	Passenger	W. L. Broad R. A. Rainnie	J. Stewa ,jr G. Milne	175 60
do	30	8.25	Special.	Working	J. Henderson	F. Probert	122
, do	24	9.35	46	Express	B. Walker	C. Sawyer	151
do do	31 31	14.30 19.30	Special	Shunting	E. Herritt	John Phinney D. Duncan	99 186
Aug.	1	17.30	42 16	do	J. A. Bernier G. C. Keys	T. Matheson	30
do do	10 11	5.45 17.40	Special.	Passenger	W. L. Broad	W. F. Hicks	175 209
do	5	24.50	do	Freight	F. Brown	W. White	39
do do	16 17	$12.30 \\ 15.00$	88	Accommodation	Jas. McDonald.	John McDonald	46
do	18	10.40	46	Passenger	B. Walker	C. Sawyer	151
do Sept.	31 6	18.47 20.05	86 Special	Express	J. Craigie	A. McLeod D. Duncan	145 186
do	7	8.45	do		C. A. Atkinson		9
do	11	9.30	16	Freight	E. Thompson	F. H. Moore	113
do	13	10.30	Special	do	E. Herritt	J. Dunbar	4
do	14	11.30	16	do	J. J. Daley	Geo. Feetham	78
do	18	14.10	Special	do	A. Gamache	T. Henry	83
do do	20 24	14.05 14.00	15	do	J. J. Daley	Geo. Feetham	78
do	29	24.40	34			W. Bastien	200
Oct. Nov.	8 2	$11.15 \\ 7.50$	14	Quebec Central.	J. Guay F. A. Davison	M. A. Varney	10 134
do	5.	17.00					
do	5	13.45	Special	Freight	W. W. Gordon	D. Duncan	186
	ł		1		9 6	1	

RAILWAY.
line of the Intercolonial Railway during the year ended the 30th June, 1895.

Place of Accident.	Name of person injured.	Whether Passenger or Employee.	Particulars of Accident.	Extent of injury.	Verdict of Coroner's Jury.
Pugwash Junc	Chas. Teed Allen Mahaney	Neither Employee	Walking on track Struck by piece of a crane which was broken by two parts of train colliding.	Leg injured	Accidental.
	R. Kennedy	l .	Slipped and put his hand	Arm do	
Truro	John Christie	Neither	Jumped off train while in motion.	Head do	
Truro	John Wright	Employee	arm was knocked down on	Seriouslyinjured	
River Philip	James Weir	do	his head. Slipped and fell while gett- ing on train.		
Moncton Brookville	Harry Hunter A. Lockhart	Passenger Employee	Jumped off train in motion. While applying brake, ratchet wheel broke.	Head &hand inj. Hand injured	
Anagance	M'yfi'ld Goddard		Slipped and fell while at- tempting to get on train	iured.	
	Wm. Collins	do Pullman Co'.	in motion. Attempting to get on train in motion. While coupling core	Slightly injured.	
Truro	Ed. Hennesey Jas. Gillis A. Roussell J. A. McDonald. Dan'l. Gillis	Employee	While coupling cars	Fatal	Accidental
			tempting to get on train in motion. Fell off end of box car in motion.		
	Wm. Hyatt M. McDonald	do do	While coupling cars Fell while getting off a gon- dola which he was repair-	Leg broken	
St. Jean Port Joli	A. Robichaud (Aged 2½ years).	Neither	on track	Fatal	Accidental.
Near N. Sydney Albion Siding	John Day	Neither	Walking on track	Fatal Foot and leg injured.	Accidental.
Bartibogue	A. Legouff	do	Carelessly sitting between two platform cars of train in motion.	Back and leg in-	
Truro	E. Thompson	do	Fell out of van door while train was in motion.	Considerably in-	
Mulgrave	L. Douglass	do	Slipped and fell under wheel while shunting.	Leg broken	
Windsor Junc- tion.	N. Hopper	do	While loading freight a piece of casting fell on his foot.	Foot injured	
	A. Deschamplain		Fell against window of car while applying brakes.		·
St. John	Jacob Belyea	Employee	Walking on track While loading castings Fell off platform of train in motion.	Foot injured	Accidental.
Lévis	Wm. Simpson E. Crowe Byron Wood	Employee	Crossing track	Slightly injured.	Accidental.
Bayfield Road $\Big\{$	Mrs. Albert Randall. Mrs. Ambrose Randall.	do	Crossing track in team	Head and knee injured. Slightly injured.	
1	nanuali.]	97	·	

INTERCOLONIAL

RETURN of Accidents and Casualties which have occurred in Canada

Date								
Nov. 7, 15:00 do 12, 15:40 36 11:540 37 Freight J. W. Henderson F. Fogarty 188 25 30 21:730 30 18 188 25 30 37 Freight J. Buchanan W. Boyd 95 25 20 40 21:650 4 Grand Trunk — Dussault — Linahan 187 20 30 45 Accommodation R. W. Orchard D. C. Gallon 15 15 15 30 45 Accommodation R. W. Orchard D. C. Gallon 15 15 15 15 30 45 Accommodation R. W. Orchard D. C. Gallon 15 15 15 15 15 15 15 15 15 15 15 15 16 16 15 16	Dat	te.	Time of Day.	No. of Train.				No. of Engine.
1895	Nov. do do do Dec.	7. 12. 14. 21.	15 · 40 12 · 30 7 · 30 22 · 40	Special	FreightShuntingFreight	J. W. Henderson J. Buchanan	E. S. White	25 95 182
Jan. 17 19 35 Shunting H. McDonald. 160				45	Shunting	R. W. Orchard		
do 28					(}	1	160
Feb. 3	do	28.	9.35	Special	Snunting]	iii. McAuley	
do 11	Feb.	3.	9.30	Special	Freight	A. McLeod	A. Sutherland	86
do 14 14 10 Special. Working J. A. White S. A. Watson 165 do 15: 8:00 Shunting J. A. White S. A. Watson 99 do 21: 11:00 40 Freight J. A. Davidson J. Williamson 13 do 23: 11:00 Shunting J. R. Fisher P. Peterson 182 March 4: 13:00 Shunting J. W. Boyd 95 do 14: 11:40 25 Express W. Kelly S. Trider 36 do 27: 15:00 Special. Freight T. Coffey N. Sinclair 208 do 29: 1:15 Shunting M. White 180 do 23: 00 Special. Freight W. Bovard S. W. Carson 108 April = 1: 13: 30 Shunting J. McDowell 99 do 15: 20 do J. McDowell 99 do 1: 13: 30 Special. Freight J. R. Fisher L. Starratt 58 <td>do</td> <td>9.</td> <td>• • • • • • • • • • • • • • • • • • •</td> <td>7</td> <td>Quebec Central</td> <td></td> <td> </td> <td></td>	do	9.	• • • • • • • • • • • • • • • • • • •	7	Quebec Central			
do 23 11 00 Special. Freight. J. R. Fisher P. Peterson 182 March 4. 13 00 Shunting J. W. Boyd 95 do 14. 11 40 25 Express. W. Kelly S. Trider 36 do 20. 11 00 Special. Freight. T. Coffey N. Sinclair 208 do 23. 23 00 Shunting M. White 180 April 1 13 30 Special. Freight. W. Bovard S. W. Carson 108 April 2 1 13 30 April 30 od Go J. McDowell 99 do 1 15 20 od do J. R. Fisher L. Starratt 58 May 1 13 40 od do J. B. Swetnam W. C. Hunter 158 do 4 8 20 od do J. Buchanan P. Peterson 58 do 7 15 45 od do do L. S. Belanger T. Matheson 200 do 25 8 45 od do do	do do	14. 15:	14·10 8·00		Working	J. A. White	S. A. Watson	165 99
do 14. 11 '40 25 Express. W. Kelly S. Trider. 36 do 20. 11 '00 .	do	23.	22.00 11.00 7.15	40 Special	Freight Shunting Freight	J. A. Davidson J. R. Fisher	J. Williamson Jas. McDermott P. Peterson	89
do 20. 11 00	Marc	h 4.	13.00		į	i e	1 .	
do 7 27 do 29 do 29 do 30 do 30. Special. Freight. Shunting. Special. Freight. W. Bovard S. W. Carson 108 April 1 3 30 Special. Shunting Shunting D. Shunting Shunti				25	Express	W. Kelly	S. Trider	36
April 1 13 30 Shunting J. Stockall 184 do 1 15 20 do J. McDowell 99 do 1 21 30 Special Freight J. R. Fisher L. Starratt 58 May 1 13 40 do do Jas. Swetnam W. C. Hunter 158 do 4 8 20 do do J. Buchanan. P. Peterson 58 do 7 15 45 do do Ls. Belanger T. Matheson 200 do 25 8 45 do do G. W. Hoppsr L. King 160 June 15 7 00 do Working B. McLennan. Jno. G. McDonald 32	do	20.	11.00					
do 1. 21 30 Special. Freight J. R. Fisher. L. Starratt 58 May 1. 13 40 do 40 do Jas. Swetnam W. C. Hunter 158 Swetnam W. C. Hunter 158 Swetnam P. Peterson 58 Swetnam Freight 158 Swetnam P. Peterson 58 Swetnam Freight 158 Swetnam P. Peterson 58 Swetnam P. Peterson 58 Swetnam P. Peterson 58 Swetnam P. Peterson 58 Swetnam Compared 158 Swetnam P. Peterson 200 Swetnam 200 Swetnam P. Peterson 200 Swetnam	do	. 29 . 30	1·15 23·00	Special.	Shunting	W. Boyard	M. Sinclair M. White S. W. Carson J. Stockall	180 108
May 1. 13 40 do do do do Jas. Swetnam W. C. Hunter 158 do do do J. Buchanan P. Peterson 58 do do do Ls. Belanger T. Matheson 200 do 25. 8 45 do do do G. W. Hoppsr L. King 160 June 15. 7 00 do Working B. McLennan Jno. G. McDonald 32	do	1.	15.20		do	1	1	99
June 15. 7.00 do Working B. McLennan Jno. G. McDonald 32	May do	1. 4.	13·40 8·20	do	do	J. R. Fisher. Jas. Swetnam J. Buchanan. Ls. Belanger.	L. Starratt W. C. Hunter P. Peterson T. Matheson	158 58
	do	25 .	8.45	do	1		1	160
do 21. 21.30 Shunting	June	15.	1	do	-	l .	t I	
	do	21.	21.30	·····	Shunting		J. Phinney	99

RAILWAY.
on the Line of the Intercolonial Railway, &c.—Concluded.

Place of Accident.	Name of person injured.	Whether Passen- ger or Employee.	Particulars of Accident.	Extent of injury.	Verdict of Coroner's Jury.
St. John Moneton	D. McCarthy	Employee Neither	While loading fish in car Walking on track While coupling cars do do Lying alongside of track	Wrist injured Slightly injured.	
Chatham Junct'n Truro	Thos. Lester	do	do do	Thumb injured	
Levis	Etienne Guay	uo	train in motion	neg moken	
Halifax Ste. Flavie	Ed. O'Grady W. Keith	Employee do	While uncoupling cars Jumped off tender of engine	Leg injured Leg and arm in- jured.	
Truro	J. D. McDonald.	do	Slipped while stepping on engine in motion.	Foot injured	
Truro	Jos. Michaud Jno. Glenfield W. Atkinson	do	Engine colliding with cars. While coupling cars Fell off ladder while lighting	Hand injured	
	C. Atkinson	do	telegraph signal. Run off of No. 34 train do do	jured. Slightly injured. do do .	
Mulgrave	Yuill Ross A. Hayman	do	While coupling cars While gilpoking a car out of	Hand injured	
Bennett's Cross'g	Louis Proulx	$\mathbf{do} \dots \\ (\mathbf{Que}, \mathbf{Cent}.)$	siding. Struck by overhead aque- duct,	Fatal	Accidental.
Moncton	Chas. Brunt Rich'd Cullens J. D. McDonald.	do	While coupling cars Fell off train in motion While shunting	Wrist broken	
Monoton	Lias Steadman	do Neither	Fell off train in motion Lying on track	Fatal	Accidental.
Moneton Riversdale	Jere. Murphy David Gibson Neil McDougall.	do	Fell off end of box car Foot caught in frog while shunting.	Fatal	Accidental
	Thos. Lester	1	Foot caught between rails while shunting.	_	
	Jno. McCracken		Jumped off train in motion.	cated.	
	J. E. Vincent		Struck by a piece of timber which was being hoisted out of a vessel.		!
Truro	Hy. Fraser	Employee	Crossing track in team While coupling cars	Finger injured	Accidental
Adamsville Truro	D. Armstrong Jno. Glenfield	do	do do While uncoupling steam hose pipe.	Arm scalded	
	Jno. Finlayson.	t .	Struck by engine while working on track. While coupling cars	jured.	1
Riversdale	J. Weir E. Thomson S. Thomas	do do do	do do	do Finger injured.	1
Sayabec.	TILOUIS UNASSE.	t .	Attempting to cross track.		
Atkinson's Siding Windsor Junct.	C. Brunt Ed. Weeden	Employee do	While coupling cars	Hand injured Leg broken	
Truro	Hy. Grant (Coloured).	Neither	Slipped while getting of car in motion.	Fatal	Accidental

WINDSOR BRANCH RAILWAY.

OFFICE OF THE GENERAL MANAGER OF GOVERNMENT RAILWAYS,
MONCTON, N. B., 9th September, 1895.

Sir,—I have the honour to submit the following statements showing the results of the working of the Windsor Branch Railway for the year ended the 30th June, 1895:—

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 perma-

nent way and works.

This line, 32 miles in length, was operated during the year by the Windsor and Annapolis Railway Company, now called the Dominion Atlantic Railway Company, on the same terms as last year, the company being allowed to retain two-thirds of the gross earnings, the balance, one-third, being paid over to the Government, the latter maintaining the line.

There was an increase in the earnings accruing to the Government when com-

pared with last year, as follows:-

In 1894-95 1893-94	\$39,077 32,975	64 47
	\$ 6,102	
There was a decrease in the expenses of maintenance as follows:	llows:—	
In 1893-94	\$17,645 14,640	09 07
	\$ 3,005	
The earnings and expenses compare as follows:—		
Earnings Expenses	\$39,077 14,640	64 07
	\$24,437	

The necessary repairs and renewals were made, and the permanent way and works are in good order.

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

D. POTTINGER,

General Manager, Government, Railways.

COLLINGWOOD SCHREIBER, Esq., C. M. G.,
Deputy Minister and Chief Engineer,
Railways and Canals.

No. 1.-WINDSOR BRANCH RAILWAY.

REVENUE ACCOUNT for Year ended 30th June, 1895.

Previous Year.	Expenditure.	Year ended 30th June, 1895	Previous Year	Earnings.	Year ended 30th June, 1895.
\$ cts.		\$ cts.	\$ ets.		\$ cts.
17,645 09	Maintenance way and works, Abstract No. 1.	14,640 07	12,483 64	Passenger traffic	13,581 18
15,330 38	Balance	24,437 57	1,151 84	Freight traffic	24,348 30 1,148 16
32,975 47		39,077 64	32,975 47		39,077 64

E. & O. E.

T. WILLIAMS,
Chief Accountant and Treasurer.

Moncton, N.B., 30th June, 1895.

No. 2.—WINDSOR BRANCH RAILWAY.

MAINTENANCE of Way and Works-(Abstract No. 1).

Previous Year.	Particulars.	Year ending 30th June, 1895.
\$ cts.		\$ cts.
9.783 98	Repairs of track	7,823 83
2,836 16	Rails and fastenings.	1,139 28
1,378 97	Ties.	2,848 80
	Bridges	64 46
39 90	Signals	79 83
	Switch locks.	1 20
	Culverts and cattle guards.	35 40
347 68	Wharf at Windsor	35 50
280 66	Buildings and platforms.	640 60
51 40	Hand cars and trolleys	72 46
411 07	Clearing snow and ice	439 66
145 26	Tools, and repairs of same	212 37
418 20	Fencing	320 76
1.142 08	Accountant's office and expenses.	912 41
35 87	Miscellaneous	13 51
	TAIL COMMITTEE STATE OF THE STA	15 51
17,645 09		14,640 07

E. & O. E.

T. WILLIAMS, Chief Accountant and Treasurer.

Moncton, N.B., 30th June, 1895.

No. 3.—WINDSOR BRANCH RAILWAY.

Dr.	GENERAL BALANCE	, year en	ded 30th	June, 1895.	Cr.	
D	d rails accountominion Atlantic Railway tores Department	3,381 78	1895. June 30	By Dominion of Canada	-	

E. & O. E.

T. WILLIAMS,

Chief Acct. and Treas.

MONOTON, N.B., 30th June, 1895.

No. 4.—WINDSOR BRANCH RAILWAY.

MONTHLY STATEMENT OF RECEIPTS—One-third Earnings.

Month.	Passenger Traffic.		Mails.		Freight Traffic.		Totals.	
1894—July August September October November December 1895—January February March April May June	\$ c 1,710 6 2,432 9 1,941 6 1,063 8 833 2 881 7 699 0 506 6 618 2 817 2 899 8 1,175 9	94 52 58 88 29 71 97 75 55 26 87	99 92 96 96 96 94 94 94 95	cts. 68 36 00 91 91 90 46 45 45 68 68	\$ 1,559 1,408 2,644 3,350 2,729 2,328 1,983 1,799 1,752 1,578 1,743	03 48 83 89 75 54 34 24 77	\$ 3,365 3,940 4,678 4,511 3,660 3,307 2,777 2,400 2,464 2,491 2,739 2,734	33 10 62 09 36 07 44 94 71
	13,581 1	_ _	1,148		24,348		39,077	

E. & O. E.

T. WILLIAMS,

Chief Acct. and Treas.

Moncton, N.B., 30th June, 1895.

INTERCOLONIAL RAILWAY OF CANADA, OFFICE OF THE CHIEF ENGINEER. Moncton, N.B., 7th September, 1895.

SIR-I have the honour to submit my report for the maintenance of the Windsor Branch for the year ending 30th June, 1895.

TRACK.

Three miles of old iron rails have been taken up and renewed with four and a quarter 56 pound steel rails. Four thousand feet of old iron taken up has been used for the renewal and repairs of sidings.

TIES.

During the year 4,589 ordinary ties, and 5 sets of single throw switch ties have been renewed.

BALLASTING.

About seven miles of the branch has received a lift of ballast, amounting to 3,550 yards. This ballast was hauled from Truro, there being no suitable material on the branch.

SIDINGS.

The siding at St. Croix which has been unused for some years was replaced to provide accommodation for the business connected with the new mill recently put in that place by Mr. T. G. McMullen of Truro.

Six frogs and six sets of switch gear were renewed on the branch.

FENCING.

Three hundred and ninety rods of woven and barbed wire fence have been put up in place of the old pole fence.

A snow fence 550 feet long was rebuilt at Hibbet's Siding.

BRIDGES AND CULVERTS.

A new stone culvert 3 by 4 was put in two and a half miles west of Beaver Bank.

Two pairs of spruce cattle guards at Newport and Smith's Crossing were renewed with cedar.

BUILDINGS AND PLATFORMS.

At Windsor the station and freight shed were thoroughly overhauled, repaired and painted.

At Newport the roof station was recovered with shingles and painted; the

interior of building was also overhauled, repaired and painted.

At Mount Uniacke the roof of station was renewed with cedar shingles and painted.

At Beaver Bank the walls and roof of station were painted, the ceilings were whitewashed, and the interior walls painted.

The platforms at Ellershouse and Three-mile Plains were entirely renewed, and cedar sills and pine used instead of spruce and hemlock.

GENEBAL.

The freight houses, tool houses, cattle pens and approaches to public crossings were overhauled and whitewashed throughout the branch.

Necessary repairs were made to the wharf and Windsor, and a new siding was

put in for the shipment of plaster at the expense of the shippers.

The old iron rails have now been all removed, and the track is in excellent order throughout the branch: not a wheel has been off the track during the year.

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

> > P. S. ARCHIBALD,

Chief Engineer.

D. POTTINGER, Esq., General Manager, Government Railways, Moneton.

PRINCE EDWARD ISLAND RAILWAY, OFFICE OF THE GENERAL MANAGER OF GOVERNMENT RAILWAYS. Moncton, N. B., 11th September, 1895.

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, 1895.

I inclose the report of the Superintendent including statements of the various

accounts.

The mileage of railway in operation was the same as last year, 210 miles.

There was no expenditure on capital account during the year, the total cost of the railway on the 30th June, 1895, being \$3,750,565.38.

> The working expenses for the year were...... 232,905 19 The gross earnings were...... 149,654 78

> > \$ 83,250 41

In comparison with the previous year, there was a decrease of earnings of \$8,879.05, and an increase of working expenses of \$6,014.13.

The decrease of earnings was chiefly in freight traffic which fell off \$6,881.72. The necessary repairs and renewals were made, and the railway and rolling

stock are in a state of efficiency.

The work of relaying the track with steel rails was continued, and twelve and three-quarter miles of track were relaid: the iron rails weighing forty pounds to the yard were replaced with new steel rails weighing fifty pounds to the yard. Last year nine miles were relaid. The additional cost of this work, together with the increased cost of operating the railway due to a very stormy winter, account for the increase of working expenses over last year.

I have the honour to be, sir.

Your obedient servant,

D. POTTINGER.

General Manager, Government Railways.

COLLINGWOOD SCHREIBER, Esq., C.M.G., Deputy Minister and Chief Engineer, Railways and Canals. 104

PRINCE EDWARD ISLAND RAILWAY,
SUPERINTENDENT'S OFFICE,
CHARLOTTETOWN, P.E.I., 10th September, 1895.

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, 1895.

I also inclose the following statements prepared by the Accountant, Auditor

and Mechanical Accountant:

- 1. Capital account.
- 2. Revenue account.
- 3. Locomotive power (abstract No. 1).

4. Car expenses (abstract No. 2).

- 5. Maintenance of way and works (abstract No. 3).
- 6. Station expenses (abstract No. 4).
- 7. General charges (abstract No. 5).
- 8. General stores account.
- 9. General balance.
- 10. Comparative statement of averages.
- A. Monthly statement of the cost of locomotive power.
- B. Statement of the performance and consumption of locomotives.

C. Monthly statement of car mileage.

- D. Statement showing number of locomotives cars, snow ploughs and flangers.
- E. Comparative statement of the expense of the mechanical department for the year ended 30th June, 1895.

The mileage of railway in operation during the year was the same as stated in last year's report, 210 miles.

CAPITAL ACCOUNT.

REVENUE ACCOUNT.

Business during the year has not been good, owing to poor crops and dull markets. Last year's yield of potatoes and oats—the two staple articles of export—was much below the average, and the market price of same being low there was no activity in the export trade of the province. Competition by water carriage during the season of open navigation is also becoming keener year by year, there being regular lines of first-class steamers between the principal island ports and Boston, Halifax and Montreal. Passenger traffic during the past year has also been affected adversely by the dulness incidental to short crops and poor markets; also by the stormy winter impeding travel by rail.

The expenditure and earnings for the year compare as follows:-

Expenditure	\$232,905 149,654	19 78
	8 83 250	41

The gross earnings compare as follows with the previous	yea	ar:	
In 1894–95		149,654 1 5 8,533	
	8	8,879	05
The earnings from passenger traffic compare as follows:— In 1894–95		62,239 64,15 9	
	\$	1,920	23
The earnings from freight traffic compare as follows:— In 1894-95	\$ -	68,061 74,942	
	8	6,881	72
The earnings from mails and sundries compare as follows In 1894-95		19,354 19,431	40
	=	77	10
The number of passengers carried compares as follows:— In 1894-95		125, 123,	
	=	1,	362
The weight of freight carried compares as follows:— In 1894-95		48, 53,	ns. 325 577
	=	5,	$\frac{252}{=}$

WORKING EXPENSES.

The working expenses exceed those of the previous year by \$6,014.13. There is an increase of \$4,598.22 for fuel, chargeable to the locomotive department, \$3,873.73 for clearing ice and snow, and \$4,115.20 for rail renewals, these three items

aggregating \$12,587.15.

Owing to frequent and heavy snow falls accompanied by violent wind storms during the winter months, great difficulty was experienced in keeping the line open. It was by far the worst winter for railroading in this province since that of 1882, but every reasonable effort was made to keep trains moving. The expenses for clearing the track of ice and snow were heavy, amounting to \$13,568.67, and the necessary running of two engines on trains during a great part of the time added very materially to the expenses of the locomotive department.

The working expenses compare as follows with the previous	ous year:-	-
In 1894–95		
1893–94	226,891	06
	\$ 6,014	13

The averages compare with last year as follows:-

Per mil	e run	by	engines:
---------	-------	----	----------

,	Cents.
In 1894–95	
1893–94	$73 \cdot 94$
Per mile run by trains:—	
In 1894–95	95.35
1893–94	$96 \cdot 92$
Per mile of railway:—	
In 1894–95	\$ 1.109 07
1893–94	1,080 73

TRACK.

During the year 1,000 tons steel rails and fastenings were used to replace 12\frac{3}{4} miles iron rails. The former weigh 50 pounds to the yard, and the latter 40 pounds. Four miles of the new rails were laid between Tracadie and Mount Stewart and 8\frac{3}{4} miles between Ellerslie and Coleman. At the close of the year 113\frac{3}{4} miles of track had been relaid with steel rails, leaving 96\frac{1}{4} miles old iron rails still to be replaced. Steel rails now extend from Charlottetown west to Coleman, and from Royalty Junction East to within a short distance of Mount Stewart.

TIES.

Fifty-five thousand ordinary ties were renewed during the year, and 3,000 culled ties were used in yards and sidings; 33 sets switch ties and 25 head-blocks and frames were also renewed.

BALLASTING.

During the year 11,550 cubic yards of ballast were distributed where most needed.

SIDINGS.

Five hundred and twenty-eight feet additional siding accommodation were provided at Kensington, and a new siding was put in at Summerside for Mr. J. E. Lefurgey.

FENCING.

During the year 21,748 feet of woven wire and 52,172 feet barbed wire fence,—making a total of 14 miles,—were erected to replace old fence worn out.

Seven hundred feet new snow fence were put up and 9,890 feet old snow fence

Ninety farmers' gates were renewed, and a great deal of time was given to repairs of old fence.

BRIDGES AND CULVERTS.

Cedar abutments were placed under the end spans of St. Peter's Bridge.

A pile bent was put under centre span of Bradalbane Bridge, and repairs were made to other bridges where necessary.

Thirty cattle guards and 5 timber culverts were rebuilt.

Two tile culverts were replaced with iron pipe, and masonry of all bridges and culverts was pointed with cement.

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WATER SERVICE.

Two new Haggis tanks were put in at Summerside, and the tanks at Ashton, Mount Stewart, Tracadie, Milton, Elliott's and West Devon were renewed.

BUILDINGS AND PLATFORMS.

At Dundee flag station and platform were rebuilt, and station painted.

At Fredericton flag station and platform were rebuilt and station painted.

At Piusville flag station and platform were rebuilt and station painted.

At DeBlois flag station and platform rebuilt.

Platform was renewed at Bear River Station.

At St. Peter's platform was renewed.

At North Wiltsbire the platform was renewed. The platform was renewed at Freetown station.

At Kensington platform was renewed. At Wellington platform was renewed.

Port Hill station was raised three feet, and new sills and timber foundation placed under it. A new pitch and gravel roof was put on the building and the old chimneys were taken down and replaced by one new chimney. The building was painted outside and the waiting room, office and dwelling painted and whitewashed.

The roof of Kensington station was renewed with pitch and gravel, and other

necessary repairs made to the building.

A new floor was put in waiting room at Alberton station, and the building was otherwise repaired. New sills were placed under the freight house at Alberton.

A new floor was put in kitchen of agent's dwelling at Tignish.

New tool houses were built at Conway and Dundee.

The engine house and freight shed at Summerside were partially reshingled. The roof of round house at Charlottetown was renewed with pitch and gravel, and four new skylights put in. The cupola of round house was painted and partly

Sixty thousand shingles were put on the roof of the car shop.

Two furnaces were rebuilt in the coppersmith's shop.

WHARFS.

For necessary repairs to Summerside wharf the following material was used:-One hundred and fifty tons hard stone, 140 tons hemlock timber, 10,000 feet hemlock plank, 10 hardwood piles 40 feet long and 500 cubic feet ballast.

Fifty tons hemlock timber, 8,000 feet hemlock plank and 150 cubic feet ballast

were used in repairing wharf at Charlottetown.

Georgetown wharf was repaired, 25 tons hemlock timber, 500 feet hemlock

plank and 100 cubic yards ballast being used.

Twenty fenders were put on Souris wharf, and 200 tons hard stone were put on it, besides other necessary repairs.

Fifty tons hemlock timber, 60 tons hard stone and 10 fenders were used in

repairing Alberton wharf.

The wharfs at the different points on the line are very expensive to keep in good repair, particularly that at Summerside, where the traffic is heavy, and the timber subject to destruction by worms.

ROLLING STOCK.

The following is a summary of the principal work done:—

Locomotive Repairs.

Five engines received heavy repairs, and six medium repairs; 18 boilers were tested, 4 fire boxes were patched, and 700 tubes pieced.

The following new parts were supplied:-

One cylinder, 1 front tube sheet, 350 tubes, 20 tires, 4 crank pins, 12 straps for side and main rods, 3 cabs, 6 pilots, 5 smoke stacks, 3 tender trucks and 1 tender frame.

Thirteen engines and tenders were painted and varnished. Three engines and tenders were renovated and varnished.

Car Repairs.

Rebuilt.—1 baggage car, 3 platform cars and 1 snow plough.

Heavy repairs.—2 first-class, 1 second-class, 2 second-class and baggage, 1 baggage, 1 postal, 2 vans, 4 box, 15 platform cars, 2 snow ploughs and 3 flanger cars.

Medium repairs.—6 first-class, 4 second-class, 4 second-class and baggage, 2 postal, 20 box and 20 platform cars, 2 snow ploughs and 1 flanger car.

Painted and vanished.—2 first-class, 5 second-class, 2 second-class and baggage.

2 postal and 1 baggage car.

Renovated and varnished.—4 first-class, 5 second-class and baggage and 1 postal and smoking.

STORES.

On 30th June, 1895, the value of stores on hand was:-

General stores		
Rails and fasteningsOld material serviceable	52,407	36
Total	\$ 106,748	57

The purchase of stores during the year amounted to \$84,387.46, the greater part of which was obtained from the General Railway Store at Moncton.

CASUALTIES.

A regrettable accident occurred at Kensington on 6th September, 1894. Mr. Chas. E. Robertson, of Charlottetown, while attempting to board a passenger train in motion, missed his footing and fell, the wheels on rear truck of passenger car passing over his legs and crushing them. Medical attendance was immediate, and one leg was amputated at once; but the shock was so severe that death resulted in an hour after the accident. No blame was attached to the train hands, and an inquest was not considered necessary.

STAFF CHANGES.

I assumed the local management of the road early in September last, succeeding the late Mr. Unsworth, whose unexpected death in the midst of a life of usefulness was universally regretted. Mr. H. W. Anderson was at the same time appointed mechanical foreman, and Mr. J. J. Chappéll mechanical accountant and storekeeper.

GENERAL.

Every reasonable effort has been put forth to maintain the road and its equipment in a state of efficiency, and I am pleased to be able to report the track, rolling stock and buildings in a satisfactory condition.

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

> A. McDONALD, Superintendent.

D. Pottinger, Esq., General Manager, Government Railways, Moneton, N. B.

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Dr.

Cr.

No. 1.—PRINCE EDWARD ISLAND RAILWAY.

Dr.		CAPITAL	CR.		
1894.		\$ cts.	1894.	\$	cts.
June 30. 1895.	To cost of road and equipment to date		June 30. By Dominion of Canada	3,750,565	3 8
June 30.	To expenditure, year nded 30th June, 1895		June 30. do do		· · · •
		3,750,565 38		3,750,565	38

W. T. HUGGAN,

Accountant and Auditor.

CHARLOTTETOWN, P.E.I., 30th June, 1895.

No. 2.—PRINCE EDWARD ISLAND RAILWAY.

REVENUE Account for year ended 30th June, 1895.

Previous Year.	Expenditure.	Year en 30th Ju 1895	ine,	Previ Yea		Receipts.	Year en 30th Ju 1895.	ne,
\$ cts.		\$	cts.	*	cts.		\$	cts.
32,997 48	Locomotive power	34,133	3 09	64,159 74,942 19,43	2 83	Passenger traffic Freight traffic Mails and sundries	62,239 68,061 19,354	11
26,132 39 10,523 25	works	101,599 26,548 9,138	3 71	158,533 68,357	3 83 7 23	Total receiptsBalance	149,654 83,250	
226,891 06	Totals	232,905	5 19	226,893	L 06	Totals	232,905	19

W. T. HUGGAN,
Accountant and Auditor.

No. 3.-PRINCE EDWARD ISLAND RAILWAY.

LOCOMOTIVE POWER—(Abstract No. 1).

Previous Year.		Details.	Year ended 30th June, 1895.		
\$	cts.		\$	cts.	
	96	Mechanical superintendent's salary, clerks, office and travelling expenses	845		
15,770	34	Wages of drivers, firemen and cleaners	16,515		
13,099	55	Fuel Oil, tallow, waste and small stores	17,697		
2,708	13	Oil, tallow, waste and small stores	2,436		
22.286	14	Repairs to engines, tenders and engine tools	21,442		
797	62	Water, including pump and tank repairs	1,294	37	
1,899	00	Miscellaneous	1,253	75	
57,457	74	Totals	61,485	54	

W. T. HUGGAN,

Accountant and Auditor.

CHARLOTTETOWN, P.E.I., 30th June, 1895.

No. 4.—PRINCE EDWARD ISLAND RAILWAY.

CAR EXPENSES—(Abstract No. 2).

Previous Year.		Details.	Year ended 30th June, 1895.	
\$	cts.		\$	cts
8,689	62	Repairs to passenger cars	6,959	55
1,149	75	do postal and baggage cars	2.734	
6,363	15	do freight cars and vans	4.841	
		do snow ploughs and flangers	2,481	
13,277	36	Wages of conductors, train baggage and brakesmen	13,419	
	94	Oil and waste for packing.	537	
2,313	30	Small stores and fuel	2,409	
783	36	Miscellaneous	748	99
32,997	48	Totals	34,133	09

W. T. HUGGAN,
Accountant and Auditor.

No. 5.—PRINCE EDWARD ISLAND RAILWAY.

MAINTENANCE OF WAY AND WORKS-(Abstract No. 3).

Previous Year.	Details.	Year ended 30th June, 1895.
\$ cts.		\$ ets.
482 46	Engineer's salary, clerks, office and travelling expenses	293 27
35,666 47	Wages in repairing roadway, fences and semaphores	30,843 88
	Rails, chairs and spikes	19,353 64
18,126 29	Timber and lumber for repairs to bridges, cattle-guards, fences, &c	19,028 67 7,217 67
10,438 72 3,560 75	Repairs to wharfs	2,216 91
6,240 05	do buildings and platforms	8,199 10
1,603 70	do buildings and platformsdo tools	877 49
	Clearing ice and snow	13,568 67
99,780 20	Totals	101,599 30

W. T. HUGGAN,
Accountant and Auditor.

CHARLOTTETOWN, P.E.I., 30th June, 1895.

No. 6.-PRINCE EDWARD ISLAND RAILWAY.

STATION EXPENSES—(Abstract No. 4).

Previous Year.	Details.	Year ended 30th June, 1895.
\$ cts.		\$ cts.
19,523 06	Salaries and wages of station-masters, agents, clerks, telegraph operators, station baggage-masters, yardmasters, switchmen, watchmen and labourers. Fuel, oil, light, stationery and other incidental expenses	19,636 02
6,609 33	Fuel, oil, light, stationery and other incidental expenses	6,912 69
26,132 39	Totals	26,548 71

W. T. HUGGAN,
Accountant and Auditor.

No. 7.—PRINCE EDWARD ISLAND RAILWAY.

GENERAL CHARGES—(Abstract No. 5).

Previous Year.	Details.	Yea ended June, 1	30th
\$ cts.		\$	cts.
3,807 07	Superintendent's and train despatchers' salaries, clerks, office and travelling expenses	3,497	25
	travelling expenses	4,553	3 49
543 85	Advertising	627	23
168 92	Damages to men, animals and goods	71	23
684 14	Telegraph expenses (not including pay to operators)	339	96
769 74	Miscellaneous	49	39
10,523 25	Totals	9,138	3 55

W. T. HUGGAN,

Accountant and Auditor.

CHARLOTTETOWN, P.E.I., 30th June, 1895.

No. 8.—PRINCE EDWARD ISLAND RAILWAY.

STATEMENT of General Stores Account, Year ended 30th June, 1895.

1894.	Dr.	\$ cts.	\$ cts.
June 30 1	Co Balance brought forward		102,778 74
1895.			
June 30	Co Purchases during the year, including rails	84,430 51 15,887 75 1,569 45	
		-	101,887-71
1895.	Cr.		204,666_45
June 30	By Issues during the year		97,874,83
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	• • • • • • • • • • • • • • • • • • • •	106,791 62

W. T. HUGGAN,

Accountant and Auditor.

No. 9.—PRINCE EDWARD ISLAND RAILWAY.

Dr.	GENERAL	BALANCE.	Cr.
General stores Cash Post Office Department Stations Militia Department Anglo-American Telegraph Co Judge Weatherbie Sidney Grey Railway Extension, Charlottetown	3,794 70 1,073 77 237 14 46 43 30 00 25 00	Dominion account Accident insurance Through ticket ledger Intercolonial Railway	3.940 11
Total	114,455 00	Total	114,455 00

W. T. HUGGAN,

Accountant and Auditor.

No. 10.—PRINCE EDWARD ISLAND RAILWAY.

COMPARATIVE STATEMENT of Averages, for Years ended 30th June, 1894 and 1895.

Details. Mileage of railway open					1894.
Engine mile Train do Car do	age			210 330,661 244,249 1,197,529	210 306,853 234,093 1,237,083
Receipts per do	engine mile mile of rail	way		45·26 712·64	51 · 66 754 · 92
Percentage do do do	of passenger freight other	earnings to do do	gross receiptsdo dodo	41 · 59 45 · 47 12 · 94	40·47 47·27 12·26
Drivers Fuel Oil, tall	ow, waste a	l cleaners' wa nd small stor	ages	4·99 5·36 0·74	5·14 4·27 0·88
Water a	and tank rep	airs		6 48 0 39 0 37	7·26 0·26 0·62
Water a Miscella	and tank reparation	airs	· • • • · · • • • • • • • • • • • • • •	0.39	0·26 0·62 18·43
Water a Miscella	and tank repareous	ent's salary,		0·39 0·37 18·33 26	
Water a Miscella Mechanical Locomotive Car expense	superintende Total power pees ee of way and enses	ent's salary, r engine n	office and travelling expenses	0·39 0·37 18·33 26	18·43 0·29 18·72 18·72 10·75 32·52 8·52
Water a Miscella Mechanical Locomotive Car expense Maintenanc Station exp	superintende Total power pe se of way and enses	ent's salary, r engine n do d works do do do	office and travelling expenses	18·33 26 18·59 18·59 10·33 30·72 8·03 2·76	18·43 0·29
Water a Miscella Mechanical Locomotive Car expense Maintenanc Station exp General cha	superintend Total power pe se of way and enses Total p power pe se of way and enses	ent's salary, r engine n do d works do do do er engine mi r train mil	office and travelling expenses. Cents	18·33 26 18·59 18·59 10·33 30·72 8·03 2·76	0 · 26 0 · 62 18 · 43 0 · 29 18 · 72 18 · 72 10 · 75 32 · 52 8 · 52 3 · 43 73 · 94 24 · 54 14 · 10 43 · 62 11 · 16
Water a Miscella Mechanical Locomotive Car expense Maintenanc Station exp General cha Locomotive Car expense Maintenanc Station exp Station exp Station exp	superintender Total power perses reges Total power perses reges Total perses reges reges Total perses reges reges	ent's salary, r engine n do d works do do do er engine mi r train mil do works do do do	office and travelling expenses. Cents nile. Cents	0·39 0·37 18·33 26 18·59 18·59 10·33 30·72 8·03 2·76 70·43 25·17 13·97 41·59 0·87 3·75	0 · 26 0 · 62 18 · 43 0 · 29 18 · 72 10 · 75 32 · 52 8 · 52 3 · 43

W. T. HUGGAN,
Accountant and Auditor.

A.—PRINCE EDWARD

MECHANICAL

STATEMENT of Cost of Locomotive Power

				Cost of			
Months.	Miles run by Engines, less Ballasting.	Enginemen's Fuel.		Oil, Tallow, Waste, &c.	Repairs.	Water, including Tank and Pump Repairs.	
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	
1894—July	32,399	1,415 20	1,109 02	226 74	2,214 28	65 70	
August	31,078	1,337 12	920 84	197 45	1,638 50	66 44	
September	29,075	1,325 72	1,187 96	223 61	1,332 45	174 70	
October	30,209	1,448 87	1,305 36	245 70	1,525 97	251 96	
November	31,469	1,406 04	1,518 16	212 70	1,660 80	177 36	
December	27,244	1,386 16	1,163 63	196 25	1,877 51	348 36	
1895—January	21,375	1,268 87	1,119 52	170 17	2,083 11	24 22	
February	24,490	1,506 04	2,419 60	204 39	1,868 11	21 19	
March	29,842	1,887 78	3,646 00	255 72	1,777 24	2 40	
April	24,719	1,299 81	1,138 08	194 58	1,607 89	0 80	
May	24,521	1,080 41	966 68	121 64	1,930 22	2 40	
June	24,240	1,153 28	1,202 92	187 69	1,926 00	158 84	
Totals	330,661	16,515 30	17,697 77	2,436 64	21,442 08	1,294 37	

ISLAND RAILWAY.

DEPARTMENT.

for the Year ended 30th June, 1895.

			······································	Avera	ge per Mile	run.		•••
Miscellaneous, including Expenses of Office and Engine House.	Total.	Engine- men.	Fuel.	Oil, Tallow, &c.	Repairs.	Water.	Miscella- neous.	Total.
\$ ets.	\$ cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.
129 24	5,160 18	4.36	3.42	0.70	6.83	0.22	0.39	15.92
131 26	4,291 61	4.30	2.96	0.63	5.27	0.21	0.42	13.80
86 00	4,330 44	4.55	4.08	0.77	4.58	0.60	0.29	14.89
162 51	4,940 37	4.79	4.32	0.81	5.05	0.83	9.53	16.35
260 20	5,235 26	4.46	4.82	0.67	5.27	0.56	0.82	16.63
169 19	5,141 10	5.08	4 · 27	0.72	6.89	1.27	0.62	18.87
244 56	4,910 45	5.93	5.23	0.80	9.74	0.11	1.14	22.97
178 60	6,197 93	6.14	9.86	0.83	7.62	0.09	0.72	25 30
304 82	7,873 96	6.32	12.21	0.85	5.95	0.01	1.02	26.38
119 04	4,360 20	5.25	4.60	0.79	6.20	0.01	0.48	17 · 63
106 10	4,207 45	4 40	3.94	0.49	7.87	0.01	0.43	17.15
207 86	4,836 59	4.75	4.96	0.77	7.94	0.65	0.85	19.95
2,099 38	61,485 54	5:00	5:35	0.73	6.20	0.39	0.63	18.60

J. J. CHAPPELL,

Mechanical Accountant.

B.—PRINCE EDWARD

MECHANICAL

STATEMENT of the Performance and Consumption

			Train M	Iileage.		М	ileage by	Engines	•
Month.	Hours in steam.	Passenger.	Freight and Mixed.	Ballasting.	P oting.	With train.	Light	Shunting.	Total.
1894—July	3,742	12,736	11,791	1,082	135	25,744	166	7,681	33,591
August	4,188	12,375	11,421	1,793		25,589	220	7,227	33,036
September	3,756	10,967	10,782	3,236	507	25,492	61	7,008	32,561
October	3,892	11,204	11,830	2,868	128	26,030	506	6,811	33,347
November	3,635	11,753	11,603	996	404	24,756	273	7,611	32,640
December	3,393	9,396	11,304		98	20,798	84	6,362	27,244
1895—January	2,658	2,722	11,708		604	15,034	89	6,252	21,375
February	3,801	1,971	10,893		5,258	18,122	284	6,084	24,490
March	4,841	3,514	13,143		5,707	22,364	517	6,961	29,842
April	3,335	2,255	13,754	110	1,029	17,148	182	7,514	24,844
May	3,455	2,646	14,196	3,238	ļ	20,080	122	8,169	28,371
June	3,164	4,440	11,953	1,161	22	17,576	86	7,925	25,587
Totals	43,860	85,979	144,378	14,484	13,892	258,733	2,590	85,605	346,928

ISLAND RAILWAY.

DEPARTMENT.

of Locomotives for the year ended 30th June, 1895.

Total M	ileage.	per Mile	Ave Mile	rage age.		Consun	aption.		per	Consum 100 mi Engi	les run	b y
Cars.	Snow Ploughs.	Average of cars run with train.	Miles to one hour in Steam.	Of cars to one of Engine.	Bushels of Coal.	Pints of Oil.	Pounds of Tallow.	Pounds of Waste.	Bushels of Coal.	Pints of Oil.	Pounds of Tallow.	Pounds of Waste.
132,349	[·····	5.16	8.97	3.94	10,446	2,360	380	650	31 · 09		1 13	1.93
129,336		5.05	7.88	3.91	10,068	2,072	367	614	30 47	6.27	1 11	1.85
140,852		5.63	8.66	4.32	11,516	2,364	394	581	35 36	7.25	1.21	1.78
143,291		5.23	8.56	4.29	12,436	3,012	277	681	37 · 29	9.03	·83	2.04
134,288		5.21	8.97	4.11	13,658	2,442	397	589	41:84.	7.54	1.21	1.80
93,177		4.20	8.03	3.42	9,936	2,152	348	527	36 47	7.89	1.27	1.83
77,924	1,560	5.40	8.04	3.64	9,376	1,833	204	527	43.86	8.57	·95	2.46
50,845	9,554	3.95	6.44	2.07	20,060	2,529	278	442	81 · 91	10.32	1.13	1.80
73,703	9,382	4.42	6.16	2.47	30,230	2,912	390	591	101 · 30	9.75	1.30	1.98
95,036	662	5.89	7.46	3.82	9,779	2,232	303	519	39:36	8.98	1.21	2.08
130,000		6.47	8.21	4.58	11,082	2,032	370	509	39.06	7.16	1.30	1.79
102,078		5·81	8.08	3.98	11,492	2,392	333	510	44.91	9.39	1.30	1.99
1,302,879	21,158	5 32	7:91	3 ·75	160,082	28,332	4,041	6.745	46.14	8.17	1.16	1.94

C.—PRINCE EDWARD ISLAND RAILWAY.

MECHANICAL DEPARTMENT.

MONTHLY STATEMENT of Car Mileage for year ended 30th June, 1894.

Months.	First-Class.	Second- Class and Baggage.	Postal and Smoking.	Box and Stock.	Platform.	Total.
1894—July. August. September. October. November December. 1895—January. February March April May June.	26,662 25,791 23,832 21,620 20,435 13,910 10,823 14,257 15,231	18,488 19,712 20,821 18,567 20,970 17,140 14,034 10,378 13,718 15,088 16,241 15,588	26,296 23,740 23,507 23,802 19,177 16,343 12,811 7,781 11,799 13,039 20,030 15,365	33,217 33,815 39,199 44,850 57,640 34,250 24,176 16,500 21,067 38,610 45,609 34,333	24,354 25,407 31,534 32,240 14,881 5,009 12,993 5,363 12,862 13,068 31,333 20,908	132,349 129,336 140,852 143,291 134,288 93,177 77,924 50,845 73,703 95,036 130,000 102,078
TotalsLess—Ballasting	235,226	200,745	213,690 14,455	423,266 1,220	229,952 89,675	1,302,879 105,350
Balance	235,226	200,745	199,235	422,046	140,277	1,197,529

D.—PRINCE EDWARD ISLAND RAILWAY.

MECHANICAL DEPARTMENT.

STATEMENT showing the number of Locomotives, and of the various classes of Cars and other Rolling stock, on the 30th June, 1895.

	Locomotives.	1st Class.	2nd Class.	Combined, 1st, 2nd and Baggage.	Combined 2nd class and Baggage.	Postal and Smoking.	Combined Postal and Baggage.	Baggage.	Pay car.	Vans.	Box Freight.	Stock.	Platform.	Total.	Snow-ploughs.	Flangers.	Total.
On record, 30th June, 1894, serviceable. do do condemned.	20 1	17	15 			3 		 	1	3	175	••••	122 3	336 3	8	5 2	
Total Transferred as follows:— First-class to second class	21	17 1	-			3			1	3	175		125	339	8	7	15
Second class to first, second and bag- gage			í	_	i							• • • •					
gage. Second-class to baggage Second-class to postal and baggage Postal and smoking to postal and bag-			6 2 1		6		····i								 	 	
Box freight and stock		<u></u>	 	····	····	2		 	 		·· <u>10</u>	io			 	 	
	21	16	6	1	6	1	3	2	1	3	165	10	125	3 3 9	8	7	15
Condemned on hand, 1st July, 1894 do during the year						· · ·		1					3	3		2	2
Less—Rebuilt.			 					1			 		3 3	4 4	 	2	2
ADD—Serviceable and repairing.	20 		6	i	6	i	3	2	i	3	165	i	125	339	8	5	13
Total on record, 30th June, 1895	21	16	6	1	6	1	3	2	1	3	165	10	125	339	8	7	15

Deduct italic figures.

E.—PRINCE EDWARD ISLAND RAILWAY.

MECHANICAL DEPARTMENT.

Comparative Statement of the Expenses of the Mechanical Department for the Years ended 30th June, 1894 and 1895.

		***************************************			1895.		1894.	
do ca	ngines were				244,2 330,6 1,197,5 21,1	61 29	234, 306, 1,237, 22,	853 083
do do do do do do do labour,	passenger ca postal and s freight cars oil, and waste	ars was moking car and vans w for packing	s was as		\$ 61,485 14,535 6,959 2,734 4,841 266 2,481	63 55 28 80 41	\$ 57,457 16,202 8,689 1,149 6,363 420	52 62 75 15
The cost of locomot do do	do	100 miles re do do	engines v	svas	\$ 25 18 5	59	18	cts. 54 72 64
The cost of repairs do do	to cars per 100 do do) miles run l do do	engines was.	• • • • • • • • • • • • • • • • • • • •	5 4	95 39 21	5	cts. 92 5 28 31
The cost of labour, o do do	oil and waste fo do do	or packing p do do	oer 100 miles run do do	by trains was engines was car was	0	ets. 10 08 02	Ō	cts.) 18) 13) 03
	id smoking ca	rs were		· · · · · · · · · · · · · · · · · · ·	2	ets. 84 11 98		ets. 3 71 3 49 2 71

RETURN of Accidents and Casualties which have occurred in Canada on the line of the Prince Edward Island Railway, during the year ended 30th June, 1895.

PRINCE EDWARD ISLAND RAILWAY.

						,					
Date.	Time of Day.	No. of Train.	Description of Train.	Name of Conductor.	Name of Driver.	No. of Engine. Place of Accident.	Name of Person injured,	Whether Passenger or Employee.	Particulars of Accident.	Extent of Injury.	Verdict of Corner's Jury.
1894.		· · · · · · · · · · · · · · · · · · ·									
July	July 9 12.00 a.m. Sp'l Passenger	ւ Տթղ			R. Dougan.	4 Charlottetown.	T. K. Stanley.	Employee	T. K. Stanley. R. Dougan. Alcharlottetown T. K. Stanley. Employee Attempting to get on Knee injured.	Knee injured	
Aug. 2	Aug. 21 7.00 p.m.		1		R. Dougan.	D. McKenna. R. Dougan. 4 Tignish R. McDonald.	. R. McDonald.	ob	While coupling cars. Hand injured	Hand injured	
tdeg 123	6 11.15 а.п	n. Sp7	Sept. 6 11.15 a.m. Sp7 Passenger	F. Kelly	N. D. Ar. mour.	4 Kensington	. C. E. Robertson.	Passenger	F. Kelly N. D. Ar. 4 Kensington C. E. Robert Passenger Slipped and fell un-Fatal son.	Fatal	
Nov. 2	Nov. 26 10.30 a.m. Sp7 Freight.	. Sp1		A. Gillis	R. Dougan.	A. Gillis R. Dougan 4 Railway Junc-A. Gillis Employee	A. Gillis	Employee	<u> </u>	Side and wrist	
do 3	30 2.30 p.m	. Sp1			R. Dougan.	G. Tanton R. Dougan. 16 Summerside F. McDonald.	F. McDonald.	ob	Unloading draw-bar, Hand and	Hand and arm	
Dec. 2	29 4.00 p.m.		7 Accommodation.		A. J. Mc- Laine.	J. Maodonald A. J. Mc 21 Mount Stewart. J. McKenna.	J. McKenna	: ор	Loading baggage Back sprained	Back sprained	
1895. Jan. 28	28 6.30 s.m.		2 Accommodation.	J. R. McKee	$\left(egin{array}{ll} \mathbf{J.~Hunter} \\ \mathbf{N.~D.~Ar.} \\ \mathbf{mour.} \end{array} \right)$	St. Louis	J. Gallant	cp :	While getting off Ribs fractured and train fell between injured internally.	Ribs fractured and injured internally.	
Mar. 2	Mar. 24 1.05 p.m. Sp7 Mail.	$r_{\rm sp1}$	Mail	A. Gillis	N. D. Ar-	A. Gillis N. D. Ar-14 Mount Edward	d (N. D. Ar-	op	name struck a cow Ribs broken and left track, going head cut, down embankment and turning over on	Ribs broken and head cut.	
							J. Sweeney	do)	side.	Head and shoulder	
June	5 6.15 a.m.	- i	Accommo dation.	J. Thomson	H. Craswell.	J. Thomson H. Craswell. 15 St. Louis Geo. Tanton	Geo. Tanton	op	Unloading freight Hand injured	Hand injured	

APPENDIX No. 6.

NORTH BEND, B.C., 5th October, 1895.

Sir,—I have the honour to report on the work done by the Canadian Pacific Railway Co. between Emory and Savonas, under the award of the arbitrators, Hon. John A. Boyd, Thos. C. Keefer, and Charles C. Gregory, from the date of the award, 6th July, 1891, to 1st September, 1895.

The total award of the arbitrators was \$579,255.20, of which\$202,675.20 was for work done before the date of the award, the balance, \$376,580, was for work still to

be done between Emory and Savonas on contracts 60, 61, 62 and 63.

The following statement shows the amount expended each year:—

			Ам	OUNT EXPEN	IDED.		Balance
No. of Contract.	Amount of Award.	1891-92.	1893.	1894.	1895, to 1st September.	Total.	on 1st September, 1895.
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
60	39,389 00	35,122 93	1,539 97	977 02 $16.773 14$	244 85 64 81	37,884 77 179,835 45	1,504 23 11,053 55
$\begin{array}{c} 61 \\ 62 \end{array}$	190,889 00 94,331 00	108,336 78 32,047 92	54,660 72 22,356 84	20,962 09	5,507 72	80,874 57	13,456 43
63	51,971 00	2,157 70	2,536 23	3,980 75	12,622 55	21,297 23	30,673 77
Total.	376,580 00	177,665 33	81,093 76	42,693 00	18,439 93	319,892 02	56,687 98

The work done on the award consists chiefly in trimming and reducing slopes, either by removing boulders and other materials by hand, or by taking a steam shovel cut at toe of slope, the material removed being used in both cases for filling trestles, widening banks, etc. A number of retaining walls have also been built on the award, and in several places the alignment has been improved, curves being flattened or replaced by tangents.

Besides the award money, the company spent about \$550,000 on improvements between Emory and Savonas since 1891. This has been used to supplement the award at certain points, to build culverts at trestles being filled from the award, to erect steel structures in place of wooden bridges and for other improvements.

The principal improvements effected are as follow:-

CONTRACT 60.

Emory to Boston Bar, 28 miles.

This contract being through the caffon of the Fraser River, the slopes are generally long and rocky and bluffs are numerous. The principal work on this section consists in trimming slopes, removing dangerous rocks and trees from slopes and bluffs, and stripping loose material from rock cuts and bluffs. This has been well done, and the result is that there are now very few rock slides or loose rocks rolling down on the track.

At several points the river bank has been protected by boulder walls or riprap.

Seven steam shovel cuts were taken on this contract, improving the slopes at these points and turnishing material for filling the trestles. At each of these steam shovel cuts the track has been shifted and the line straightened. A few other changes have been made to the alignment on this contract.

There were a number of wooden "grasshopper" treatle bridges on this section, seventeen of these have been replaced by masonry retaining walls to grade. Besides

these, forty trestle bridges have been replaced by solid earth embankments.

Trestle bridges Nos. 280, 285 and 325 were filled, but the freshet of last year washed the embankments away and the line is again on the trestle at these points. At structure 325 a dry wall was built 70 feet below the track and the balance of the fill was made up of rock, carefully laid, all of which was torn out by the flood.

The culverts in the new banks on this contract are generally iron pipes from 18 to 36 inches in diameter, laid with cement joints. In a few cases masonry box culverts are used and there are three masonry arch culverts; one at Gordon Creek of 12 feet opening, one at Saw-mill Creek 14 feet opening and one at Chapman's Creek, 8 feet opening, all full centre arches.

At Spuzzum River the old wooden bridge has been replaced by a three span steel deck bridge with masonry piers and abutments. The centre span is a Pratt

truss of 150 feet, the side spans are plate girders 40 feet long.

At Tale Creek a 60-foot steel deck plate girder with masonry abutments has

been erected.

At White's Creek the five Howe trusses of 100 feet span have been replaced by five steel riveted deck trusses resting on the old wooden towers which have been strengthened.

At structure 330 a similar 100-foot steel span with two masonry piers replaces

the old Howe truss.

At Skuzzy Creek, structure 351, a steel riveted deck truss of 125 feet span with two masonry piers has been erected.

The approaches to the steel spans in the three last bridges are still on the old

trestle work.

The amount of award on this contract is nearly all expended. There is still some work to be done at structure 340 and a few slopes to be trimmed.

CONTRACT 61.

Boston Bar to Lytton, 30 miles.

The banks on this section are generally of much softer material than on contract 60 and steam shovel cuts were generally taken for the purpose of flattening the slopes.

The steam shovels worked at twenty-seven different points on this section and moved large quantities of material, which were used in filling the various trestles.

Twenty-eight trestles were filled on this section, thirteen were replaced by

masonry retaining walls to grade and 6 are partly filled.

At Salmon River, structure 382, a steel deck bridge has been erected composed of an arch span of 275 feet and three plate girder spans of fifty feet each, with massive masonry abutments, piers and pedestals. This bridge is a very fine structure.

At Skow Wash Creek three steel deck spans of 100 feet each have been erected with two masonry piers twenty feet high, and pile abutments.

There are still twelve trestle bridges to be filled on this contract.

Most of the trestle bridges filled on this contract are large structures and waterway is generally provided for by masonry box culverts or iron pipes. At structure 372 a twelve-foot masonry arch culvert has been built and an eight-foot arch at structure 374. At structure 405, Quoi Eek Creek, a large arch culvert of twenty-five feet opening is under construction.

The slopes along this section have been very much improved, boulders and trees have been removed and the slopes flattened. At several points the alignment has

been slightly changed, either to throw the track away from the foot of the slope, or to reduce the curvature.

A number of boulder walls have been built to protect the toe of the bank from the wash of the river. The slope of these walls varies from six inches to twelve inches to the foot, they are standing well and support the pressure of the bank without showing any sign of movement. At structure 417 a boulder wall with a batter of eight inches to the foot and 85 feet high has been built to catch the toe of the embankment being made.

The cantilever bridge over the Fraser at Cisco was repaired last year, loose rivets replaced, &c., and the bridge painted white, the same colour as the other steel

structures on this division.

There is not much more award work to be done on this contract. There is a little trimming of slopes still to be done and a heavy shovel cut will have to be taken in the high sand slopes at Kanaka Bar.

CONTRACT 62.

Lytton to Junction Flat, 28 miles.

The most important improvements on this section are the changes made in the alignment. The line as constructed was very crooked, but it has been much improved in this respect and the curvature greatly reduced.

Steam shovel cuts have been taken at twenty-three different points and at each of these cuts the line has been changed, and changes have been made at many other

points.

The principal changes in alignment are as follows:—

One mile east of Lytton a steam shovel made a long cut and the line was straightened for about 1,800 feet, giving a tangent of that length instead of a line with three curves, putting the track on solid ground and doing away with several trestles, bridges and some wooden cribwork.

At station 1378 the line is thrown in on to the solid for about 1,000 feet, doing

away with two curves.

East of Gladwin a change of line is being made which will do away with four

or five curves.

Between structures 535 and 542 a long cut was made with a steam shovel which admitted of the line being made straight for 3,000 feet, doing away with four curves 1,200 feet long.

East of Drynoch the alignment has been changed for about a mile, doing away

with several reverse curves.

Through the Drynoch Mud Slide a heavy steam shovel cut was made and the track changed for about a mile reducing most of the curves and doing away with one long 8 degree curve. Through the slide the line was thrown in and put on a higher level to counteract the sinking movement which takes place here.

At many other places minor changes have been made in the alignment, flattening or removing curves, increasing the length of the tangents, and placing the track in a safer position. Special care has been taken to do away with as many reverse

curves as possible.

One hundred trestle bridges have been filled on this contract and 13 are partly

filled, leaving 43 yet untouched.

The waterway through the new banks is provided by masonry and cedar box culverts and boulder drains. A large number of these drains has been put in on this contract. They serve the purpose well enough in cases in which there is very little water to pass, but they are not suitable at points where a sudden rush of water may occur. Several washouts have already occurred.

In 1891 several concrete retaining walls to grade were built on this contract to replace cribwork. These walls have stood very well, but none have been built since.

as masonry walls are found to be cheaper.

A number of masonry retaining walls have been built on this contract, A few of them are to grade, but most of them are some distance below the track, to hold the toe of the bank and reduce the quantity of filling.

A boulder wall has been built at the foot of the bank east of Nicomen Creek. This wall is about 1,500 feet long. At one point it was undermined and replaced by

a masonry wall, but the rest has stood very well.

The slopes along this contract have been much reduced and trimmed, but there is still a good deal of work to be done, the work on some of the awards having hardly been touched.

CONTRACT 63.

Junction Flat to Savonas, 40 miles.

There has not been much work done on this contract.

Three cuts have been taken by a steam shovel, one of them at station 1049 being a very heavy one in a high bluff of clay and gravel.

Five trestle bridges have been filled, and 14 are partly filled.

At limestone bluff, stations 43 to 52, a large quantity of rock has been removed and the line straightened.

At each end of this contract a good deal of work has been done trimming and reducing slopes, but very little work has been done about the middle of the section. The bulk of the work on this contract has still to be done.

A number of earthenware pipe culverts, 24 inches in diameter, have been put in on this contract. They are laid with cement joints and masonry ends. These are the first earthenware pipes to be used on this division and have not been in long enough to give an idea of how they will act.

West of contract 60, between Emory and Port Moody several structures have been filled. Two bridges, Ruby Creek and Coquitlam River, have been replaced by riveted steel structures with masonry pins and abutments, and at Pitt River and Harrison River steel plate girder swing spans with 50 foot arms have been erected.

The work done along the award sections has resulted in great improvements to the line. The work throughout is well done and good judgment is used in the

methods employed in doing the work.

The stone in the retaining walls, bridge piers, arch and box culverts is a gray syenite, very hard and with good cleavage. This is a very fine stone and being generally used in large blocks makes very massive structures. It is taken from the quarries at Sea Bird Bluff and Camp 16. A few walls on contract 62 are built of red basalt. All the masonry is laid as uncoursed rubble, very little cutting being done.

The cement used until this year was English Portland cement. This year the company is using a cement manufactured at their works at Vancouver, which sets

well and gives satisfaction.

On contract 60 at a few places, the rock under the walls has shown signs of weathering and of decay. At these points the walls have been underpinned and the foundation protected.

At two structures, 316 and 374, the material has been filled in by hydraulicing. This is a cheap way of handling material, but the protection work necessary for holding the material in the bank is expensive and adds very much to the cost of the fill.

In the enumeration of trestles and structures I have given above I have not counted the small beam culverts which are all of wood and are very numerous.

The exceptionally high water of last year came over the rock protection of the banks and caused a good deal of damage. In many places the bank was cut away and the track washed out. This occurred especially along the Thompson River on contracts 62 and 63. The damage has generally been repaired by building a cribwork in the river, at the toe of the bank, to above high water mark and filling in the bank behind. Some of this cribwork is very long. East of Nicola River there is

1,200 feet of cribwork at one point, the cribbing at Thompson's siding is 1,600 feet, and at mile 192 the cribbing is 1,200 feet. This cribwork is built of round cedar

logs, filled with stone and is a cheap and good protection for the banks.

From Basque siding to tunnel 21, a distance of 3 miles, the line is sinking at intervals and sliding towards the river, and has to be lifted and shifted continually at one point or another. West of the tunnel the alignment has been changed for about 1,800 feet, being thrown in 200 feet from the original line.

The wooden bridges which still remain have almost all been supported on trestle work to diminish the strain on the members. The old trestles have been

partly renewed, from time to time, to keep them in good order.

The award should be practically exhausted next year. The work is all well under way and another season should finish it.

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

G. J. DESBARATS,

Inspecting Engineer.

Collingwood Schreiber, Esq., C.M.G., Chief Engineer Railways and Canals, Ottawa.

APPENDIX No. 7.

SAULT STE. MARIE CANAL.

SAULT STE. MARIE, ONT., 5th October, 1895.

SIR,—I have the honour to submit the following report upon the work of construction of the Sault Ste. Marie Canal during the fiscal year ended 30th June, 1895.

At the end of the last fiscal year the lock walls had been built, the culverts nearly finished and the main portion of the excavation for canal and entrances taken out, but there was still much to be done putting in the machinery for working the lock gates and valves, raising and hanging the gates, excavating the large dams necessary for the construction of the lock and canal and finishing up the many details of a work of this size.

As the works approached completion the dams were reduced in size as much as possible to save time, but this had to be stopped after a time as a fissure in this very seamy rock formation was uncovered, about 40 feet above the upper dam and the water in large quantity found its way through seams in the rock under the dam and

into the works, which for a time caused much trouble and anxiety.

On the 24th September, 1894, the water was let into the lower reach and the lock gates, which had been built in the bottom of the lock, were rapidly raised and hung in place by means of a floating pontoon built for the purpose. On 10th of October the lower gates being in place, the water was let into the upper reach and both dams were dredged out as rapidly as possible, but the lower part of these dams being of rock delayed the work considerably. It is a matter for congratulation that in a work of this magnitude and built so quickly, that no leaks of the smallest consequence were found when the water was let in and the contractors deserve great praise for the material and workmanship invariably used.

A pipe of 6 feet 8 inches (inside diameter) has been laid down to supply power to the machinery in the power house. This runs along the back of the north wall of the lock to within about 70 feet of the power house and then branching off into two 5 feet pipes, is carried into the power house and connected with the turbines which can be worked separately or together as desired. Two 5 feet discharge pipes carry off the water from the power house into the canal immediately below the lock.

An electric plant has been put in for working the lock gates and valves to avoid the trouble and delay with hydraulic power during cold weather and for lighting the canal. The power for driving the generator is obtained from two 45-inch horizontal turbines of 150 H. P. which also are used for pumping out the lock when required, by connecting with two 20-inch centrifugal pumps of 16,000 gallons per minute capacity each and empty the lock in about seven hours. A third turbine (13 inch horizontal) which can be worked by either of the inlet pipes, has also been put in to drive a 3 K. W. dynamo for working the incandescent lights in the building.

The lighting apparatus put in consists of a 40 light 9½ ampere wood arc machine, which at present supplies 33 arc lamps of 2,000 candle power each spread along both sides of the canal, with reserve for additional lights when the entrance

piers are finished and for range lights at both entrances.

Three of the five pairs of lock gates with the two sets of valves are worked by this electric power by means of 5 motors of 25 H. P. on each side of the lock with submarine cables heavily armoured to conduct the power circuits across the canal. One pair of these gates has been provided in case of any accident occurring to the lower main gates and the same precaution has been taken for the upper main gates by letting a contract to Messrs. J. & R. Miller for building a spare set which will soon be completed. The other two pairs of gates are guard gates, only used when the lock is being pumped out, and are worked by hand winches which have been supplied.

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Considerable trouble was experienced with the prism walls, the lower portion of which up to 6 inches below low water was built of cribwork in winter, and in the spring, when the frost came out of the ground, was in some places bulged out by the soft material behind. Timber bracing was introduced and the space between them and the face of the rock was filled with concrete which put a stop to all further movement and also protected the face of the rock, which is a stratified sandstone sometimes friable and rotten, with beds of clay between the strata over a foot in thickness at times and frequently the beds of rock are very thin, therefore the wash from passing boats would in time have damaged the foundations of the wall. On top of this cribwork a very solid random coursed wall of large blocks of stone laid in natural cement and pointed with Portland cement, has been built on a flooring of timber below water level to prevent unequal settlement and the result has been very satisfactory.

The crib piers of the entrance channels are now practically finished. The length at the lower entrance is 1,200 feet on the rorth side and 930 feet on the south, and at the upper entrance 450 feet on north side and 1,250 feet on south. This gives a reasonable amount of dock accommodation, which it is thought will be sufficient for

the present.

Dredging and cleaning out the approaches to the canal has been kept up steadily and is now practically finished with the exception of raising some boulders which although not interfering with the present scale of navigation of St. Mary's River would do so when the dredging now going on at Sailor's Encampment is completed, and is part of the contracts. These boulders, which have been found in great numbers and frequently of very great size have caused great trouble and delay as they cannot be dredged and have to be taken out by divers and sometimes blasted. Both entrance channels have been well marked out with long spar buoys fastened to heavy stone anchors.

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

WILLIAM CRAWFORD,

Engineer in charge.

Collingwood Schreiber, Esq., C.M.G., Chief Engineer Department Railways and Canals, Ottawa.

SOULANGES CANAL.

Engineer's Office,

COTEAU LANDING, P. Q., 23rd August, 1895.

SIR,-I have the honour to report as follows:-

The total value of work let on this canal is, at contract rates, about \$3,500,000.

The subjoined list gives the names of the contractors and the dates of the various contracts:

Sections	Nos. 1 & 2. Archibald Stewart24th Sept., 1892
do	3. J. & M. O'Leury
do	4, 5 6 & 7. George Goodwin 9th May, 1893
do	8. Charles H. Raynor29th Dec., 1892
do	9. Randolph Macdonald30th Jan., 1893
do	10. Rogers & Taylor 24th Dec., 1892
do	11. Geo. Goodwin, Thomas Feeney
	Poupore & Fraser11th May, 1892
do	12. O'Brien & Son, Geo. Goodwin 9th May, 1893
do	13. Randolph Macdonald24th Sept., 1892
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These contracts do not include the cost of cement, superstructure of bridges, the lock gates and their machinery, or the power-house and electrical apparatus for operating the canal.

For a description of the line under construction, see my reports dated 5th

November, 1892, 4th October, 1893, and 18th August, 1894.

The present condition of the works may be briefly described as follows:

SECTIONS Nos. 1 AND 2.

Work on these sections was begun in 1892. Up to 30th June last about 200,000 cubic yards of earth and 35,000 of rock were taken out. At the Rockland quarry, 12,500 cubic yards of cut stone, and 25,000 cubic yards of backing are piled. Nothing has however been done towards the delivery of this material on the sections, where there are about 100,000 cubic yards of masonry of all kinds to be built. In January last I submitted a proposal to reduce the number of locks at the Cascades end from four to three: the lifts to be $23\frac{1}{3}$ instead of $17\frac{1}{2}$ feet each. This change has been approved of, and will be carried out. But unless the work is at once vigorously pushed on this contract, the completion of the canal will be greatly delayed.

SECTION No. 3.

About two-thirds (400,000 cubic yards) of the excavation of this section is done. The whole of the work, including the construction of the St. Antoine road bridge, can be easily completed in 1896.

SECTION Nos. 4, 5, 6 AND 7.

These sections were grouped into one contract for the reasons stated in my last report. Over a million yards of earth were moved up to the close of 1894. This consists of the top part of the excavation which has been hauled to form the sides. The remaining million of yards are chiefly blue clay with long hauls. The contractor has practically abandoned the work after doing the easiest part of it: and no stone whatever has been delivered on or prepared for section No. 4, where a lift lock, guard-gates, regulating weir, &c.—in all about 40,000 cubic yards of masonry—are to be built.

SECTION No. 8.

Work proceeds steadily on this section, a large part of which is in heavy blue clay. The amount taken out to the 30th June was 433,174 cubic yards. All the 10 foot pipes at the & la Graisse culvert were in position last fall and partly concreted. During the winter they were damaged by the ice, but have since been put together with angle irons and bolts so as to make a strong and permanent job. The concreting of the culvert is now in progress, and the whole will be completed during the present season.

SECTION No. 9.

The excavation is being continued by dredging in the manner described in my last report. 338,000 cubic yards were taken out to the close of the fiscal year.

SECTION No. 10.

The River Rouge culvert is completed and the canal banks are being formed over it. The pitching of the sides of the diversion channel is in progress. The earth work proceds slowly, but the whole of the work of this section can be completed next season.

SECTION No. 11.

This work was originally let to George Goodwin—then transferred to Thomas Feeney—and is now in the hands of Messrs. Poupore & Fraser. The tubes of the Delisle culvert are in position and concreted over. This structure, together with the road bridge across the north end of it, will probably be completed this fall, but in general the work of the section is not proceeding satisfactorily.

SECTION No. 12.

Nothing has been done on this section since the fall of 1893 when it was abandoned by George Goodwin.

SECTION No. 13.

On the north side of the entrance at Lake St. Francis the cribs are all in position and a portion of the concrete wall along their front has been built. The cribs and wall on the south side are in progress. The swing bridge to carry the Canada Atlantic Railway over the canal is completed and in use. The progress of the excavation is slow, but the material is hard.

Out of a total of about 6½ million yards of earth about 3½ millions were taken out to the 30th June last. 92,000 cubic yards of rock were also excavated. Of the masonry and concrete, amounting to about 200,000 cubic yards, 11,250 cubic yards were done. The quantities of earth and rock on each contract are approximately as follows:—

				C. yards.	Value at contract rates.
Sections 1	No. 1 and	1 2, to 30th	June, 1895	236,700	1
do			1895	401,000	
do			30th June, 1895	1,059,713	}
do	8 to 3	30th June, 1	1895	433,174	
do	9	d o ´		338,800	
do	10	do		321,350	\$ 967,712.
do	11	do		264,084	Ì
do	12	do		152,987	
do	13	do		466,025	
					•
				3,673,833	j

A summary of the progress estimates of each section to 30th June, 1895, is as follows:—

	Work done.	Materials delivered or prepared.	Totals.
	\$ cts.	\$ cts.	\$ cts
Nos. 1 and 2Archibald Stewart		185,697 00	309,420 35
do 3J. & M. O'Leary		40,275 00	122,510 76
do 4, 5, 6 and 7George Goodwin	278,384 35	1,368 00	279,752 35
do 8Charles H. Raynor	129,382 81	12,162 40	141,545 21
do 9Randolph Macdonald	66,704 50	8,412 50	75,117 00
do 10Rogers & Taylor	129,651 40	15.842 50	145,493 90
do 11Poupore & Fraser	152,581 75	10,549 00	163,130 75
do 12George Goodwin	37,973 92	238 50	38,211 52
do 13Randolph Macdonald	186,055 50	54,347 50	240,403 00
Totals	1,186,692 44	328,892 40	1,515,584-84

A system of cement "short" tests has been for some time established at this office, where a fair knowledge of that material is always obtained before it is permitted to go into the work. The results have proved quite satisfactory. The contracts let so far are as follows:—

- 1. Francis Hyde & Co., Montreal, 5,092 barrels.
- 2. C. I. de Sola, Montreal, 15,000 barrels.
- 3. Bellehouse, Dillon & Co., Montreal, 25,000 barrels.

The brands are "White Bros.," "Josson" and "Condor." The two latter are Belgian cements of excellent quality. Up to the 30th of June last a total of 21,309 barrels were delivered—11,466 used in the works—and there were on hand at that date 9,843 barrels. The delivery still goes on.

The foregoing brief statement will show that the work, as a whole, progresses slowly. A considerable effort would now have to be made to open the canal in the spring of 1898. As a matter of fact nothing is being done on section 12 where there are about 100,000 cubic yards of rock to excavate. On sections 4, 5, 6 and 7 the earthwork is practically at a standstill—whilst on sections Nos. 1, 2 and 4 where there are about 140,000 cubic yards of masonry of all kinds to be built, not a yard has been laid to date.

I am, sir, your obedient servant,

THOMAS MONRO, M.I.C.E.,

Engineer, Soulanges Canal.

Collingwood Schreiber, Esq., C.M.G., Chief Engineer, Canals, Ottawa.

DEPARTMENT OF RAILWAYS AND CANALS, QUEBEC DIVISION.

Superintending Engineer's Office, Montreal, 26th August, 1895.

SIR,—I have the honour to hand you herewith my report on the canals under my charge for the fiscal year ended the 30th June, 1895. The traffic on these canals has been conducted in a most satisfactory manner during the year, no interruptions of any consequence having occurred.

The various canals have been closed and opened as shown in the following

table:

CLOSING AND OPENING OF NAVIGATION.

	C	losing.	Opening	
Lachine Canal	30th	Nov., 1894.	30th April,	1895
Beauharnois Canal	30 th	άο	1st May	do
Ste. Anne Lock	$25 ext{th}$	do	27th April	do
Carillon & Grenville Canals.	30 th	do	29th April	do
Chambly Canal	30th	do	1st May	do
St. Ours Lock		do	15th April	do

I will content myself with giving details of the most important items of repairs in connection with the various works, there being no interest to any one in reciting ordinary current work done.

LACHINE CANAL.

REPAIRS.

Among the most important items of repairs done during the year the following

may be mentioned:

While the water was out of the canal, viz., between the 13th and 30th April, the breast wall of old lock No. 3 which was in a very dilapidated condition, was carefully repaired; the oak flooring of the waste weir at Côte St. Paul removed; the retaining walls along the canal banks more or less rebuilt, several boulders removed from the channel between lock No. 2 and Wellington Bridge, and all the structures and lock machinery examined and put in good order.

During the season of navigation, Mill Street had to be thoroughly repaired. After having been carefully scraped, a large quantity of iron dross was spread on it,

which made it good for the rest of the season,

The breakwater at the head of the entrance pier at Lachine had to be partly renewed, the tamarack sheeting was taken off and reversed so as to bring above water the portion that was still sound, and the oak covering on top was entirely renewed. A large quantity of stone and clay, taken from the spoil bank near the Lachine Water Works was deposited into the pier in places where the filling had settled. A new set of stop logs had to be provided for the supply weir at the upper end of the canal.

INCOME.

Under this head, some important work has been done here, viz., the overhauling of the stone mill purchased from Messrs. W. & G. H. Tate to convert it into a power house and electric station; the building of stores and shops and the cleaning of the canal yard, wherein materials and scraps of every kind had been allowed to accumulate for years. The work on the stone mill was commenced early in the spring. This building is about 60 x 50 feet and two stories high. The walls were found to be in a very shaky condition in many places. These portions had to be taken down and rebuilt, and new windows and doors put in. The framing for the floors has been made of iron; materials from the old Wellington Bridge being used for this purpose. The outside of the walls has received a good coat of cement mortar and the inside is now being whitewashed after the joints had been properly pointed.

Upon being examined, while the water was out of the canal in the spring, the flume in connection with the power house was found to be quite unsafe. It was therefore only temporarily repaired then, pending its reconstruction next spring.

therefore only temporarily repaired then, pending its reconstruction next spring.

The saw-mill, in the eastern end of the building, has been preserved and is being thoroughly refitted at the time of writing. This will prove a most valuable adjunct to the canal shops.

In the canal yard, on Mill Street, two large sheds 80 x 32 feet have been erected for the storage of timber, lumber, derricks, hoisting engines, &c. Timber and lumber from the old buildings was exclusively used in these sheds, which have been covered with Canada plates.

A very small quantity of new material had to be purchased in connection with the other buildings, which comprise two or three smaller sheds, a blacksmith shop, a stable, and stores for the stock carried for current use. The stores, three in number, are of solid brick, on good stone foundation and two stories high. Above the centre

one is a lodging for the man in charge.

A double line of drain pipes has been laid in the yard to carry off the surface water, and the yard itself levelled up to an uniform surface with clay covered up with a layer of cinders well rolled down. All the new buildings have been so located that in case of a fire starting in one of them, the others might easily be protected. However, as a matter of greater security, I would recommend the placing of an hydrant in the centre of the yard.

The old carpenter and machine shops have been entirely overhauled and rendered as efficient as possible pending the construction of new enlarged ones in a position better calculated to meet the wants of the canal.

CAPITAL.

Dredging for 22 feet between Locks Nos. 2 and 3.

This work was resumed at the begining of the season with the two canal dredges, but a month later dredge No. 1 which is over forty years old became so leaky that she had to be laid up and the work continued with dredge No. 2 only.

At the end of the year the channel in basin No. 2 had been considerably widened and a cut averaging forty-five feet in width made from the Wellington bridge to a

point opposite Montmorency Street, a distance of about 1,200 feet.

The quantity of material dredged out amounted to 56,850 cubic yards. Most of this material was deposited on the guard pier now being built in the harbour of Montreal by the harbour commissioners.

In connection with this work three large scows and forty dumping boxes were

built during the winter months to replace old ones no longer fit for use.

The expenditure, including some \$5,000 for the above mentioned scows and boxes, amounted to \$21,160 which makes the cost of the excavation about 30 cents per cubic yard.

The following is a synopsis of the work done by dredge No. 2 during the year:

Number of working days	163
Delays occasioned by rainhours	95
do do breakdown of machinery do	19
do do tug, detrick, navigation, &c do	174
Days during which dredge was working on other works	5
Number of scows filled	1,895
Quantity excavated (measured in the solid) cub. yds	56,850

Lake St. Louis Channel.

This channel will be 300 feet wide at bottom and 16 feet deep at low water.

The Weddell Dredging Co. have been awarded the contract for it and commenced work on the 10th June last. They are progressing satisfactorily.

This work as well as the dredging of the lower section of the Luchine Canal, is

under the charge of Mr. L. S. Pariseau, C. E.

Deepening between Locks Nos. 3 and 5.

This work is being done to ensure a depth of 15 feet in the various reaches of the canal as contemplated at the time of the enlargement. All the locks, bridge piers, culverts, &c., have been built in accordance with this proposed draught, but the prism was only made 13 feet deep at the time.

The contract for removing the two additional feet was awarded on the 22nd September, 1894, to Messrs. McNamee & Mann, and operations commenced on the

10th May last.

The material dredged out is being deposited in deep places in Lake St. Louis.

Lachine Drainage System.

The Lachine drain which had been under contract with Messrs. Hency & Borthwick since 1891, was completed by them in October, 1894.

It cousists of an open drain 16,700 feet long and of a brick sewer at the upper

end about 6,425 feet in length.

Côte St. Paul Drain.

Several properties on the south side of the Lachine Canal which naturally drained into River St. Pierre having been deprived of drainage facilities by the enlargement of the canal the surface water thereon had to be carried to the above named stream by means of a line of pipes connecting with the Côte St. Paul culvert.

The work, which was completed in August, 1894, was executed under contract

by Mr. Peter Jackson.

Mr. L. G. Papineau, C. E., has had charge of the three last mentioned contracts.

BEAUHARNOIS CANAL.

REPAIRS.

Although the various structures on this canal, except the bridges, are old and unsound, they were kept in safe condition during the year, and no accidents of any kind have occurred.

A pair of spare gates for lock No. 12 was built and another pair has been put in hand. The long wharf above the guard-lock at Valleyfield, which was considerably damaged during the winter, had been partly repaired at the end of the fiscal

year.

Two mooring piers at the lower entrance were carried away by the ice in May last. They will be rebuilt during the present season. A large quantity of stone taken out of the coffer dam built across the upper entrance in connection with the repairing of the guard lock and the rebuilding of the swing bridge close to it, is now deposited along the canal and will be used on the south bank between Valleyfield and St. Timothy.

The collector's house at Valleyfield has been pretty extensively repaired. Other buildings, bridges, towpaths, fences, banks, locks and lock gates, &c., have received

the usual attention.

INCOME.

Under this head I have to report here the renewing of the swing bridge at Valleyfield, the overhauling of the guard-lock foundation, the replacing of the old wooden bridge across the Lost Channel at St. Timothy by a steel span resting on masonry abutments, the completing of the Bellerive drain and the purchasing of some seventy cubic yards of cut stone for repairing the various locks on the canal.

Swing bridge at Valleyfield.

The pivot pier for this bridge having to be renewed, the first step to be taken was the building of a coffer dam across the upper entrance to unwater the works. This dam was 150 feet long, 15 feet wide and 15 feet high. It consisted of a continuous cribwork sheeted with 3-inch plank and filled with boulders. In order to minimise the quantity of clay necessary to render it water tight, a sheet of 15-oz. duck canvas 160 feet long, twenty-one feet wide, and costing \$134, was stretched on the up stream face of the dam and covered at its foot with 4 feet 6 inches of clay. This proved as effective as could be desired, no leakage having occurred during the progress of the works. The quantity of clay thus used was not more than 100 cubic yards against at least 950 which would have been required without the canvas. Counting the clay at fifty cents per cubic yard, the saving in the cost of the dam was therefore about \$300.

Pivot pier.—This pier is built of coursed masonry the stone for which was procured from the Lachine Canal. Its dimensions are the following: Base, twenty-two feet square, top, twenty feet square with a height of about twenty feet. The side facing on the canal is boucharded. It has been connected with the wing wall

of the guard-lock by a block of masonry of the same description and eighteen feet

Cribwork.—The rest pier on the opposite side of the canal forms part of a cribwork sixty feet long which was renewed from the top to a depth of eight feet.

Another piece of cribwork thirty-eight feet long was built on the upstream

side of the pivot pier to the mouth of the supply weir.

Supply weir. The walls at the mouth of this weir were taken down and rebuilt in cement masonry on a length of twenty feet, checks being provided in the masonry for future repairs to the walls of the chamber of the weir.

Superstructure.—The bridge proper is of steel, ninety feet long, sixteen feet ten inches wide with a foot path on one side four feet five inches in width. It was furnished and placed in position for the sum of two thousand dollars by Messrs. A. & E. Loignon of Montreal.

Guard-lock foundation.—This lock had never been unwatered since its construction in 1843. Its foundation was found to be in a very bad condition. The flooring was riddled with large holes and the puddling underneath as well as under the mitre sill platforms washed away to an average depth of four feet, so that the water had a clear way through the foundation of the lock. The mitre sills were in such a condition that one had to be totally replaced and the other one partially so.

The void in gate chambers were filled with well rammed clay and those under the mitre sill platforms with concrete made in the proportion of one cement to two

of sand and three of broken stone.

The flooring of the two gate chambers and of the platform below the lower mitre sill was replaced by one made of two thicknesses of two-inch pine planks properly breaking joints with each other. To do the above repairs the lock had to be kept dry during the whole month of April and this was attained by building at the lower wing walls, a clay dam six feet high at centre and by running a six inch pump day and night.

Bridge across Lost Channel.

The old wooden bridge at this point, with its bulky stone piers, was an obstruction to the free flow of the water coming from the mills at Valleyfield, especially in

winter when the ice frequently blocked it entirely.

The new structure which consists of a single steel span one hundred and sixty feet long, rests on two masonry abutments, built under contract by Mr. John C. Hague. The removal of the old bridge piers has increased the waterway by one hundred and four feet. The steel structure was furnished by the Dominion Bridge Co., Ltd., for \$2,287.

Bellerive Drain.

A contract for the completion of this work was entered into with Mr. J. W. Grier, on the 31st August, 1894. Work was commenced by him at once and com-

pleted at the end of November in the same year.

This drain, the object of which is to carry off the surface water in the municipality of Bellerive and part of the town of Valleyfield, consists of clay pipes laid at an average depth of nine feet under the street level, and extends on a length of three thousand seven hundred feet from the Lost Channel to the foot of the dyke along Valleyfield bay.

The above works were under the direction of Mr. L. S. Pariseau.

Stone for Repairing Locks.

This stone was procured under contract with Mr. James Wright. It was intended to lay it on the various Sundays during the months of May and June last, but instructions having been issued to only interrupt navigation on this canal between the hours of 6 a.m. and 9 p.m. on Sundays, it has been impossible to do the work during the current year.

Only a few of the stones were laid in places where they were most needed. The balance will be so while the water is out of the canal next spring.

STE. ANNE LOCK.

The larger item of repairs at this place during the year was the replanking of the long pier above the lock, some sixty thousand feet B.M. of three inch hemlock plank being used in the work.

The only other important work of repair done here was the overhauling of the

toll collector's house.

The lock walls, lock gates, lock gate machinery, buildings, fences, &c., received the usual amount of attention and were kept in good order all the year round.

INCOME.

The \$2,500 voted by Parliament under this head were expended in renewing the timber work in the north pier of the south channel from the water line to the top, on a length of some 900 feet. Two hundred feet more still remain untouched, but will be repaired during the present year out of the repairs appropriation.

CARILLON AND GRENVILLE CANALS.

REPAIRS.

Pointing lock walls, painting lock gates, bridges and buildings, repairing retaining walls, towpaths, fences, &c., have absorbed the usual amount of the appropriation.

Three sheds 72 x 33 feet were built at Carillon, Greece's Point and Grenville

respectively for storing spare lock gates, &c.

The fire pumps purchased during the year have been placed in small sheds, one at Carillon and the other on the Grenville Wharf. This one has already been brought into use for extinguishing a fire at the wharf in June last.

The mooring pier at the lower entrance to the Carillon Canal was renewed from the water line to the top, and the filling, which had settled down, had to be raised. A couple of the guide piers at the upper entrance were also extensively repaired.

A wire fence 3½ miles in length was substituted for the old rail fence along the towpath on the Grenville Canal about midway between Grenville and Greece's Point.

INCOME.

Puddle Trench, South bank of Grenville Canal.

This puddle trench was intended to strengthen the south bank of the canal at a place where leakage was continually going on before.

In excavating for it the bank was found to require strengthening on two-thirds

only of the length estimated, or about 600 feet.

This work could only be done while the water was out of the canal. Consequently the digging of the trench was performed as soon as the navigation was closed and the filling of it about the end of April.

The clay in the vicinity of the work being of poor quality, the trench was first lined on both sides with 2-inch hemlock plank driven to the hard soil or rock about two feet below the canal bottom and the clayey material then deposited in layers, well watered and rammed down.

The leakage has thus been completely stopped and the bank now appears to be perfectly safe.

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Swing-Bridge Pier at Guard-Lock—Grenville.

As reported before, this pier, which formed part of the old lock masonry built over fifty years ago, was in danger of tumbling down into the canal and blocking navigation. The old masonry as well as some rock and filling were removed by the canal staff under the direction of Mr. H. G. Stanton during the fall. During the winter tenders were invited for the rebuilding of the pier, the department supplying the stone. The contract was awarded to Messrs. Nicholson & Stewart on the 14th January, 1895, and the work completed in a very satisfactory manner before the opening of the navigation.

Part of the stone used in this pier was brought from the Lachine Canal and credited to the Wellington bridge, it having formed part of the old abutments of that bridge. The balance was taken from the pier just torn down and also from a

lot purchased for that purpose the year before.

CULBUTE CANAL.

According to instructions contained in your letter of the 2nd November, 1894,

this canal was permanently closed at the end of the month.

The lockmaster as well as the bridge-keeper at Chapeau were therefore discharged on the 1st December following, and the draw span in the bridge at Chapeau, after having been repaired, was properly fish-plated in order to avoid possible accidents.

Some surveys in connection with the claims for alleged damage to lands by the raising of the water in the Ottawa River above the Grand Calumet and Rocher Fendu dams were made by Mr. H. G. Stanton during last winter and reports on these claims forwarded to you later on.

In the course of February last, Mr. H. G. Stanton was instructed to remove these dams, which are now of no use. However, he had only just commenced carrying out his instructions, when I received orders to stop the work, which was done. Some sixty feet in length of the north end of the Grand Calumet dam had then been more or less blown up.

I have not yet ascertained what the effect of this has been either on the adjoin-

ing portion of the dam or the level of the water above.

ST. OURS LOCK.

REPAIRS.

The only important item of repair to be recorded here, beyond the ordinary maintenance of the lock, gates, piers, fences, buildings and grounds, is the placing of some 150 cubic yards of field stone along the shore of the island below the dam. The currents created by this dam constantly wash away portions of the shore, and the above mentioned stone is used to protect the banks.

CHAMBLY CANAL.

An interruption to the navigation on this canal occurred on the 10th September, 1894, when the lower gate of the lower entrance lock gave way under the pressure of the water above. This gate was replaced, after fourteen hours' work, by an old one which has done good service since. Spare gates for all the locks are gradually being built in order to meet possible accidents of this kind. All but three locks are now provided with them.

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REPAIRS.

As usual the canal was emptied on a Sunday in the month of September and all the structures were carefully examined and repaired where necessary. A portion of the wall at lock No. 2 had to be rebuilt during the winter, and the waste weir at Mile 6 well loaded with stone to secure it against the frost and water. This waste weir is not safe and will have to be rebuilt in a year or two.

The seats of bridges Nos. 3 and 6 were taken down and rebuilt, the space between the bridge abutments being widened at the same time in order to allow a freer flow

to the water at these points.

Three new bridges were built during the winter and put in position in the

spring.

The four culverts under the canal are more or less unsafe and require constant watching. They are all leaky and will require to be renewed. Except one, which may be of stone, they are built with timber and about sixty years old. When overhauling them I would recommend the use of cast iron pipes instead of timber in their construction.

The combined stream dredge and derrick mentioned in my last annual report has been built during the year. It was tested this spring and does its work very well. It will be of great help to the economical working of the canal. Both the machinery and wood work in connection with it have been executed at the canal, shops.

INCOME.

Fence along canal.—This fence was built in June last, the posts for it having been prepared at the sho, s, and the wire purchased during the winter. In connection with it a strip of land averaging nine feet in width was acquired from the farmers to widen the towpath. A large quantity (about 10,000 cubic yards) of good clay will be taken out of this strip and used for canal purposes.

Rubble wall along highway.—Five thousand five hundred and fifty running feet of this wall were built during the year. About 10,000 lineal feet of the bank on the south side is still unprotected by a wall and is gradually washed down.

Another section about 5,000 feet will be done during 1895-96.

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

ERNEST MARCEAU,
Superintendent Engineer.

Collingwood Schreiber, Esq., C.M.G., Chief Engineer, Railways and Canals.

LACHINE CANAL.

STATEMENT showing the depth of the River Water on Mitre Sills of Old Lock No. 1, at Lower Entrance, and Lock No. 5, at Upper Entrance, during the fiscal year ended 30th June, 1895.

Months.	Old Lock No.	1, Lower Sill.	Old Lock No.	5, Upper Sill
Months.	Highest.	Lowest.	Highest.	Lowest.
1894.	Ft. in.	Ft. in.	Ft. in.	Ft. in.
July August September October November December	17 10 16 5 17 1	17 9 16 2 15 10 16 0 16 2 15 10	12 8 11 2 10 4 10 6 10 9 10 11	11 2 9 10 9 10 9 10 9 6 9 6
1895.				
January February March April May June	27 5 24 2 34 6	26 7 23 1 22 0 20 9 19 3 17 5	11 10 10 6 9 6 13 1 13 0 11 9	9 6 8 3 7 10 9 2 11 5 10 9

LACHINE CANAL.

STATEMENT showing the depth of the River Water on Mitre Sills of New Lock No. 1, at Lower Entrance, and New Lock No. 5, at Upper Entrance, during the fiscal year ended 30th June, 1895.

Months.	New Lock N	o. 1, Lower Sill.	New Lock No.	5, Upper Sil	
Months.	Highest.	Lowest.	Highest.	Lowest.	
1894.	Ft. in.	Ft. in.	Ft. in.	Ft. in.	
July	. 22 4	19 11	16 10	15 4	
AugustSeptember	20 0	18 4 18 0	15 4 14 6	14 0 14 0	
October	.1 19 3	18 2	14 8	14 1	
November December	19 7 29 2	18 4 18 0	14 11 14 8	13 8 13 2	
1895.					
January	. 34 0	27 11	16 0	13 8	
February. March	.1 29 7	25 3 24 2	14 8 13 8	$\begin{array}{ccc} & 12 & 5 \\ & 12 & 0 \end{array}$	
April	.1 36 8	22 11	17 3	13 4	
May June	.1 23 9	21 5 19 7	17 2 15 11	15 7 14 11	

BEAUHARNOIS CANAL.

STATEMENT showing the depth of the River Water on Mitre Sills of Lock No. 6, at Lower Entrance, and Lock No. 14 at Upper Entrance, during the fiscal year ended 30th June, 1895.

Y	Lock No. 6,	Lower Sill.	Lock No. 14, Upper Sill.				
Months.	Highest.	Lowest.	Highest.	Lowest.			
1894.	Ft. in.	Ft. in.	Ft. in.	Ft. in.			
July	12 3 10 4 9 3 9 4 9 7 11 8	10 4 9 2 9 1 9 1 9 3 9 7	12 6 11 10 11 10 11 10 11 10 11 20	11 8 11 4 11 4 10 10 10 10 10 2			
1895.			i				
January February March April May June	13 10 22 0 18 3 13 7 13 1 12 6	11 9 12 11 11 0 11 0 11 9 10 2	12 0 11 11 11 8 12 5 11 8 11 6	11 0 9 10 10 1 11 6 11 2 11 0			

CHAMBLY CANAL.

STATEMENT showing the depth of the River Water on Mitre Sills of Lock No. 9, at Lower Entrance, and Lock No. 1, at Upper Entrance, during the fiscal year ended 30th June, 1895.

	Lock No. 9	, Lower Sill.	Lock No. 1, Upper Sill.				
Months,	Highest.	Lowest.	Highest.	Lowest.			
1894.	Ft. in.	Ft, in.	Ft. in.	Ft. in.			
July	11 3 9 4 8 3 8 7 10 0	9 3 7 9 7 8 7 6 7 7 8 3	8 9 8 1 7 9 8 0 8 9 8 3	7 8 7 1 6 10 6 8 7 3 7 5			
1895.							
January February March April May June	9 9 10 5 10 10 17 2 15 0 13 0	8 5 8 9 9 9 11 14 12 9 10 8	8 2 8 0 8 0 12 0 11 4 10 6	7 9 7 8 7 8 7 10 9 8 8 9			

ST. OURS LOCK.

STATEMENT showing the depth of the River Water on Mitre Sills of St. Ours Lock during the Fiscal Year ended 30th June, 1895.

	Lock No. 1,	Lower Sill.	Lock No. 1, Upper Sill.			
Months.	Highest.	Lowest.	Highest.	Lcwest.		
1894.	Ft. in.	Ft. in.	Ft. in.	Ft. in.		
July . August . September . October . November . December .	11 2 8 10 8 1 8 9 8 10 9 6	8 6 7 2 6 8 6 9 7 7 7 7	9 9 8 7 8 2 8 3 9 3 9 1	8 5 7 10 7 1 7 8 7 3 7 11		
1895.				1		
January February March April May June	10 11 9 4 10 5 18 6 14 10 12 4	8 9 8 0 8 6 10 8 12 0 10 0	8 8 8 5 8 10 14 11 12 6 11 1	8 0 7 6 7 10 8 11 10 10 9 6		

CABILLON CANAL.

STATEMENT showing the depth of the River Water on Mitre Sills of Locks Nos. 1 and 2, during the Fiscal Year ended 30th June, 1895.

	Lock No. 1,	Lower Sill.	Lock No. 2, Upper Sill.				
Months.	Highest.	Lowest.	Highest.	Lowest.			
1894.	Ft. in.	Ft. in.	Ft. in.	Ft. in.			
July	15 7 13 1 11 8 13 2 13 8 13 4	13 1 11 4 11 3 11 8 13 0 12 9	16 2 13 1 11 10 13 3 14 0 16 6	13 3 12 0 11 0 11 6 13 2 13 0			
1895.							
January February March April May June	13 4 13 3 12 5 17 10 18 8 16 7	12 10 12 4 11 7 11 10 16 3 14 10	17 0 14 6 12 3 18 6 20 0 17 5	14 0 12 3 11 8 12 0 17 2 15 0			

GRENVILLE CANAL.

STATEMENT showing the depth of the River Water on Mitre Sills of Locks Nos. 3 and 7, Grenville Canal, during the fiscal year ended 30th June, 1895.

	Lock No. 3	, Lower Sill.	Lock No. 7, Upper Sill.			
Months.	Highest.	Lowest.	Highest.	Lowest.		
1894.	Ft. in.	Ft. in.	Ft. in,	Ft. in.		
July	19 4 15 8 13 9 16 1 16 8 18 3	15 9 13 9 13 3 13 10 16 0 15 6	16 6 12 9 11 0 13 7 14 4 13 3	12 10 11 0 10 2 10 10 13 4 12 8		
1895.			! 			
January February March April May June	20 8 23 0 22 6 22 9 24 0 21 0	18 0 20 8 17 0 16 0 20 8 18 0	12 8 11 9 11 6 19 6 20 6 18 2	11 11 11 2 10 11 11 6 17 3 16 0		

ST. ANNE'S LOCK.

STATEMENT showing the depth of the River Water on Mitre Sills of St. Anne's Lock, during the fiscal year ended 30th June, 1895.

36 41	Lock No. 1	, Lower Sill.	Lock No. 1, Upper Sill.		
Months.	Highest.	Lowest.	Highest.	Lowest.	
1894.	Ft. in.	Ft. in.	Ft. in.	Ft. in.	
July	14 3 10 11 10 0 10 3 10 7 11 11	13 0 9 9 9 9 9 9 10 0 9 10	17 6 11 11 10 7 12 0 12 5 12 1	15 2 10 7 10 2 10 6 11 10 11 0	
1895.					
January February March April May	11 11 10 11 10 0 13 1 13 1 11 11	10 7 9 4 9 1 9 10 11 9 10 9	11 11 11 4 10 8 15 11 16 7 14 10	11 2 10 7 10 3 10 6 14 7 13 4	

TRENT CANAL.

Superintending Engineer's Office, Peterborough, 15th August, 1895.

DEAR SIR,—I beg to submit the annual report on the works under my charge

for the fiscal year ended the 30th June, 1895.

These works consist of the maintenance of the works at present constructed along the route between Trenton and Balsam Lake, and the survey and construction of the Peterborough-Lakefield and the Simcoe-Balsam Lake divisions.

MAINTENANCE.

Navigation closed on the upper reach on the 23rd November, 1894, and opened again the 26th April, 1895. On the lower reach navigation closed on the 24th November and opened again on the 21st April, 1895. There was no interruption to navigation during the season. There was good navigable water on all the reaches during the season, there being from five to seven feet on the reaches. The latter depth could be maintained with very little dredging and by controlling the upper reservoirs in the interests of navigation.

It will be imperative as the construction of the canal goes on that these upper reservoirs be assumed charge of by the Dominion Government. With this object in view a survey was made during the winter of all the reservoirs and dams in the

north country which will be alluded to more fully later on.

During the past spring the water barely reached the average spring height. The total number of lockages was 3,670, which shows a steady increase in traffic. The number of lockages does not however fairly represent the traffic on this canal, as on some of the lenger stretches the regular routes do not pass through any lock

so no record is kept of it.

There was a number of new vessels added to the fleet on these waters during the past season. There is now twenty-five steamers on the upper reach and seven

on the lower reach.

As the interests of navigation increase greater trouble is experienced in keeping navigation free from the interference of lumbermen in driving their logs. The Department of Public Works has made considerable expenditure in making and maintaining separate channels for the driving of logs in order to prevent their interference with navigation. Some further works are still necessary for the purpose.

Considerable trouble is caused by the lumbermen in their operations carelessly removing the buoys placed to mark the navigation channels. An example will have to be made of some of these lumbermen before this dangerous practice is stopped.

A brief description is given of the several works with the work done or repairs made.

CHISHOLMS.

At this station there is a look in first class condition and a canal 2,970 feet in length excavated out of the rock. Two fixed bridges across the canal prevent this lock from being used. The canal was cleared of sunken logs so that boats might enter the upper reach.

HEELEY'S FALLS.

There is at this station a flat dam 567 feet in length with a waste weir and timber slide. A new waste weir was constructed in order that better control might be had of the water during the spring freshet. This dam is now in first class condition and retains the water at navigable height as far as Hastings a distance of fifteen miles.

HASTINGS.

The works at this station consist of a lock, dam and swing bridge. A few minor repairs were done to the lock. The works are in good repair. The dam controls the water to the Peterborough lock a distance of forty miles.

PETERBOROUGH.

There is a lock, dam and landing pier here. The lock is in good condition, but the dam is old and requires to be rebuilt. During the season a bad leak sprung below the platform of one of the sluices. On drawing off the water it was found necessary to put in six new mud sills with a puddle chamber at the upstream side. A new apron was also put in one of the sluices. The glance booms at the upper entrance to the lock were rebuilt. Snubbing posts were placed along the landing pier at the south end of the town. A number of boulders were removed from the shoals at "Yankee Bonnet" and Dangerfield.

LAKEFIELD.

There is a sluice dam 263 feet in length and wharf 412 feet in length at this station. Both are in good condition. The dam was partly gravelled. This dam holds the water of Katchawannoe Lake at navigable height as far as Young's Point.

KATCHAWANNOE LAKE.

There has always been a very bad shoal at the "Three Islands." This was dredged out so that now there is eight feet of water for a width of eighty feet.

Young's Point.

There is a sluice dam 256 feet in length which retains the water of Clear and Stony Lake. The dam is in good repair except the platform and stop log windlasses for the repair of which there is an appropriation at present voted. The lock here was constructed by the Ontario Government and is operated by them.

BURLEIGH.

At this station there is a double lift lock with 25 feet lift, three sluice dams, one flat dam and one swing bridge. The works are all in good repair, with the exception of a leak in the main dam, which is about to be repaired. The valves and valve rods of the upper and centre gates were overhauled.

A glance boom and piers were built at the gut above the lock, in order to prevent vessels being carried against the bluff rock on the south side. This improve-

ment has been greatly appreciated by the boat men.

LOVESICK.

There is at this station a lock and five sluice dams and one flat dam. All are in good condition.

BUCKHORN.

There is here a dam 450 feet in length (in which there are four sluices and 186 feet of flat dam), together with a lock and 660 feet of canal, and a swing bridge. They are all in good repair with the exception that the dam leaks, but this is being repaired at the present time.

Bobcaygeon.

At this station there is a lock, 1,400 of canal and a sluice dam 604 feet in length. This lock has ever since it was constructed been very troublesome on account of the bad foundation it was built upon. A boiler plate bottom was put down in the lock chamber some years ago, but on account of the upper end not being properly spiked down, a few feet of the iron burst up. This bottom was properly fastened down so that now the lock is working most satisfactorily.

A fish pass of the "Hockin" plan was constructed in the dam. This has

worked admirably and was built very cheaply.

The lock walls and the wall of the raceway were caulked and pointed.

Scugog RIVER.

The dredging at the cut at the mouth of this river, which was started last year, was completed.

FENELON FALLS.

There is here a lock with twenty-five feet lift, 1,060 feet of canal, a swing bridge, landing piers and dam which is composed of 115 feet of flat dam and five stop log openings. The lock gates were painted and otherwise repaired. A new sluice was made in the dam in order that the surplus water might be allowed to escape over the falls below and thus deaden the current instead of through the timber slide as formerly. This has been a great benefit to navigation, as before this sluice was built it was dangerous, if not impossible, except at low stages, to cross the current formed by the water coming from the slide. Now there is no more current at this point than at any other point of the river.

Minor repairs were made at several other points.

Twenty-five new buoys were put in to mark the navigation channel along the route.

SURVEYS.

The work done under this head was as follows:-

The survey of the Peterborough-Lakefield and the Simcoe-Balsam Lake divisions.

The survey of the upper reservoirs and dams.

Sections No. 1, on both the Peterborough-Lakefield and Simcoe-Balsam Lake divisions were got ready for letting and the land plans prepared for the purchase of

right of way.

Land valuators were appointed for the purchase of the land necessary for canal purposes on both the above sections. The necessary land on section No. 1, Simcoe-Balsam Lake division, has been bought and paid for with a few exceptions where the titles are not clear. Agreements have been made with all the owners on section No. 1, Peterborough-Lakefield division, with the exceptions of those who it was found necessary to report in order that expropriation proceedings might be instituted.

The surveys on sections No. 2, on both the above mentioned divisions, and the necessary plans for the purchase of the right of way, were also proceeded with,

with a view of getting them ready for letting.

A survey of the northern reservoirs and dams was made and a report accompanied by a plan, showing the water shed and a plan and section of each of the dams, with an estimate of the cost of each dam was sent to the department. It is absolutely necessary for the satisfactory working of the canal that these reservoirs should be assumed control of, and which can be the more cheaply done now before vested rights are established.

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CONSTRUCTION.

Work was commenced on section No. 1, Simcoe-Balsam Lake division by Andrew Onderdonk, Esq., on April 22nd, 1895. This section is about five and a half miles long and when completed will be for the most part through flooded land. The work on this section consists for the most part of excavation. There is besides the excavation to do the piers necessary for three highway bridges and one railroad bridge; the raising of the bed of the railroad for about 3,000 feet in length, a dyke, an embankment for an aqueduct leading to the hydraulic lift lock at the end of the contract, entrance piers, waste weirs, guard gates, &c.

By the end of the year the contractor had the greater part of his section cleared and considerable of it grubbed. The greater part of the stripping of the rock on the rock cut at the north end of the section was completed. Fine commodious boarding houses besides blacksmith shops, powder house, &c., were constructed. Part of the machinery arrived about the middle of June and the erection thereof

was proceeded with.

The contractors had not started the work on section No. 1, Peterborough-Lakefield division, by the end of the fiscal year. The work on this section consists of the excavation of five short canals, five locks, four sluice dams, piers for highway bridge, entrance piers, guard gates, raising bed of railroad for 2,300 feet, &c.

The whole channel of the river from Lakefield as far as Nassau is utilized for the prism of the canal, except at the bends of the river where the short canals are cut, which serve the double purpose of straightening the alignment and provide

locations for the several dams and locks.

The first survey and plans on which tenders were first asked for, for this section, followed the line of previous surveys and ran inland, thus making continuous canalling for the whole length of the section. Now that it is decided to assume control of the upper reservoirs so that the flow of water during the spring freshet can be controlled, using the river bed is much preferable both in regard to cheapness in cost of construction as well as in the maintenance of the canal, and at the same time constructing nearly double the distance of the first line and at considerably less cost.

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

RICHD. B. ROGERS,

Superintending Engineer.

Collingwood Schreiber, Esq., C.M.G., Chief Engineer, Department Railways and Canals, Ottawa.

STATEMENT showing the highest and lowest Water Level at each Lock on the Trent Canal for the Fiscal Year ended 30th June, 1895.

	1894.												
Station.	Ju	ly.	Aug	August.		September.		October.		November		December.	
	Highest	Lowest.	Highest	Lowest.	Highest	Lowest.	Highest	Lowest.	Highest	Lowest.	Highest	Lowest.	
	ft. in.	ft. in.	ft. in.	ft. in.	ft. in.	ft. in.	ft. in.	ft. ir					
Hastings Peterborough Lakefield Young's Point Burleigh Falls Lovesick Buckhorn Bobcaygeon Fenelon Falls	7 8 7 3 5 9 7 4 5 9 6 5 6 9 6 7 5 11	6 11 6 3 5 3 6 0 5 6 6 0 6 7 6 3 5 9	7 3 7 3 5 4 6 0 5 3 5 10 6 7 6 8 6 1	6 9 6 6 5 0 5 10 5 0 5 8 6 4 6 1 6 0	$ \begin{vmatrix} 7 & 1 \\ 7 & 5 \\ 6 & 0 \\ 5 & 10 \\ 5 & 5 \\ 6 & 2 \\ 5 & 9 \\ 6 & 8\frac{1}{2} \\ 6 & 2 \end{vmatrix} $	6 9 6 6 5 4 5 9 5 0 5 8 6 6 5 10	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	6 10 6 9 5 2 5 6 5 0 5 6 5 4 6 1 5 2	7 2 7 6 5 6 5 6 5 9 6 2 5 1 6 6 5 8	6 4 6 7 5 0 5 4 5 6 6 0 6 1 5 4	6 10 6 4 5 6 5 6 5 6 5 0 0 9 6 5 5 10	7 6 5 5 5 4 6 5	
				-		18	95.					•	
Station.	Jan	uary.	Febr	ruary.	Ma	rch.	Ar	oril.	M	ſay.	Ju	ıne.	

Station.	January.		February.		Ma	March.		April.		May.		
	Highest	Lowest.	Highest	Lowest.	Highest	Lowest.	Highest	Lowest.	Highest	Lowest.	Highest	Lowest.
Hastings. Peterborough Lakefield Young's Point. Burleigh Falls. Lovesick Buckhorn. Bobcaygeon Fenelon Falls.	5 0	ft. in. 6 8 6 5 5 4½ 5 7 5 0 4 11 5 0 5 6 5 0	ft. in. 6 9 6 5 5 6 5 8 5 6 5 9 4 11 5 8 5 3	ft. in. 6 7 6 0 5 1 5 4 5 0 4 9 5 6 5 0	ft. in. 6 9 6 0 5 2 5 3 5 4 5 0 4 6 5 5 5 4 5 4	6 4 5 8 5 0 5 2 5 0 4 10 4 5	ft. in. 8 9 8 9 6 8½ 8 6 6 0 8 4 7 7 6 9 6 7	6 11 8 0	ft. in. 8 9 8 6 6 5 8 1 6 0 7 10 7 1½ 6 0 6 2	7 4 7 0 5 11 7 1 5 10 5 11	7 4 7 9 5 11½ 7 11 6 0 6 4	7 0 6 3 5 4 7 6 5 9 5 11

RICHARD B. ROGERS,
Superintending Engineer.

RIDEAU CANAL.

SUPERINTENDENT ENGINEER'S OFFICE, OTTAWA, 11th July, 1895.

SIR,—I have the honour to submit the annuel report on the works performed on the Rideau Canal, under my charge, during the fiscal year ended 30th June, 1895.

Navigation closed at Ottawa, 26th November, 1894.

do do Kingston Mills, 19th November, 1894.

do opened at Ottawa, 27th April, 1895.

do do Kingston Mills, 30th April, 1895.

On all the levels ascending from Ottawa to the summit level (Upper Rideau Lake) the water was maintained on the main line of navigation, so as to give continually the required depth on the lock sills, throughout the entire season of navigation.

The summit level, however, owing to the long continued absence of rain, fell so low that from the month of October until navigation closed, the depth of water in Newboro' Cut was only 4 feet 4 inches and consequently only the smaller boats were able to go through to Kingston.

On the Perth branch navigation was stopped from 19th July to the 30th owing to the upper gates of the lower lock having been run into and carried away by the Str.

"Rideau Belle" whilst entering the lock.

The spring freshets this year were passed through the waste weirs and bulkheads at the various lock stations without doing material damage, except at Black Rapid station, where a slight breach was made in the lower side of the dam; but which was checked before it became serious.

The principal repairs and works performed at the various lock stations and

bridges along the line of the canal were as follows:--

OTTAWA.

The two cut stone piers on lock No. 4 were taken down and rebuilt, the stone being furnished by contract with Messrs. C. B. Wright & Sons of Hull, and cut and laid by our own masons. Two pairs of oak sluice frames renewed. The chambers of locks 3 and 4 were grouted with Portland cement. The upper sluices on lock 8 were changed from hinged flanges opened by crabs and chains, to sliding vertical flanges opened by means of a rack and pinion, set in steel frames. This change was made on account of the trouble caused every year by debris accumulating in the old flanges, rendering them immovable, and necessitating a diver being constantly sent down to clear them. The new style answers admirably. The wharf at Harris & Co.'s warehouse in the east basin was repaired and also that in front of Bate & Co.'s warehouse at the west basin. The east side of the Deep Cut from the head thereof to a distance of about 1,200 feet northwards was sheet piled with 10 x 10 inch x 24 foot pine, similar to the work done on the west side last year, this present work having been done by contract with Mr. J. R. Booth.

HARTWELLS.

The upper cut stone still of the lower lock was taken down and rebuilt by our own masons, the stone having been supplied by contract last year. About 80 feet of cribwork was built on the north side of the by-wash below the apron to keep up the banks which were being washed away. A small addition was built to the storehouse in which to keep cement.

HOGSBACK.

The rock cut below the new bulkhead was cleaned out of stone, etc., washed into it by the spring freshet. A new ice breaker crib 20 feet high and 20 feet square was built, and timber purchased to make a boom between it and the one built last year. The large apron below the old bulkhead was repaired, it having been damaged by ice during the spring freshet, 25,000 B.M. of 3-inch pine plank being laid over the cribwork

BLACK RAPIDS.

A small breach in the lower side of the earth dam, caused by an eddy from the rush of water through one of the weirs during the freshet, was repaired with timber and stone. Both bulkheads were repaired and sheeted with half-round elm timbers on the up-stream side. A quantity of hewn timber was purchased to repair the long dam.

LONG ISLAND.

A large quantity of clay was placed in front of the bulkhead to stop the leakage through the same. A new storehouse was built by contract with Mr. Robt. Clarke, of Manotick.

WELLINGTON BRIDGE.

This bridge was taken over wholly from the county of Carleton by the Department. The piers were rebuilt from extreme low water mark, and a new steel superstructure of five spans (exclusive of the swing span) was built by contract with the Canadian Bridge and Iron Company, of Montreal. The approaches, etc., were built by local contractors.

BURRITT'S RAPIDS.

Some gravel was placed on the dam, and sundry small repairs made round the station.

NICHOLSON'S RAPIDS.

Sundry small repairs were made to the station.

CLOWE'S QUARRY.

The lockmaster's house and kitchen were reshingled. Accumulations of gravel, etc., cleaned out by diver above the upper lock gates. Leaks in dam stopped by dredge.

MERRICKVILLE.

The flooring of the steel bridge across the by-wash was replanked with 3-inch pine plank. A contract was entered into with Mr. M. Ryan, of Smith's Falls, for the construction of two retaining walls of coursed rubble masonry, with cut stone coping, laid in Portland cement. The total length of these walls which run along the western side of the road across the locks and by-wash is 324 feet. The work is at present about half completed. The leaks in the dam were stopped by the dredge, and the upper cut cleared of loose stone by diver.

MAITLAND'S RAPIDS.

Two pairs of lock gates rebuilt. Two new swing beams. Six new chain blocks. The wooden bridge across the waste weir was rebuilt. Small store house built at side of lock. Two new buoys placed in channel.

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EDMOND'S RAPIDS.

The bulkhead was renewed, and sundry small repairs made to station.

OLD SLY's.

The road over the stone dam was raised and graded, and a new fence built along the edge of the dam. Sundry small repairs to station.

SMITH'S FALLS, COMBINED.

New gratings were laid over the man holes of the sluices. The old swing bridge was repaired, and sundry small repairs made to the station.

SMITH'S FALLS, DETACHED.

An embankment 720 feet long was built along the north side of the Lombardy road to protect it from being flooded by water during the freshets; the work having been done by contract with Mr. Francis Hourigan of Smith's Falls.

The cut stone piers for the new swing bridge across the cut at the foot of the lock were also built by contract with Mr. Hourigan. The contract for the steel swing has been awarded to the Trenton Bridge Co., but the bridge has not yet been erected. Two new mooring posts were placed in the bank.

POONAMALIE.

One pair of lock gates were renewed. One hundred cubic yards of gravel were placed on the north embankment. Four new chain blocks.

PERTH BRANCH.

One pair of large lock gates and one swing beam were renewed, having been wrecked by the steamer "Rideau Belle" striking them when entering the lower lock on 19th July. Two other gates were strengthened and repaired, having been strained by the rush of water when the vessel wrecked the upper gates. Lockmaster's house was painted and re-shingled. Four new chain blocks.

BOB'S LAKE DAM.

This dam which is situated at the outlet of Bob's Lake, about 22 miles above Perth, and which holds back the lake as a reservoir for the supply of the Tay Canal, was rebuilt by contract with Mr. John Korry of Bolingbroke.

THE "NARROWS."

One hundred cubic yards of stone and a similar quantity of gravel were placed on the dam. The swing bridge across the lock was replanked with 3-inch pine plank.

GREEN BAY BRIDGE.

This bridge which runs across the head of Green Bay, a branch of Wolfe Lake, having been damaged by high water caused by the latter lake having been held back by one of our reservoir dams at the outlet, was rebuilt; the council of the township of Bedford doing the work under my supervision, and the cost of the same being defrayed by the department out of a sum specially voted for the purpose by Parliament at its last session.

NEWBOROUGH.

Lockmaster's house was painted outside. The high level bridge was replanked, and sundry small repairs to station.

CHAFFEY'S.

The lockmaster's house was rebuilt by contract with Mr. Graham, of Newborough. The swing bridge across the lock, and the bridge across the by-wash were replanked with 3-inch pine plank. The ferry scow which was built last year was handed over to the council of the township of South Crosby, and placed at the "Little Isthmus" to enable persons to cross from the mainland to the island. The chains with which this scow was worked having proved insufficient for the purpose of hauling it to and fro, a steel cable was purchased and placed on the scow in their place.

DAVIS'S.

One pair of large lock gates renewed. Two new sluice frames and six new chain blocks. The lockmaster's house was roofed with galvanized iron.

JONES'S FALLS.

A new galvanized iron roof was put on the lockmaster's house. Two new sluice frames. Repairs to chain blocks. The high stone dam was repaired. Morton dam strengthened and repaired.

Brass's Point Bridge.

The bridge was painted throughout by contract with Mr. F. W. Young of Seeley's Bay. One-quarter of an acre of land on the Pittsburgh side was expropriated from Mr. John Tierney for the purpose of making an approach to connect with the concession road, and thus stop the public from travelling across Mr. Tierney's property.

BREWER'S UPPER MILLS.

One pair of new swing beams on lower gates, and sundry small repairs.

BREWER'S LOWER MILLS.

Fifty cubic yards of gravel placed on lock walks and dam, and sundry small repairs.

KINGSTON MILLS.

The long bridge on the Phillipsville road, across the by-wash, was renewed. Four new sluice frames. Repairs made to masonry of lower lock. One hundred yards of gravel placed on embankment. Collector's office repaired and painted inside.

GENERAL.

The usual spring repairs consisting of pointing and grouting the lock walls and painting gates, were made by the lockmasters and lock labourers. The year's supply of oak timber, amounting to 4,933 cubic feet, was furnished by contract with Mr. H. Harris, of Ottawa. Nineteen pine swing beams each 40 feet x 17 x 17-inch were purchased from Mr. Platt, of Brighton, and Messrs. Sullivan and Champagne, of Ottawa. Two hundred barrels of "Josson" Portland cement were purchased from Mr. De Sola, of Montreal, and about 40 barrels of Canadian Portland cement from C. B. Wright & Sons, of Hull, Que.

DREDGE PLANT.

The dredge "Ridean," when fitting out this spring, in addition to the usual repairs to her hull and machinery, had new braces fitted to her mast and crane, her boiler tubes spread, and one steel dipper rebuilt.

The tug "Shanly" had her boiler raised, and a new smoke box put on to the

furnace, as well as the usual small repairs, painting, &c.

The dredging plant was employed during the season in deepening the approach to the wharf at the port of Seeley's Bay, and also at the port of Westport. The dredge was also employed in excavating clay and loading the scows for the purpose of stopping leaks in the retaining dams at Merrickville, Nicholson's, and Clowes. The entire dredging plant, consisting of dredge, tug, four side pocket, and one flat scow, are in first-class working order.

I append hereto a table showing the highest and lowest water during each

month of the year, at Ottawa and Kingston Mills lock stations.

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

ARTHUR T. PHILLIPS, Acting Superintending Engineer.

Collingwood Schreiber, Esq., C.M.G., Chief Engineer of Railways and Canals, Ottawa.

RIDEAU CANAL.

TABLE showing monthly, the Highest and Lowest Water on the Lower Sills of the Locks at Ottawa and Kingston Mills, respectively, from 1st July, 1894, to 30th June, 1895.

Ottawa.							King	STON	Mills.					
Highes	Highest. Lowest.			Highest. Lowest.					Higher	st.		Lowes	t.	
July 1	Ft. 14 9 7 10 11 10 8 7 18 20 17	7 9 5	July 31	Ft. 9 7 6 6 10 10 8 7 7 7 16 13	in. 11 7 6 6 0 9 6 4 8 5	July 1 to 3 Aug. 1 Sept. 27 to 30. Oct. 1 to 10 Nov. 1 Dec. 1 and 2 Jan. 11 to 31 Feb. 1 to 12 Mar. 31 April 14 to 30. May 21 to 31 June 1 to 5	Ft. 987776667777	in. 1 7 9 9 7 2 8 8 0 0 2 2	July 26 to 31 Aug. 31 Sept. 1 to 8 Oct. 21 to 31 Nov. 22 to 30 Dec. 27 to 31 Jan. 1 to 10 Feb. 13 to 28 Mar. 1 to 6 April 1 to 12 May 1 to 14 June 26 to 30	Ft. 8 7 7 7 6 6 6 6 6 6 7 6	in. 7 6 6 7 2 7 7 7 11 0 9			

A. T. PHILLIPS,
Acting Superintending Engineer.

ST. LAWRENCE DISTRICT.

Superintending Engineer's Office, Cornwall, 1st July, 1895.

SIR,—I beg to submit the following report for the fiscal year ending 30th June,

1895, upon the maintenance of the canals in my charge.

The St. Lawrence District extends from the province line—Lake St. Francis to the harbour of Presqu'Ile on Lake Ontario—and includes the Cornwall, Williamsburg and Murray Canals and the intermediate river reaches.

CORNWALL CANAL.

Navigation for the season of 1894 was closed on the 8th December.

The canal which was unwatered on the 16th March, 1895, to permit the works of construction to be proceeded with, and also the ordinary spring repairs, was

opened for traffic on the 29th April, following.

Navigation is being maintained in a fairly satisfactory manner notwithstanding the inconveniences to which forwarders and vessel owners are occasionally subjected owing to the prosecution of the works of enlargement, or accidents to lock gates, necessitating the lowering of any of the levels.

On the 10th of July, 1894, the tug "Beaver" was fined \$10 for damaging valve rod of lock No. 18. This fine has been paid to the collector, Mr. Flanagan, 14th

August, 1894.

A serious break occurred on the 19th June, 1895. The steamer "Ocean" on her trip west, struck the upper gates of lock No. 17, carrying them both out, the rush of water carried her back, causing her to strike the south lower gate of the same lock, which was also carried away, causing a stoppage of navigation for four days.

The damage resulting from this accident will probably amount to \$5,000.

As a rule, unwatering when necessary, has only been permitted during off

hours on Sundays, viz., between 6 a.m. and 9 p.m.

The usual works of renewal and repair at the shops were carried on during the winter and the necessary repairs to structures and banks made whilst the canal remained unwatered.

Extensive repairs and renewals not provided for in the estimates are required

at the following works, viz .:--

The ice breaker at the foot of the canal.

Bearings for pivots of all gates of new locks Nos. 15 and 17, this will necessitate the unwatering of the locks.

The collector's office and lock houses in connection with lower entrance

require extensive repairs.

The superstructure of the pier at upper entrance, including ice breaker, should

be rebuilt in stone, advantage being taken of the present low stage of river.

The question of building houses for lock and bridgetenders at all new structures is submitted for your consideration, as also that of waste weirs for the levels between locks Nos. 18 and 20.

There have been no superannuations during the past year.

The locks at the lower entrance were dismantled and otherwise prepared for winter, immediately after the closing of the canals on the 8th December, and the gate lifter, scows, &c., laid up in the Cornwall basin.

The highest water recorded during the year at lock No. 15, lower entrance, was 22 feet 4 inches and the lowest 9 feet $\frac{1}{2}$ inch, at lock No. 21, the guard lock the highest was 10 feet 10 inches and the lowest 5 feet 7 inches.

The above levels are with reference to the old mitre sills.

The water in the St. Lawrence is abnormally low and there are no indications of the usual high stage which generally occurs in June or July.

During the winter gates were repaired and other necessary works attended to. Whilst canal was unwatered, from 16th March to 27th April, three new valves were put in the weir of lock No. 17, and the bottom also repaired, and all locks overhauled.

During the season of navigation the banks, culverts and ditches were kept in repair, also lock houses and watch houses.

New valves were put in four gates for locks Nos. 15 and 17.

Some vessels have been detained for a few hours in the long level between locks Nos. 20 and 21, at points where no dredging operations had been carried on, on account of the extraordinary lowness of water in the river which has prevailed during the past year.

WILLIAMSBURG CANALS.

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 10th December, 1894, and reopened for the season of

1895 on the 23rd April.

The buoy service between Prescott and Dickinson's Landing was performed soon after the opening of navigation and twenty-one new buoys substituted for those found to be unfit for use and three old ones painted and properly replaced, and in addition, the channel at Rapide Plat for upward bound vessels has also been buoyed; this has been rendered necessary by the prevailing low water in the Rapide Plat canal which is 2 feet below normal level.

Navigation has been maintained in a satisfactory manner during the year,

notwithstanding the prosecution of the extensive works of enlargement.

No accidents have occurred during the year and no unusual interruptions have occurred for traffic, notwithstanding the unusual lowness of the water in the river which rendered navigation very difficult through these canals.

The work of the repair staff has been general.

Farran's Point Canal, Lock No. 22.

The bridge across the flume has been rebuilt and largely renewed.

Several minor repairs were made to the lock and banks of this canal and a few snubbing posts put in.

New gates for lower recess are being built by contract.

Rapide Plat Canal, Lock No. 23.

A new pair of upper gates have been provided and put in place.

Lock 24.

Minor repairs were made to gates, gear and boom, the gates, bridges and weir were also painted.

Galops Canal, Lock No. 25.

A new road bridge across the flume was built to replace the old one which was unsafe.

Many repairs were made here to gates, bridges and wharf, the booms also in Point Iroquois section have been largely renewed.

Lock No. 26.

This lock has received many minor repairs during the year and frequently had to be cleaned out.

Early in February last, an ice bridge formed at Farran's Point on both sides of the island and the river filled up with floating ice for about five miles, but no damage was done.

This bridge was the result of natural causes and broken up with this spring

thaw.

The following fines have been imposed on the undermentioned vessels, for want of care and disregard to canal regulations, viz.:—

 Steam barge, John E. Hall, 24th Sept., 1894
 \$ 5 00

 Propeller Melbourne, 30th May, 1895
 5 00

 Barge Roberval, 26tb June, 1895
 40 00

These fines have all been paid to the collector at Cardinal, except the "Melbourne," which still remains uncollected.

The highest water on the sill of lock No. 23, the governing point on these canals,

was 11 feet 5 inches, and the lowest 4 feet 3 inches.

The highest water on the sill of lock No. 27 was 10 feet 9 inches and the lowest 6 feet 9 inches.

MURRAY CANAL.

Navigation was closed for the season on 30th November, 1894, and opened up again to allow a vessel to pass up on 22nd December, and opened in the spring on 19th April, 1895.

The number of vessels passed through the canal during the year was 673.

No accidents occurred and no fines were imposed during the year.

New mooring posts of cedar were put in where most required.

The swing bridges have been kept in thorough repair, and new floor planking put in where required.

Generally the banks have been kept in good condition, the ditches kept open,

and the rip-rap protection repaired.

The bridge piers and abutments have been repointed where necessary.

Piper's semaphore signals have been placed on Trenton and Brighton road bridges and have given great satisfaction.

The towpath formed of sand east of the Smithfield road bridge, on the north

side of the canal, has been protected by gravel for a distance of 1,400 feet.

The water at present is so low that at some points the riprap protection is entirely above water, and at these places a new trench is being formed and the toe

of the original wall underpinned.

A great many complaints have been made by steamers and other vessels, on account of being obliged to stop at Bridge Pit to pay tolls, the space at this point being so narrow that they could not pass one another and were often delayed in consequence, and attention is, therefore, directed to the necessity of a wharf for this purpose, as well as for the convenience of shipping, as there is a large quantity of fruit shipped annually from the banks of the canal.

Attention is also directed to the subject of houses for the bridge tenders, wharf range-lights, etc., for which there remains an unexpended balance on capital account.

The lights at the entrance piers are not powerful enough and should be replaced by towers.

The highest water recorded during the year was 14 feet and the lowest 11 feet 6 inches.

A statement is appended hereto showing the highest and lowest water recorded during the past year at each of the canals on this district.

I have the honour to be, sir,

Your obedient servant,

TOM S. RUBIDGE,

COLLINGWOOD SCHREIBER, Esq., C.M.G., Chief Engineer of Railways and Canals, Ottawa. Superintending Engineer.

		Cor	Cornwall.						Williamsburg.	nsburg.					Mu	Murray.
Month.	Loc	Lock 15.	l Loc	Lock 21.	Lock 22.	₹ 22.	Loci	Lock 23.	Lock 24.	k 24.	Loc	Lock 25.	Loc	Lock 27.	Murra	Murray Canal.
	High.	Low.	High.	Low.	High.	Low.	High.	Low.	High.	Low.	High.	Low.	High.	Low.	High.	Low.
	Ft. in.	Ft. in.	Ft. in	Ft. in.	Ft. in.	Ft. in.	Ft. in.	Ft. in.	Ft. in.	Ft. in.	Ft. in.	Ft. in.	Ft. in.	Ft. in.	Ft. in.	Ft. in.
1894.																
July	10 11	10 7	10 10	9 10	10 3	9 10	9 11	0 6	10 5	0 6	13 3	11 6	10 9	2 6	14 0	13 6
August	10 7	10 0	10 5	9	10 0	8 10	9 5	8 4	8	8	12 6	10 0	10 6	9 1	13 8	12 10
September.	10 3	9 11	10 1	9 1	6 6	8 7	0 6	0 8	0 6	9 2	12 4	10 6	10 0	0 6	12 11	12 6
October	9 11	₹9 6	8 6	8 10	9 2	& &	8	7 3	80 80	2 2	11 6	10 0	6 6	8	12 8	12 3
November.	10 0	9 2	9 10	8	6 3	7 10	8	0 2	8 7	6 9	11 6	9 1	10 2	7 11	12 5	12 0
December.	11 0	6	6 6	7 1	8 6	9 2	8	5 1	8 4	6 3	10 8	6 8	0 6	0 2	12 2	11 7
1895.																
January	22 4	10 8	9 4	7 10	8 10	2 2	7 111	6 2	2 2	6 1	9 10	7 4	8	6 2	12 0	11 7
February	15 8	13 3	8	6 3	8 10	6 5	10 0	6 3	8 9	3 4	8 8	6 4	7 11	6 9	11 9	11 6
March	14 8	13 4	8	6 4	8 10	6 4	11 5	6 5	0 2	4 7	6	5 0	8	6 9	11 9	9 11
April	13 7	6 6	9 4	8 4	8 11	7 10	8	0 2	6 8	6 9	11 7	8 9	6 6	8 1	12 5	11 9
May	9 10	6 6	9 4	8 7	6 8	0 8	es 80	7 2	8	0 2	10 10	9 6	9 10	7 11	12 5	12
-Tune	0	2	0	a	9	0	4	t	0	t	9		•	•	,	,

ST. LAWRENCE DISTRICT.

SUPERINTENDING ENGINEER'S OFFICE,
CORNWALL, 1st July, 1895.

Sir,—I beg to submit the following report for the fiscal year ended 30th June, 1895, upon the construction in connection with the enlargement of the canals in my charge.

CORNWALL CANAL.

The canal has a total lockage of 48 feet and surmounts the Long Sault Rapids. It extends from the town of Cornwall westwards to the village of Dickinson's Landing, a distance of 11½ miles.

It was completed and first opened for traffic in the year 1843.

It is located on the north side of the St. Lawrence, on ground sloping rapidly towards the river, and at a considerable elevation (generally about 30 feet) above it.

By closely following the margin of the river, high embankments became necessary, which, when imperfectly constructed (as has been found to have been the case) have under certain conditions been subjected to frequent land slides, accompanied by subsidence, entailing, as in 1888, very serious consequences.

The works of enlargement now under construction consist in deepening, widening and straightening the original channel, in strengthening and protecting the embankments and in the construction of new and enlarged locks, supply weirs, bridges, &c., &c., also in addition to the above included in the original contract, the construction of dams across the north or Sheiks Island channel with the necessary regulating weir, &c., on the island designed to perfect the channel way and do away with the existing sinuous and imperfectly constructed embankments, west of the village of Milleroches.

As no change or improvement in the original alignment was contemplated or provided for in the scheme for enlargement, attention was directed to the fact that the class of vessels for which the enlarged canal is designed, would have great difficulty in navigating it, and that on certain curves on sections Nos. 6 and 7 west of Milleroches, it would be pratically impossible for vessels of full canal size to pass each other when under headway.

The enlargement at the lower or eastern entrance (section No. 1) was commenced in 1876, and with the exception of some work on old lock No. 17, the weir and head race to the mills, was completed in 1882.

Section No. 10, upper entrance, which was commenced in 1884, has been finished during the past year.

In 1888 the remainder of the work required to complete the enlargement was

placed under contract and except sections Nos. 6 and 7, is still in progress.

And in 1893 the contract for section No. 4 was extended to include the construction of the Sheiks Island dams which have been commenced and the contract for sections Nos. 6 and 7 and parts of sections Nos. 5 and 8 affected by their construction, cancelled.

STATEMENT of work under existing contracts and in progress.

Locality.	Section.	Contractors.	Date of Contract.
Cornwall	$\begin{bmatrix} 2\\3\\4\\5 \end{bmatrix}$	Wm. Davis & Sons	November 5th, 1888.
Moulinette. Sand Bridge. Long Sault. Dickinson's Landing	6 7 8	The Gilbert Blasting and Dredging Co Jocks, Delorimier & Broder	

Section No. 2 includes the completion of Section No. 1.

Section No. 4 includes the Sheiks Island dams.

Section No. 8 adjoins section No. 10.

The water was drawn off the canal by the 16th March, 1895, and so continued until the 29th April following, this enabled the contractors on sections Nos. 2, 3 and 4, to proceed with work which could not be carried on during navigation.

The stone delivered during the year was procured from the quarries at Corn-

wall, Maple Grove and Milleroches.

Masonry was continued throughout the season of 1894, until stopped by frost in November, 1894, and began again on 16th March, 1895, and has since been continued without interruption.

SUMMARY OF THE YEAR'S WORK.

Section No. 2.

The new lock No. 18 was brought into use last fall, and preparations are now

being made to raise and repair the walls of the old lock.

While the water was out of the canal last spring the south retaining wall of the swing bridge was extended westwards in front of the Stormont Mill, and head gates were put in to control the water supply to the mill. The north wall was extended eastwards to the line of Pitt Street in the town of Cornwall, forming a wharf to replace the old structure which was removed.

The stone protection to the inside slopes of the banks, between the lock and the bridge was placed while the water was out of the canal. A large quantity of excavation has been done above the lock in straightening the canal, and only a

small quantity remains to be removed to finish this work.

The outside or river slope of the banks is being protected by a heavy class of

"pitched stone facing."

The stone arch of Wood's culvert has been removed where it was higher than the new bottom of the canal; a four foot cast iron pipe, which was placed inside the culvert and surrounded with concrete in 1891, taking the place of the old culvert.

A commencement has been made at the protection to banks, trimming, &c., and the section is beginning to assume a finished appearance.

Section No. 3.

The new lock, No. 19, was brought into use last fall. The masonry of the supply weir has been completed and the valves and service bridge placed in position. The entrances to the weir are being excavated, and it will shortly be brought into use.

The excavation on the section has been principally confined to the entrances to the weir, as the rest of the section is almost completed.

A small quantity of "stone protection to the inside slopes" of the banks has been placed and the trimming of the banks has been commenced.

Section No. 4.

The new lock, No. 20, was brought into use last fall.

While the water was out of the canal in the spring of this year, the glance pier at the foot of the lock was built, and the dry wall above the weir was completed.

The upper ends of the old lock walls were rebuilt, and a temporary dam placed across the head to allow of the remainder of the walls being rebuilt and raised while

the water was in the canal, and this is now being done.

Three of the old courses of masonry are being removed and are to be replaced by four new ones, thus raising the walls two feet above their original height and bringing them on a level with the walls of the new lock, which were raised last summer.

Very little excavation has been done on the section, as nearly all that now remains to complete is the blue clay above the lock, which is being reserved for

Puddle.

The new bank to the north of Robertson's culvert has been completed and the north end of the old culvert will soon be removed, thus giving a much wider and straighter channel for navigation than formerly.

Section No. 5.

Two dredges have been working on this section all this spring and summer, and are making fair progress towards completion.

Section No. 8.

The stone protection to the inside slopes of the banks has been nearly all placed and the south bank has been built up and trimmed. Fair progress has been made with the excavation which is now nearly completed.

Section No. 10.

The work on this contract has been completed during the year, and the final estimate is being prepared.

Sheiks Island Dams.

Splendid progress has been made on both the dams during the year, and they

stand now within a very short time of completion.

The rip-rap facing on the inner slope of the lower dam has been completed and all that now remains to be done is to face the outer slope in a similar manner and form the roadway across the top of the dam.

The upper dam is in almost the same condition, with the exception that the

rip-rap facing is not quite so far advanced.

The roadway embankment on the island at the lower dam has been completed. The excavation for the regulating weir is progressing rapidly and it is expected that the foundation of the weir will be laid this season.

Attention is again 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 the proposed raising of the level of the coping of the new guard lock from 18 inches to two feet, to provide protection to the works during high water stages of the river.

An appropriation has been made for repairing locks 15, 16 and 17 of the old lower entrance, the work on which has been commenced by the construction of the

necessary cofferdams.

WILLIAMSBURG CANALS.

FARRAN'S POINT.

This canal is about three-quarters 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 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 Little Cat Island and the village of Aultsville on the mainland, and from the present lower entrance the survey was extended east 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 the canal and of extending both the entrances to a safe distance beyond the influence of

the eddy and current.

RAPIDE PLAT.

The lockage on this canal is 11½ feet, it surmounts the rapids 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, viz.:

Lecation.	Section.	Contractors.	Date of Contract.
M orrisburg	1	Poupore & Fraser	January 26th, 1891.
Mariatown	2	The Weddell Dredging Co	January 12th, 1891.
New Road	3	Poupore & Fraser	January 26th, 1891.

The change in alignment on section No. 4 is included in section No. 3.

The enlargement was commenced in 1884 on section No. 4, the upper or western

entrance, which was 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 locks and supply weirs, and the necessary retaining walls, protection cribwork, &c.

Section No. 1.

This section extends west along the river front, front of the village of Morris-

burg, and includes the new locks.

A change from the general alignment of the lower end of the section has been made by placing the centre piece of the new lock parallel to that of the old lock No. 23, thereby improving the direction of the river entrance and enabling upward bound vessels to avoid the strong current.

Dredging operations were stopped on the 24th December, 1894; resumed again on the 15th April, 1895, and are progressing favourably. The material excavated has been utilized in widening and strengthening the towing path and in forming an

embankment upon and outside the protection cribwork.

The excavation of the lockpit by means of the steam excavator was stopped on 4th December, 1894. The greatest part of this excavation being done, the excavator was removed from the works. On the 11th March, 1895, with the help of a steam derrick, the cleaning up of the lockpit was resumed and is now nearing completion.

On the 11th August, 1894, during the progress of the excavation owing to quicksand beds and fissures underlying the bed of the river, a dangerous leak was

developed which filled the pit in about four hours.

By the aid of divers, two puddle dams were made in the south protection crib-

work opposite both ends of the lockpit.

These were completed on the 13th September, 1894. The unwatering of the pit was immediately proceeded with and the excavation prosecuted without further interruption to the end of the season. During the progress of this work two large pumps have ultimately been at work and are still in operation owing to a small leak coming from the river and following the face of the cribwork and which cannot be traced. The concrete and timber foundation and the mitre sill platform of the new lock which was, commenced on the 18th April, 1895, is now in progress, and nearing completion.

The masonry for the new lock was commenced on the 7th May, 1895, and is now

progressing favourably.

The stone for lock masonry is being cut and prepared partly at the works and partly at Milleroches quarry, Cornwall Canal, and that for the retaining walls, &c., at the Wolfe Island and Belleville quarries.

The construction of the cribwork for the seat of the north retaining wall of the canal was resumed on the 24th May, 1895, and completed on the 28th June, 1895.

The masonry for the above wall was stopped on the 16th November, 1894, resumed on 27th May, 1895, and is now nearing completion.

Section No. 2.

This district begins at the west end of the village of Morrisburg and extends westward to near Mariatown.

The works on this section consist chiefly of excavation, i.e., dredging and dry work.

The dredging operations were stopped on the 24th December, 1894, and resumed

on the 15th April last. Two dredges have been engaged in excavating.

The material dredged has been utilized in widening and strengthening the towing paths and embankments. To protect the outside river slope of the towing path, a stone toe was formed from the west end of Statas Bay to the west or upper end of the section.

The stone protection of inside slope of north bank was commenced on the 14th

October, 1894, and completed on the 30th November, 1894.

The levelling up and repairing of the slopes of the towing path is now being proceeded with.

The entire work on this section will be completed in a few weeks.

Section No. 3.

This section commences a short distance above Mariatown and extends west of the vicinity of the guard lock (No. 24) and includes the widening and deepening of the east end of the section No. 4, and also the spoil ground and other works connected with Flagg's Bay.

The dredging operations were stopped on 19th December, 1894, resumed again

on 8th April, 1895, and are now being carried on.

For the formation of the north slope above water, a force of labourers, teams,

ploughs and scrapers have been engaged since the 17th June last.

The dredged material is being utilized in widening and strengthening the towing path and embankments.

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At Flagg's Bay, owing to the dumping grounds having obstructed the old bridge and a portion of the old public road, a new bridge and approaches were constructed.

This work was commenced on the 18th July, 1894, and completed on the 30th October, 1894.

Section No. 4.

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

Since the completion of the contract it has been found necessary to change the alignment at the lower end of this section.

The work in connection with which is included in section No. 3.

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 extends westwards to Presqu'Ile, overcoming the Point Iroquois Rapid, and other stretches of swift water, as at Sparrow Hawk's Point, &c.

About ten years after the completion of these works, some important changes were made, viz., the lower mitre sill of lock No. 25 was lowered 3 teet 2 inches, and means afforded of regulating the depth of water on the upper sill, and consequently in the canal, by connecting it by means of an embankment in the river with the Galops Canal at Point Cardinal (Lock No. 26).

There are no works of construction on this division on which to report.

The Junction Division.

The Junction Division commences at Presqu'Ile and extends upstream to lock No. 26, at the village of Cardinal.

In consists chiefly of an embankment about $2\frac{1}{2}$ miles in length, formed in the river and connects the Galops and Point Iroquois divisions, and thereby as stated above, raises the water and affords a means of controlling the level in the Iroquois reach.

The fall in the river between the above mentioned canals is one foot seven and a half inches.

Work on the Junction was completed in 1856.

There are no works of construction on this division whereon to report.

Galops Division.

This, the original Galops Canal, had a lockage of 6 feet 8 inches, and extended upwards from the village of Cardinal, about 2 miles to the head of the Galops Rapid, which it was designed to overcome, and which commences about 7 miles east of the town of Prescott.

Some years after the completion of the canal, the pier head was extended up stream by cribwork, and the lockage or fall increased $11\frac{1}{2}$ 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 June, 1891.

It embraces 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.

Dredging and drilling and blasting operations have been carried on uninterrup-

tedly during the working seasons.

All dredged materials, except rock required on the work, and earth suitable for embankment, have been conveyed in dump scows to the dumping ground between

Pier and Squaw Islands, and wasted.

On the 28th September, 1894, the area occupied by the new locks was flooded from the canal and the lock gates were floated to their places through an opening dredged in the old canal bank; all five pairs of gates were hung and those in the lift lock closed, the dam to the river was cut and water below the lift lock lowered to about the level of the river.

The old canal banks having been dredged out, navigation was turned through the new locks and the dams inclosing site for weir formed across the old canal.

Early in April, 1895, the weir pit was pumped out, the coffer dams proving perfectly water tight.

The foundation of the weir has been put in and about two-thirds of the masonry

completed.

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.

Preliminary surveys have been made or are in progress, of the Galops, Junction and Iroquois divisions, and of the adjacent coast line and shoals, for the purpose of deciding upon the character and extent of the proposed enlargement.

A survey of the Rapide Plat shoals is in progress, and a further survey of the

south or Flat Rock channel above the Galops will be made this season.

It is proposed to ask for tenders for the reconstruction of the north pier at the lower entrance to lock No. 22, and also of the north and south piers at lower entrance to lock No. 26.

St. Lawrence River and Canals.

The tug "Alert," a vessel of 34 tons, was purchased in October, 1894, for survey and inspection purposes, and was subsequently fitted with a steam winch and cable for anchoring in the rapids.

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

> > TOM S. RUBIDGE.

Superintending Engineer.

Collingwood Schreiber, Esq., C.M.G., Chief Engineer of Canals, Ottawa.

WELLAND CANAL.

St. Catharines, Ont., 10th September, 1895.

SIR,—I beg to submit my annual report upon the Welland Canal and its branches

for the fiscal year ended 30th June, 1895.

With the exception of the mishap at lock No. 22, on the morning of 9th May, 1895, when the steamer "Jack" of Garden Island carried away the four gates of that lock and one of lock 21, no interruptions of traffic worthy of mention occurred; on the occasion stated, traffic was delayed for four and a half days.

The steamer came into the lock too fast, trusting to the engine to stop her. The engineer failed to obey the signal from the bridge, and the gates were carried

The mishap was due entirely to a departure from canal rules and regulations, and unless they are strictly followed, such mishaps and detentions are sure to

continue.

A bond for \$5,000 was taken from the owners and other responsible parties,

and the vessel proceeded on the 13th May.

The repairs were not completed in full at date of 30th June last, and the amount does not therefore appear in the accompanying statement of damages to canal property.

The following minor repairs and renewals were carried out during the year:—

Division No. 1.

Port Dalhousie to Guard Lock.

Repair Shops, Port Dalhousie.—Brought spare guard lock gates from cradles and thoroughly overhauled them, put in elm dowels, new valves, &c.; hauled out the four broken gates of lock No. 1 old canal, carried out by the "City of Windsor," and rebuilt them; repaired twenty-four wheel barrows, and twenty ice chisels, made 300 stoppers. Hauled out and rebuilt the two gates from guard lock. Built new gate pontoon and painted it. Hauled out and dismantled the old pontoon (No. 1) and used iron work, as far as available, for the new one. Repaired pontoon No. 2 and steam pile driver, putting in covering boards, and rakes, caulked and pitched decks. Hauled out and blocked up the scow "Sir Charles" for repairs.

Built blacksmith shop 15 x 30 feet, and put in necessary working equipment. Replaced the five lock gates carried out of locks 21 and 22 by the steamer "Jack" with spares from lock 1 pond, and hauled out and rebuilt the broken gates,

and laid them away on the gate cradles.

Port Dalhousie Harbour.

Repaired the piers from time to time, where not under contract for renewal, renewed the culvert under roadway on east side of the harbour; renewed the walls and platform of ferry landing, repaired the winter float bridge after storms, and drove pipes to keep it in position; repaired the road from lock 1 to station, and opened ditch alongside, reset snubbing posts where necessary.

Lock 1 and Bridge 1 and Level.—Built temporary bridge above lock No. 1 weir and removed and rebuilt the road bridge at that point, then removed temporary bridge; put new segmental planks at each end of No. 1 bridge. Bolted new walings to lock walls at upper end of lock, put 6 cords of stone on gates at cradles, put new swinging gear in No. 1 bridge, took out old and put in new snubbing posts, made new lock float, used 2 brass matrices, 3 brass washers, 2 cables, 2 water wheels and cases, new slide valve, 2 new crown wheels.

Lock No. 2 and Level.—Took out old, and put in 2 new posts for safety cables, opened out 550 lineal yards of ditch on both sides of canal, made 1 lock float, used 1

slide valve, 1 water wheel, 1 brass washer, 2 clutch studs, 1 pinion, 1 brass matrix, 1 cable.

Lock No. 3 and Level, Bridge No. 2.—Made up the banks in rear of lock, over-hauled the gearing and rods of swing bridge, and put all in proper adjustment, dug out old and put in new snubbing posts and braces, used 3 brass matrices, 2 brass washers, 2 long cables, 1 water wheel and case, 1 slide valve, 1 intermediate gear, put new top on lock float.

Lock No. 4 and Level.—Took out old and put in new snubbing posts and braces, and straightened others, put in new guard timbers to water wheels and shafts, used 1 intermediate gear, 1 short cable, 2 phosphor bronze pinions, 1 brass washer, 1 water wheel, put new top on lock float.

Lock No. 5 ond Level.—Made up the banks in rear of lock, used 1 new ratchet, 1 stud, 1 valve crank, 4 new brass matrices, 4 brass washers, 1 cable, 1 intermediate gear, 1 slide valve, 2 phosphor bronze pinions, made 1 new rack for poles, ladders, &c., took out old and put in new large snub, and some smaller ones, and put new top on lock float.

Bridge No. 3 (Lake St.).—Took out old abutment fender piles and put in new ones and new walings, put new wales and braces on centre pier cluster piles, put new shackles and chains on floating fenders when necessary, replaced old snubbing posts with new ones.

Bridge No. 4 (Grand Trunk Railway).—Renewed waling where broken, put up 1 new stop block and locking catches, 1 new opening spring, 2 track chairs, 6 new snubbing posts to replace old ones.

Lock No. 6 and Level and Bridge No. 5 (Geneva Street).—Repaired the road leading to lock and bridge, and made up the banks where necessary, using 3 cords of stone facing; took up and reset 100 lineal feet of coping on east upper entrance, bolted new wales on masonry under water, put new guard timbers on the 4 gates, put up rack for holding poles, ladders, &c., put new top on lock float, used 1 new stud, 1 valve screw, 1 valve sleeve, 2 brass matrices, 4 brass washers, 2 cables, 1 intermediate gear. Built new oil house.

Lock No. 7 and Level.—Put new water wheel guards on gates, renewed gate bridge and wales, and repaired another, put up rack for poles, ladder, &c., took out old and put in new snubbing posts, used 35 cords of stone in repairing stone facing of banks, opened up ditches on each side of level used, 1 slide valve, 1 ratchet dog, 1 lever stand, 1 set cone rollers, 1 cannon, 2 water wheels, 2 cables, 1 phosphor bronze pinion, put new top on lock float.

Bridge No. 6 (Niagara Street).—Renewed the cluster piles, wales and braces, at north end of centre pier, put new chains and shackles on floats where required, screwed up truss rods, and adjusted cams, &c.

Lock No. 8 and Level.—Put new wheel guards and protection timbers on the 4 gates, replaced 5 snubbing posts, put new top on lock float, used brass matrix, 2 brass washers, 1 lever stand, 3 cables, 1 new shifting stud, 1 spur wheel gear, 1 set cone rollers and frame, 2 water wheels and cases.

Lock No. 9 and Level—Put on one new foot bridge, made up bank and used 10 cords of stone in facing same, opened up ditches on north side of level, put up rack for holding poles and ladders, replaced decaying snubbing posts, used 1 slide rod, 1 set of gearing, 3 brass matrices, 2 phosphor bronze pinions, 1 water wheel and step, 1 set intermediate gear, 1 cable, 1 water wheel.

Bridge No. 7 (Queenston Road).—Put swinging gear in order, made hatch in floor, put in 6 new eyebolts, and kept floats in order.

Lock No. 10 and Level.—Made up canal banks, and used 6 cords of stone in facing same, cleaned out mouth of 10-mile culvert, opened ditches at foot of slopes, replaced old snubbing posts, put up rack for poles and ladders, &c., used 1 slide valve, 2 water wheels, 1 cable, 1 phosphor bronze pinion, 1 gear shaft, 1 crown wheel, 2 matrices, 1 clutch shifting stud, 1 new valve screw.

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Bridge No. 8 (Homer Road).—Renewed the cluster piles, wales and braces at each end of the centre pier, and repaired the floating fenders, eyebolts, and chains.

Lock No. 11 and Level.—Made up canal bank where required, and repaired the stone facing, put up rack for poles, ladders, &c., put on new binder, and wheel guards, 1 large wale on head gates, used 1 intermediate gear, 1 water wheel, 1 clutch frame stud, 1 phosphor bronze pinion, 2 cables, 2 brass matrices, 1 brass washer.

Lock No. 12 and Level.—Made up banks and repaired stone facing, renewed 5 snubbing posts, put up rack for poles, ladders, &c., put new top on lock float, used 3 phosphor bronze pinions, 1 large wale on gate, 2 cables, 2 brass matrices, 4 brass washers, 3 water wheels, 1 clutch shifting stud.

Lock No. 13 and Level, Bridge No. 9 (St. David's Road).—Made up the banks where required and repaired the stone facing, replaced 7 old snubbing posts with new ones, and straightened 3 others, put up rack for poles and ladders, &c., and put new top on lock float, used 2 phosphor bronze pinions, 4 new studs for clutch shifter, 1 brass matrix, 2 brass washers, 1 water wheel, 1 intermediate gear, 5 cables, 1 set of gears, 1 gear shaft.

Lock No. 14 and Level.—Made up the reservoir bank where a slide had occurred, also some smaller soakage slides, replaced 8 old snubbing posts with new ones, put up rack for poles, ladders, &c., and put new top on lock float, used 1 mast, 1 phosphor bronze pinion, 4 new water wheels, 5 cables, 1 brass matrix, 1 brass washer, 1 clutch stud, 2 slide valves.

Lock No. 15 and Level.—Anchored watch house with bolts to stone foundation, replaced 11 old snubbing posts with new ones, renewed one foot bridge, put new top on lock float, made up banks and used 5 cords of stone facing same, used 3 slide valves, 3 cables, 1 intermediate gear, 1 new shutting chain, 1 lever stand, 1 phosphor bronze pinion.

Lock No. 16 and Level.—Filled up settlements in canal and reservoir banks, anchored watch houses to foundations, took out and renewed 7 snubbing posts, put new top on lock float, used 12 cords of stone in facing banks, put a new set of studs under gate bridges, used 3 brass matrices, 1 brass washer, 1 cable, 2 new clutch studs, 3 intermediate gears.

Lock No. 17 and level.—Repaired broken waling at head of lock, put new top on lock float, anchored watch houses to masonry, put new protection timbers to water wheels and shafts, used 3 new clutch studs, 1 brass matrix, 1 brass washer, 7 water wheels, 4 cables, 1 mast, 2 slide valves, 1 phosphor bronze pinion.

Lock No. 18 and Level.—Anchored watch houses to foundations, repaired the stone facing of banks, put new top on lock float, used 1 new gate step, 3 water wheels, 1 water wheel care, 1 crown wheel, 2 brass washers, 1 cable, 1 phosphor bronze pinion.

Lock No. 19 and Level.—Made up slide in reservoir bank, anchored watch houses to foundation, put new top on lock float, straightened 3 snubbing posts, used 1 water wheel, 2 brass washers, 1 clutch shifter, 2 cables.

Lock No. 20 and Level.—Anchored the watch houses to foundations with bolts. Repaired and made good a slide in the reservoir bank, and faced its banks with stone where washed out. Took out 7 old snubbing posts and braces and put in new ones, and straightened up 2 other posts. Put new cover on lock float. Repaired the water wheel and shaft guards and protections. Used 1 water wheel, 2 brass matrices and washers, 1 new gate step, 1 cable.

Lock No. 21 and Level.—Filled up and well rammed large cracks in banks and faced up slopes of same where needed with stone. Took out 5 old snubbing posts and braces and put in new ones, and straightened 4 others. Put new cover on lock float. Used 2 phosphor bronze pinions, 1 slide valve and frame, 2 gate steps, 6 water wheels, 1 clutch stud, 2 cables, 1 brass matrix.

Lock No. 22 and Level.—Dug down to bottom of leak through bank and filled up with puddle. Put new covering on lock float. Dug 350 feet of ditch. Put on protection pieces to water wheels and shafts. Used 1 clutch shifting stud, 2 ratchet arches, 2 gate steps, 4 cables, 2 brass matrices, 4 brass washers, 1 hub wheel, 2 water wheels, 4 new lock gates and machinery. Took out 5 old snubbing posts and braces and put in new ones and straightened up 5 others.

Lock No. 23 and Level.—Took up 1 old snubbing post and braces and put 1 large new one in place and straightened up 4 others. Put new top on lock float. Put down new platform in front of watch house. Put new binder on foot gate. Put new water wheel guards, also shaft protectors. Used 1 water wheel, 4 cables, 1 intermediate gear, 2 brass washers, 1 phosphor bronze pinion, 1 adjusting screw, 1 clutch shift.

Lock No. 24 and Level and Bridge.—Took up 5 old snubbing posts and braces and put down new ones and straightened up others. Put new cover on lock float. Put on new bumper wale. Repaired bridge cams. Used 5 cables, 1 hub, 1 brass matrix and 2 washers, 2 eyebolts, 2 shackles, 1 phosphor bronze pinion, 1 water wheel, 1 intermediate gear, 1 slide valve, 1 set of valve gearing.

Grand Trunk Railway Bridge, No. 11.—Repaired the floats from time to time and used 6 new shackle and eyebolts.

Lock No. 25 and Level, Bridge and Weir.—Built new bridge over the weir. Stripped floor of swing bridge and put on new planks and stringers, jacked up swing-bridge and moved it into proper position, shifted pivot. Put new covering on lock float. Took up 8 old snubbing posts and braces and put down new. Used 2 cables, 1 set of cone rollers, 1 corbel.

Guard Lock.—Old lock gates taken out and new ones substituted, overhauled and repaired and painted semaphore. Put new top on lock float, 1 new cable put on. Took up old platform of lock house and laid down new one.

Generally.

All the machinery and gearing in connection with the lock gates and weirs. Swing bridges and throughout have received all needed repairs and renewals, and have been kept in proper adjustment, numerous obstructions have been removed by the diver from the locks and under the gates from time to time.

The rods and all other parts of the swing bridge have been constantly overhauled

and kept in repair and adjustment.

The binders, walings, protection pieces, foot boards, extension steps, &c., to all the locks throughout have been renewed and kept in repair from time to time.

The canal banks throughout have been levelled up and kept in good order. All thistles and weeds on government property have been cut and burnt.

No. 2 Division.

Guard Lock to Welland Bridge.

Bridge No. 13.—Pulled broken pile and drove one 35-foot pile at centre pier and replaced and secured floats. Put in new latch cable and repaired the bridge. Reset and chained the old floats.

Bridge No. 14 .- Nil.

Bridge No. 15.—Repaired and reinstated fender work damaged by steamers "Egyptian" and "Argonaut."

Bridge No. 16.—Repaired the bridge floor. Repaired the pile and wale (fender) work damaged by steamer "Bannockburn." Repaired the float and stop frame.

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Bridge No. 17.—Stripped off the old floor and put in new stringers and new 3-inch oak floor also new 3-inch oak floor in the approaches. Removed the temporary bridge, and piled material on bank, subsequently loaded same on scow with a lot of other old timber and took to gate yard lock 21, levelled approaches made to temporary bridge

and repaired towpath.

Removed the old decayed floor and timbers from the old towpath across the old aqueduct at Welland, and put on new coping timbers and filled in 6 inches of macadam between them. Took down the unused bridge at Bell's Creek, Port Robinson, and took part of it to Welland for a temporary bridge. Took scow from gate yard with temporary truss bridge on, to Welland and erected it and closed up the permanent swing to renew the floor. At close of canal for winter, blocked up all bridges and put winter floats in position across canal at Welland and Port Robinson, searched bottom of canal and removed obstructions. Opened ditches through deep cut and various other parts of canal. Repaired washouts in the towpath in deep cut. Took new small boat to aqueduct at Welland and brought back old one for repairs. Took out old and put in 3 new 10-foot snubbing posts and braces near bridge No. 13. Built stone drain across highway south of Port Robinson and covered it with flags. Jacked up the highway swing bridge across the Port Robinson lock and keyed up the pivot.

Cleaned out ditch alongside stone road. Repaired the towpath bridge over creek north of bridge No. 16 and filled in behind wing walls. Scraped tow and heel paths between bridges 13 and 16 and filled in ruts several times. Filled in a washout and repaired slope wall east side of bridge No. 16. Collected and removed on scow and log rafts all old timbers and sunken logs, &c., between Air-line ferry and Allanburgh and took them to gate yard lock 21. Removed stone from bottom of canal by diver and blasting, screwed up all ironwork and repaired floor of swing bridge over Port Robinson lock. Repaired and caulked Port Robinson ferry boat. Cleaned out and deepened back ditch alongside Silverthorne's farm west of bridge No. 16, also back ditch north of same. Filled up sink hole at the old Burgar road. Cleaned out back ditch north of Welland aqueduct. Repaired the towpath. Repaired the long float bridge and the walks and approaches to it at Port Robinson ferry. Set posts and hung 2 gates across towpath north of bridge 16. Took soundings in Chippawa Creek foot of lift lock near Welland aqueduct. Repaired slope of bank and filled in washouts east and west sides of Burgar road. Repaired the culvert and reset the mile and sign post at bridge 16 and repaired a sinking in towpath at Bell's Creek culvert, Cleaned out stone culvert and ditch and repaired the tile culvert near bridge No. 16 east and west sides. Broke up and loaded a pile of stone on scow at Burgar road and used them to fill in washout near Chippawa Creek lock. Loaded scow with stones near Welland aqueduct and repaired riprapping and sinking in the deep cut. Repaired the sodding on slopes near Port Robinson Made new ditch south end of deep cut and repaired the sodding west side. Put in 1 new culvert and repaired 2 others on east side north of bridge 16, searched the bottom of Welland aqueduct and 100 yards on each side of it, and picked up and removed sunken timber, &c.

No. 3 DIVISION.

Welland Bridge to Port Colborne.

Bridge No. 18.—Bridge fenders renewed by M. C.R.R. Co.

Bridge No. 19.—Repaired the swinging gear, locks and cams and the flooring from time to time.

Bridge No. 20.—Repairs done by G.T.R. Co.

Air-line Ferry.—Drove new piles for protection work and fitted up and placed in position a ferry scow and float and renewed the approaches at each end, lowered the approaches to ferry. Hand dredged and lowered canal slope. Repaired and adjusted operating gear from time to time. Built and placed in position new lap aprons for winter use.

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Bridge No. 21.—Took off decayed timbers from centre pier fender, and braces at west abutment fender crib and replaced with new timbers and filled up spaces between crib-timbers with stone. Removed the old protection floats and substituted large oak walings bolted to pier instead. Repaired the damage done by steamer "Fairbanks." Repaired the bridge floor from time to time. Built stone foundation walls (dry) under watch house and graded up to and around it and filled in the old abandoned site.

Bridge No. 22.—Repairs to this are done by G.T.R. Co.

Bridge No. 23.—Repaired the bridge flooring from time to time.

Port Colborne Harbour.—Repaired the abutments and west pier at entrance, also the planking of beacon and cribs and wherever required atong the west pier.

Repaired the ferry landing.

Loaded iron on the scow at Port Colborne and took to gate yard lock 21. Cleaned out and deepened from time to time as found necessary the back ditches and towpath and heelpath ditches each side of the canal between Welland Bridge

and Lake Erie, also along the Welland raceway.

Searched the bottom of Port Colborne harbour and various parts of the canal to Welland at different times and picked up and removed sunken logs, &c. Rebuilt stone wall along Neff's ditch, Humberstone. Put in repair and kept in place at various times and places the timber floats along rock cutting, Humberstone to Port Colborne. Took out old clay dam from the Welland race south of the head gates, at Junction. Quarried stone and hauled to Humberstone bridge cribs and approaches. Repaired the Port Colborne lock gate and ferry boat. Loaded scow at Air-line ferry, Welland bridge, and along canal bank with old timber for gate yard. Deepened channel of Welland race with hand dredge. Removed stones and gravel several times with diver's help from Port Colborne lock, and repaired valves on the gates. Dug out numerous decayed and unsafe snubbing posts and braces between Welland and Lake Erie, and substituted new ones. Excavated for and put in plank box culvert at slides, in slopes near Air-line bridge and across tow and heel puths at various other places. Puddled up various cracks frequently in slides, levelled up and repaired tow and heelpaths throughout where required, and faced parts of canal slopes with stone. Cleaned out and deepened the outlet ditch into Lake Erie east side Port Colborne harbour several times after storms. Cleared out old bridge and stumps from Brancis off-take ditch. Cut ice from around steamer "Grace" at Port Colborne. Scraped towpath from Humberstone to Welland and filled in ruts. Repaired bridge across Welland raceway. Made sweep for sounding harbour and canal. Cut all thistles and weeds each side of canal and Welland raceway and other Government property.

No. 4 Division.

Dunnville and Feeder Division.

The supply of water has been sufficient to keep all mills going satisfactorily throughout, except in the Welland raceway.

The mitre sills of the locks at Dunnville, Port Maitland and Junction have been

cleaned out and the lock gates repaired and all the gearing kept in order.

All sunken logs and other obstructions have been removed out of Feeder channel, and brush and rubbish carried down the ditches and drains into the culverts under the canal, has been removed, piled up and burnt.

The large quantity of driftwood and rubbish that came down the Grand River with the spring freshets and lodged in front of the waste weirs and dam at Dunn-

ville was drawn out and dumped in creek below.

All worn out and broken planks have been taken out from the various bridge floors throughout and replaced with new.

All swing bridges were raised on their pivots and adjusted and tracks levelled up.

Approaches to all bridges have been properly filled in and raised with suitable materials where necessary.

The boom protection timbers in front of Dunnville dam and cluster piles were partly broken and carried down by ice in the spring, the booms were replaced, new oak piles driven and booms thoroughly secured with chains.

A new 10-inch sewer pipe was laid in to carry off water that found its way

into canal office cellar at Dunnville.

Extensive renewals and repairs were made to the apron and piers of the long bridge at Dunnville, 300 feet in length of the apron was renewed, the decayed timbers of the piers were replaced with new and the piers were sheeted over with 2-inch oak plank to protect them from ice damage, and new large oak timbers were secured in front of each pier. 5 new flood gates were built and placed in position in place of the old ones that were carried away by the heavy logs and driftwood. All the bridge piers were filled up with stone, the flooring of the long bridge put in good order, and part of the bridge coping and framing replaced where carried away by flood.

The bridge over the back ditch at the Sourwine road was renewed and that at

the Town-line road repaired.

Considerable filling of holes and ruts along the canal banks was done, and also along the Dunnville dam embankment.

The Dunnville and Bird road swing bridges were painted two coats.

Eighty rods of the outlet from Cranberry Creek culvert were straightened, widened and deepened, and the back ditches between Marshville and Broad Creek were cleaned out and slides and obstructions of other kinds throughout were removed.

Repair scow was caulked and pile driver and punts were repaired and painted

and 6 new oars were made.

Dug out old decayed posts and put in new ones for bridge over the Feeder lock at Welland Junction and cleared the approaches to the lock of all flood timbers and rubbish.

Took down old unsafe highway bridge across the Welland raceway, near G.

Hannah's house, and built and put up new one in place of same.

All the waste weir valves and machinery throughout were kept in good working order.

All thistles and other weeds were cut on all Government property.

OLD WELLAND CANAL.

Lock No. 1, Level and Bridge.—Segmental planks were put at end of the bridge, and the floating towpath was repaired at different points, from time to time.

Lock No. 2, Level and Bridge.—Repaired towpath near 12-mile Creek, searched for and removed sunken logs from bottom of canal, repaired the two waste weir bridges, and pile fenders in front of them, put in new timbers and part floor to upper weir, put new segment planks at ends of bridges at lock No. 2, and St. Paul St., repaired the west approach to St. Paul Street bridge, screwed up the truss rods, &c., at lock 2 bridge, and reset cams, &c., repaired the swing bridge across raceway twice, repaired leaks in banks alongside of weirs, and cleaned out and repaired the racks in front of them; took down old truss in towpath bridge near basket factory, and put up a new one.

Lock No. 3 and Level.—Repaired the towpath, repaired the masonry of lock, reset anchors and rehung 1 foot gate, rebuilt pile fender work in front of weir, rehung and rechained slash boards.

Hydraulic Race (No. 1).—Repaired the iron trestle supporting the aqueduct, and repaired floor; rebuilt dry wall under road bridge on Thorold road; repaired and widened bank for 100 feet in length, where leak had occurred, unwatered and cleared out race; repaired and put in order the valves, gearing, and rack at the head of the race, on lock No. 11 level.

Lock No. 4, and Level and Bridge.—Repaired towpath, renewed balance beam on head gate, and reset gear; repaired lock-tenders' houses and outbuildings, repaired approach to bridge, and made ditch, and small slope wall.

Lock No. 5, and Level and Bridge.—Repaired towpath, refloored 50 feet of heel path bridge across weir entrance, built wood shed at bridge, repaired weir bridge, and used 1 crab roller, put in 4 crab foundations; put sway braces in bridge, and screwed up truss rods, &c.

Lock No. 6, and Level.—Repaired floor of towpath bridge over weir, and stopped leaks in the bank at weir and other points.

Lock No. 7 and Level and Bridge.—Reset lock gate crab, and repaired the tow-path alongside, built and set 1 new crab foundation, repaired swing bridge floor.

Lock No. 8 and Level .- Nil.

Lock No. 9 and Level .- Nil.

Lock No. 10 and Level.—Repaired the locktender's house, and dug vault and built privy, renewed the bridge across the raceway, and repaired approaches to it.

Lock No. 11 and Level.—Built and put in two new crab foundations, built new chimney on locktender's house.

Lock No. 12 and Level .- Repaired leak in bank near weir.

Lock No. 13 and Level.—Nil.

Lock No. 14 and Level.—Rebuilt bridge over weir, repaired leak in bank, put in 4 new crab foundations.

Lock No 15 and Level and Bridge.—Removed a large quantity of waste pulp from lock, rebuilt weir bridge, stopped leak in bank twice.

Lock No. 16 and Level.—Removed a large quantity of waste pulp from lock, put 1 new crab foundation at foot gate.

Lock No. 17 and Level.—Repaired and reshingled locktender's house, repaired crab and operating gear of lock gate, rebuilt weir bridge, and reset valve rods and gear, stopped leak in bank.

Lock No. 18 and Level.—Repaired and reshingled locktender's house, unwatered level, and repaired weir valves and renewed weir bridge, refloored road bridge over raceway, stopped leaks, and put in 2 new crab foundations.

Lock No. 19 and Level.—Reshingled locktender's house, repaired the cistern, and fence also, put in 4 new crab foundations, and repaired foot boards, stopped leak in bank.

Lock No. 20 and Level .- Nil.

Lock No. 21 and Level .- Nil.

Lock No. 22 and Level and Bridge.—Repaired the locktender's house, painted the bridge 2 coats, and repaired the fastenings and toe girts, repaired leak in bank.

Lock No. 23 and Level.—Repaired the locktender's house, fences and gates, repaired the weir bridge, and rechained slash boards, repaired foot board, and put in 4 new crab foundations.

Lock No. 24 and Level and Bridge.—Renewed the swing bridge fastenings and toe girts, built and put down 1 new crab foundation, repaired weir bridge and valve gear, and repaired leak.

Lock No. 25 and Level and Bridges.—Repaired O'Neill's swing bridge fastenings and repaired the float, stopped leaks at Thorold, Davis's basin, and Higgins, made up towpath above Marlatt's bridge. Took down old swing bridge at Allanburgh, and built and erected a new one in its place. Repaired Marlatt's swing bridge.

Took out the old spillway on the Thorold race, and filled in the gap where it had been and made a water tight bank, put in dam above O'Neill's bridge, to assist

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in unwatering for spring repairs, and removed it when no longer required, caulked valves in Allanburgh weir.

Loaded 40 cubic yards gravel at lock No. 2 and took to Allanburgh bridge, for

approaches.

Took down the old bridge fenders at Allanburgh bridge, and drove piles and completed new, the necessary fenders.

Gate Yard and Shops at Lock 21, Old Canal.—Stripped the scow "Chippewa" for new deck and caulked her. Rebuilt hand dredge and put on crab, chains, shovels. Loaded scow "Chippewa" with firewood and took to Port Dalhousie. Split from pile tops 120 fence posts. Hauled out and rebuilt old ferry scow from Air-line ferry. Stripped the "Hercules" pile driver and boarding boat and repaired same. Built new swing bridge to take the place of old one across canal foot of Allanburgh lock, and painted it. Repaired and caulked the derrick scow "Alabama" from No. 3 division. Repaired derrick scow "Chippewa" and put in new quarter deck and rakes. Cut up old timber and delivered at lock shanties for fuel, and to bridges and canal office. Took two old floats apart and hauled them up into gate yard to use for repairs, etc. Took old gate yard shed from lock 7 yard, on scow to gate yard lock 21. Erected iron shed at gate yard from old building brought from lock 7 yard. Framed a temporary bridge to be used at Welland while the swing bridge was being replanked, and loaded it on scow. Gathered up all the old iron, say seventy tons, and stored in new iron shed at gate yard, and sorted same. Cut lot of old timbers into stove wood for the winter watchmen's use. Made two cases for blanks for the canal office. Built new blacksmith shop at gate yard and put in forge, bellows and bonnet, anvil, and made tools for the outfit, also bolts and other smithwork. Stripped and cut up two old lock gates. Laid up yard derrick and fitted up shops with needed machinery. Built four 8 inch square slush pumps 16 feet. Put in new deck and caulked the pile driver scow "Alexander"; payed her with pitch and painted her, and put on new temporary deck to allow her to be used at Air-line ferry. Repaired 8 old and made 6 new wheelbarrows. Made four 14 ft. Unblocked all bridges for season. Hauled out on to ways the derrick scow "Hamilton," and repaired and launched her. Rebuilt float bridge across the gate yard slip. Loaded 24 new snubbing posts on scow, and towed them up to and distributed them along No. 3 division. Repaired the old flume supplying gate yard wheel, and cleared away for and made a permanent launching place adjoining gate yard lock 21. Built new small boat as tender for the canal scow "Hercules." Drew out the water, and repaired the water power gearing at gate yard shop. Hauled out boarding boat on the ways and partially rebuilt it. Built of old materials a machine room 17 x 22 ft. on gate yard. Made 84 foxed and spiked bolts at yard shop for No. 3 division. Hauled out several scow loads of old timber piles, etc., at gate yard during the year. Put in new 6-inch water wheel at gate yard to drive the fan for smith shop.

Generally.

Repaired the weir aprons and cleaned out the lock bottoms where necessary, while water was drawn out of canal between locks 2 and 25, and repaired the lock gate chains and cables, valves and gearing. Made all new and repaired all iron work required for repairs to underwater work throughout canal at the smith shop at gate yard. Pointed the stone walls of weirs where required.

Cut all thistles and weeds along canal, raceways and other Government

property.

The accompanying statement "A" contains the amounts collected, or to be collected for damage to canal works; the practice in these cases where the damage is comparatively small, has been to approximate the cost of repair, and collect that amount from the vessel before she left the canal; when the repairs have been completed, an account in detail is furnished, and the unexpended balance, if any, refunded.

In the matter of the "City of Windsor" which carried away the four gates of lock No. 1, Old Canal, on May 30th, 1894, it was expected that the amount of the damage (\$3,581.65) would have appeared in the statement "A", as the matter passed through the courts, and the vessel was to be sold by order of the court, to satisfy the claim, and doubtless will be. There are some similar outstanding accounts of earlier dates, unless they have been settled through other channels.

Statement "B" contains the amounts collected or to be collected from vessels, or

canal employees for breaches of canal rules.

Statements "C" and "D" contain the highest and lowest recorded depths of water upon the new and old lock mitre sills at Port Dalhousie and Port Colborne, in each month of the fiscal year.

The canal was closed 11th December, 1894, and was opened for navigation

April 20th, 1895.

WORK CHARGEABLE TO INCOME.

Removing East Pier Superstructure, Port Dalhousie.—The removal of the superstructure of the east pier at Port Dalhousie, has been continued in concrete, tenders having been called for that work, and the contract awarded to Messrs. Battle & Newman, of St. Catharines and Thorold, their tender being the lowest.

The existing timber superstructure is being removed to the low water level of the contract, and concrete blocks $4 \times 4 \times 6$ ft. made of Portland cement, are arranged side by side upon the cribwork, and the centre space filled in with concrete made of

natural cement.

The work has progressed fairly, as specified, and from present indications the amount available will be expended by the time for ceasing operations this autumn.

Constructing a stone arch culvert at Feeder Junction.—Tenders were invited for this work and the contract was awarded to Messrs. Battle & Newman, the lowest; the work was completed as specified, at the time required.

Cleaning out and deepening back ditches on the line of the Feeder.—Tenders were invited for this work and sections Nos. 1 and 2 were awarded to Joseph Buliung,

Nos. 3, 4 and 5 being awarded to Francis Hicks.

The three last named sections were completed at the time specified.

The first and second were not, but are now about finished.

CHARGEABLE TO CAPITAL.

Removing Shoal at Port Colborne.—The shore currents at Port Colborne had caused the formation of small shoals of sand at the entrance to the harbour, which the unusually low water made it necessary to have removed.

Tenders for the work were invited, and that of Messrs. Murray & Cleveland

being the lowest, was accepted;

A dredge, a tug, and two dump scows, were sent from Toronto, and the shoals were removed where required.

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

> W. G. THOMPSON, M.I.C.E., Superintending Engineer.

COLLINGWOOD SCHREIBER, Esq., C.M.G.,
Deputy Minister and Chief Engineer, Railways and Canals,
Ottawa.

"A."

STATEMENT of damages to Welland Canal property, during the Fiscal Year ended 30th June, 1895, and amount paid on account of damages in the same year.

of Damage.			DAMAGES.	T. T.	WHERE PAID.
	Name of Vessel.	Paid.	Unpaid.	Date Paid.	Collector's Office
1893.		\$ cts.	\$ cts.	1894.	
Iav 13	Steamer N. K. Fairbanks Barge Manly Steamer Waverly	14 17 16 40 50 00		Aug. 6	Port Dalhousie, do do Port Colborne.
uly 27	do Geo. Spencer	10 00		April 29	do do
	Barge BalticSteamer Walter Vail	9 55 48 18			Port Dalhousie. Port Colborne.
fay 5 une 27 uly 20 do 21 do 12 do 18 do 29	do Gov. Smith do H. K. Moore Barge Minnedosa Steamer Escanaba do Sequin do Bannockburn do Egyptian do Argonaut	8 75 50 00 12 05 5 00 6 11 15 05 273 81 9 06		do 2 Sept. 12 do 12	Port Dalhousie. do do do do do do Port Colborne. do do do do do do
ept. 18	Schooner Thos. L. Parker	8 45		1895. May 17	do do
oct. 11 do 22	Steamer N. K. Fairbank do Bannockburn,	63 95 12 89		Nov. 2do 5	Port Dalhousie. Port Colborne.
Fov. 15	do Pueblo	15 00			Port Dalhousie.
pril 22 do 25 do 27 lay 13 do 14 do 15 do 22	do F. H. Prentice do Arabian do Topeka do Iron Age do Carmona Barge St. Lawrence. Steamer W. B. Morley Barge Minnedosa. Steamer Bannockburn do Saginaw Valley do Sequin	6 14 150 00 7 00 5 16 	19 44 5 20 19 02	$\begin{array}{ccccc} do & 2. \dots \\ do & 14 \dots \\ June & 4 \dots \end{array}$	Port Dalhousie. do do

"B."

STATEMENT of Fines collected from Vessels contravening Canal Regulations, and from Locktenders for neglect of duty, also for use of Government Property during the Fiscal Year ended 30th June, 1895.

Date of Fines.	Name of Vessel.	Amount	of Fines.	Date paid.	Where paid.
of Fines.		Paid.	Unpaid.		Collector's Office
1894.		\$ cts.	\$ cts.	1894.	
July 4 Nov. 3		10 00 10 00 20 00 10 00		do 4 Nov. 20	Port Dalhousie Port Colborne. do do
1895.				1895.	
	Schr. Sir C. T. Vanstrabenzie		20 00 20 00	June 3	do
1895.	Locktenders.			1895.	
	Isaac Johnston	5 00 5 00		May 27 do 27	Port Dalhousie.
1894.	Use of Government Property.			1894.	
Nov. 3	Steamer N. K. Fairbanks— For use of diving apparatus	14 00		Nov. 14	Port Colborne.
	Total	94 00	40 00		

" C."

STATEMENT showing the Highest and Lowest Depth of Water on the Lower Mitre Sill Lock No. 1, Old Welland Canal, Port Dalhousie, for Fiscal Year ended 30th June, 1895.

25. ()	Lowe	r Sill.	M. Al	Lowe	r Sill.
Months.	Highest.	Lowest.	Months.	Highest.	Lowest.
July	Ft. in. 13 9 13 7	Ft. in.	1895. January February	Ft. in.	Ft. in.
September October November December	$\begin{array}{ccc} 12 & 9 \\ 12 & 5 \end{array}$	12 3 11 10 11 3 11 4	March April May June	$\begin{array}{cccc} 11 & 10 \\ 12 & 1 \end{array}$	11 2 11 6 11 10 11 8

STATEMENT showing the Highest and Lowest Depth of Water on the Lower Mitre Sill Lock No. 1, New Welland Canal, Port Dalhousie, for Fiscal Year ended 30th June, 1895.

Months.	Lowe	r Sill.	Months.	Lowe	r Sill.
Months.	Highest.	Lowest.	Months.	Highest.	Lowest.
1894.	Ft. in.	Ft. in.	1895.	Ft. in.	Ft. in.
July August September October November December	$egin{array}{ccc} 16 & 6 \ 15 & 8 \ 15 & 4 \ \end{array}$	16 3 15 6 15 2 14 9 14 2 14 3	January. February March April May June	14 4 14 9 15 0	13 11 13 11 14 1 14 5 14 9 14 7

"D."

STATEMENT showing the Highest and Lowest Depth of Water on the Upper Mitre Sill of Old Lock at Port Colborne, Welland Canal, for Fiscal Year ended 30th June, 1895.

Months.		Uppe	r Sill.		Months.		Uppe	r Slll.	
Monens.	Hig	hest.	Lov	vest.	PIONEIIS.	Hig	hest.	Low	vest.
1894.	Ft.	in.	Ft.	in.	1895.	Ft.	in.	Ft.	in.
July. August. September October November December	12 12 12 12 12 14 12	10 9 10 7 4 0	11 10 11 10 10 9	$ \begin{array}{c} 7 \\ 9 \\ 0 \\ 11 \\ 2 \\ 10 \end{array} $	January February March April May June	10 10 10 11	$\begin{array}{c} 2 \\ 7 \\ 10 \\ 11 \\ 11 \\ 5 \end{array}$	9 10 9 9 10 10	7 2 4 9 7 7

STATEMENT showing the Highest and Lowest Depth of Water on the Upper Mitre Sill of New Lock, at Port Colborne, Welland Canal, for the Fiscal Year ended 30th June, 1895.

Months.	Uppe	r Sill.	Months.	Uppe	r Sill.
THORNES.	Highest.	Lowest.	Months.	Highest.	Lowest.
July. August. September October. November December.	$\begin{array}{ccc} 15 & 9 \\ 15 & 6 \end{array}$	Ft. in. 14 6 13 8 13 11 13 10 13 1 12 9	January February March April May June	$\begin{array}{ccc} 13 & 6 \\ 13 & 9 \end{array}$	Ft. in. 12 6 13 1 12 3 12 8 13 6 13 6

ST. PETER'S CANAL.

Superintending Engineer's Office, St. Peter's, 31st July, 1895.

SIR.—I have the honour to submit the annual report of the works in my charge

for the fiscal year ended 30th June, 1895.

The only work undertaken was the unwatering of the lock pit for the purpose of renewing the lock gates, mitre sills, and flooring of the lock, which divers James Sampson and R. J. Sutherland who I got to examine them (independent of each other) reported to be badly eaten, with the "teredo."

The lock gates as I already informed you could only be operated during the past three seasons with very great difficulty, several of them refused to mitre, and the divers were of opinion from their general appearance, that some of them were in

danger of collapsing if not attended to immediately.

It was estimated from the best information obtainable, that it would take from 4 to 5 months to complete this work, and to admit of its being carried on so as to interfere as little as possible with navigation, it was decided to close the canal on the 15th of December and re-open it on the 1st of May: tenders for the work having been duly called for a contract was entered into for its execution within these dates, but the contractor having failed to unwater the lock, the work was taken out of his hands on the 24th of April, and is now being completed at his expense.

I may say that the unwatering of the lock containing as it does over 2,000,000 imperial gallons, with a head of 26 feet of water on the Atlantic end, and a 7 feet tide, and 20 feet on the lake end, proved to be a very much more formidable operation than was expected, the principal cause being that the clay puddle of 3 feet wide on the west side and 4 feet wide on the east side which the original specification called for and which it was therefore expected had been placed, was found to have been omitted back of the wing walls on the Atlantic end, and instead heavy cribs over thirty feet high filled with stone were placed which had to be cut away with divers and sheet piled through them to solid ground: on the lake end for a similar purpose it became necessary to remove a crib 25 feet high on the west side, besides a very heavy stone wall twenty feet high on the east side, through which the lake water was freely passing and coming up under the lock walls into the lock. In brief, when this lock was built no provision was made for unwatering it: but the most serious difficulty of all that had to be contented with was a continuous flow of about 90,000 gallons of water per hour from the old lock (which is apparently fed from the Atlantic and which there is no feasible method of reaching to stop it) a quantity sufficient in itself to raise the water in the lock one foot per hour, this extra work which could not have been foreseen besides adding to the cost delayed the completion of the work very materially.

The timber that is being used for the repairs is creosoted pitch pine, which was

procured from the Lenigh Valley Creosoting Works.

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

WM. McCARTHY,
Superintending Engineer.

COLLINGWOOD SCHREIBER, Esq., C.M.G.,
Deputy Minister of Railways and Canals,
Ottawa.

APPENDIX No. 8.

Office of the Inspector of Canals, Hamilton, 9th August, 1895.

Sin,—I have the honour to report that during the fiscal year ended 30th of June, 1895, I inspected all offices for collection of tolls on Dominion canals.

From time to time, at dates of inspection, detailed returns showing particulars of the collections and working of each office, were submitted to the department.

On account of canal revenue, the aggregate receipts for the fiscal year 1894-95

were \$302,632.44.

For hydraulic and other rents, receipts for the fiscal year were \$11,506.46.

Classified under subdivisions of tolls, wharfage and storage, fines, damages, hydraulic and other rents, and sundry miscellaneous minor receipts, the exhibit of revenue at the thirty offices established for collection of tolls, is as follows:—

WELLAND CANAL

		M EI	LLAND	CANAL.			
		Can	AL REVENU	E.		Total Canal	Hydraulic
Collection Divisions.	Tolls.	Wharfage and Storage.	Fines.	Damages.	Other Receipts.	Revenue.	and Other Rents.
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Port Colborne Port Dalhousie Dunnville	100,039 22 53,635 85 356 75		95 00 20 00	646 19 465 19	63 18 21 26	100,843 59 54,142 30 356 75 35 70	257 50 176 00 506 67
Port Maitland Port Robinson St. Catharines Chippewa	35 70 216 90 445 59 22 60			270 00	30 00	516 90 445 59 22 60	885 00 5,038 26 5 00
Totals	154,752 61		115 00	1,381 38	114 44	156,363 43	6,868 43
		ST. LA	WRENCE	CANALS			
Valleyfield Cornwall	1,462 28 26,683 00 825 47	30 00	50 00 10 00 45 00	77 00		'a-a	2,716 00 1,395 00 560 00

Valleyfield	26,683 00 825 47 2,794 89 21,840 13	16 35 2,391 58	45 00	1,196 03			
Totals	62,076 01	2,437 93	115 00	1,273 03	14,947 66	80,849 63	33,621_03

CHAMBLY CANAL.

Chambly St. Johns St. Ours Lock	11.439 57	00 6		11,444 57	100 00
Totals	21,496 61	5 00	12 00	21,513 61	100 00

REVENUE, by districts, wharfage, fines, &c .- Concluded.

OTTAWA RIVER CANALS.

Collection Divisions.		CAN	Total Canal	Hydraulic			
Confection Divisions.	Tolls.	Wharfage and Storage.	Fines.	Damages.	Other Receipts.	Revenue.	and Other Rents.
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ ets.	\$ cts
Ottawa Grenville Carillon	19,252 05 13,243 87 186 57		12 00	20 00	8 00	19,252 05 13,251 87 218 57	13 00 23 00
St. Anne's	1,145 70				0 65	1,146 35	
Totals	33,828 19		12 00	20 00	8 65	33,868 84	36 00
		RII	DEAU CA	NAL.			
Ottawa	3,724 21 1,479 82	69 02			310 00	4,103 23 1,479 82	639 50 105 00
Smith's Falls	629 67					629 67	84 50
Totals	5,833 70	69 02			310 00	6,212 72	829 00
		ST. P	ETER'S (CANAL.			
St. Peter's	2,072 42					2,072 42	
		мU	RRAY CA	NAL.			
Brighton	699 95					699 95	
		TRENT	VALLEY	CANALS	5.		
Burleigh Falls	68 19 425 78	ĺ			0 25 93 00	68 44 518 78	
Fenelon Falls	, 46 02				30 00	46 02	50 00
Hastings Peterborough Buckhorn	28 05 285 28 105 27					28 05 285 28 105 27	2 00
Totals	958 59				93 25	1,051 84	52 00
Grand Totals	281,718 08	2,506 95	247 00	2,686 41	15,474 00	302,632 44	41,506 46

Bank remittances in favour of the Receiver General have been made at intervals, determined by the department, to balance the receipts tabulated above.

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

H. B. WITTON,
Inspector of Canals.

Collingwood Schreiber, Esq., C.M.G., Deputy Minister of Railways and Canals.

APPENDIX No. 9.

RAILWAY SUBSIDIES.

TABLE of Cash Subsidies granted and paid in aid of Railway Construction.

No.	Name of Railway.	No. of miles built.	No. of miles paid and provided for.	Subsidy paid and Available at June 30, 1895.	Subsidy paid to 30th June, 1895.	Subsidy paid to 30th Sept., 1895.
				is.	\$ ets.	\$ ets.
1	Albert Southern	16	16	50,460 00	50,460 00	50,460 00
2	Baie des Chaleurs.	70	70	620,000 00	620,000 00	620,000 00
3	Beauharnois Junction	19.5	19.5	62,400 00	58,900 00	58,900 00
4	Belleville and North Hastings	6.84	6.84	21,888 00 96,000 00	21,888 00	21,888 00
5 6	Belleville and Lake Nipissing Boston and Nova Scotia		30 35·50	113,600 00		
7	Bracebridge and Baysville		15.00	48,000 00		
8 9	Brantford, Waterloo & Lake Erie Brockville, Westport and Sault	18	18	57,600 00	52,810 00	52,810 00
	Ste. Marie	44.50	60	192,000 00	105,200 00	105,200 00
10	Buctouche and Moncton	31.75	32 54 05	102,400 00 282,355 20	101,600 00	101,600 00
$\begin{array}{c} 11 \\ 12 \end{array}$	Canada Atlantic	54 05 120	120	1,525,250 00	$282,355 20 \\ 1,525,250 00$	282,355 20 1,525,250 00
13	Canada Eastern.	107	108.50	347,200 00	342,400 00	342,400 00
14	Canadian Pacific	1,905	1,905	25,000,000 00	25,000,000 00	25,000,000 00
	do (extension)	170	185	1,580,000 00	1,528,000 00	1,528,000 00
15	Cape Breton Extension		30 67	96,000 00 224,000 00	004 000 00	
16 17	Caraquet Railway	67	20	64,000 00	224,000 00	224,000 00
18	Central (of New Brunswick)	44 50	59.50	123,639 00	75,639 00	75,639 00
19	Cobourg, Northumberland and					
00	Pacific		49 14	156,800 00	44 000 00	
20 21	Cornwallis Valley	$\begin{array}{c} 14 \\ 27 \cdot 75 \end{array}$	27.75	44,800 00 88,800 00	44,800 00 88,800 00	44,800 00 88,800 00
22	Cumberland	14	14	39,850 00	39,850 00	39.850 00
23	Dominion Line Co	4.8	7	15,360 00	15,360 00	15,360 00
24	Dominion Coal Co	10	28	89,600 00	32,000 00 287,936 00	87,808 00
25 26	Drummond Counties	89·98 12·00	93·10 12·00	297,920 00	287,936 00	287,936 00
20 27	Elgin, Petitcodiac and Havelock. Erie and Huron	30.00	30.00	38,400 00 96,000 00	38,400 00 96,000 00	38,400 00 96,000 00
28	Esquimalt and Nanaimo	71	71	750,000 00	750,000 00	750,000 00
29	Fredericton and St. Mary's Rail-			,		
30	way Bridge.	1.33	1 33	30,000 00	30,000 00	30,000 00
31	Goderich and WinghamGrand Trunk, Georgian Bay and	·····	31	99,200 00		
O.L	Lake Erie	12.42	15	48,000 00	39,744 00	39,744 00
32	Great Eastern	12.50	32.50	104,345 00	40,345 00	40,345 00
33	Great Northern	34:59	99.59	318,688 00	110,688 00	110,688 00
34 35	Guelph Junction	15·25 3	15.25	46,000 00 9,600 00	46,000 00	46,000 00
36	Hereford		48.50	155,200 00	5,553 57 155,200 00	5,553 57 155,200 00
37	Inverness and Richmond		25	80,000 00	100,200 00	100,200 00
38	Irondale, Bancroft and Ottawa	30	50	160,000 00	96,000 00	96,000 00
39	International		49	156,800 00	156,800 00	156,800 00
40 41	Jacques Cartier Union Joliette and St. Jean de Matha		20	20,000 00 64,000 00	1	
42	Joggins	12	12	37,500 00	37,500 00	37,500 00
43	Kingston and Pembroke	15	15	48,000 00	48,000 00	48,000 00
44			80	268,400 00	208,732 80	208,732 80
45 46		3 50 84 04	3·50 85	11,200 00	11,200 00	11,200 00
*10	Lake Life and Detroit Aiver	04 04	- 00	342,400 00	338,731 00	338,731 00
	Carried forward	3,330 15	3,783·41 182	34,223,655 20	32,706,142 57	32,761,950 57

TABLE of Cash Subsidies granted and paid in aid of Railway Construction—Con.

			1			
No.	Name of Railway.	No. of miles built.	No. of miles paid and provided for.	Subsidy paid and Available.	Subsidy paid to 30th June, 1895.	Subsidy paid to 30th September, 1895.
				\$ cts.	\$ cts.	\$ cts.
	Brought forward	3,330 · 15	3,783 · 41	34,223,655 20	32,706,142 57	32,761,950 57
47	Lake Temiscamingue Colonization Railway Co	45.84	50	327,700 00	285,958 95	285,958 95
48	Learnington and Lake St. Clair.	16	16	51,200 00	51,200 00	51,200 00
49 50	Lindsay, Bobcaygeon & Pontypool Lotbinière and Mégantic	23	$\frac{32}{30}$	102,400 00 96,000 00	73,600 00	73,600 00
51	Manitoba and North-western		100	320,000 00		
52	Manitoulin and North Shore		40	128,000 00		
53 54	Montreal and Sorel	44·67 83	44·67 83	93,757 57 103,600 00	93,757 57 103,600 00	93,757 57 103,600 00
55	Montreal and Western	70	70	361,270 00	361,270 00	361,270 00
56	Montreal and Lake Maskinongé	12.90	12.90	41,280 00	41,280 00	41,280 00
57	Montreal and Ottawa	23	60	192,000 00	73,600 00	73,600 00
58 59	Montfort Colonization Nakusp and Slocan	21 36·80	33 38	105,600 00 121,600 00	67,200 00 117,760 00	67,200 00 117,760 00
60	New Brunswick and P. E. I	35.45	35.45	113,440 00	113,440 00	113,440 00
61	New Glasgow Iron and Coal Co	12	17.50	56,000 00	38,400 00	39,840 00
62	Nicola Valley Ry. Co		53	169,600 00]	l .
63 64	Nippissing and James Bay North Shore		$\begin{array}{c} 68 \\ 159 \end{array}$	217,000 00 954,000 00		
65	Northern Pacific Junction	110	110	1,320,000 00	1.320,000 00	1,320,000 00
66	Nova Scotia Central	73.50	73.50	235,200 00	230,700 00	230,700 00
67	Nova Scotia Southern		75	240,000 00		
68 69	Ontario and Pacific		53·87 10·00	172,400 00 32,000 00	• • • • • • • • • • • • • • • • • • • •	
70	Ontario, Belmont and Northern Ontario and Quebec		61.25	196,000 00	196,000 00	196,000 00
71	Orford Mountain		26.50	84,800 00	84,800 00	
72	Oshawa Railway and Navn. Co		7	22,400 00		J
73	Ottawa & Gatineau Valley Ry. Co.		82.00	384,000 00	284,128 00	284,128 00
74 75	Ottawa, Amprior & Parry Sound Parry Sound Colonization Ry. Co		107	430,400 00 192,000 00	350,400 00 128,000 00	350,400 00 128,000 00
76	Pontiac and Kingston		22	70,400 00	120,000 00	120,000 00
77	Pontiac and Pacific Junction	70	92.50	313,100 00	193,578 00	193,578 00
78	Pontiac and Ottawa	0.55	23	73,600 00	01 (00 00	91 000 00
79 80	Phillipsburg Junction, Pontiac and Renfrew		6.75 4.25	21,600 00 13,600 00	21,600 00 13,600 00	21,600 00 13,600 00
81	Port Arthur, Duluth and Western		84.75	271,200 00	271,200 00	271,200 00
82	Quebec Central	15.50	74.86	348,342 00	60,342 00	60,342 00
83	Quebec, Montreal, Ottawa and		100	1 440 000 00		
84	OccidentalQuebec and Lake St. John	120 · 00 245 · 85	120 259 85	1,440,000 00 1,047,799 50	1,002,999 50	1,006,743 50
85		240 00	200 00	1,011,100 00	1,002,000 00	1,000,740 00
	voix	30	30	96,000 00	96,000 00	96,000 00
86	Restigouche and Victoria		35	112,000 00	100 000 00	100 000 00
87 88	Shuswap and OkanaganSouth Shore, N.S		51 35	163,200 00 112,000 00	163,200 00	1
89	South Norfolk	17	17	54,400 00		54,400 00
90	South Eastern Bridge			50,000 00		
91	South Ontario Pacific Strathroy and Western Counties		49	158,400 00		
92 93			25 46	80,000 00 147,200 00	38,400 00	38,400 00
94			2.53			
95	St. Lawrence, Lower Laurentian	ı	1			
0.0	and Saguenay	38.85	38.85			
96			. 7 15	22,400 00 48,000 00		22,400 00
97 98			20.31			65,001 60
99			113.20		645,950 00	645,950 (0
100	Thousand Island	. 4.33	17	54,400 00	24,400 00	
101		c	16	51,200 00		194 010 00
$\frac{102}{103}$		27.88	43	182,400 00 14,656 00		
-00	, Grey wild Didoc,		_		-	
	Carried forward	. 5,235.31	6,645·60 183	47,337,201 87	40,135,580 19	40,196,572 19

TABLE of Cash Subsidies granted and paid in aid of Railway Construction-Com.

No.	Name of Railway.	No. of miles built.	No. of miles paid and provided for.	Subsidy paid and Available.	Subsidy paid to 30th June, 1895.	Subsidy paid to 30th September, 1895.
				\$ cts.	\$ ets.	\$ cts
	Brought forward	5,235.31	6,645.60	47,337,201 87	40,135,580 19	40,196,572 19
104	United Counties	40.64	64	204,800 00	131,701 15	131,701 15
105	Waterloo Junction	10.25	10.25	32,800 00	32,800 00	32,800 00
106 107	Western Counties	20	20	500,000 00	500,000 00	500,000 00
101	Western Ontario Pacific and Ontario and Quebec	18.75	18.75	60,000 00	60,000 00	60,000 00
108	Woodstock and Centreville		26	83,200 00	00,000 00	00,000 00
200	For a Railway from—		20	00,200 00		
109	Abbotsford Stat'n to Chilliwack		21	67,200 00	. 	
110	Cape Tourmente towards Mur-					
111	ray Bay		20	64,000 00	· · · · · · · · · · · · · · · · · · ·	
$\begin{array}{c} 111 \\ 112 \end{array}$	Cap de la Magdeleine to C.P.R, Cross Creek Station to Stanley	• • • • • • • • • • • • • • • • • • • •	3	9,600 00	• • • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · ·
112	Village		6	19,200 00		
113	Elk and Kootenay Rivers to		_	'		
	Cove Creek	• • • • · • • • • • •	34	108,800 00		
114	Hebert River to Young's Mills.		5	16,000 00		· · · · · · · · · · · · · · · · · · ·
115	Lime Ridge northerly to Megan-		50	160,000 00		
116	tic		30	100,000 00	• • • • • • • • • • • • • • • • • • • •	•••
	Chatham	l	6	19,200 00		
117	Point on I.C.R. towards Have-					
	lock	. 	20	64,000 00	! }**********	
118	Pokemouche Siding to Tracadie			00 100 00	i	
119	Village St. John to Barnsville	• • • • • • • •	12 10	38,400 00 32,000 00		
120	St. Eustache to St. Placide	• • • • • • • • • •	18	57,600 00		
121	St. Eustache to C.P.R			38,400 00		••••
122	St. Placide to St. Andrews		8	25,600 00		
123	St. Flavie or Little Métis to	i •	-	,		
	Matane		50	160,000 00		
124	St. Rémi to St. Cyprien		12	38,400 00		
125	St. Stephen to Militown		3.50	11,200 00		• • • • • • • • • • • •
126	Newport or Windsor to Truro	• • • • • • • • •	90	300,000 00		
	Total	5 394 95	7,165.10	49,447,601 87	40,860,081 34	40,921,073 34

STATEMENT showing Railways receiving Cash Subsidies of fixed amounts, payable Annually or Semi-annually for fixed period of years.

No.	Name of Railway.	Miles Subsidized.	Amount of Instalment.	Amount paid up to 30th June, 1895.
1 2	International (Atlantic and North-west) Railway Co Kingston, Smith's Falls and Ottawa Railway Co Total	252	\$93,300 per ½ year for 20 years. 3,136 do 21	\$ 1,119,600 Nil. 1,119,600

STATEMENT showing Railways aided by the Grant of Loans.

No.	Name of Railway.	Amount of Loan authorized.	Amount loaned.	
1 2 3	Albert Railway Co	\$ 15,000 300,000 500,000 815,000	\$ cts. 14,725 56 300,000 00 433,900 00 748,625 56	

STATEMENT showing Railways subsidized by the Grant of used Iron Rails valued at the amount set forth.

No.	Name of Railway.	Tons of used Rails.	Subsidy on value of Rails.	Subsidy in used Rails paid.	
1 2 3	Central Railway Co., of New Brunswick Elgin, Petitcodiac and Havelock Ry Co Chatham Branch Railway Company	4,052 2,201 958 7,211	\$ cts. 83,612 54 44,252 82 24,439 84 152,305 20	\$ cts. 83,612 54 44,252 82 24,439 84 152,305 20	

STATEMENT showing Railways aided by the Loan of used Iron Rails valued at the amount set forth.

No.	Name of Railway.	Tons of used Rails.	Value of used Rails loaned.	Remarks.
1 2 3 4	Kent Northern Railway Company	2,549 233 597 726 4,105	\$ cts. 58,334 27 4,335 00 11,964 66 14,665 45 89,299 38	

STATEMENT showing Railways subsidized by Grants of Land.

No.	Act.	Name of Railway.	Estimated number of miles.	Acres granted per mile.	Total acres granted.
1	{52 Vic., c. 4.}	Alberta Railway and Coal Co	50	6,400	320,000
2	50-51 Vic., c. 23	Alberta and Athabasca Railway Co	300	6,400	1,920,000
3	56-57 Vic., c. 6	Brandon and South-western Railway Co	17	6,400	108,800
4	53 Vic., c. 4	Calgary and Edmonton Railway Co	340	6,400	2,176,000
5	54-55 Vic., c. 5. 56-57 Vic., c. 6.	Canadian Pacific Railway Co	277	6,400	1,772,800
6	49 Vic., c. 11	North-west Central Railway Co	450	6,400	2,880,000
7	{52 Vic., c. 4.} 53 Vic., c. 4.}	Lake Manitoba Railway and Canal Co	142	6,400	908,800
8	53 Vic., c. 4	Lac Seul Railway Co	18	6,400	115,200
9	48-49 Vic., c. 60 49 Vic., c. 11	Manitoba North-western Railway Co	476	$\{6,400\}$	2,726,400
10	{48-49 Vic., c. 60} {54-55 Vic., c. 10}	Manitoba South-western Colonization Railway Co	218‡	6,400	1,396,800
11	53 Vic., c. 4	Manitoba South-eastern Railway Co	110	6,400	704,000
12	50-51 Vie., c. 23	Medicine Hat Railway and Coal Co	8	6,400	51,200
13	52 Vic., c. 4	North-western Railway Co. of Canada	330	10,000	3,300,000
14	\begin{cases} 48-49 \text{ Vic., c. 60} \\ 50-51 \text{ Vic., c. 23} \\ 52 \text{ Vic., c. 4} \dots \end{cases}	North-western Coal and Navigation Co	110	6,400	708,400
15	{48-49 Vie., c. 60} 50-51 Vie., c. 23}	Qu'Appelle, Long Lake and Saskatchewan Railway and Steamboat Co	347	6,400	2,220,800
16	50-51 Vic., c. 23 52 Vic., c. 4 }	Red Deer Valley Railway and Coal Co	55	6,400	352,000
17	56-57 Vic., c. 6	Rocky Mountain Railway and Coal Co	60	6,400	384,000
18	56-57 Vic., c. 6	Saskatchewan and Western Railway Co	15	6,400	96,000
19	\begin{cases} 47 \ \text{Vic., c. 25} \\ 47 \ \text{Vic., c. 70} \\ 43 \ \text{Vic., c. 59} \end{cases} \dots	Winnipeg and Hudson Bay Railway Co	900	$^{\dagger \left\{ \begin{array}{c} 6,400 \\ 12,800 \end{array} \right\}}$	8,580,000
20	49 Vic., c. 11	Wood Mountain and Qu'Appelle Railway Co.	240	6,400	1,536,000
	1	Total	4,4631	İ	32,257,200

 $^{^*376}$ miles at 6,400 acres per mile and 100 miles at 3,200 acres per mile. $^{}4475$ miles at 6,400 acres per mile and 425 miles at 12,800 acres per mile.

APPENDIX No. 10.

LIST OF RAILWAY SUBSIDY ACTS PASSED IN EACH YEAR.

Note.—The marginal number opposite each subsidy has reference to the alphabetical list in the Minister's report showing the action taken in cases where a contract for work has been made with any company.

By the Acts of Parliament below specified, authority has been placed in the hands of the Governor in Council to grant, upon certain conditions, aid towards the construction of various lines of railway throughout the Dominion, as follows, namely:—

By the Acts of 45 Vic., cap. 14, 1882 (Assented to 17th May, 1882):— 1. For a railway from Gravenhurst to Callander, both in the province of Ontario, a subsidy not exceeding \$6,000 per mile, nor exceeding in the whole 2. For a railway from St. Raymond to Lake St. John, both in the province of Quebec, a subsidy not exceeding \$3,200 per mile, nor exceeding in 384,000 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 240,000 exceeding \$3,200 per mile, nor exceeding in the whole..... 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 exceeding in the whole.....

"The said subsidies to be granted to such companies as shall be approved by the Governor in Council as having established, to his satisfaction, their ability to complete the said railways respectively, within a reasonable time, to be fixed by Order in Council, and according to descriptions and specifications to be approved by the Governor in Council on the report of the Minister of Railways and Canals, and specified in an agreement to be made by the company with the Government, and which the Government is empowered to make, and to be payable out of the Consolidated Revenue Fund of Canada, by instalments on the completion of each ten miles of railway, proportionate to the value of the portion so completed in comparison with the whole work undertaken, such proportion to be established by the report of the said Minister; provided always, that the granting of such bonuses or subsidies shall be subject to such conditions for securing such running powers or traffic arrangements and other rights as will afford all reasonable facilities and equal mileage rates to all railways connecting therewith, as the Governor in Council may determine."

By the special Act 45 Vic., cap. 55, 1882 (Assented to 17th May, 1882:—
5. A subsidy authorized in favour of "The Chignecto Marine Transport
Railway Company," provided that they construct and thereafter
maintain and operate a ship railway, to be approved by the Govern-
ment, across the Isthmus of Chignecto, from the Gulf of St. Lawrence
to the Bay of Fundy, per year, for twenty-five years
By the Act 46 Vic., cap. 25, 1883 (Assented to 25th May, 1883):—
6. To the Baie des Chaleurs Railway Company, for 100 miles of their rail-
way, from Métapediac, on the Intercolonial Railway, to Paspebiac,
in the province of Quebec, a subsidy not exceeding \$3,200 per mile,
nor exceeding in the whole 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 Brunswick, a subsidy not exceeding \$3,200 per mile, nor exceeding in the	
whole	115,200
of their railway, from Hull station, in the province of Quebec, a	160,000
province of Nova Scotia, a subsidy not exceeding \$3,200 per mile,	256,000
ing in the whole	156,800
subsidy not exceeding \$3,200 per mile, nor exceeding in the whole 12. To the Montreal and Western Railway Company, for the first 50-mile section of their railway, out of St. Jérôme, in the province of Quebec,	102,400
a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole. 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	160,000
the whole	89,600
the whole	80,000
15. For a railway from the International Railway at Petitcodiac to Havelock Corner, in the province of New Brunswick, 12 miles, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	38,400
16. For a railway from Gravenhurst to Callander, 110 miles, a subsidy not exceeding \$6,000 per mile, nor exceeding in the whole In addition to the subsidy granted by the Act forty-fifth Victoria, chapter fourteen.	660,000

"The nine subsidies first mentioned to be granted to the companies hereinbefore named respectively; and the two subsidies last mentioned to be granted to such companies as shall be approved by the Governor in Council as having established to his satisfaction their ability to complete the said railways, respectively; and all the eleven lines above mentioned, and also the lines of railway in respect of which it is provided by the Act of forty-fifth Victoria, chapter fourteen, that subsidies may be granted, shall be commenced within two years from the first day of July next, and completed within a reasonable time, not to exceed four years from and after the passing of this Act, to be fixed by Order in Council, and according to descriptions and specifications to be approved by the Governor in Council, on the report of the Minister of Railways and Canals, and specified in an agreement to be made by each company with the Government, and which the Government is empowered to make; and all the said subsidies authorized by this Act, respectively, to be paid out of the Consolidated Revenue Fund of Canada by instalments, on the completion of each section of not less than ten miles of railway, proportionate to the value of the portion so completed in comparison with the whole work undertaken, to be established by the report of the said Minister; Provided always, that the granting of such subsidies shall be subject to such conditions for securing such running powers

or traffic arrangements and other rights as will afford all reasonable facilities and equal mileage rates to all railways connecting with those so subsidized as the Governor in Council may determine."

Council may determine."	
By the special Act 46 Vic., cap. 26, 1883 (Assented to 25th May, 1883):—	
17. An advance authorized in favour of the "St. John Bridge and Railway Extension Company," to enable them to build a railway bridge across the River St. John, N.B., with railway connection with the Intercolonial, such advance to be secured by a mortgage on their entire property, not to exceed 80 per cent of the expenditure on the work, nor a total sum of	
By the Act 47 Vic., cap. 8, 1884 (Assented to 19th April, 1884):—	
18. To the Government of the province of Quebec, in consideration of their having constructed the railway from Quebec to Ottawa, forming a connecting line between the Atlantic and Pacific coasts via the Intercolonial and Canadian Pacific Railways, and being as such a work of national and not merely provincial utility, a subsidy not exceeding \$6,000 per mile for the portion between Quebec and Montreal, 159 miles, nor exceeding in the whole	954,000
19. And for the portion between Montreal and Ottawa, 120 miles, \$12,000	
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.	,440,000
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
at St. Martin's Juncticn, near Montreal, or some other point on the Canadian Pacific Railway, to the harbour of Quebec, in such manner as may be approved by the Governor in Council, a subsidy not exceeding \$6,000 per mile, nor exceeding in the whole	960,000
lage of Bancroft, in the township of Dungannon, county of Hastings, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	160,000
\$3,200 per mile, nor exceeding in the whole	272,000 160,000
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 Parlia-	
ment, towards Le Désert, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole\$16	20.000
29. To the Northern and Western Railway Company, for a line of railway	,000
from Fredericton to the Miramichi River, a subsidy not exceeding	
\$3,200 per mile, nor exceeding in the whole (instead of the subsidy	28 000
proposed in 1883)	28,000
Wallaceburg to Sarnia, a subsidy not exceeding \$3,200 per mile, nor	
exceeding in the whole	6,000
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,	
nor exceeding in the whole	32,400
32. To the Kingston and Pembroke Railway Company, for a line of railway	•
from Mississippi to Renfrew, a subsidy not exceeding \$3,200 per	10 000
mile, nor exceeding in the whole	18,000
way between St. Jérôme and New Glasgow, in the county of Terre-	
bonne, a subsidy not exceeding \$3,200 per mile, nor exceeding in the	20.000
whole	32,000
Railway Junction with the Canadian Pacific Railway and St. Mar-	
tin's Junction connecting the Jacques Cartier Union Railway with	
the North Shore Railway proper, a subsidy not exceeding in the whole	00,000
35. For a line of railway from Richibucto to St. Louis, a subsidy not exceed-	,0,000
ing \$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 Brunswick, a subsidy not exceeding \$3,200 per mile, nor exceeding	
	51,200
37. For a line of railway from St. Andrew's to Lachute, in the county of	,
Argenteuil, a subsidy not exceeding \$3,200 per mile, nor exceeding	22,400
in the whole	22,400
Lake Edward, a subsidy not exceeding \$3,200 per mile, nor exceed-	
ing in the whole	17,600
Scotia, a subsidy not exceeding \$3,200 per mile, nor exceeding 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	28,000
41. To the Caraquet Railway Company, for the extension of their line of	20,000
railway from Caraquet to Shippegan Harbour, in the province of	
New Brunswick, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	76,800
42. For a branch of the Intercolonial Railway, from Metapediac eastward	10,000
towards Paspebiac, twenty miles, in the province of Quebec, a sum	
not exceeding in the whole	00,000
	40,000
"The subsidies hereinbefore mentioned as to be granted to companies nam	•
that purpose shall be granted to such companies, respectively; the other su	bsidies
shall be granted to such companies as shall be approved by the Governor in C	Council
as having established, to his satisfaction, their ability to construct and complessaid railways respectively. All the lines for the construction of which subside	te the
some rainays respectively. And the state of the constitution of which subside	LCS ON C

granted shall be commenced within two years from the first day of July next and completed within a reasonable time, not to exceed four years, to be fixed by Order in Council, except the line mentioned in the fourth section of this Act,* which shall be commenced within one year, and shall also be constructed according to descriptions and specifications and upon conditions to be approved by the Governor in Council, on the report of the Minister of Railways and Canals and specified in an agreement to be made in each case by the company with the Government, and which the Government is hereby empowered to make; the location also of every such line of railway shall be subject to the approval of the Governor in Council; and all the said subsidies, respectively, shall be payable out of the Consolidated Revenue Fund of Canada, by instalments, on the completion of each section of the railway of not less than ten miles, proportionate to the value of the portion so completed in comparison with that of the whole work undertaken, to be established by the report of the said Minister. The subsidies to the province of Quebec shall be capitalized, and the interest shall be payable at such time and in such manner as the Government of Cana? a 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 construction of a line of railway and telegraph between the points named; such subsidy to be in lands en bloc on Vancouver Island, the boundaries being fixed by the Act, and in money......\$750,000 By the Act 48-49 Vic., cap. 59, 1885 (Assented to 20th July, 1885): 45. To the Ottawa, Waddington and New York Railway and Bridge Company, for a line of railway from Ottawa to Waddington, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole....... 166,400 46. 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..... 118,400 47. To the Montreal and Sorel Railway Company, for a line of railway from St. Lambert to Sorel, a subsidy not exceeding \$1,600 per mile, nor exceeding in the whole. 72,000 48. To the Brockville, Westport and Sault Ste. Marie Railway Company, for a line of railway from Brockville to Westport, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole...... 128,000 49. To the Quebec and Lake St. John Railway Company, for a line of 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..... 96,000 50. To the Northern and Western Railway Company, for a line of railway from the northern end of the 40 miles subsidized between Fredericton and the Miramichi River by 47 Victoria, chapter 8, to Boiestown, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole 19,200

^{*} The extension of the Canadian Pacific Railway from its terminus at St. Martin's Junction, or some other point on the said railway to the harbour of Quebec.

 51. To the Montreal and Champlain Junction Railway Company, for a line of railway from Brosseau's to Dundee, a subsidy not exceeding \$500 per mile, nor exceeding in the whole	\$30,000
east end of Whitefish Lake, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	92,000
mile, nor exceeding in the whole	64,000
mile, nor exceeding in the whole	10,500
the whole	25,600
Comber, to Lake Erie, at or near the village of Leamington, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole 57. To the Napanee, Tamworth and Quebec Railway Company, for a line of Railway Company.	44,800
railway from Tamworth towards Bogart and Bridgewater, 16 miles, in lieu of the subsidy granted by 47 Vic., chap. 8, a subsidy of 58. To the Gatineau Railway Company, for a line of railway from Hull station towards I.e. Divertis distance of 62 miles in lieu of the subsidies	70,000
tion towards Le Désert, a distance of 62 miles, in lieu of the subsidies granted by 46 Vic., chap. 25, and 47 Vic., chap. 8, a subsidy of 59. For a line of railway from the Grand Piles, on the River St. Maurice, to its junction with Lake St. John Railway, a distance of about 50 miles, in lieu of the subsidy granted by 47 Vic., chap. 8, for a line of	320,000
railway from the Grand Piles, on the River St. Maurice, to Lake Edward, a subsidy of	217,600
Ottawa, to the Chaudiere Falls, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	96,000
a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole.	

"The subsidies hereinbefore mentioned as to be granted to companies named for that purpose shall be granted to such companies, respectively; the other subsidies shall be granted to such companies as shall be approved by the Governor in Council as having established to his satisfaction their ability to construct and complete the said railways, respectively. All the lines for the construction of which subsidies are granted shall be commenced within two years from the first day of August next, and completed within a reasonable time, not to exceed four years, to be fixed by Order in Council; and shall also be constructed according to descriptions, specifications and upon conditions to be approved by the Governor in Council, on the report of the Minister of Railways and Canals, and specified in an agreement to be made in each case by the company with the Government, and which the Government is hereby empowered to make; the location, also, of every line of railway shall be subject to the approval of the Governor in Council; and all the said subsidies, respectively, shall be payable out of the Consolidated Revenue Fund of Canada, by instalments, on the completion of each section of the railway of not less than ten miles, proportionate to the value of the portion so completed in comparison with that of the whole work undertaken, to be established by the report of the said Minister.

"Provided always, that the granting of such subsidies to the companies mentioned, respectively, shall be subject to such conditions for securing such running powers or traffic arrangements and other rights as will afford all reasonable facilities and equal mileage rates to all railways connected with those so subsidized, as the Governor in Council may determine."

By the Act 48-49 Vic., cap. 58, 1885 (Assented to 20th July, 1885):—

- 62. For a railway from a point on the Intercolonial Railway at Rivière du Loup or Rivière Ouelle, in the province of Quebec, to Edmundston, in the province of New Brunswick, a subsidy not exceeding two thousand eight hundred dollars per mile for seventy-five miles, and six thousand dollars per mile for eight miles, nor exceeding in the whole two hundred and fifty-eight thousand dollars; the said subsidy to be in addition to the subsidy authorized to be granted in aid of the construction of the said railway by the Act forty-fifth Victoria, chapter fourteen, and constituting with the subsidy so authorized, a subsidy not exceeding in the whole four hundred and ninety-eight thousand dollars, and to be granted for the said railway upon the terms and conditions specified in the said Act, and payable out of the Consolidated Revenue Fund of Canada; and for the purpose of incorporating the persons undertaking the construction of the said railway and those who shall be associated with them in the undertaking, the Governor may grant to them, under such corporate name as he shall deem expedient, a charter conferring upon them the franchises, privileges and powers requisite for the said purposes, which shall be similar to such of the franchises, privileges and powers granted to railway companies during the present session as the Governor shall deem most useful or appropriate to the said undertaking; and such charter being published in the Canada Gazette, with any Order or Orders in Council relating to it, shall have force and effect as if it were an Act of the Parliament of Canada.
- 63. For a line of railway from the south bank of the St. Lawrence river, opposite or near Montreal, to the harbours of St. Andrew's, St. John and Halifax via Sherbrooke, Moosehead Lake, Mattawamkeag, Harvey, Fredericton and Salisbury, a subsidy not exceeding eighty thousand dollars per annum for twenty years, forming in the whole, together with the subsidy authorized by the Act forty-seventh Victoria, chapter eight, for a line of railway connecting Montreal with the said harbours of St. John and Halifax by the shortest and best practicable route, which the line above described is found to be, a subsidy not exceeding two hundred and fifty thousand dollars per annum, the whole of which shall be paid in aid of the construction of such a line of railway for a period of twenty years, or a guarantee bond of a like sum for a like period as interest on the bonds of the company undertaking the work; the said subsidy to be so granted upon the terms and conditions of and payable out of the Consolidated Revenue Fund in the manner specified in the said last mentioned Act in respect of the subsidy thereby authorized in aid of the said line of railway.
- 64. The Governor in Council may grant a further subsidy as an aid towards procuring free access as hereinafter described for the trains and traffic of the Canadian Pacific Railway Company from St. Martin's Junction, near Montreal, or from some other point on their railway to be selected by the said company, to the harbour of Quebec, in such a manner as shall be approved by the Governor in Council, that is to say: an additional subsidy not exceeding three hundred and forty thousand dollars, constituting, together with the subsidy authorized by the said last mentioned Act, to aid in procuring the extension of

the Canadian Pacific Railway to Quebec, and the subsidy also thereby authorized to aid in constructing a line connecting the Canadian Pacific Railway at the Jacques Cartier Union Junction with the North Shore Railway proper (which subsidies shall be applicable to the said first mentioned purpose) a sum not exceeding in the whole the sum of one million five hundred thousand dollars, payable out of the Consolidated Revenue Fund of Canada.

The said Act further provided as follows in relation to this matter:-

"If it should be expedient so to do in order to facilitate such access, the Governor in Council may acquire the North Shore Railway, and may apply the said sum of one million five hundred thousand dollars, or any part thereof, in aid of such acquisition and upon such acquisition may transfer and convey or lease the said railway to the Canadian Pacific Railway Company, subject to such obligation as the Government shall have assumed in acquiring it."

COS UI	neu in acquiring in	
	By the Act 49 Vic., cap. 10, 1886 (Assented to 2nd June, 1886):—	
65.	For a railway from a point at or near Moncton, to Buctouche, in the pro-	
	vince of New Brunswick, thirty miles, a subsidy not exceeding \$3,200	
	per mile, nor exceeding in the whole\$	96,000
66.	For a railway from Ingersoll via London to Chatham, in the province	• 0,000
•••	of Ontario, eighty miles, a subsidy not exceeding \$3,200 per mile, nor	
	exceeding in the whole	256,000
B7	To the Northern and Western Railway Company, for ten miles of their	200,000
•••	railway, intervening between the termini of the portions of their	
	railway for which subsidies are already granted, the one from Fred-	
	ericton and the other from Indiantown, and an extension of two miles	
	down to deep water at Chatham, in the province of New Brunswick,	
	a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole.	20.000
00	a subsidy not exceeding \$5,200 per inne, not exceeding in the whole.	32,000
U 3.	To the Caraquet Railway Company, for ten miles of their railway, from	
	the end of the present subsidized portion at Lower Caraquet to Ship-	
	pegan, in the province of New Brunswick, a subsidy not exceeding	00.000
a a	\$3,200 per mile, nor exceeding in the whole	32,000
QA.	To the Lake Erie, Essex and Detroit River Railway Company, for thirty-	
	seven miles of their railway, from Windsor to Leamington, in the	
	province of Ontario, a subsidy not exceeding \$3,200 per mile, nor	410 400
	exceeding in the whole	118,400
70.	To the Thunder Bay Colonization Railway Company, for fifty-six miles	
	of their railway, from the end of the present subsidized section to a	
	point near Crooked Lake, in the province of Ontario, a subsidy not	
	exceeding \$3,200 per mile, nor exceeding in the whole	179,200
71.	To the Parry Sound Colonization Railway Company, for forty miles of	
	their railway, from the village of Parry Sound to the village of Sund-	
	ridge, on the line of the Northern Pacific Junction Railway, in the	
	province of Ontario, a subsidy not exceeding \$3,200 per mile, nor	
	exceeding in the whole	128,000
72.	For a railway from a point at or near New Glasgow or St. Lin, to ornear	
	to Montcalm, in the province of Quebec, eighteen miles, a subsidy not	
	exceeding \$3,200 per mile, nor exceeding in the whole	57,600
73.	For a railway from Hereford to the International Railway, in the	
	township of Eaton, in the province of Quebec, thirty-four miles, a	
	subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	108,800
74.	For a railway from St. Félix to Lake Maskinongé, parish of St. Gabriel	•
	in the province of Quebec, ten miles, a subsidy not exceeding \$3,200	
	per mile, nor exceeding in the whole	32,000
75.	For a railway from Glenannan to Wingham, in the province of Ontario,	,
	five miles, a subsidy not exceeding \$3,200 per mile, nor exceeding in	
	the whole	16,000

76. For a railway from a point at or near the McCann Station, on the Inter-	
colonial Railway, to the Joggins, on Cumberland Basin, in the province	
of Nova Scotia, twelve miles, a subsidy not exceeding \$3,200 per	
mile, nor exceeding in the whole	38,400
77. For a railway from L'Assomption to L'Epiphanie, in the province of	
Quebec, three miles and a half, a subsidy not exceeding \$3,200 per	
mile, nor exceeding in the whole	11,200
78. To the Montreal and Western Railway Company, for seventy miles of	
their railway from St. Jérôme, north-westerly towards Désert, in	
the province of Quebec, a subsidy of \$5,161 per mile, in lieu of the	
subsidies granted by 46 Vic., chap. 25, and 47 Vic., chap. 8, not ex-	001.050
ceeding in the whole	361,270
79. For a railway from St. Andrew's to the Canadian Pacific Railway at or	
at any point east of the town of Lachute, in the county of Argen-	
teuil, in the province of Quebec, seven miles, in lieu of the subsidy	
granted by 47 Vic., chap. 8, a subsidy not exceeding \$3,200	99.400
per mile, nor exceeding in the whole	22,400
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,	00,100
forty-nine miles, a subsidy not exceeding \$3,200 per mile, nor ex-	
ceeding in the whole	156,800
ceeding in the whole	,
miles of their railway, from a point fifty miles north of St. Raymond	
to Lake St. John, in the province of Quebec, a subsidy not exceeding	
\$1,961 per mile, nor exceeding in the whole (in addition to the sub-	
sidy granted by 45 Victoria, chapter 14, and 46 Victoria, chapter 25,	
of \$3,200 per mile)	186,295
83. To the Cap Rouge and St. Lawrence Railway Company, for twelve miles	
of their railway from Lorette via Cap Rouge to Quebec, in the pro-	
vince of Quebec, a subsidy not exceeding \$3,200 per mile, nor ex-	00.400
ceeding in the whole	38,400
84. For the construction of wharts and landing stages on the line of the	
railway from Long Sault to the foot of Lake Temiscamingue, a sub-	6 000
sidy of	6,000
85. To the Gananoque, Perth and James Bay Railway Company, seventeen miles, a subsidy not exceeding \$3,200 per mile, nor exceeding in the	
whole	54,400
86. For a railway from St. Eustache to St. Placide, county of Two Moun-	91,100
tains, eighteen miles, a subsidy not exceeding \$3,200 per mile, nor	
exceeding in the whole	57,600
87. For a railway from a point on the Intercolonial Railway through the	-,,
Stewiacke Valley, on the line which will afford facilities of commu-	
nication with the Iron Mines, Spring Side, Upper Stewiacke and	
Musquodoboit settlements, twenty-five miles, a subsidy not exceed-	
ing \$3,200 per mile, nor exceeding in the whole	80,000
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-	
way, to a point near Plaister Rock Island, in the province of New	
Brunswick, twenty-eight miles, a subsidy not exceeding \$3,200 per	
mile, nor exceeding in the whole	89,600
90. For a railway from Fredericton to the village of Prince William, in the	
province of New Brunswick, twenty-two miles, a subsidy not exceed-	#O 100
ing \$3,200 per mile, nor exceeding in the whole	70,400
10"	

91. For a railway from a point on the Intercolonial Railway near Newcastle	
or via Douglastown to a point on the River Miramichi, opposite the	
town of Chatham, in the province of New Brunswick, six miles, a	
subsidy not exceeding \$3,200 per mile, nor exceeding in the whole.	\$19,200
92. For a railway from a point on the Canadian Pacific Railway to Egan-	• ,
ville, in the province of Ontario, twenty-two miles, a subsidy not	
exceeding \$3,200 per mile, nor exceeding in the whole	70,400
93. To the Belleville and North Hastings Railway Company, for seven miles	,
of their railway, from the village of Madoc to the junction with the	
Central Ontario Railway at Eldorado, in the province of Ontario, a	
subsidy (in addition to the subsidy of \$1,500 per mile granted by	
48-49 Victoria, chapter 59), not exceeding \$1,700 per mile, nor ex-	
ceeding in the whole	11,900
94. To the Napanee, Tamworth and Quebec Railway Company, for eighteen	,
miles of their railway from Tamworth to Tweed, in lieu of the sub-	
sidy granted by 48-49 Victoria, chapter 59, a subsidy of	70,000
95. To the Albert Railway Company, for their railway from Salisbury to	, 0,000
Hopewell, in the province of New Brunswick, which is a feeder to	
the Intercolonial Railway, in the form of a loan, repayable at such	
time and secured in such manner as the Governor in Council deter-	
mines, a subsidy of	15,000
minos, w substay vi	10,000

"The subsidies hereinbefore mentioned as to be granted to the companies named for that purpose shall be granted to such companies respectively; the other subsidies shall be granted to such companies as shall be approved by the Governor in Council as having established, to his satisfaction, their ability to construct and complete the said railways respectively. All the lines for the construction of which subsidies have been granted shall be commenced within two years from the first day of August next, and completed within a reasonable time, not to exceed four years, to be fixed by Order in Council, and shall be so constructed according to descriptions and specifications and upon conditions to be approved by the Governor in Council, on the report of the Minister of Railways and Canals, and specified in the agreement to be made in each case by the company to the Government, and which the Government is hereby empowered to make; the location, also, of every such line of railway shall be subject to the approval of the Governor in Council, and all the said subsidies, respectively, shall be payable out of the Consolidated Revenue Fund of Canada, by instalments on the completion of each section of the railway of not less than ten miles, proportionate to the value of the portion so completed in comparison with that of the whole work undertaken, to be established by the report of the said Minister: Provided always, that the granting of such subsidies to the companies mentioned, respectively, shall be subject to such conditions for securing such running powers or traffic arrangements, and other rights, as will afford all reasonable facilities and equal mileage rates to all railways connecting with those so subsidized, as the Governor in Council may determine."

By section 2 of this Act authority was given for the grant of a charter by the Governor in Council for the purpose of constructing a railway from Long Sault to the foot of Lake Temiscamingue.

99.	To the Drummond County Railway Company, for thirty miles of their railway from Drummondville towards Nicolet, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	96,000
100.	To the Joggins Railway Company, for one and a quarter miles of their railway extending from the southern end of the portion subsidized by the Act 49 Victoria, chapter 10, to the wharfs, a subsidy not	20,000
101.	exceeding \$3,200 per mile, nor exceeding in the whole	4,000
102.	per mile, nor exceeding in the whole	6,400
103.	exceeding \$3,200 per mile, nor exceeding in the whole To the Harvey Branch Railway Company, for three miles of their railway from the southern terminus of the Albert Railway to Harvey Bank, a subsidy not exceeding \$3,200 per mile, nor exceed-	96,000
104.	ing in the whole	9,600
105.	mediate point on the Canada Southern Railway, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole To the Guelph Junction Railway Company, for sixteen miles of their railway from its junction with the Canadian Pacific Railway to the	57,600
106.	town of Guelph, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	51,200
107.	Railway, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	32,000
	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.	To 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	To the South Norfolk Railway Company, for seventeen miles of their railway from Port Rowan to the town of Simcoe, a subsidy not	
110.	exceeding \$3,200 per mile, nor exceeding in the whole	54,400 20,000
111.	For a line of railway from Mount Forest to Walkerton, twenty-four miles in length, a subsidy not exceeding \$3,200 per mile, nor exceed-	•
112	ing in the whole	76,800
113.	exceeding \$3,200 per mile. nor exceeding in the whole To the Saguenay and Lake St. John Railway Company, for thirty miles of their railway from Lake St. John towards Chicoutimi, or from Chicoutimi towards Lake St. John, a subsidy not exceeding	22,400
	\$3,200 per mile, nor exceeding in the whole	96,000

114. To the Great Eastern Railway Company, for thirty miles of their rail way from the River St. Francis to the Arthabaska Railway, at St Grégoire station, a subsidy not exceeding \$3,200 per mile, nor ex	
ceeding in the whole	\$96,000
railway from the northern end of the portion subsidized by the Act 47 Victoria, chapter 8, to the town of Perth, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	
116. To the Caraquet Railway Company, for seven miles of their railway from Lower Caraquet to Shippegan, in lieu of the subsidy granted by the	
Act 49 Victoria, chapter 10, a subsidy not exceeding in the whole 117. To the St. Lawrence and Lower Laurentian and Saguenay Railway Company, for the section of this railway from Grand Piles, on the	
St. Maurice River, to its junction with the Quebec and Lake St. John Railway, in lieu of the subsidy granted by the Act passed in the session held in the forty-eighth and forty-ninth years of Her Majesty's	
reign, chapter 59, for a line of railway from Grand Piles, on the St. Maurice River, to its junction with the Lake St. John Railway, s distance of about fifty miles, a subsidy of	
118. To the St. John Valley and River du Loup Railway Company, for twenty-two miles of their railway from the village of Prince William	
towards the town of Woodstock, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	70,400
railway, in all about two miles in length, to overcome the rapids of the Ottawa River, known as "La Mi-Charge," "La Cave," "Les "Erables," and "La Montagne," and for the construction of wharfs	
and landing stages at these rapids, to connect the Canadian Pacific Railway at Mattawa with Lake Temiscamingue by steamboats, rail- ways and other works (in lieu of a portion two miles in length, out of	
the eight miles of railway subsidized by the Act passed in the session held in the forty-eighth and forty-ninth years of Her Majesty's reign	
chapter 59, under which about six miles of railway have already been built from the foot of Long Sault proper to the foot of Lake Temisca mingue, and in lieu also of the subsidy granted by the Act 49 Vic	•
toria, chapter 10), a subsidy of	12,400
exceeding \$3,200 per mile, nor exceeding in the whole 121. To the Minudie Branch Railway Company, for five and a half miles of their railway from its junction with the Joggins Railway, near the	38,400
River Hébert railway bridge, to the village of Minudie, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	17,600
ten and a half miles of their railway from the Long Sault to Lake Kippewa, a subsidy not exceeding \$3,200 per mile, nor exceeding in	
the whole	•
Act passed 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 subsidy not exceeding \$3,200 per mile, nor exceeding in the whole.	6,400
124. To the Cumberland Railway and Coal Company for fourteen miles of their railway from a point on the Spring Hill and Parrsboro' Rail	•
way, near Spring Hill, to a point on the railway between Oxford and New Glasgow, near Oxford village, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	1

	To the Montreal and Champlain Junction Railway Company, a sub-	
	sidy of	64,000
126 .	sidy of To the Quebec and Lake St. John Railway Company, for nine miles of	
	their railway, the distance which the previous subsidies granted are	
	short of covering from the city of Quebec to Lake St. John, a sub-	
	sidy not exceeding \$3,200 per mile, nor exceeding in the whole	28,800
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	41,600
129	To the Nova Scotia Central Railway Company, for thirty-four miles of	,
1 ~ 47.	their railway, a subsidy not exceeding \$3,200 per mile, nor exceeding	
	in the whole	108,800
190	To the Tobique Valley Railway Company, for fourteen miles of their	100,000
100.	railway from Perth Centre station towards Plaister Rock Island, in	
	lieu of the subsidy granted by the Act 49 Victoria, chapter 10, for	
	a railway from Perth Centre station, on the New Brunswick Rail-	
	way, to a point near Plaister Rock Island, a subsidy of	89,600
101	For a railway from Woodstock towards Centreville, twenty miles, a	00,000
191	subsidy not exceeding \$3,200 per mile, nor exceeding in the whole.	64,000
100		04,000
102.	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	180,000
100	cent on the value of the structure, not to exceed	100,000
133	To the Lake Erie, Essex and Detroit River Railway Company, for	
	twenty-seven miles of their railway, in lieu of the subsidy granted by	110 400
	, , , ,	118,400
	For the purpose of granting corporate powers to persons or companies	s under-

"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 Canada.

"The subsidies hereinbefore mentioned as to be granted to companies named for that purpose shall be granted to such companies respectively; the other subsidies, including subsidies granted for railways over a line extending beyond a point to which any company hereinbefore mentioned by name is authorized to construct their railway, shall be granted to such companies as shall be approved by the Governor in Council, as having established, to his satisfaction, their ability to construct and complete the said railways respectively; all the lines for the construction of which subsidies are granted shall be commenced within two years from the first day of August next, and completed within a reasonable time, not to exceed four years, to be fixed by Order in Council; and shall also be constructed according to descriptions and specifications and upon conditions to be approved by the Governor in Council, on the report of the Minister of Railways and Canals, and specified in an agreement to be be made in each case by the company with the Government, and which the Government is hereby empowered to make; the location, also, of every such line of railway shall be subject to the approval of the Governor in Council; and all the said subsidies respectively shall be payable out of the Consolidated Revenue Fund of Canada, by instalments, on the completion of each section of the railway of not less than ten miles, proportionate to the value of the portion so completed in comparison with that of the whole work undertaken, to be established by the report of the said Minister, or upon completion of the work subsidized, except as regards the subsidy for the bridge over the

96,000 00

St Lawrence River, upon which shall be paid fifteen per cent of the value of work done on monthly progress estimates, certified by the Chief Engineer, and upon the approval of the Minister of Railways and Canals.

"The granting of such subsidies to the companies mentioned, respectively, shall be subject to such conditions for securing such running powers or traffic arrangements and other rights as will afford all reasonable facilities and equal mileage rates to all railways

connecting with those so subsidized, as the Governor in Council determines.

"Notwithstanding anything contained in the Act forty-fifth Victoria, chapter fourteen, or in the Act forty-sixth Victoria, chapter twenty-five, the balances of the sums granted for a railway from St. Raymond to Lake St. John and to the Quebec and Lake St. John Railway Company by the said Acts respectively, which have not yet been paid by the Government, may be paid at any time within one year from the passing of this Act, subject to the conditions in the said Act contained."

By the Act 51 Vic., cap. 3, 1888 (Assented to 22nd May, 1888):— 134. To the Ottawa and Parry Sound Railway Company, for 22 miles of their railway from a point on the Canadian Pacific Railway to Eganville, in lieu of the subsidy granted by 49 Victoria, chapter 10, for a railway from a point on the Canadian Pacific Railway to Eganville, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole..... \$ 70,400 00 135. To the Nova Scotia Central Railway Company, for 46 miles of their railway, in the province of Nova Scotia, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole...... 147,200 00 136. To the Montreal and Champlain Junction Railway Company, for 3 miles of their railway from the end of the present subsidized section, a subsidy not exceeding \$3,200 per mile, nor exceeding 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 Victoria, chapter 24, a subsidy of..... 32,000 00 138. 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 undertaken, and for three miles of their railway extending from a point three miles east of Pembroke to Pembroke, in the province of Ontario, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole \$9,600, provided that the entire work subsidized upon this • railway shall be completed within four years from the passing of this Act, the subsidy granted by this Act not to exceed in the 41,100 00 189. 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...... 271,200 00 140. To the Quebec and Lake St. John Railway Company, for 30 miles of their railway from Lake St. John towards Chicoutimi, or from Chicoutimi towards Lake St. John, being a transfer made at the request of the Saguenay and Lake St. John Railway Company of the subsidy granted to them by 50-51 Victoria, chapter 24, a

subsidy not exceeding \$3,200 per mile, nor exceeding in the whole

 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	\$100,0 00 0 0
in cash of	288,000 00
in the Public Accounts as an asset for 144. To the Elgin, Petitcodiac and Havelock Railway Company of New Brunswick, a grant as subsidy (the road to be first laid with new steel rails weighing not less than 56 pounds per lineal yard, and after an Order in Council has been passed authorizing their transfer to the company) of 2,201 tons of used iron rails and fastenings loaned to the Elgin Branch Railway, now forming part of the Elgin, Petitcodiac and Havelock Railway, which	83,612 54
rails and fastenings stand in the Public Accounts as an asset for 145. To the Kent Northern Railway Company of New Brunswick, a grant as subsidy (the road to be first laid with new steel rails weighing not less than 56 pounds per lineal yard, and after an Order in Council has been passed authorizing their transfer to the company) of 2,549 tons of used iron rails and fastenings loaned to the company, which rails and fastenings stand in the Public Accounts as an asset for	44,252 82 58,334 27
146. To the Halifax Cotton Company of Nova Scotia, 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 233 tons of used iron rails and fastenings loaned to the company, which rails and fastenings stand in the Public Accounts as	
an asset for	4,335 00
counts as an asset for	11,964 66
Public Accounts as an asset for	14,665 45

\$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."

report of the said himself, of upon compression, or the work exceeding		
By the Act 52 Vic., chap. 3, 1889. (Assented to 2nd May, 1889):-	-	
150. To the Ontario and Pacific Railway Company, for a line of rail-		
way from Cornwall to Ottawa, a subsidy not exceeding \$3,200		
per mile, nor exceeding in the whole	\$172,400	00
151. To the Ottawa and Gatineau Railway Company, for a line of rail-		
way from Hull station towards Le Désert, a distance of sixty-		
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	00.400	^^
\$3,200 per mile, nor exceeding in the whole	38,400	00
153. To the Parry Sound Colonization Railway Company, for forty		
miles of their railway, from the village of Parry Sound to the village of Sundridge, or some other point on the line of the		
Northern and Pacific Junction Railway, in the province of		
Ontario, a subsidy not exceeding \$3,200 per mile, nor exceeding		
in the whole	128,000	00
154. For a railway from St. Andrew's to the Canadian Pacific Railway,	120,000	00
at or at any point east of the town of Lachute, in the county of		
Argenteuil, in the province of Quebec, seven miles, a subsidy		
not exceeding \$3,200 per mile, nor exceeding in the whole	22,400	00
155. For a railway from Truro, or a point between Truro and Stewiacke,	-	
to Newport or to Windsor, in the province of Nova Scotia, forty-		
nine miles, a subsidy not exceeding \$3,200 per mile, nor exceed-		
ing in the whole	156,800	00
156. For a line of the Central Railway from the head of Grand Lake		
to the Intercolonial Railway, in the province of New Bruns-		
wick, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	128,000	ΛΛ
157. To the Albert Southern Railway Company, the balance remaining	120,000	UU
unpaid of the subsidy granted by the Act 47th Victoria, chapter		
8, not exceeding in the whole	31,771	43
158. To the Baie des Chaleurs Railway Company, the balance remaining	~_,,,,_	
unpaid of the subsidy mentioned in the Act 49th Victoria,		
chapter 17, not exceeding in the whole	244,500	00

159.	To the Irondale, Bancroft and Ottawa Railway Company, for a line		
	of railway from the Victoria Branch of the Midland Railway to the village of Bancroft, in the county of Hastings, the balance		
	remaining unpaid of the subsidy granted by the Act 47th	*1 / F 000	00
160.	Victoria, chapter 8, not exceeding in the whole	\$145,000	UU
	railway from Gravenhurst to Callander, the balance remaining		
	unpaid of the subsidies granted by the Act 45th Victoria, chapter 14, and 46th Victoria, chapter 25, not exceeding in the whole.	35,000	00
161.	For a railway from some point on the Joggins Railway, near the	·	
	Hébert River, to Young's Mills, in the province of Nova Scotia, a distance of five miles, a subsidy not exceeding \$3,200 per mile,		
	and not exceeding in the whole	16,000	00
162.	To the St. Clair Frontier Tunnel Company, for the construction of a tunnel under the St. Clair River, from a point at or near		
	Sarnia, to a point at or near Port Huron, a subsidy not exceed-		
162.	ing in the whole	375,000	00
200.	their railway from the north bank of the Ottawa River, opposite		
	Braeside, or from Bristol Iron Mines, to the Pontiac Pacific Junction Railway, near the Quyon River, in the province of		
	Quebec, a subsidy not exceeding \$3,200 per mile, and not		
164.	exceeding in the whole	19,200	00
101	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 exceed-		
	ing in the whole	96,000	00
165.	To the Fredericton and St. Mary's Bridge Company, for a bridge over the St. John River, at Fredericton, in the province of New		
	Brunswick, a subsidy not exceeding in the whole	30,000	00
166.	To the Napanee, Tamworth and Quebec Railway Company, for 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	32,000	00
167.	For a railway from a point near Sicamous, on the Canadian 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	140.000	00
168.	exceeding in the whole	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		
100	in the whole	3,200	00
109	To the Lake Témiscamingue Colonization and Railway Company, for fifteen miles of their railway, from Mattawa station on the		
	Canadian Pacific Railway, towards the Long Sault, or from the		
	Long Sault towards the said Mattawa station, in the province of Quebec, a subsidy not exceeding \$3,200 per mile, nor exceeding		
700	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 mile, nor		
	exceeding in the whole	48,000	00

171. To the Kingston, Smith's Falls and Ottawa Railway Company, for twenty miles of their railway, from the city of Kingston towards	
Smith's Falls, in the province of Ontario, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	\$ 64,000 00
the province of Ontario, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	158,400 00
per mile, nor exceeding in the whole	16,000 00
vince of Quebec, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	64,000 00
St. Lawrence River, in the province of Quebec, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole 176. To the St. Catharines and Niagara Central Railway Company, for twenty miles of their railway, from the end of the line subsidized	14,400 00
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
miles of their railway, from the end of the section of thirty miles from Lake St. John towards Chicoutimi, subsidized by the Act 51 Victoria, chapter 3, towards Chicoutimi, in the province of Quebec, a subsidy not exceeding \$3,200 per mile, nor exceeding the abelian	
ing in the whole	,
ing \$3,200 per mile, nor exceeding in the whole	
exceeding \$3,200 per mile, nor exceeding in the whole 180. To the Massawippi Junction Railway Company, for fifteen miles of their railway, from Ayer's Flat to Coaticook, in the province of Quebec, a subsidy not exceeding \$3,200 per mile, nor exceed-	48,000 00
ing in the whole	
sidy not exceeding \$3,200 per mile, nor exceeding in the whole. 182. To the Thousand Islands Railway Company, for four miles of their railway, from a point near the St. Lawrence River, in Ganano-que village, to Gananoque Junction of the Grand Trunk Railway, and for thirteen miles of their railway, from Gananoque Junction of the Grand Trunk Railway to a junction with the Brockville, Westport and Sault Ste. Marie Railway, in the province of	64,000 00
Ontario, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	54,400 00

\$64.000 00

184. To the Amherstburg, Lake Shore and Blenheim Railway Company, for twenty miles of their railway, in the province of Ontario, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole.

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 an i truly carry out their undertaking, their bonds to the amount of two hundred thousand dollars.

"The subsidies hereinbefore mentioned as to be granted to companies named for that purpose, shall be granted to such companies respectively; all the lines for the construction of which subsidies are granted, unless they are already commenced, shall be commenced within two years from the first day of August next, and completed within a reasonable time, not to exceed four years, to be fixed by Order in Council, and shall also be constructed according to descriptions and specifications and upon conditions to be approved by the Governor in Council, on the report of the Minister of Railways and Canals, and specified in an agreement to be made in each case by the company with the Government, and which the Government is hereby empowered to make; the location. also, of every such line of railway shall be subject to the approval of the Governor in Council; and all the said subsidies, respectively, shall be payable out of the Consolidated Revenue Fund of Canada, by instalments, on the completion of each section of the railway of not less than ten miles, proportionate to the value of the portion so completed in comparison with that of the whole work undertaken, to be established by the report of the said Minister, or upon the completion of the work subsidized, except as respects the tunnel under the St. Clair River, in which case there shall be paid fifteen per cent of the value of work done on monthly progress estimates, certified by the Chief Engineer, and upon the approval of the Minister of Railways and Canals.

"The granting of such subsidies, respectively, shall be subject to such conditions for securing such running powers or traffic arrangements and other rights, as will afford all reasonable facilities and equal mileage rates to all railways connecting with those so

subsidized, as the Governor in Council determines.

"And for the removal of doubts it is hereby declared and enacted that the provision in the Act passed in the fifty-first year of Her Majesty's reign, and chaptered three, relating to the Pontiac Pacific Junction Railway Company, extended and extends the several subsidies in aid of the said company for four years from the passing of the said Act, that is to say, from the twenty-second day of May, one thousand eight hundred and eighty-eight."

By the Special Act, 52 Vic., cap. 5, 1889 (Assented to 2nd May, 1889):—
185. In order to enable the Qu'Appelle, Long Lake and Saskatchewan
Railroad and Steamboat Company to complete their railway
from Regina to some point on the South Saskatchewan River
at or near Saskatoon, and thence northward to Prince Albert,
the Governor in Courcil may enter into a contract with such
company for the transport of men, supplies, materials and mails,

for twenty years, and may pay for such services during the said

160,000

term, eighty thousand dollars per annum in manner following, that is to say:—the sum of fifty thousand dollars to be paid	
annually on the construction of the railway to a point at or	
near Saskatoon, such payment to be computed from the date of	
the completion of the railway to such point; and the remaining	
thirty thousand dollars annually on the extension of the railway	
to Prince Albert, such payment to be computed from the date	•
of such last mentioned completion: Provided that if the second	
portion of the said railway is not built and operated to Prince	
Albert within two years after the completion of the railway to the South Saskatchewan as aforesaid, the payment of fifty	
thousand dollars shall cease until the whole railway is finished	
to Prince Albert.	
By the Act 53 Vic., cap. 2, 1890 (Assented to 16th May, 1890):—	
186. To the Montreal and Ottawa Railway Company, for thirty miles	
of their railway, from the western end of the thirty-six miles	
subsidized by the Act 50-51 Victoria, chapter 24, towards	
Ottawa, a subsidy not exceeding \$3,200 per mile, and not ex-	
ceeding in the whole	\$ 96,000
187. To the Waterloo Junction Railway Company, for eleven miles of	• • • • • • • • • • • • • • • • • • • •
their railway, from Waterloo to Elmira, a subsidy not exceeding	
\$3,200 per mile, and not exceeding in the whole	35,200
188. To the Northern and Pacific Junction Railway Company, for a	·
railway from Gravenhurst to Callander, the balance remaining	
unpaid of the subsidies granted by the Acts 45 Victoria, chapter	
14, and 46 Victoria, chapter 25, not exceeding in the whole	600
189. For a railway from Woodstock via London to Chatham, in the	
province of Ontario, thirty miles in lieu of the subsidy granted	
by the Act 49 Victoria, chapter 10, for a railway from Ingersoll via London to Chatham, a subsidy not exceeding \$3,200 per	
mile, nor exceeding in the whole	256, 00 0
190. To the St. Catharines and Niagara Railway Company, for fourteen	200,000
miles of their railway, from the end of the twenty miles sub-	
sidized by the Act 52 Victoria, chapter 3, to Hamilton, a sub-	
sidy not exceeding \$3,200 per mile, nor exceeding in the whole.	44,800
191. To a railway from Ottawa to Morrisburg, fifty-two miles, a subsidy	•
not exceeding \$3,200 per mile, nor exceeding in the whole	166,400
192. To the Erie and Huron Railway Company, for twenty-two miles of	
their railway from Petrolea via Oil Springs to Dresden, a sub-	7 0.400
sidy not exceeding \$3,200 per mile, nor exceeding in the whole.	70,400
193. To the Brockville, Westport and Sault Ste. Marie Railway Company, for a railway from Brockville to Westport, the balance remain-	
ing 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 thirty	
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	
five miles of their railway, being a branch of the main line of	
railway to the Kakabeka Falls, a subsidy not exceeding \$3,200	10000
per mile, nor exceeding in the whole	16,000
196. To the Lake Eric and Detroit River Railway Company, for fifty 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

ing in the whole.....

	•
197. To the Lindsay, Bobcaygeon and Pontypool Railway Company,	
for sixteen miles of their railway, from Bobcaygeon to the Midland Railway, a subsidy not exceeding \$3,200 per mile, nor	
exceeding in the whole	\$ 51,200
198. To the Kingston, Smith's Falls and Ottawa Railway Company,	•
for thirty-six miles of their Railway, from the north-east end	
of the twenty miles subsidized by the Act 52 Victoria, chapter	•
3, to Smith's Falls, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	115,200
199. To the Ottawa and Parry Sound Railway Company, for thirty	110,200
miles of their railway, from Eganville to Barry's Bay, a subsidy	
not exceeding \$3,200 per mile, nor exceeding in the whole	
200. To the Belleville and Lake Nipissing Railway Company, for	
thirty miles of their railway, from Belleville to Tweed and thence to Bridgewater, a subsidy not exceeding \$3,200 per mile,	•
nor exceeding in the whole	96,000
201. To the Cobourg, Northumberland and Pacific Railway Company,	00,000
for thirty miles of their railway from Cobourg to the Ontario)
and Quebec Railway, a subsidy not exceeding \$3,200 per mile,	
nor exceeding in the whole	96,000
a half miles of their railway, from the town of St. Stephen to	
the town of Milltown, a subsidy not exceeding \$3,200 per mile,	
nor exceeding in the whole	11,200
203. To the Woodstock and Centreville Railway Company, for six	
miles of their railway, from the western end of the twenty miles	
subsidized by the Act 50-51 Vic., chap. 24, to the International boundary between the province of New Brunswick and the	
state of Maine, a subsidy not exceeding \$3,200 per mile, nor ex-	•
ceeding in the whole	19,200
204. For a railway from a point at or near Fredericton, via Oromocto	
and Gagetown, to a point on the New Brunswick Railway west of Westfield station, for thirty miles thereof, a subsidy not	•
exceeding \$3,200 per mile, nor exceeding in the whole	96,000
205. To the Central Railway Company of New Brunswick, for four	
and a half miles of their railway, the distance which the pre	•
vious subsidy granted is short of covering, from the head of	
Grand Lake to the Intercolonial Railway, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	. 14.400
206. To the Montreal and Western Railway Company, for seventy	
miles of their railway, from St. Jérôme, north-westerly towards	3
Désert, in the province of Quebec, in lieu of the subsidy	•
granted by the Act 49 Vic., chap. 10, a subsidy not exceeding	, ,
\$5,161 per mile, nor exceeding in the whole	361,270
"Provided, that the subsidy hereby granted to the Montreal and pany may be paid by instalments on the completion of each section of	the railway so
follows, that is to say:—	viic imii nuj ao
SECTIONS.	Approximate length

SECTIONS.	Approximate length 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	. 6 1
Ste. Agathe to St. Faustin	. 14
St. Faustin to St. Jovite	
St. Jovite to Summit Lake	
Summit Lake to La Chute aux Iroquois	. 7
La Chute aux Iroquois towards Désert	. 3

compa	Such instalments to be proportionate to the value of the portions so rison with that of the whole work undertaken, to be established as a	completed in foresaid."
207.	For seventy-five miles of the railway from Shelburne, in the county of Shelburne, and from Liverpool, in the county of Queen's towards Annapolis, in the province of Nova Scotia, to be so contracted for as to secure the construction to both Shelburne and Liverpool, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	\$ 240,000
208.	To the Inverness and Richmond Railway Company, for fifty miles of their railway from Port Hawkesbury to Broadcove, a subsidy	
209.	not exceeding \$1,000 per mile, nor exceeding in the whole To the International Railway Company, for a railway from Sherbrooke to the international boundary, the balance remaining unpaid of the subsidy granted by the Act 46 Vic., chapter 25,	50,000
010	not exceeding in the whole	3,840
	to Sorel	40,000
211.	To the Pontiac Pacific Junction Railway Company, for seven and a half miles of their railway, from Hull to Aylmer, a subsidy	
	not exceeding \$3,200 per mile, nor exceeding in the whole	24,000
212.	To the Montreal and Lake Maskinongé Railway Company, for three and a half miles of their railway, the distance which the subsidy granted by the Act 49 Vic., chapter 10, is short of covering from St. Félix to Lake Maskinongé, in the parish of St. Gabriel, a subsidy not exceeding \$3,200 per mile, nor exceeding	
	in the whole	10,200
213.	To the Great Eastern Railway Company, for a bridge over the Nicolet River, and also a bridge on the St. Francis River, a subsidy of 15 per cent on the value of the structure, not to	
214.	exceed	37, 500
015	nor exceeding in the whole	76,800
•	railway, from, at or near Montcalm to the Canadian Pacific Railway, between Joliette and St. Félix de Valois, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	48,000
216.	To the Lake Temiscamingue Colonization Railway Company, for twenty miles of their railway, from the northern end of the	
01 2	fifteen miles subsidized by the Act 52 Vic., chapter 3, to the Long Sault, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	64,000
217.	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,	
218.	nor exceeding in the whole	48,000
219.	not exceeding \$3,200 per mile, nor exceeding in the whole To the Quebec Central Railway Company, for ninety miles of their railway, from St. Francis Station, on the Quebec Central Railway, to a point on the Atlantic and North-western Railway,	57,600

220.	near Moose River, or from a point on the Quebec Central Railway between the Chaudière River and Tring Station, to a point on the International Railway at or near Lake Megantic, in lieu of the subsidy granted by the Act 51 Victoria, chapter 3, a subsidy not exceeding \$21,191.54 per annum for twenty years, or a guarantee of a like sum for a like period, as interest on the bonds of the company, such annual subsidy for twenty years representing a grant in cash of	\$288,000
	bourg to Quebec, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole \$38,400	68,400
221.	For a railway from Summerside to Richmond Bay, in the pro-	00,100
	vince of Prince Edward Island, three miles, a subsidy not ex-	
	ceeding \$3,200 per mile, nor exceeding in the whole	9,600
222.	To the Columbia and Kootenay Railway Company, for thirty-five miles of their railway, from the outlet of Kootenay Lake to a point on the Columbia River as near as practicable to the junction of the Kootenay and Columbia Rivers, a subsidy not exceeding \$3,200 per mile, nor to exceed in the whole	112,000
993	For a railway from a point on the Intercolonial Railway through	112,000
ÆÆÐ.	the Stewiacke Valley on a line which will afford facilities of communication with the Iron Mines, Springside, Upper Stewiacke and Musquodoboit settlements, twenty-five miles, in lieu of the subsidy granted by the Act 49 Victoria, chapter 10, a subsidy	
	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, twenty-two 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
225	To the St. John Valley and Rivière du Loup Railway Company,	10,100
~20.	for twenty-two miles of their railway from the village of Prince William towards the town of Woodstock, in lieu of the subsidy granted by the Act 50-51 Victoria, chapter 24, a subsidy not	70.400
226.	exceeding \$3,200 per mile, nor exceeding in the whole To the Témiscouata Railway Company, for sixteen miles of their railway, from the west end of the twenty miles of their branch railway from Edmundston, subsidized by the Act 51 Victoria, chapter 3, towards the St. Francis River, a subsidy not exceed-	70,400
	ing \$3,200 per mile, nor exceeding in the whole	51,200
227.	For a railway from the north end of the fourteen miles for which a	32,200
	subsidy was granted by the Act 50 and 51 Victoria, chapter 24, to the Tobique Valley Railway Company, from Perth Centre towards Plaister Rock Island, eleven miles, a subsidy not	
228.	exceeding \$3,200 per mile, nor exceeding in the whole To the Orford Mountain Railway Company, for thirty one miles of their railway, between Eastman and Kingsbury, a subsidy not	35,200
	exceeding \$3,200 per mile, nor exceeding in the whole	99,200
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 fifteen miles, a subsidy not exceeding \$3,200 per mile, nor	,
	exceeding in the whole	48,000

"The subsidies hereinbefore mentioned as to be granted to companies named for that purpose, shall be granted to such companies respectively; the other subsidies,

including subsidies granted for railways over a line extending beyond a point to which any company hereinbefore mentioned by name is authorized to construct its railway, shall be granted to such companies as shall be approved by the Governor in Council as having established to his satisfaction their ability to construct and complete the said railways respectively. All the lines for the construction of which subsidies are granted shall be commenced within two years from the first day of July next, and completed within a reasonable time, not to exceed four years, to be fixed by Order in Council, except the Erie and Huron Railway, which shall be completed within two years from the first day of July next. And they shall also be constructed according to descriptions and specifications, and upon conditions to be approved by the Governor in Council, on the report of the Minister of Railways and Canals, and specifying an agreement to be made in each case by the company with the Government, and which the Government is hereby empowered to make. The location, also, of every such line of railway shall be subject to the approval of the Governor in Council. And all the said subsidies respectively shall be payable out of the Consolidated Revenue Fund of Canada, by instalments, on the completion of each section of the railway of not less than ten miles, proportionate to the value of the portion so completed in comparison with that of the whole work undertaken, to be established by the report of the said Minister, or upon the completion of the work subsidized—except as regards the Erie and Huron Railway Company, upon which payment shall be made only upon the completion of the work—except, also as regards the subsidies to the Inverness and Richmond Railway, which shall be paid on the completion of each ten mile section, in accordance, as nearly as practicable, with the agreement between the company and the municipality of Inverness, and with section four of the Act of the Legislature of Nova Scotia, 1890, intituled: An Act to enable the county of Inverness to borrow money—except, also, as regards the subsidies to the Great Eastern Railway Company for bridges over the Nicolet and St. Francis Rivers, and to the Quebec and Lake St. John Railway for the bridge over the St. Charles River. upon which shall be paid fifteen per cent of the value of work done, on monthly progress estimates certified by the Chief Engineer and upon the approval of the Minister of Railways and Canals—and except also the subsidy granted to the Quebec Central Railway Company, the first annual payment upon which shall be made at the end of twelve months from the date of the Chief Engineer's certificate of the completion of the work, and each subsequent payment at the end of each twelve months thereafter, for the term of twenty years.

"The granting of such subsidies to the companies mentioned, respectively, shall be subject to such conditions for securing running powers or traffic arrangements or other rights as will afford all reasonable facilities and equal mileage rates to all railways connecting with those subsidized, as the Governor in Council determines."

By the special Act 53 Vic., ch. 5, 1890 (Assented to 16th May, 1890):-

230. In order to enable the Calgary and Edmonton Railway Company to construct so much of their railway as reaches from a point on the line of the Canadian Pacific Railway Company within the town of Calgary to a point on the North Saskatchewan River near Edmonton, the Governor in Council may enter into a contract with such company for the transport of men, supplies, materials and mails for twenty years, and may pay for such services during the said term, eighty thousand dollars per annum, in manner following, that is to say: the sum of eighty thousand dollars to be paid annually on the construction of the railway from Calgary to a point on the North Saskatchewan River near Edmonton,—such payment to be computed from the date of the completion of the railway between such points: Provided that the Governor General in Council may order such sums to be paid in semi-annual instalments, and may permit the company to assign the same by way of security for any bonds or securities which may be issued by the company in respect of the company's undertaking.

By 54-55 Victoria, ch. 8, 1891 (Assented to 30th Sept., 1891):-

231. To the Great Northern Railway Company, for a railway from a point at or near New Glasgow or St. Lin to or near to Montcalm, in the province of Quebec, eighteen miles, the balance

232.	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	\$ 28,100 00
233.	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
234.	chapter twenty-four, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	22,400 00
235.	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 in the whole	92,784 00
236.	passed in the session held in the fiftieth and fifty-first years of Her Majesty's reign, chapter twenty-four, not exceeding in the whole	79,700 00
237.	amount granted by the Act fifty-second Victoria, chapter three, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	158,400 00
238.	passed in the session held in the fiftieth and fifty-first years of Her Majesty's reign, chapter twenty-four, not exceeding in the whole	46,040 00
239	years of Her Majesty's reign, chapter twenty-four, a subsidy not exceeding \$6,400 per mile, nor exceeding in the whole 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 three, and fifty-third Victoria, chapter two, a subsidy not exceeding \$12,534 per annum, to be paid in semi-annual instalments of	89,600 00
	\$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 said railway a semi-annual subsidy may be paid proportionate to the value of the portion so completed in comparison with that of the whole fifty-six miles; Provided also, that the company may deposit with the Minister of Finance and Receiver General a sum not exceeding \$1,170,000, in consideration whereof there shall be paid to the company, for twenty years, a semi-annual annuity calculated on a basis of three and one-half per cent on the amount so deposited; Provided further, that the Governor in Council may permit the company to assign the said subsidy and annuity to trustees by way of security for any bonds or securities which may be issued by the company in respect of their undertaking."

\$64,000 00

"Provided that the subsidy hereby granted to the Brockville, Westport and Sult Ste. Marie Railway Company may be paid by instalments, on the completion of each section of the railway as follows, that is to say:—

Sections.	Length in miles.
From, at or near Newboro' to Westport	. `4
From Westport towards Palmers Rapids	. 16

"The subsidies hereinbefore mentioned as to be granted to companies named for that purpose shall be granted to such companies respectively; all the lines for the construction of which subsidies are granted, unless they are already commenced, shall be commenced within two years from the first day of August next, and completed within a reasonable time, not to exceed four years, to be fixed by Order in Council; and shall also be constructed according to descriptions and specifications and upon conditions to be approved by the Governor in Council, on the report of the Minister of Railways and Canals and specified in an agreement to be made in each case by the company with the Government, and which the Government is hereby empowered to make; the location, also of every such line of railway, shall be subject to the approval of the Governor in Council; and all the said subsidies respectively shall be payable out of the Consolidated Revenue Fund of Canada, by instalments, on the completion of each section of the railway of not less than ten miles, proportionate to the value of the portion so completed in comparison with that of the whole work undertaken, to be established by the report of the said Minister, or upon the completion of the work subsidized—except as to the subsidy granted to the Kingston, Smith's Falls and Ottawa Railway Company, the first semi-annual payment upon which shall be made at the end of six months from the date of the Chief Engineer's certificate of the completion of twenty-eight miles of the railway, and each subsequent payment at the end of each six months thereafter, for the term of twenty years,—except also as to the Quebec and Lake St. John Railway Company, the subsidy to which shall be paid upon the completion of the work,—except also as to the Brockville, Westport and Sault Ste. Marie Railway Company, the subsidy to which shall be paid as follows: on the completion of that portion of the said road from, at or near Newboro' to Westport, a distance of four miles, the sum of twelve thousand eight hundred dollars, and on the completion of the remaining sixteen miles from Westport towards Palmer's Rapids, the sum of fifty-one thousand two hundred dollars.

"Within one month after the commencement of each session of Parliament, whilst any of the said moneys are being paid out, there shall be laid before Parliament a statement showing all payments of such moneys during the then next preceding year, the names of the respective persons to whom such payments have been made, and the amounts paid them respectively, together with the engineer's report upon which pay-

ments have been recommended, and copies of all contracts between the Government

and the company under which the said subsidies are authorized to be paid.

"The granting of such subsidies respectively shall be subject to such conditions for securing such running power or traffic arrangements and other rights as will afford all reasonable facilities and equal mileage rates to all railways connecting with those so subsidized, as the Governor in Council determines.

By the Act 55-56 Victoria, chap. 5, 1892 (Assented to 9th July, 1892)) : :	
 241. To the Lake Erie and Detroit River Railway Company, for fifty-eight miles of their railway from a point at or near Cedar Creek to the town of Ridgetown, in lieu of the subsidies granted to the Lake Erie and Detroit River Railway Company by the Act 53 Victoria, chapter 2, and to the Amherstburg, Lake Shore and Blenheim Railway Company by the Act 52 Victoria, ch. 3. 242. To the Ottawa, Arnprior and Parry Sound Railway Company, for fifty-five miles of their railway from Barry's Bay towards the Northern Pacific Junction Railway, a subsidy not exceeding \$6,400 per mile on the first twenty-seven and a half miles out from Barry's Bay, and not exceeding \$3,200 per mile on the second twenty-seven and a half miles, nor exceeding in the rabele. 		
whole 243. To the Canadian Pacific Railway Company or to the Columbia and Kootenay Railway and Navigation Company, for a railway from a point on the Canadian Pacific Railway at or near Revelstoke to the head of Arrow Lake, for twenty-five miles of such railway, a subsidy not exceeding \$3,200 per mile, nor	264,000	٠
exceeding in the whole	9,600	
\$3,200 per mile, nor exceeding in the whole	67,200	
246. To the Ontario, Belmont and Northern Railway Company, for ten miles of their railway from the Belmont iron mines to the Canadian Pacific Railway and the Central Ontario Railway, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	32,000	
 247. To the Montreal and Champlain Junction Railway Company, the balance remaining unpaid of the subsidies granted by the Acts 50-51 Victoria, chapter 24, and 51 Victoria, chapter 3, a subsidy of	15,100	00
miles of their railway from Moncton to Buctouche, the balance 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
and Quebec Railway (in addition to the subsidy granted by the Act 53 Victoria, chapter 2), a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	60,800	00

250 .	For a railway from the parish of St. Rémi, in the county of		
	Napierville, to St. Cyprien in the said county, for twelve miles of such railway, a subsidy not exceeding \$3,200 per mile, nor		
	exceeding in the whole	\$ 38,400	00
251 .	To the Inverness and Richmond Railway Company (or any other	Ç 00,100	00
	company undertaking the work), for twenty-five miles of their		
	railway from a point on the Cape Breton Railway, at or near		
	Orangedale, to Broadcove, a subsidy not exceeding \$3,200 per		
	mile, in lieu of the subsidy of \$50,000 granted to the said railway company by 53 Victoria, chapter 2, and on the same condi-		
	tions, not exceeding in the whole	80,000	00
252 .	To the Nicola Valley Railway Company, for twenty-five miles of	00,000	
	their railway from a point on the Canadian Pacific Railway at		
050	or near Spence's Bridge towards Nicola Lake	80,000	00
203.	To the Lotbinière and Megantic Railway Company, for fifteen miles of their railway from a point at or near St. Jean Deschail-		
	lons towards Glen Lloyd, a subsidy not exceeding \$3,200 per		
	mile, nor exceeding in the whole	48,000	00
254 .	To the Stewiacke and Lansdowne Railway Company, for a railway	·	
	from a point on the Intercolonial Railway, through the Stewiacke		
	Valley, on a line which will afford facilities of communication with the iron mines at Springside, Upper Stewiacke and Musquo-		
	doboit settlements, twenty-five miles, in lieu of the subsidy		
	granted by the Act 53 Victoria, chapter 2, a subsidy not ex-		
~	ceeding \$3,200 per mile, nor exceeding in the whole	80,000	00
255 .	To the Philipsburg Junction Railway and Quarry Company, for six and seven-hundredths miles of their railway from Stanbridge		
	Station to Philipsburg, in the county of Missisquoi, a subsidy		
	not exceeding \$3,200 per mile, nor exceeding in the whole	21,600	00
256 .	To the Kingston, Napanee and Western Railway Company, for	,	
	three miles of their railway from a point at or near Harrowsmith		
	to a point at or near Sydenham, in lieu of the subsidy granted for this section of road by the Act 52 Victoria, chapter 3, a		
	subsidy not exceeding \$3,200 per mile, nor exceeding in the		
	whole	9,600	00
257 .	For a railway from Cape Tourmente towards Murray Bay, in the		
	province of Quebec, twenty miles, in lieu of the subsidy granted by the Act 52 Victoria, chapter 3, a subsidy not exceeding		
	\$3,200 per mile, nor exceeding in the whole	64,000	00
258 .	To the Stewiacke and Lansdowne Railway Company, for a railway	01,000	•
	from Truro, or a point between Truro and Stewiacke, to New-		
	port or to Windsor, in the province of Nova Scotia, for forty-		
	nine miles of such railway, in lieu of the subsidy granted by the Act 52 Victoria, chapter 3, a subsidy not exceeding \$3,200 per		
	mile, nor exceeding in the whole	156,800	00
259 .	To the Restigouche and Victoria Railway Company, for fifteen	,	
	miles of their railway from Campbelton towards Grand Falls,		
	a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	40.000	00
260.	For a railway from St. Johns to Ste. Rosalie, thirty-two miles, a	48,000	UU
~ ~ ~ .	subsidy not exceeding \$3,200 per mile, nor exceeding in the		
	whole	102,400	00
261 .	For a railway from St. Placide to St. Andrew's, eight miles, a sub-		
269	sidy not exceeding \$3,200 per mile, nor exceeding in the whole. For a railway to complete the connection between Sydney and	25,600	00
~~.	Louisburg, in the county of Cape Breton, for twenty-eight miles		
	of such railway, a subsidy not exceeding \$3,200 per mile, nor		
	exceeding in the whole	89,600	00

263. To the Belleville and Lake Nipissing Railway Company, for thirty miles of their railway from Belleville to Tweed and thence to Bridgewater, in lieu of the subsidy granted by the Act 53 Victoria, chapter 2, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole......

\$ 96,000 00

264. To the Kingston, Smith's Falls and Ottawa Railway Company, for fifty-six miles of their railway from the city of Kingston to Smith's Falls, in lieu of the subsidies, not to exceed \$179,200, granted by the Acts 52 Victoria, chapter 3, and 53 Victoria, chapter 2, a subsidy calculated on a basis of three and a half per cent on the amount of such subsidies so granted, to be paid in semi-annual instalments for such period not exceeding twenty-one years, as the company may elect, which represents a grant in cash of

179,200 00

"Provided, that upon the completion of twenty-eight miles of the said railway a semi-annual subsidy may be paid proportionate to the value of the portion so completed in comparison with that of the whole fifty-six miles: Provided also, that the company may deposit with the Minister of Finance and Receiver General, a sum not exceeding \$1,170,000, in consideration whereof there shall be paid to the company for such period not exceeding twenty years as the company may elect, a semi-annual annuity calculated on a basis of three and a half per cent on the amount so deposited. Provided further, that the Governor in Council may permit the company to assign the said subsidy and annuity to trustees by way of security for any bonds or securities which may be issued by the company in respect of their undertaking."

265. To the St. Catharines and Niagara Central Railway Company, for thirty-four miles of their railway from the city of St. Catharines to the city of Hamilton, in lieu of the subsidies, not to exceed \$108,000, granted by the Acts 52 Victoria, chapter 3, and 53 Victoria, chapter 2, a subsidy calculated on a basis of three and a half per cent on the amount of the said subsidies, to be paid in semi-annual instalments for such period, not exceeding twenty years, as the company may elect, representing a grant in cash of \$108,000: Provided that, upon the completion of ten miles of said railway, a semi-annual subsidy may be paid proportionate to the value of the portion so completed in comparison with that of the whole thirty-four miles. Provided also, that the company may deposit with the Minister of Finance and Receiver General a sum not exceeding \$400,000, in consideration whereof there shall be paid by the Government to the company, for such period not exceeding twenty years, as the company may elect, a semi-annual annuity, calculated on a basis of three and a half per cent on the amount so deposited, or a guarantee of a like sum, as interest on the bonds of the company: Provided further, that the company, with the approval of the Governor in Council, may assign the said subsidy and annuity to trustees by way of security for principal, or interest of any bonds or securities which may be issued by the company in respect of their undertaking, and the subsidy last above mentioned to the St. Catharines and Niagara Central Railway Company shall be paid in instalments, the first semi-annual payment upon which shall be made at the end of the six months from the date of the Chief Engineer's certificate of the completion of the first ten miles of railway, and each subsequent payment at the end of six months thereafter, for the term of twenty years or less. It is a condition of this subsidy that the sum not exceeding \$400,000 above mentioned shall be deposited with the Finance Minister before January 1st, 1893.

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266. To the Woodstock and Centreville Railway Company, for a rail-	
way from Woodstock towards Centreville, twenty miles, in lieu of the subsidy granted by 50-51 Victoria, chapter 24, a subsidy	
not exceeding \$3,200 per mile, nor exceeding in the whole	\$64,000 00
267. To the Brockville, Westport and Sault Ste. Marie Railway Com-	,
pany, for the balance remaining unpaid of the subsidy granted	
by the Act 52 Victoria, chapter 3, not exceeding \$3,200 per	
mile, and also for the balance remaining unpaid of the subsidy granted by the Act 53 Victoria, chapter 2, nor exceeding in the	
whole	96,800 00
268. To the New Glasgow Iron, Coal and Railway Company, for a	•
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, for twelve and a half miles	
of such railway, a subsidy not exceeding \$3,200 per mile, nor	
exceeding in the whole	40,000 00
269. To the Thousand Island Railway Company, for an extension of	
their railway to connect with the Brockville, Westport and	
Sault Ste. Marie Railway, the Kingston, Napanee and Western Railway, the Kingston, Smith's Falls and Ottawa Railway, or	
the waters of the Rideau Canal, and an extension across the	
mouth of the Gananogue River, the balance remaining unpaid	
of the subsidy granted by the Act 52 Victoria, chapter 3, not	44.000.00
exceeding in the whole	44,000 00
the balance of said subsidy, being \$30,000, on the completion of the fi	rst named or
northern extension of their railway.	
270. To the Manitoulin and North Shore Railway Company, for thirty	
miles of their railway from Little Current to the Algoma Branch	
of the Canadian Pacific Railway, in lieu of the subsidy granted by the Act 53 Victoria, chapter 2, a subsidy not exceeding	
\$3,200 per mile, nor exceeding in the whole	\$96,000 00
271. To the Lindsay, Bobcaygeon and Pontypool Railway Company, for	•
sixteen miles of their railway from the end of the line subsidized	
by the Act 53 Victoria, chapter 2, at the junction with the Midland Railway, to Pontypool, a subsidy not exceeding \$3,200	
per mile, nor exceeding in the whole	51,200 00
272. For seventy-five 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 Scotia Central Railway, with a view to future con-	
struction 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 Anna-	
polis, a subsidy not exceeding \$3,200 per mile, nor exceeding in	240,000 00
273. To the Kingston, Napanee and Western Railway Company, for	240,000 00
twenty 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	
per mile, payable in instalments regulated by the length of each of the said extensions, additions or branches, the subsidy not	
exceeding in the whole	64,000 00
274. To the St. John Valley and Rivière du Loup Railway Company,	·
for ten miles of their railway from the north end of the line	
subsidized by the Act 53 Victoria, chapter 2, towards the town	
of Woodstock, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	48,000 00
exceeding in and antoio	±0,000 00

275.	To the Cobourg, Northumberland and Pacific Railway Company, for thirty miles of their railway from Cobourg to the Ontario and Quebec Railway, in lieu of the subsidy granted by the Act 53		
276.	Victoria, chapter 2, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	\$ 96,000	00
277.	a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	96,000	00
278.	the Act 51 Victoria, chapter 3, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	70,400	00
279 .	chapter 3, and 53 Victoria, chapter 2, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole To the Témiscouata Railway Company, for twelve miles of their railway from the north end of the section of the St. François Branch subsidized by the Act 51 Victoria, chapter 3, being the	112,000	00
060	first twelve miles on the section subsidized by the Act 53 Victoria, chapter 2, a subsidy not exceeding \$1,800 per mile, in addition to the subsidy already granted, and not exceeding in the whole	21,600	00
	sixteen miles of their railway from Port Burwell to Tilsonburg, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	51,200	00
281.	To the Woodstock and Centreville Railway Company, for six miles of their railway from the west end of their twenty miles subsidized by the Act 50-51 Victoria, chapter 24, to the international boundary between the province of New Brunswick and the state of Maine, in lieu of the subsidy granted by the Act 53		
282.	Victoria, chapter 2, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	19,200	00
283	mile—and a subsidy of fifteen per cent on the value of a wooden truss bridge over the Ottawa River near Mattawa, not exceeding \$15,000,—nor exceeding in the whole	63,000	00
284	Albert, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	99,200	00
285	ing in the whole	25,600	00
286	miles of their railway from Bracebridge towards Baysville, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole. To the Nipissing and James Bay Railway Company, for twenty-five miles of their railway from, at or near North Bay station on	48,000	00

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 fifty miles of such railway, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	\$ 80,000 00
288. To the Ontario and Pacific Railway Company, for fifty-three and eighty-seven hundredths miles of their railway from Cornwall to Ottawa, in lieu of the subsidy granted by the Act 52 Victoria, chapter 3, a subsidy not exceeding \$3,200 per mile, nor exceed-	100,000 00
ing in the whole	172,400 00
exceeding \$3,200 per mile, nor exceeding in the whole 290. For a railway from St. Eustache to St. Placide, in the county of Two Mountains, for eighteen miles of such railway, in lieu of the subsidy granted by the Act 49 Victoria, chapter 10, a subsidy	38,400 00
not exceeding \$3,200 per mile, nor exceeding in the whole 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	57,600 00
paid, \$3,200 per mile, nor exceeding in the whole 292. To the Drummond County Railway Company for four and sixtenths 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	114,125 00
per mile, not exceeding in the whole	14,720 00
whole	25,024 00

"The subsidies hereinbefore mentioned as to be granted to companies named for that purpose shall, if granted by the Governor in Council, be granted to such companies respectively; the other subsidies may be granted to such companies as shall be approved by the Governor in Council as having established to his satisfaction their ability to construct and complete the said railways respectively; all the lines for the construction of which subsidies are granted, unless they are already commenced, shall be commenced within two years from the first day of August next, and completed within a reasonable time, not to exceed four years, to be fixed by Order in Council, and shall also be constructed according to descriptions and specifications, and upon conditions to be approved by the Governor in Council, on the report of the Minister of Railways and Canals, and specified in an agreement to be made in each case by the company with the Government, which agreement the Government is hereby empowered to make; the location also of every such line of railway shall be subject to the approval of the Governor in Council; and all the said subsidies respectively shall be payable out of the Consolidated

Revenue Fund of Canada, by instalments, on the completion of each section of the railway of not less than ten miles, proportionate to the value of the portion so completed in comparison with that of the whole work undertaken, to be established by the report of the said Minister, or upon the completion of the work subsidized,—except as to subsidies with respect to which it is hereinbefore otherwise provided, and except also as to the subsidy granted to the Kingston, Smith's Falls and Ottawa Railway Company, and the subsidy granted to the St. Catharines and Niagara Central Railway Company, the first semi-annual payments upon both of which shall be made at the end of six months from the date of the Chief Engineer's certificate of the completion of their railways respectively, and each subsequent payment at the end of each six months thereafter, for the term of twenty years or less.

"The granting of such subsidies respectively shall be subject to such conditions for securing such running powers or traffic arrangements and other rights as will afford all reasonable facilities and equal mileage rates to all railways connecting with those so

subsidized, as the Governor in Council determines."

294. Notwithstanding the expiration of the time limited by the Act 47 Victoria, chapter 8, and by the contract entered into with the Pontiac Pacific Junction Railway Company, the Governor in council may pay the balance remaining unpaid of the subsidy granted by the said Act to the said company, according as it becomes due and payable in accordance with the said contract, and subject to the terms and conditions applicable to the said subsidy under the terms of the said Act.

295. Notwithstanding the expiration of the time limited by the Act 52 Victoria, chapter 3, and by the contract entered into with the Quebec and Lake St. John Railway Company, the Governor in Council may pay the balance remaining unpaid of the subsidy granted by the said Act to the said company, according as it becomes due and payable in accordance with the said contract, and subject to the terms and conditions applicable to the said subsidy under the terms of the said Act; and notwithstanding anything contained in the Act 50-51 Victoria, chapter 24, the Governor in Council may also pay to the said company the balance remaining unpaid of the subsidy granted to the company by the said Act, amounting to \$12,800, on the four miles of their road from the north end of the main line subsidized towards Roberval.

By the Act 56 Vic., chap. 2, 1893 (Assented to 1st April, 1893):-

\$ 64,000 00

102,400 00

298. To the Ontario, Belmont and Northern Railway Company, for ten miles of their railway, divided into two sections: first, from the Belmont Iron Mines to Marmora village; second, from Marmora village to the junction with the Ontario Central Railway, in lieu of the subsidy granted by the Act 55-56 Victoria, chapter 5, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole.

32,000 00

299. To the Central Ontario Railway Company, for twenty miles of their railway, from Coe Hill or Gilmore, or some point between

	Coe Hill and Gilmore, to Bancroft, via L'Amable, or as near thereto as practicable, in lieu of the subsidy granted by the Act 48-49 Victoria, chapter 59, a subsidy not exceeding \$3,200 per	
300 .	mile, nor exceeding in the whole	\$ 64,000 00
301 .	Act 51 Victoria, chapter 3, not exceeding in the whole To the Irondale, Bancroft and Ottawa Railway Company, for fifty miles of their railway, from the Victoria branch of the Midland Railway to the village of Bancroft, in the county of Hastings,	81,040 00
900	the balance remaining unpaid of the subsidy granted by the Act 47 Victoria, chapter 8, and again granted by the Act 52 Victoria, chapter 3, not exceeding in the whole	145,000 00
302 .	To the Beauharnois Junction Railway Company, for thirty miles of their railway, from Ste. Martine towards St. Anicet, the balance remaining unpaid of the subsidy granted by the Act 50-51 Victoria, chapter 24, not exceeding in the whole	3,500 00
303 .	To the St. Stephen and Milltown Railway Company, for three and a half miles of their railway, from the town of St. Stephen to the town of Milltown, in lieu of the subsidy granted by the Act	3,300 00
304 .	53 Victoria, chapter 2, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	11,200 00
942	River St. Charles, to or near to Cape Tourmente, in the province of Quebec, the balance remaining unpaid of the subsidy granted by the Act 52 Victoria, chapter 3, not exceeding in the whole.	30,400 00
	To the Ottawa and Gatineau Valley Railway Company, for sixty- two miles of their railway, from Hull station towards Le Désert, the balance remaining unpaid of the subsidy granted by the Act 52 Victoria, chapter 3, not exceeding in the whole	89,248 00
306 .	To the Grand Trunk, Georgian Bay and Lake Erie Railway Company, for fifteen miles of their railway, from the village of Tara, or some point between Tara and Hepworth, to the town of Owen Sound, in the province of Ontario, in lieu of the subsidy	
307 .	granted by the Act 52 Victoria, chapter 3, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	48,000 00
	acting Minister of Justice are entitled to the same) for eighty miles of their railway, from Lunenburg, on the east coast of Nova Scotia, westward to a point in the district of New Germany, together with a spur about three-fourths mile long to	
	Bridgewater railway wharf, and from a point thirty-three and a half miles from Lunenburg and running to Middleton on the Windsor and Annapolis Railway, of unpaid subsidies granted by the Acts 50-51 Victoria, chapter 24, and 51 Victoria, chapter	
30 8.	3, an amount not exceeding in the whole	4,500 00
309 .	remaining unpaid of the subsidy granted by the Act 54-55 Victoria, chapter 8, not exceeding in the whole	25,600 00

	Railway between Joliette and St. Félix de Valois, in lieu of the			
	subsidy granted by the Act 53 Victoria, chap. 2, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	æ	48,000	00
210	To the Montfort Colonization Railway Company, for twenty-one	Ψ	40,000	00
OIV.	miles of their three-feet gauge railway from Lachute, St. Jérôme,			
	or a point at or near St. Sauveur, on the line of the Montreal			
	and Western Railway, to Montfort and westward, in lieu of the			
	subsidy granted by the Act 55-56 Victoria, chapter 5, a subsidy			
	not exceeding \$3,200 per mile, nor exceeding in the whole		67,200	00
311.	To the Maskinongé and Nipissing Railway Company, for fifteen			
	miles of their railway, from a point on the Canadian Pacific			
	Railway at or near Maskinongé or Louiseville, towards the parish of St. Michel des Saints, on the river Mattawa, in the			
	province of Quebec, and for fifteen miles of their railway from			
	the north end of the fifteen miles above referred to, towards			
	the parish of St. Michel des Saints on the river Mattawa, in the			
	province of Quebec, in lieu of the subsidies granted by the Acts			
	52 Victoria, chap. 3, and 53 Victoria, chap. 2, a subsidy not			
	exceeding \$3,200 per mile, nor exceeding in the whole		96,000	00
312.	To the Parry Sound Colonization Railway Company, for forty			
	miles of their railway, from the village of Parry Sound to the			
	village of Sundridge, or some other point on the Northern Paci-			
	fic Junction Railway, in the province of Ontario, the balance remaining unpaid of the subsidy granted by the Act 52 Victoria,			
	chapter 3, not exceeding in the whole		97,600	00
313.	To the Jacques Cartier Union Railway Company, for extending		••,•••	•
010.	and completing their railway, in lieu of the subsidy granted by			
	the Act 50-51 Victoria, chapter 24, a subsidy of		20,000	00
314	To the Oshawa Railway Company, for seven miles of their railway			
	and branches as follows: from Port Oshawa to a point at or			
	near Edmondson's Falls mill site, near Mill Street, in the town			
	of Oshawa (this portion being known as the "Lake" section of the said railway); thence to a point at or near the town hall			
	in the town of Oshawa, and thence to the Oshawa station of the			
	Grand Trunk Railway Company of Canada (this portion being			
	known as the "Town" or "Northern" section of the said rail-			
	way)-in lieu of the subsidy granted by the Act 54-55 Victoria,			
	chapter 8, a subsidy not exceeding \$3,200 per mile, nor exceed-			
	ing in the whole		22,400	00

"All the lines for the construction of which subsidies are granted, unless they are already commenced, shall be commenced within two years from the first day of August next, and completed within a reasonable time, not to exceed four years, to be fixed by Order in Council, and shall also be constructed according to descriptions and specifications and upon conditions to be approved by the Governor in Council, on the report of the Minister of Railways and Canals, and specified in an agreement to be made in each case by the company with the Government, which agreement the Government is hereby empowered to make; the location, also, of every such line of railway shall be subject to the approval of the Governor in Council.

"The granting of such subsidies respectively shall be subject to such conditions for securing such running powers or traffic arrangements and other rights as will afford all reasonable facilities and equal mileage rates to all railways connecting with those so subsidized, as the Governor in Council determines.

"All the said subsidies respectively shall be payable out of the Consolidated Revenue Fund of Canada, by instalments on the completion of each section of the railway of not less than ten miles, proportionate to the value of the portion so completed in comparison with that of the whole work undertaken, to be established by the report of the said Minister, or upon the completion of the work subsidized,—except as follows:—

"(a.) The subsidy to the Ontario, Belmont and Ottawa Railway Company, which shall be paid as follows: on the completion of the first section, an instalment proportionate to the value of the said section in comparison with that of the ten miles hereby subsidized, to be established as aforesaid, and the balance of the said subsidy on the completion of the second section;

"(b.) The subsidy to the Oshawa Railway Company, which shall be paid as follows: on the completion of the "Town" or "Northern" section, an instalment proportionate to the value of the said section in comparison with that of the seven miles hereby subsidized, to be established as aforesaid, and the balance of the said subsidy, on the completion of the "Lake" section of the said railway."

protein of the Lane Booton of the Bara railway.	
By the Act 57-58 Vic., cap. 4, 1894. (Assented to, 23rd July, 1894).	·
 315. To the Bracebridge and Baysville Railway Company, for fifteen miles of their railway from Bracebridge towards Baysville, in lieu of the subsidy granted by chapter 5 of 1892, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole 316. To the Brockville, Westport and Sault Ste. Marie Railway, the balance remaining unpaid of the subsidy granted by chapter 3 of 1889, not exceeding \$3,200 per mile, and also the balance remaining unpaid of the subsidy granted by chapter 2 of 1890, which was re-granted by chapter 5 of 1892; the whole not ex- 	\$ 48,000
ceeding	86,800
317. To the Tilsonburg, Lake Erie and Pacific Railway Company, for	00,000
sixteen miles of their railway, from Port Burwell to Tilsonburg,	
in lieu of the subsidy granted by chapter 5 of 1892, a subsidy	
not exceeding \$3,200 per mile, nor exceeding in the whole	51,200
318. To the Brantford, Waterloo and Lake Erie Railway Company, for	01,200
eighteen miles of their railway, from the town of Brantford to	
the village of Hagarsville or the village of Waterford, or some	
intermediate point on the Canada Southern Railway, the balance	
remaining unpaid of the subsidy granted by chapter 24 of 1887,	
not exceeding \$3,200 per mile, nor exceeding in the whole	4,790
319. To the St. Catharines and Niagara Central Railway Company, for 34	,
miles of their railway from the city of St. Catharines to the city of	
Hamilton, a subsidy not exceeding \$3,200 per mile, nor exceeding	
in the whole	108,800
320. To the Montreal and Ottawa Railway Company (formerly the	•
Vaudreuil and Prescott Railway Company), for thirty miles	
of their railway from Vaudreuil towards Hawkesbury, the	
balance remaining unpaid of the subsidy granted by chapter 24	
of 1887; and for 30 miles of their railway from the western end	
of the 30 miles first mentioned towards Ottawa, the balance re-	
maining unpaid of the subsidy granted by chapter 2 of 1890,	
not exceeding \$3,200 per mile; the whole not exceeding	118,400
321 Notwithstanding the expiration of the time limited by chapter 2	
of 1890, and by the contract entered into with the Quebec Cen-	
tral Railway Company, and notwithstanding anything otherwise	
in the said chapter 2 contained, the Governor in Council may	
pay the subsidy granted by the said chapter to the said company	
at the present worth of the twenty annual payments mentioned in the said chapter (interest computed at four per cent), for and	
upon the completion of its railway extending from a point be-	
tween the Chaudière River and Tring Station to a point on the	
International Railway at or near Lake Megantic, and upon the	
inspection and acceptance of the same by the Chief Engineer of	
Railways and Canals, the sum in all of	288,000
There is all the contract of t	200,000

322.	To the Philipsburg Junction Railway and Quarry Company, for \$\frac{67}{100}\$ mile of their railway from Stanbridge Station to Philipsburg, in the county of Missisquoi and a branch to Missisquoi Bay, the balance remaining unpaid of the subsidy granted by chapter 5 of 1892, not exceeding \$3,200 per mile, nor exceeding in the whole.	\$ 2,912
323.	To the Joliette and St. Jean de Matha Railway Company, for 8 miles of their railway from St. Félix de Valois to St. Jean de Matha, in lieu of the subsidy granted by chapter 5 of 1892, a subsidy not exceeding \$3,200 per mile, nor exceeding in the	
324.	whole	23,600
325 .	ceeding For a railway from St. Placide to St. Andrews, 8 miles, in lieu of the subsidy granted by chapter 5 of 1892, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	274,940 25,600
326 .	For a railway from St. Eustache to St. Placide, in the county of Two Mountains, for 18 miles of such railway, in lieu of the subsidy granted by chapter 5 of 1892, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	57,600
327 .	For a railway from a point on the line of the Canadian Pacific Railway on Isle Jésus, in the county of Laval, towards St. Eustache, for 12 miles of such railway, in lieu of the subsidy granted by chapter 5 of 1892, to the Carillon and Grenville Railway Company, for 12 miles of their railway, from St. Eustache to Sault au Récollet, a subsidy not exceeding \$3,200 per mile, nor	07,000
328.	exceeding in the whole	38,400
329 .	the whole	38,400 41,100

	To the Pontiac Pacific Junction Railway Company, for the construction or acquisition of $7\frac{1}{2}$ miles of railway, from Hull to Aylmer, in lieu of the subsidy granted by chapter 2 of 1890, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole. To the Pontiac Pacific Junction Railway Company, for 85 miles of their railway from Aylmer to Pembroke, the balance remaining unpaid of the subsidy granted by chapter 8 of 1884, less the subsidy granted for the line from Hull to Aylmer, provided the	\$ 24,000
332.	Ottawa River is crossed at some point not east of Lapasse, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole To the Harvey Branch Railway Company, for 3 miles of their railway from the southern terminus of the Albert Railway to Harvey Bank, the balance remaining unpaid of the subsidy granted by chapter 24 of 1887, not exceeding \$3,200 per mile,	73,172
333.	nor exceeding in the whole	4,046
334 .	1886, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	19,200
335 .	in the whole	16,000
336.	chapter 2 of 1890 a subsidy not exceeding \$3,200 per mile nor exceeding in the whole	83,200
337.	subsidy of 15 per cent on the value of the structure; the whole not exceeding	300,000
338 .	Bay towards Lake Tamagaming, a subsidy not exceeding \$3,200 per mile; the whole not exceeding	217,000
339 .	ing in the whole	48,000 96,000
	2 4.1 L	30,000

340. For a railway from Lime Ridge, in the county of province of Quebec, northerly through the county	
into the county of Megantic, a distance not exce from Lime Ridge, a subsidy not exceeding \$3,200 exceeding in the whole	eding 50 miles per mile, nor
the Grand Trunk Railway, a subsidy not exceed mile, nor exceeding in the whole	7, for 20 miles not exceeding
\$3,200 per mile, nor exceeding in the whole 843. To the Manitoulin and North Shore Railway Comiles of their railway from Little Current to I	mpany, for 10 Velson, on the
Algoma Branch of the Canadian Pacific Railway exceeding \$3,200 per mile, nor exceeding in the same and the United Counties Railway Company for 32 railway from Iberville to Sorel, in addition to	whole
already subsidized, a subsidy not exceeding \$3,20 exceeding in the whole	
L'Energie, a subsidy not exceeding \$3,200 per mi ing in the whole	e, nor exceed
railway, from the eastern end of the 15 miles chapter 2 of 1893 to a point between Joliette an Valois, a subsidy not exceeding \$3,200 per mile, in the whole	d St. Félix de nor exceeding
the 50 miles already subsidized and built eastwar at Chicoutimi, a subsidy not exceeding \$3,200 per 12 miles from the 52nd mile on the Chicoutimi br Bay, a subsidy not exceeding \$3,200 per mile;	mile; also for anch to Ha Ha the whole not
exceeding 348. To the Pontiac and Ottawa Railway Company, for their railway from the point of divergence from Railway to Ferguson's Point, a subsidy not exceed	or 23 miles of n the Pontiac
mile, nor exceeding in the whole	73,600 mpany, for 20 the 62 miles
 already subsidized towards Désert, a subsidy \$3,200 per mile, nor exceeding in the whole 350. To the Canada Eastern Railway Company for 6 mile way from the town of Chatham to Black Brook exceeding \$3,200 per mile; also for 4 miles of the 	
 a branch to the village of Nelson, a subsidy \$3,200 per mile; the whole not exceeding 351. For a railway from Cross Creek Station, on the CRailway to Stanley village, in the county of 	not exceeding
province of New Brunswick, 6 miles, a subsidy \$3,200 per mile, nor exceeding in the whole 352. To the Restigouche and Victoria Railway Company, their railway from the western end of the 15 m	not exceeding
by chapter 5 of 1892, towards Grand Falls, a substing \$3,200 per mile, nor exceeding in the whole.	dy not exceed-

353 .	To the Central Railway Company of New Brunswick, for 15 miles of their railway from Chipman station to the Newcastle coal fields, a subsidy not exceeding \$3,200 per mile, nor exceeding in	
354 .	To the Tobique Valley Railway Company, for 15 miles of their railway from the present terminus at Plaister Rock easterly, a subsidy not exceeding \$3,200 per mile, nor exceeding in the	48,000
355 .	whole	48,000
356.	of the bridge, but the grant not to exceed in the whole To the Boston and Nova Scotia Coal and Railway Company, for 10½ miles of their railway from the north end of the section already subsidized to Broad Cove, a subsidy not exceeding \$3,	50,000
	200 per mile; also for 25 miles of their railway from a point on the Cape Breton Railway at or near Orangedale towards Broad Cove, in lieu of the subsidy granted by chapter 5 of 1892, a	110,000
357 .	subsidy not exceeding \$3,200 per mile; the whole not exceeding For a railway from Port Hawkesbury towards Cheticamp, 25 miles, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole.	113,600 80,000
358.	To the Manitoba North-western Railway Company, for 100 miles of the extension of their main line from its present western terminus towards Prince Albert,—the company relinquishing 3,200 acres of the land grant per mile, and the whole road to be operated as a continuous line of railway under one management,	00,000
359.	a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	320,000
360.	Rivers to Coal Creek, a distance of 34 miles, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole For a railway from Abbotsford Station on the Mission Branch of	108,800
	the Canadian Pacific Railway to the town of Chilliwack, 21 miles, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	67,200
361.	To the Nicola Valley Railway Company, for 28 miles of their railway from the western end of the section of their road subsidized by chapter 5, of 1892, towards Nicola Lake, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	89,600
362	To the Nakusp and Slocan Railway Company, for 38 miles of their railway from the town of Nakusp to a point at or near the Forks of Carpenter Creek, a subsidy not exceeding \$3,200 per mile,	50, 555
363.	nor exceeding in the whole	121,600
364	ing in the whole	70,400
365	miles of their railway, from Sunnybrae to Kerrogare, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole To the South Shore Railway Company, for 35 miles of their rail-	16,000 00
366	way from Yarmouth towards Shelburne and Lockport, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole. To the Cape Breton Railway Extension Company, for 30 miles of railway from Port Hawkesbury to St. Peter's, on their line of	112,000 00
	railway from Port Hawkesbury to Louisbourg, a subsidy not exceeding \$3,200 per mile, nor exceeding in the whole	96,000 00

367 .	For a railway from a point on the Intercolonial Railway between Norton and Sussex Stations towards Havelock, 20 miles, a sub-			
	sidy not exceeding \$3,200 per mile, nor exceeding in the whole.	\$	64,000	00
368 .	For a railway from St. John to Barneville, for a distance of 10 miles, a subsidy not exceeding \$3,200 per mile, nor exceeding in			
	the whole		32,000	00
369 .	the whole		•	
	the Piles Branch of the Canadian Pacific Railway, 3 miles, a subsidy not exceeding \$3,200 per mile, nor exceeding in the			
	whole		9,600	00
370 .	To the Canada Eastern Railway Company, for an extension of one			
	mile from the western end of their railway, to connect with the Canadian Pacific Railway, a subsidy not exceeding		3,200	00
371 .	To the Great Northern Railway Company, for 30 miles of their		•	
	railway from its junction with the Lower Laurentian Railway near St. Tite, in the vicinity of the River St. Maurice, west-			
	ward, in lieu of the subsidy granted to the Maskinongé and			
	Nipissing Railway Company by chapter 2 of 1893, a subsidy not			00
970	exceeding \$3,200 per mile, nor exceeding in the whole To the Lindsay, Bobcaygeon and Pontypool Railway Company,		96,000	00
01Z.	for 16 miles of their railway from Bobcaygeon to the Midland			
	Railway, and for another 16 miles from the end of the first men-			
	tioned 16 miles to Pontypool, in lieu of the subsidies granted by chapter 2 of 1890, and chapter 5 of 1892, a subsidy not exceed-			
	ing \$3,200 per mile, nor exceeding in the whole]	102,400	00
373 .	To the Montfort Colonization Railway Company, for 12 miles of their railway from the end of the 21 miles already subsidized			
	westward to a point on the Rouge River, in the county of			
	Argenteuil, a subsidy not exceeding \$3,200 per mile, nor exceed-		00.400	•
274	ing in the whole		38,400	00
⊕ ('\$.	Pokemouche siding, towards Tracadie village, 12 miles, a subsidy			
	not exceeding \$3,200 per mile, nor exceeding in the whole		38,400	00

The subsidies hereinbefore mentioned as to be granted to companies named for that purpose shall, if granted by the Governor in Council, be granted to such companies respectively; the other subsidies may be granted to such companies as shall be approved by the Governor in Council as having established to his satisfaction their ability to construct and complete the said railways respectively; all the lines for the construction of which subsidies are granted, unless they are already commenced, shall be commenced within two years from the first day of August next, and completed within a reasonable time, not to exceed four years, to be fixed by Order in Council, and shall also be constructed according to descriptions and specifications and upon conditions to be approved by the Governor in Council, on the report of the Minister of Railway and Canals, and specified in an agreement to be made in each case by the company with the Government, which agreement the Government is hereby empowered to make; the location also of every such line of railway shall be subject to the approval of the Governor in Council.

The granting of such subsidies respectively shall be subject to such conditions for securing such running powers or traffic arrangements and other rights as will afford all reasonable facilities and equal mileage rates to all railways connecting with those so

subsidized, as the Governor in Council determines.

The said subsidies respectively shall be payable out of the Consolidated Revenue Fund of Canada, by instalments, on the completion of each section of the railway of not less than ten miles, proportionate to the value of the portion so completed in comparison with that of the whole work undertaken, to be established by the report of the said Minister, or upon the completion of the work subsidized,—except as to subsidies with respect to which it is hereinbefore otherwise provided, and except also as to the

subsidy granted to the Great Northern Railway Company by chapter two of 1893, for fifteen miles from Montcalm to the Canadian Pacific Railway, which shall be paid as follows: on the completion of the eighteen miles from New Glasgow to Montcalm and of two miles out of the fifteen miles from Montcalm to the Canadian Pacific Railway, an instalment proportionate to the value of the ten miles out of the total mileage subsubsidized by chapter two of 1893, to be established as aforesaid, and the balance of the said subsidy on the completion of the remaining thirteen miles of the said railway.

LAND SUBSIDIES.

By 47 Vic., chap. 25, clause 7, 1884 (Assented to 19th April, 1884):-

1. The Governor in Council is hereby authorized in aid of the construction of a railway from some point on the Canadian Pacific Railway to Hudson's Bay, to make a free grant of not more than six thousand four hundred acres for each mile of railway within Manitoba, and not more than twelve thousand eight hundred acres for each mile in the North-west Territories.

By 48-49 Vic., chap. 60, 1885 (Assented to 20th July, 1885):-

2. To the North-western Coal and Navigation Company (Limited), Dominion lands to an extent not exceeding three thousand eight hundred acres for each mile of the company's railway, from Medicine Hat to the coal banks on the Belly River, about one hundred and ten miles.

3. To the Manitoba and South-western Colonization Railway Company, Dominion lands to an extent not exceeding six thousand four hundred acres for each mile of the company's railway from its commencement at Winnipeg to its

terminus at Whitewater Lake, about one hundred and fifty miles.

4. To the Manitoba and North-western Railway Company, Dominion lands to the extent of six thousand four hundred acres for each mile of the company's railway, for the whole distance from Portage la Prairie to the crossing of the South Branch of the River Saskatchewan, twenty miles from Prince Albert, about four hundred and thirty miles.

5. To the Qu'Appelle, Long Lake and Saskatchewan Railroad and Steamboat Company, Dominion lands to an extent not exceeding six thousand four hundred acres for each mile of the company's railway, from its commencement near

Regina to the navigable waters of Long Lake.

"The said grants, and each of them, may be so made in aid of the construction of the said railways respectively, in the proportion and upon the conditions fixed by the Orders in Council made in respect thereof,—each of the said enterprises being respectively subject to any modification thereof which may hereafter be made by the Governor in Council; and except as to such conditions, the said grants shall be free grants, subject only to the payment by the grantees respectively of the cost of survey of the lands and incidental expenses, at the rate of ten cents per acre in cash on the issue of the patents therefor."

By 49 Vic., cap. 11, 1886 (Assented to 2nd June, 1886):-

- 6. To the Manitoba and North-western Railway Company, Dominion lands to the extent of six thousand four hundred acres per mile for each mile of the company's branch railway running from a point on the main line of that railway, at or near Todburn, in a north-westerly direction through the county of Russell to the Assiniboine River, near the town of Shellmouth, about twenty-six miles.
- 7. To the North-west Central Railway Company, or to such other company as may undertake the construction of the railway, or a railway from a point on the Manitoba and North-western Railway via Rapid City, westward, Dominion lands to the extent of six thousand four hundred acres for each mile of the company's railway, for the whole distance from Brandon station on the Canadian Pacific Railway, or from such point on the Manitoba and North-western Railway as aforesaid, to Battleford, in the provisional district of Saskatchewan, about four hundred and fifty miles.

8. To the Wood Mountain and Qu'Appelle Railway Company, Dominion lands to the extent of six thousand four hundred acres for each mile of the company's railway for the whole distance commencing at a point in township number four, in range number thirty, west of the second meridian, in the Dominion lands system of survey, passing through the town of Fort Qu'Appelle, to join the Manitoba and North-western Railway at a point to be fixed for that purpose by the Governor in Council, about two hundred and forty miles.

"The said grants, and each of them, may be so made in aid of the construction of the said railways respectively, in the proportions and upon the conditions fixed by the Orders in Council made in respect thereof,—each of the said enterprises being respectively subject to any modification thereof which may hereafter be made by the Governor in Council; and, except as to such conditions, the said grants shall be free grants, subject only to the payment by the grantees respectively, of the cost of survey of the lands and incidental expenses, at the rate of ten cents per acre in cash on the issue of the patents therefor."

By section 5 of this Act authority was given for the incorporation by the Governor in Council of a company to construct the line from Brandon, or other point indicated, to Battleford, subsidized by this Act.

By 50-51 Vic., cap. 22, 1887 (Assented to 23rd June, 1887):-

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., chap. 4, 1889 (Assented to 2nd May, 1889):-

13. To the North-western Coal and Navigation Company (Limited), in addition to the grant provided for by section one of the Act passed in the session held in the forty-eighth and forty-ninth years of Her Majesty's reign and chaptered sixty, Dominion lands to an extent not exceeding two thousand six hundred

acres for each mile of the company's railway from Dunmore station, on the Canadian Pacific Railway, to Lethbridge, on the Belly River, the present terminus of the said railway, a distance of one hundred and nine and one-half miles,—such additional grant to be made only on condition that the gauge of the said railway be made standard width; and also to the said North-western Coal and Navigation Company (Limited), Dominion lands to an extent not exceeding six thousand four hundred acres for each mile of the company'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' westerley a distance of about sixty miles to a point on the proposed branch railway of the said company running from Brandon

south-westerly.

18. To the Canadian Pacific Railway Company, Dominion lands to an extent not exceeding six thousand four hundred acres per mile for a branch line of railway from a point at or near Brandon, on the main line of the Canadian Pacific Railway, south-westerly to or near township three, range twenty-seven, west of the first principal meridian, and thence westerly, a total distance of one hundred miles; and also a similar grant, at the same rate per mile, for the said company's proposed branch railway from a point on the line just described at or near township three, range twenty-seven, west of the first principal meridian, easterly to Deloraine, a distance of about twenty-five miles, making the total length of railway to which this grant is applicable one hundred and twenty-five miles.

- 19. To the Brandon and South-western Railway Company, Dominion lands to an extent not less than six thousand four hundred acres per mile for the line of railway from a point in township one, in either range twenty-three or twenty-four west of the first principal meridian, to Deloraine, a distance of about seventeen miles.
- 20. To the Lac Seul Railway Company, Dominion lands to an extent not exceeding six thousand four hundred acres per mile for a line of railway from a point at or near Shelly Station, on the main line of the Canadian Pacific Railway, to a point at or near White Mud Lake, on the Winnipeg River, a distance of about eighteen miles.
- 21. To the Calgary and Edmonton Railway Company, Dominion lands to an extent not exceeding six thousand four hundred acres for each mile of the company's railway from Calgary to a point at or near Edmonton on the North Saskatchewan River, a distance of about one hundred and ninety miles; and also a grant of six thousand four hundred acres for each mile of the company's railway from Calgary to a point on the international boundary between Canada and the United States, a distance of about one hundred and fifty miles.
- 22. To the North-western Coal and Navigation Company (Limited) Dominion lands to an extent not exceeding three thousand eight hundred and forty acres for each mile of the company's railway from Lethbridge to the Crow's Nest Pass, a distance of about one hundred miles.
- 23. To the Lake Manitoba Railway and Canal Company, Dominion lands to an extent not exceeding six thousand four hundred acres per mile, for a line of railway from Portage la Prairie to Lake Winnipegosis, at or near Meadow Portage, a distance of about one hundred and twenty-five miles.
- 24. To the Manitoba and South-eastern Railway Company, Dominion lands to an extent not exceeding six thousand four hundred acres per mile, for a line of railway from Winnipeg southerly or south-easterly to a point on the west side of the Lake of the Woods, a distance of about one hundred and ten miles.

The said grants and each of them may be made in aid of the construction of the said railways respectively, in the proportion and upon the conditions fixed by the Orders in Council made in respect thereof, and except as to such conditions, the said grants shall be free grants, subject only to the payment by the grantees respectively of the cost of survey of the lands and incidental expenses, at the rate of ten cents per acre in cash, on the issue of the patents therefor.

The lands by this Act authorized to be granted to the Canadian Pacific Railway Company shall be taken and held, and may be disposed of, free and clear of any encumbrance on the lands or property of the said company created before the passing of this Act.

By the special Act 53 Vic., cap. 3, 1890 (Assented to 26th March, 1890):—

- 25. The Act 52 Victoria, chapter 4, authorizing, in error, the grant of land to the North-western Coal and Navigation Company, for fifty miles from Lethbridge to the international boundary, was amended—the said grant being made to the Alberta Railway and Coal Company.
 - By 54-55 Vic., cap. 9, 1891 (Assented to 30th September, 1891):-
- 26. In lieu of the subsidy in land authorized by the Act 52 Victoria, chapter 4, to be granted to the Red Deer Valley Railway and Coal Company, and subject to the conditions in the said Act mentioned, the Governor in Council may grant Dominion lands to the said company to an extent not exceeding six thousand four hundred acres for each mile of the said company's railway, from the town of Calgary, in the district of Alberta, in the North-west Territories, to a point in or near township twenty-nine, range twenty-three, west of the fourth meridian, a distance of about fifty-five miles.

By 54-55 Vic., cap. 10, 1891 (Assented to 30th September, 1891):-

27. To the Manitoba South-western Colonization Railway Company, in addition to the subsidy for one hundred and fifty miles of railway authorized by the Act passed in the session held in the forty-eighth and forty-ninth years of Her Majesty's reign, chapter sixty, Dominion lands to the extent of six thousand four hundred acres per mile for the balance of the two hundred and twelve miles of railway which have been constructed and are in operation, that is to say, for a distance of sixty-two miles.

28. Also, to the Manitoba South-western Colonization Railway Company, Dominion lands to the extent of six thousand four hundred acres for each mile of the company's branch line of railway from Carmen to Barnsley, a distance of about

six and one quarter miles.

29. To the Canadian Pacific Railway Company, in addition to the subsidy authorized by the Act 53 Victoria, chapter 4, for the company's branch line running in a south-westerly and westerly direction from a point at or near Brandon for a distance of one hundred miles, Dominion lands to the extent of six thousand four hundred acres for each mile of the extension westward of the said branch line, from the western limit of the said one hundred miles to a point at or near La Roche Percée, situated in township one, range six, west of the second meridian, a distance of about sixty miles.

"The said grants and each of them shall be made in aid of the construction of the said railways respectively, in the proportion and upon the conditions fixed by the Orders in Council made in respect thereof, and, except as to such conditions, the said grants shall be free grants, subject only to the payment by the grantees respectively, of the cost of survey of the lands and incidental expenses, at the rate of ten cents per acre in cash, on the issue of the patents therefor."

By the Act 57-58 Vic., cap. 6, 1894 (Assented to 23rd July, 1894):—

- 30. To the Rocky Mountain Railway and Coal Company, Dominion lands to an extent not exceeding six thousand four hundred acres per mile for a line of railway from a point at or near Olds Station on the line of the Calgary and Edmonton Railway in a westerly direction to the Red Deer River and thence along the said river in a westerly direction to the coal fields, a distance of about sixty miles.
- **31.** To the Canadian Pacific Railway Company, Dominion lands to an extent not exceeding six thousand four hundred acres per mile for a line of railway from a point at or near Souris on the Souris Branch of the Canadian Pacific Railway, in a westerly direction to the Pipestone Valley, a distance of about thirty-two miles.
- 82. To the Brandon and South-western Railway Company, Dominion lands to an extent not exceeding six thousand four hundred acres per mile for a line of railway from a point in township one, in either range twenty-three or twenty-four west of the first principal meridian, to a point at or near Deloraine, a distance of about seventeen miles.

33. To the Saskatchewan and Western Railway Company, Dominion lands to an extent not exceeding six thousand four hundred acres per mile for a line of railway from Minnedosa to Rapid City, a distance of about fifteen miles.

The said grants and each of them may be made in aid of the construction of the said railways respectively in the proportion and upon the conditions fixed by the Orders in Council made with respect thereto; and, except as to such conditions, the said grants shall be free grants, subject only to the payment by the grantees respectively of the cost of the survey of the lands and incidental expenses at the rate of ten cents per acre in cash on the issue of the patents therefor.

The lands authorized by this Act to be granted to the Canadian Pacific Railway Company shall be taken and held, and may be disposed of, free and clear of any encumbrance on the lands or property of the said company created before the passing of this

Act

APPENDIX No. 11.

STATEMENT of Contracts entered into during the Fiscal Year ended 30th June, 1895.

1. SUBSIDIZED RAILWAYS.

No. of Contract	Contractor.	Date of Signature.	General Description.
11900	Drummond County Railway	14th Nov., 1894.	From St. Léonard to Chaudière Junction, I.C.R.
1	way Co. (Limited) Lotbinière and Mégantic Rail-	23rd do 1894.	towards Chéticamp. From end in Seigniory of St. Jean Deschaillons, 12½
11944 11971	Canada Eastern Railway Co. South Shore Railway Co. (Li-	Not signed	miles and from Lyster Station, G.T.R., to Lyster, 2½ miles. From west end of their line to connect C.P.R. with St. Mary's Bridge.
11988	mited) of Nova Scotia British Columbia Southern Railway Co	28th Feb., 1895 Not signed	From Yarmouth towards Shelburne and Lockeport, N.S. From junction of Elk and Kootenay Rivers to Coal Creek.
	Can da la Madalaina Railway	13th July, 1895.	From east end of their line already built eastward to deep water at Chicoutimi. From Cap de la Madeleine to the Piles Branch of
	Central Railway Co. of N.B. Ontario and Pacific Railway Co	7th Sept., 1895.	the C.P.R. From Chipman Station to Newcastle Coal Fields. From Cornwall to Ottawa.
	Ottawa and Gatineau Rail- way Co	Not signed	From eastern end of 62 miles already subsidized towards Désert.
	Pacific Railway Co St. Stephen and Milltown	16th July, 1895.	From Port Burwell to Tilsonburg, 16 miles, in lieu of subsidy granted in 1892. From St. Stephen to Milltown, N.B., 3½ miles.
12115	Great Northern Railway Co.	Not signed	From junction with Lower Laurentian Railway near St. Tite in vicinity of River St. Maurice, westward, 30 miles.
11845	Oshawa Railway Co	5th Aug., 1895.	westward, 30 miles. From Port Oshawa to Mill Street, to Town Hall and G.T.R. Station, 7 miles.

2. INTERCOLONIAL RAILWAY.

11907	Montreal Car Wheel Co	11th	Oct.,	1894.	Supply 2,000 car wheels.
11973	Ross Bros	18th	Jan.,	1895.	Farm crossing gates.
11991	Central Bridge and Enginer-				
	ing Co. (Limited)	15th	March	,1895.	Construct steel single track.
11994	D. McGregor & Son.	4th	Jan	1895	do branch line from Tuft's Cove.
11995	Thomas Cook	4th	do	1895.	do do do Windsor Junction.
*12048	Intercolonial Coal Mining Co.	27 th	May,	1895.	Supply 6,700 tons coal, P.E.I. Railway.
12106	Rhodes, Curry & Co	22nd	June,	1895.	2 engine houses for Dartmouth Branch.
12107	Theo. B. LeBlanc	10th	do	1895 .	Foundation freight shed, deep water terminus,
		[Halifax.
12119	Rhodes, Curry & Co	6th	July,	1895.	Station and freight House at Waverly, N.S.
12124	Dominion Bridge Co	19th	June.	1895.	Single track steel bridge. Monastry Station, N.S
12125	do do	10th	July,	1895.	2 do do do Red Pine River.
12131	R. C. Donald & Co	24th	do	1895 .	2 do do do Red Pine River. Brick freight house, Halifax.
7 12132	Crossen Car Mfg. Co (Limited)	8th	Aug.,	1895.	20 box freight cars.
12133	Dominion Coal Co	'30th	June,	1895.	Supply 2,500 tons coal.
	do		do	1895.	do 15,000 do
12135	Cumberland Railway and Coal				
	Co	do	do	1895.	do 80,000 do and 10,000 tons slack.
		,		23	3

Appendix No. 11.—Statement of Contracts entered into during the Fiscal Year ended 30th June, 1895—Continued.

2. INTERCOLONIAL RAILWAY-Continued.

No. of Contract.	Name of Contractor.	Date of Signature.	General Description.
12137 12138 12143 12145 12152 12155 12156 12157 12158 12159 12167	Acadia Coal Co. (Limited). Rathbun Co. Rathbun Co. Rhodes, Curry & Co. Thomas Atkinson. A. Holden & Co. Bushnell & Co. J. R. Hutchins. Imperial Oil Co. Eastern Oil Co. Canada Coals and Railway Co. (Limited). General Mining Association. [Crossen Car Manufacturing Co. (Limited). Rhodes, Curry & Co(Limited).	30th do 1895. 30th do 1895. 2nd Aug., 1895. 27th do 1895. 26th July, 1895. 26th do 1895. 26th do 1895. 26th do 1895. 26th do 1895. 26th do 1895. 30th June, 1895. 30th do 1895. 30th do 1895.	do 25,000 do do 30,000 do 15 box freight cars. 50 box freight cars. Station house, Beaver Brook. Engine oil. Engine oil, cylinder oil, &c. do do do Passenger coach oil, &c. Passenger coach oil, petroleum, &c. Supply 30,000 tons coal. do 2,500 do and 10,000 tons slack.
		3. BEAUHARI	NOIS CANAL
11919 11921 11931	Dominion Bridge Co. (Ltd).	. 27th do 1894.	Supply stone to repair locks. Piers for iron bridge across Lost Channel. Steel bridge across Lost Channel.
			RENVILLE CANAL.
11951	Nicholson & Stewart	14th Jan., 1899	North abutment swing bridge, Grenville.
		5. RIDEAU	J CANAL.
11938 11955 11980 11984 12028 12056 12146	8 M. Ryan 5 Francis Hourigan 0 Canadian Bridge & Iron Co. 4 Hebron Harris 8 John R. Booth 6 Robt. Weddell 6 Matthew Ryan	26th Dec., 1894 18th Jan., 1895 11th Mar., 1895 22nd April, 1895 20th May, 1895 29th June, 1895 6th Sept., 1895	Retaining walls at Merrickville. Masonry piers for new swing bridge, Smith's Falls. Steel superstructure, Wellington bridge. Supply 4,000 c. ft. white oak timber. Sheet piling, Deep Cut, Ottawa. Swing bridge. House for lock-keeper, Smith's Falls.
	6.	SAULT STE.	MARIE CANAL.
0. C. 154198 0. C. 154198	9 J. & R. Miller 2 S. H. Fleming & Co 2 Dominion Bridge Co. (Ltd). 2 Wm. Kennedy & Sons. 8 Hugh Ryan & Co. 9 J. & R. Miller.	. 15th Oct., 1894 . 10th Dec., 1894	Pontoon lock gate lefter.

Appendix No. 11.—Statement of Contracts entered into during the Fiscal Year ended 30th June, 1895—Continued.

7. SOULANGES CANAL.

No. of Contract.	Name of Contractor.	Date of Signature.	General Description.
	,		25,000 barrels Portland cement, "North's Condor" brand. 4,000 barrels Portland cement "Josson's" brand.
*C	Contract extended.	8. TRENT VAL	LEY CANAL.
11923 12128 12141	A. Onderdonk Brown, Love & Aylmer John Wolfred Wurtele	13th Feb., 1895. 27th Aug., 1895. 24th do 1895.	Section 1, Simcoe-Balsam Lake division. Section 1, Peterborough-Lakefield division. 2,500 barrels Portland cement "Monarch Cycle" brand.
		9. WELLAN	D CANAL.
$11911 \\ 12026$	James Wilson	21st May, 1895.	Rebuild superstructure, east pier, Port Dalhousie. Stone culvert at junction of Feeder, Castings for 1895. Dredge sand bar entrance at Port Colborne.
	. 1	0. WILLIAMSI	BURG CANAL.
12108 12110	Kerr Bros	Not signed 20th July, 1895.	One pair lock gates, lower recess lock 22. Renew part superstructure north pier, lower entrance, Farran's Point Canal. Superstructure north and south piers, lock 26, Gal ps Canal. One pair lock gates, lock 23, Rapide Plat Canal.
		11. CORNWA	LL CANAL.
	J. & R. Miller		3 pairs lock gates, locks 15 and 17. Reconstruction south pier and ice breaker.
	•	12. LACHIN	TE CANAL.
12153	Gaherty & Shearer	. 10th Sept., 1895.	Cribwork above Wellington bridge.
	·	13. ST. PETE	CR'S CANAL.
	1	1	1

WALTER S. DOULL.

APPENDIX

GENERAL

Showing Water power and other Public Property leased by the Department

Date of Signature.	Term of Lease.	Lessees.	Property Leased.	Area of Property Leased.
			1. Beauharnois Canal.	
Jan. 8, '95	21 years renew- able.	Montreal Cotton Co.	Old lots 2, 3, 4, 5, 6, 7, Cad. lots 836, 837, 834, 832, 830E, 845, &c., in lieu of former lease.	
Feb. 11, '95	Pleasure of Government.	La Cie d'Amusement de Sainte-Cécile.	Part cad. lot 1, at upper entrance	••••
			2. Carillon and Grenville Canal.	
Meh. 13, '95	21 years renew- able.	Jessie Taylor, adm. of Estate Geo. Ster- ing.	Lot at base of Major's Hill, Ottawa River, near Rideau Canal (wharf lot.)	· · · · · · · · · · · · · · · · · · ·
			3. Lachine Canal.	
Dec. 4, '94		P. D. Dods & Co	Water supply 3" pipe to factory, Island St., Montreal.	
Mch. о, '94	Government. do		8" pipe to company's station, St. Henri	
Jan. 9, '95	фo	Power Co. Dobell, Beckett & Co	600' × 40' in St. Gabriel shed No. 1, basin No. 1.	
Mch. 22, '95	do	J. V. Traversey & Co	100' × 40' in St. Gabriel shed No. 2, basin No. 2.	
Not signed	do	Grand Trunk Ry. Co. of Canada.	Railway track from St. Henri bridge easterly to Montreal Rolling Mills and westerly to Clendinneng, &c.	•••••••
do	do	Armstrong & Cook	Connect drain Montreal west with Lachine drain.	
do	3 years	Major Bros	Space in New St. Gabriel's shed No. 1	
			4. Rideau Canal.	
Feb. 11, '95	Pleasure of Government.		Mill lot and surplus water, Brewer's Upper Mills.	3.14 acres.
June 6, '95	do	The Ottawa, Arn- prior and Parry	Lot 25, 8th con., Pittsburg Upper Mills Portion lot F, con. D, (Ordnance reserve, Deep Cut, Ottawa) Tp. Nepean, Carleton	6.6 acres
do 6, '95	21 do	Sound Ry. Co.	County. Portions lots, Rideau Front, Ordnance re-	14 acres
July 31, '95	21 do	do	serve. Portions lots C and D, con. C, Rideau Front, Ordnance reserve.	3.12
		1	5. Williamsburg Canal.	
Not signed			Pt. lot 6, con. 1, Tp. Matilda, Dundas Co	0.22
	Government.	1	236	1

No. 12.

STATEMENT

of Railways and Canals during the Fiscal Year ended 30th June, 1895.

Skating rink, Boat house &c. Jan. 1, 1895 35 00 35 00 January 1 Jan. 1, '95 In advance. Wharf lot Jan. 1, 1895 100 00 50 00 Jan. 1, Jul. 1 July 1, '95 1st renewal of No. 42 Paint factory 3" pipe Jan. 1, 1895 30 00 30 00 January 1 Jan. 1, '95 In advance. Company's en- 8" pipe. Jan. 1, 1895 80 00 80 00 January 1 Jan. 1, '95 In advance. Company's en- 600' × 40'. Dec. 1, 1894 do do do do 100' × 40'. Feb. 1, 1895 100 00 February 1 Feb. 1, '95 do Receive or deliver goods. Carrying off surface water. Tar paper May 1, 1895 100 00 May 1 May 1, 1895 100 00 May 1 May 1, '95 do May 1, '95 do May 1, '95 do May 1, '95 do May 1, '95 do May 1, '95 do Jan. 1, 1891 Jan. 1, 1892 Jan. 1, 1892 Jan. 1, Jul. 1 Jan. 1, '92 Cancels No. 9515. Jan. 1, 1892 Jan. 1, 1892 Jan. 1, 1892 Jan. 1, 1892 Jan. 1, 1892					Terms o	f Payment		
Cotton mills Surplus July 1, 1894 600 00 300 00 Jan. 1, Jul. 1 Jan. 1, '95 In advance. Skating rink, Boat house &c. Jan. 1, 1895 35 00 35 00 January 1 Jan. 1, '95 In advance. Wharf lot Jan. 1, 1895 100 00 50 00 Jan. 1, Jul. 1 July 1, '95 Ist renewal of No. 42 Paint factory 3" pipe Jan. 1, 1895 80 00 January 1 Jan. 1, '95 In advance. Company's en- 8" pipe. Jan. 1, 1895 80 00 So 00 January 1 Jan. 1, '95 do Good of Oo' × 40'. Dec. 1, 1894 600 00 50 00 Ist each mo. Dec. 1, '94 do do do loo' × 40'. Feb. 1, 1895 100 00 February 1 Feb. 1, '95 do Receive or deliver goods. Carrying off surface water. Tar paper May 1, 1895 100 00 May 1 May 1, '95 do May 1, 1895 100 00 May 1 May 1, '95 do May 1, 1895 100 00 May 1 May 1, '95 do May 1, 1895 100 00 May 1 May 1, '95 do Lessee refuses to si Manufacturing 25 h. p Jan. 1, 1892 30 00 January 1 Jan. 1, '92 Cancels No. 9515. Pasturage Jan. 1, 1892 15 00 Jan. 1, Jul. 1 Jan. 1, '92 Cancels No. 9515. Pasturage Jan. 1, 1892 15 00 January 1 Jan. 1, '92 In advance. May 1, 1895 200 00 May 1 May 1, '96 do		of Water Power	from which Lease is		of each instal-	When due	instalment	
Skating rink, Boat house &c. Jan. 1, 1895 35 00 35 00 January 1 Jan. 1, '95 In advance. Wharf lot				\$ cts.	\$ cts.			
Boat house &c. Wharf lot	Cotton mills		July 1, 1894	600 00	300 00	Jan. 1, Jul. 1	Jan. 1, '95	In advance.
Paint factory 3" pipe Jan. 1, 1895 30 00 30 00 January 1 Jan. 1, '95 In advance. Company's engines. Storing lumber 600' × 40'. Dec. 1, 1894 600 00 50 00 Ist each mo. Dec. 1, '94 do do do do do May 1, 1895 500 00 500 00 May 1 May 1, '95 do Receive or deliver goods. Carrying off surface water. Tar paper 100' × 40'. May 1, 1891 100 00 May 1 May 1, '95 do May 1 May 1, '95 do May 1 May 1, '95 do May 1 May 1, '95 do May 1 May 1, '95 Lessee refuses to si Manufacturing 25 h. p Jan. 1, 1892 30 00 15 00 Jan. 1, Jul. 1 Jan. 1, '92 Cancels No. 9515. Pasturage Jan. 1, 1892 15 00 May 1 Jan. 1, '92 In advance. Buildings track and switches. Approach to depot May 1, 1895 200 00 May 1 May 1, '96 do depot May 1, '96 do May 1, '96			Jan. 1, 1895	35 00	35 00	January 1	Jan. 1, '95	In advance.
Company's en- gines. Storing lumber 600' × 40'. Dec. 1, 1894 600 00 50 00 lst each mo. Dec. 1, '94 do Dec. 1, '95 do Receive or deliver goods. Carrying off surface water. Tar paper 100' × 40'. May 1, 1895 100 00 500 00 May 1 May 1, 1895 100 00 May 1 May 1, '95 do May 1, '95 do May 1, '95 do May 1, '95 do May 1, '95 do May 1, '95 do May 1, '95 do May 1, '95 do May 1, '95 do May 1, '95 do May 1, '95 do May 1, '95 do May 1, '95 Lessee refuses to si Manufacturing 25 h. p Jan. 1, 1892 30 60 15 00 Jan. 1, Jul. 1 Jan. 1, '92 Cancels No. 9515. Pasturage Jan. 1, 1892 15 00 January 1 Buildings May 1, 1895 15 00 January 1 May 1, '96 do May 1, '96 do May 1, '96 do May 1, '96 do	Wharf lot		Jan. 1, 1895	100 00	50 00	Jan. 1, Jul. 1	July 1, '95	1st renewal of No. 4286
gines. Storing lumber 600' × 40'. Dec. 1, 1894 600 00 50 00 lst each mo. Dec. 1, '94 do do do do do loo' × 40'. Feb. 1, 1895 100 00 February 1. Feb. 1, '95 do Receive or deliver goods. May 1, 1895 500 00 500 00 May 1. May 1, '95 do Carrying off surface water. May 1, 1895 1 00 1 00 May 1. May 1, '95 do Tar paper. 100' × 40'. May 1, 1891 100 00 May 1. May 1, '95 Lessee refuses to si Manufacturing 25 h. p. Jan. 1, 1892 30 00 15 00 Jan. 1, Jul. 1 Jan. 1, '92 Cancels No. 9515. Pasturage Jan. 1, 1892 15 00 Jan. 1, Jul. 1 Jan. 1, '92 In advance. Buildings, track and switches. May 1, 1895 200 00 May 1. May 1. May 1, '96 do Approach to depot May 1, 1895 200 00 May 1. May 1. May 1, '96 do	Paint factory	3" pipe	Jan. 1, 1895	30 00	30 00	January 1	Jan. 1, '95	In advance.
Storing lumber 600' × 40'. Dec. 1, 1894 600 00 50 00 lst each mo. Dec. 1, '94 do do do do do do do loo' × 40'. Feb. 1, 1895 100 00 lst each mo. Dec. 1, '94 do do Receive or deliver goods. May 1, 1895 500 00 lst each mo. Feb. 1, '95 do Carrying off surface water. Tar paper		8" pipe	Jan. 1, 1895	80 00	80 00	January 1	Jan. 1, '95	do
Receive or de- liver goods. Carrying off	gines. Storing lumber	600' × 40'.	Dec. 1, 1894	600 00	50 00	1st each mo.	Dec. 1, '94	do
liver goods. Carrying off	do do	100' × 40'.	Feb. 1, 1895	100 00		February 1.	Feb. 1, '95	do
Surface water. Tar paper 100' × 40'. May 1, 1891 100 00 May 1. May 1, '95 Lessee refuses to si Manufacturing 25 h. p Jan. 1, 1892 30 00 15 00 Jan. 1, Jul. 1 Jan. 1, '92 Cancels No. 9515. Pasturage Jan. 1, 1892 15 00 January 1. Jan. 1, '92 In advance. Buildings May 1, 1895 20 00 May 1. May 1, '96 do track and switches. Approach to depot May 1, 1895 200 00 May 1. May 1. May 1, '96 do			May 1, 1895	500 00	500 00	May 1	May 1, '95	do
Tar paper 100' × 40'. May 1, 1891 100 00 May 1, '95 Lessee refuses to si Manufacturing 25 h. p Jan. 1, 1892 30 00 15 00 Jan. 1, Jul. 1 Jan. 1, '92 Cancels No. 9515. Pasturage Jan. 1, 1892 15 00 January 1 Jan. 1, '92 In advance. Buildings,			May 1, 1895	1 00	1 00	May 1	May 1, '95	do
Pasturage Jan. 1, 1892 15 00 January 1. Jan. 1, '92 In advance. Buildings, May 1, 1895 20 00 May 1. May 1, '96 do track and switches. Approach to depot May 1, 1895 200 00 May 1. May 1, '96 do	surface water. Tar paper	100' × 40'.	May 1, 1891	100 00	 	May 1	May 1, '95	Lessee refuses to sign
Buildings,	Manufacturing	25 h. p	Jan. 1, 1892	30 60	15 00	Jan. 1, Jul. 1	Jan. 1, '92	Cancels No. 9515.
switches. Approach to	Buildings,		Jan. 1, 1892 May 1, 1895	15 00 20 00		January 1 May 1	Jan. 1, '92 May 1, '96	In advance. do
denot	switches.	į	May 1, 1895	200 00		May 1	May 1, '96	do
	depot.	į.	-		1			1
D welling Oct. 1, 1895 20 00 October 1 Oct. 1, '95 In advance.	/ D allie ~		Oct 1 1905	90.00		October 1	Oat 1 305	In advance

GENERAL STATEMENT showing Water Power and other Public Property

Date of Signature.	Term of Lease.	Lessees.	Property Leased.	Area of Property Leased.
Jan. 11, '95	10 years	Brown Bros	6. Welland Canal. Reserve land east side of canal	
Feb. 26, '95 do 26 '95 May 18, '95 Aug. 9, '95 Not signed de	10 years Pleasure of Government. 10 years. Pleasure of Government	Thomas C. Dawson to Herbert Collier. Herbert Collier to John C. Morris. The Welland Electric Light Co. Leonard S. Bessey et al. Hutchinson, Hicks & Julian. Sperry Carter	Assignment of lease originally granted to R. J. Wigle (under No. 11239). Assignment of lease No. 11239. 30' × 40' between Welland raceway and Welland River. 2" syphon pipe west bank of new canal Parcel of land west of west pier at Port Dalhousie north entrance. 1½" iron pipe to house on West St., Port Colborne. Part of lot 8, con. 4	1,200 sq. ft
		to Government. Rossin House Hotel	 Intercolonial Railway. Land at Lower Stewiacke Branch Extension Office in hotel for general freight and tickets, York St., Toronto. 	ì

leased by the Department of Railways and Canals-Concluded.

				Terms o	of Payment.		
For what purpose used.	Amount of Water Power Leased.	Date from which Lease is reckoned.	Annual Rental.	Amount of each instal- ment.	When due each year.	When first instalment was due.	Remarks.
Storehouse and dock. Wharf. &c.					January 1		In advance. Consideration \$2,000.
do							Consideration \$1,300.
Steam plant					May 1		1
Watering cat- tle. Summer hotel.				l	July 1		1
Domestic		1			July 1		1
Storage and shipping.				1		• •	Cancels lease No. 11694
*				The state of the s			
*** *****	• • • • • • • • • • • • • • • • • • •	Oct. 1, 1894	460 00	115 00	Jan. 1, Apl. Jul 1,Oct.		· distribution

 $[\]star$ The Government making and maintaining the cattle guards and crossing for the use of Hon. Meagher and servants.

WALTER S. DOULL.

APPENDIX No. 13

PROPERTY purchased, or damaged; by the Department of Railways and Canals, during the Fiscal Year ended 30th June, 1895.

	Rетагкя.			300 00 Damages.		And \$1, judgment of Excheq. Court and costs.			
	Amount Paid.	% cts.	1,883 20 2,822 40 6,442 00 15,756 40 7,709 20	300 00	1,500 00	10,634 52	4,940 00 5,440 32	00 08	374 51
	Area of Land.	Acres. 3.06 6.54 6.52			Sq. feet.	$\left\{\begin{array}{cc} 21.872\\ 11.000\end{array}\right\}$	3.282	Acres. 1·15	$\begin{cases} 0.04 \\ 3.09 \end{cases}$
	County.	Annapolis		Victoria		Halifax	op op	cay.	ф ор
Property purchased, &c.	District.	Annapolis and Diyby Railway. Clements	Beatty Release for removing hard pan on the eastern section Beatty do do do do beatty Compared to the construction of Cape Breton in Release from all claims, construction of Cape Breton in the eastern section	Land and dwelling Jamesville	received by son	:	do do do do	Oxford and New Glasgow Railway. West River Road.	Scotch Hill
	Lọt.	Parts of 3 lots,	Release for removing l do do do Release from all clai	Land and dwelling	tutor Release for damages received by son	Land and land cov-	do do ob	n n e t h Lot 144	Lot 131 and 131A Scotch Hill
	Who sold, etc., to Her Majesty.	Sept. 26, 1894. Eiiza Snede <u>n,</u> et al	 1995. Neil McDougall, et al. 17, 1895. Sims & McDonald 17, 1895. Beatty, Shirley & Beatty. 19, 1895. McAdam & Grant 1, 1895. McDonnell & Cameron 	do 12, 1895. James C. McDonald	Nov. 12, 1894. Joseph A. Martin, tutor	Jan. 22, 1895. James A. Sedgewick, et al. Land and land cov-Halifax Extension	Mar. 8, 1895. Thomas Ritchie, et al May 17, 1895. Richard J. Flinn, guardian	22, 1892. Susan and Kenneth McKenrie	:
	Date of Signature.	Sept. 26, 1894.	Jan. 10, 1895. do 17, 1895. do 17, 1895. do 19, 1895. do 21, 1895.	do 12, 1895.	Nov. 12, 1894.	Jan. 22, 1895.	Mar. 8, 1895. May 17, 1895.	Oct. 22, 1892.	July 3, 1894.

2,859 67 542 19 1,270 00 And \$196 costs.	J. B. McKillop former owner.	W. N. Fairbanks, et al., former owners.	400 00 Damages.	4,847 69	100 00 Damages by leakage. 200 00 do do do 200 00 558 00 do do do 558 00 do do do 558 00 do do do 558 00 do do do 558 00 do do do 558 00 do do do 558 00 do do do 558 00 do do do 558 00 do do do do 558 00 do do do do 558 00 do do do do 558 00 do do do do 558 00 do do do do 558 00 do do do do do do do do do do do do do
$\begin{cases} & \text{do} & \dots \\ & 13.90 \\ & 18.61 \\ & 18.61 \\ & 0.69 \\ & 7.08 \\ & 7.08 \\ & 7.08 \\ & & 7.08 \\ & & & & & & & & & & & & & & & & & & $	1.0	300 000 1	, i	Jac. Cartier 69.005	Jac. Cartier do Jac. Cartier do do do
Scotburn Oxford River John do	SE. 2 Section 5, Tp. East Pembina Branch Pt. 10ts 6, 7, 8, 9, 10, 54, 4, 5, 54	Enterson	Ottana River (Culbute) Dams. Westmeath	Parish of Lachine	do Montreal do do do do do do do do do do do do Côte St. Pierre. do do Côte St. Pierre. do Montreal do do Go Côte St. Pierre. do do Côte St. Pierre. do do Côte St. Pierre. do d
Lots 1014, &c. Lots B and 9B. Lots 45 and 46. Lot 45.	SE. 2 Section 5, Tp. I 3, Range 3, Pt. lota 6, 7, 8, Bl. 45 ", 7, 8, 9, 10, ", 54 ", 4, 5, 9, 10, ", 59	(8, 9, 10, (1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	h i p Bridge and road	alias Pt. lot 939.	171 172 and 175 1.163 and 175 1.163 and 153 A 151 Pt. lot 176 1.28 1.37 1.21 and 1.25 956 Pt. lot 965 Pt. lot 965 Pt. lot 965 Pt. lot 965 Pt. lot 965 Pt. lot 965 952 and 951 3,606 1,698 1,703.
Feb. 9, 1894. Charles L. Rood, et al June 22, 1894. Eliza Wood, et al. Oct. 25, 1894. Elizabeth Langille Oct. 10, 1894. James Kitchen, Ex.	Dec. 12, 1894. Torrens certificate	op	75 Dec. 29, 1894. Corporation Townshi Westmeath.	Aussem	Mar. 29, 1895. Philéas Gougeon. do 29, 1895. Dame FX. Gougeon. April 1, 1895. Dame FX. Gougeon. Mar. 30, 1895. Robert Benny April 16, 1895. Robert Benny do 20, 1895. Robert Benny Mar. 29, 1895. Robert Benny Mar. 29, 1895. John Brandre Madore do 20, 1895. John Brandre Madore do 3, 1895. William Trenholme. do 3, 1895. William Trenholme. do 3, 1895. do do 3, 1895. do do 3, 1895. do do 3, 1895. do do 3, 1895. do do 3, 1895. Michael Hughes do 29, 1895. Michael Hughes do 29, 1895. Sauveur Larivière.
Feb. 9, 1894. June 22, 1894 Oct. 25, 1894.	Dec. 12, 1894.	Mar. 21, 1895.	241 Dec. 29, 1894.	Aug. 17, 1894. Joseph F.	Mar. 29, 1895. I do 29, 1895. I April 1, 1895. I Mar. 30, 1895. I April 16, 1895. I do 5, 1895. I Mar. 29, 1895. I do 3, 1896. I do 3, 1895. I do 3, 1895. I do 3, 1895. I do 3, 1895. I do 3, 1895. I do 3, 1895. I do 3, 1895. I do 29, 1895. I do 29, 1895. I

APPENDIX No. 13.—PROPERTY purchased or damaged—Continued.

				Property Purchased.					
Det	Date of Signature.	Who sold, &c., to Her Majesty.	Lot.	District.	County.	Area of land.	Amount paid.	Remarks.	a i
April	1, 1895.	April 1, 1895. James Davidson		Lachine Canul—(Continued). Parish of Montreal			\$ cts.	Damages by leakage.	. Эве
	3, 1895. 3, 1895. 3, 1895. 3, 1895. 3, 1895.	Patrick Power. John Kyan. William West. Thomase G. Somerville Thinas Prudhonme.	and 3660. 1704. 3413. 3864. 3603. 179.				275 98 250 98 250 98 250 98 360 98 35	3633386 	දි දිදිදි
do 2 May 1 May 1 May 1 do do	23, 1895 10, 1895 19, 1895 1, 1895 20, 1895	Incopule Frudonme Jailbert and Tous. Décary André Latour, et ul. Benjamin Décarie. Jabrial Décarie. do do John and Peter Jackson	2000000	do do do do do do Montreal, Côte St. Pierre do do do do do do do do do do do do do	Jac. Cartier		350 148 184 351 260 975 975 975 975 975 975 975 975 975 975	3033333	ි අද සිදු සිදු සිදු සිදු සිදු සිදු සිදු සිද
Oct. 2 Feb. 2 do 1	25, 1894. 7 20, 1895. 1	Pomas Sweetman ames Waters	Lot 26, 7th con Pt. E ½ lot 13, 1st con. Lot 7, 5th con	Township Bedford	Frontenac Leeds		220 00 150 00 105 00	Damagee do do	s by Kerry Dam. Poonamalee do do do
Oct.	3, 1894. 8, 1894. 3, 1894. 3, 1894.	Mrs. A. C. Aubert de Gaspé (widow). do do do do do do do	(144, 147 to 155 in- clusive, 157, 233, 234, 235, 237, 239. Pt. lots 238 and 240 Parts of 56 lots	Saint Ignace Saint Joseph.	Soulanges do do	Arros	141 89 12 12 159 96 244 04	Commutation of seigniorial dues. do do 825 costs do do	í seignior- do do
Nov. 1	5, 1894.	Mrs. Josephte Lalonde, ux Jos. Chénier.	Pt. lots 34 and 35	Nov. 15, 1894. Mrs. Josephte Lalonde, um Pt. lots 34 and 35 St. Michel de Vaudreuil (Cascades) Vaudreuil Jos. Chénier.	Vaudreuil	(0.12)	518 00 Deed.	Deed.	

300 00 do 92 49 do 2,800 00 do	3,800 00 do	1,900 00 do 1,600 00 do 2,300 00 do	100 00 do	50 00 do	75 60 do	75 00 do 10 00 do	65 00 do	75 00 do	75 00 do	15 00 do	15 00 do	45 00 do	475 00 do	1,800 00 do	2,000 00 do	200 00 Release.	150 00 Deed. 200 00 Deprivation of right of	1,700 00 Deed. 2,400 00 do
2.30 5.66	6.20	6·11 3·00 7·46	$\left\{ \begin{array}{c} 0.12 \\ 0.12 \end{array} \right\}$	98.0			:					:		90.9	$\left\{\begin{array}{c} 3.45 \\ 3.59 \end{array}\right\}$	Feet. 9,150	Acres. 2·11	7.30
do	:		euil	:	:	: :	:		:	:	:	:	:	. 898	:			
ob Soulang	op	မှာ မှာ မှာ) Vaudr	op	op	68	မို	op	-ф 	ор 	မ —	- - -	ф	Soulanges.	qo	op .	ද ි	op op
를 : - : - :	:		ascades	ob	op	::: •	op	op	.:. ob	ор ::	:: op	 ep	.: op	:	:		gnace	
op :	:		St. Michel de Vaudreuil (Cascades) Vaudreuil	do d	ф	do do	p op	р op	do d	ф op	do d	р ор .	p op	des		Landing	Saint Joseph Coteau Landing and St. Ignace.	nace
do Saint Joseph do	op	ခုခုမှ	St. Mich	မွ	ģ	ခိုမို	op	op	ဝှ	မှ	оþ	qo	ф	Saint Joseph	op	Coteau]	Saint Jo	Saint Ignace Saint Joseph.
do 4, 5, 6, 7, 8, 9, 6do 135	do 408 and 410	do 318do 330do	do 58 and 59	do 23.	fr. 10083	ີ້ດດ	Fart lot 3		(\$ 10t 78)	f of glots 10, 11, 12 13, 14 and 15.	(\$ of \$ lot 78) do	Fart lot 3	(\$ of \$ lot 78) Pt. lots 24, 25, 32, 33,	Part lot 311	do 5 and 6	Cad. lots 1-5 inclusive Coteau Landing	Part lot 435	do 12.
Dec. 11, 1894. Andrew W. Johnson do 24, 1894. François Leroux do 17, 1894. François Méthot.	Jan. 5, 1895 Honoré Leroux	do 8, 1895. Alfred DeMontigny do 17, 1895. Moise Thauvette. Feb. 4, 1895. Géssire Monpetit, et uz	Apl. 4, 1895 Romuald Valois, et ux	9, 1895 Thadée Viau, et al	2, 1895. Mrs. M. L. Harwood (widow).	Mch. 30,1895. H. S. Harwood. do 31,1895. Robert Harwood.	Apl. 1, 1895. Liboire Constant	No. 30, 1895 Mrs. M. M. A. L. de Belle- feb	do 31, 1895 A. C. Harwood	Apl. 1, 1895 C. de V. Harwood	do 1, 1895. Louise F. Harwood	2, 1895 Mrs. E. G. Terroux (widow).	do 3, 1895 Mrs. Christine Périard	May 2, 1895. Marcellin Bissonnette	2, 1895 Osias Leroux		do 22, 1895 Joseph Clément, et al do 27, 1895 Joseph Aumais	do 29, 1895 Alexina Leroux, et al June 4, 1895 Salomon Denis
Dec. 11, 1894. do 24, 1894. do 17, 1894.	Jan. 5, 1895	do 8, 1895 do 17, 1895 Feb. 4, 1895	Apl. 4, 1895	do 9, 1895	do 2, 1895.	Mch. 30,1895 do 31,1895	Apl. 1, 1895	Mch. 30, 1895	do 31, 1895	Apl. 1, 1895	do 1, 1895	do 2, 1895	do 3, 1895.	May 2, 1895	do 2, 1895	do 20, 1895 John Elie	do 22, 1895 do 27, 1895	do 29, 1895 June 4, 1895

APPENDIX No. 13.—PROPERTY purchased or damaged—Concluded.

	Remarks.		Deed.	qo	do do					Кејевне пвппврен.					
	Amount Paid.	** cts	3,640 00	25 00	3,600 00 1,600 00		56 46	220 00	2,375 00	60 G 60 G	90 009	675 00 750 00	800 00	1,500 00 495 00	1,200 00
-	Area of Land.		5:44 0:34	Sq. feet. 157	Acres. 5.51 8.14		6.03	{2,2} {2,2}	42·9 149·6	45.1	824	69g 70·4	$\left\{\begin{array}{c} 120.95 \\ 24 \end{array}\right\}$	114.1	19.7
	County.		Soulanges	op	do do		Victoria	ор	op op	: :: go	ф	ි : පිහි	ор	90 op	Victoria
Property purchased, &c.	District.	Soulanges Canal-Continued.	Saint Ignace	Saint Joseph	do Saint Ignace	Trent Valley Canal.	Eldon	ор	do	op op	ор	do ob	ор	doBexley	Eldon
•	Lot.		Part lots 123, 126 and Saint Ignace	Part lot 433	do 132do		Pt. W 1 lot 22, 9th Eldon	Lot 23, 10th con. and	Pt. S. 4 lot 24, 8th con Part lots 49 and 50	Part N. ½ lot 24, 8th	ф	25. Pt. lots 53 and 54, S.	side Portage Koad. Part lots 52, 53, 54	do 47, 48do	tage Koad. (Pt. lot 57, S. side) Portage Road. 57 and 58, N. side Portage Road.
	Who suld, etc., to Her Majesty.		June 11, 1895. Mrs. Raoul deBeaujeu	July 19, 1895. Julien Clément.	22, 1895. F. X. Sauvé, et al		Apl. 20, 1895 John Truman, et ux	do 24, 1895. Lachlan McEachern	6, 1895. Neil McEachern 10, 1895. John Ray	William McEachern	8, 1895. Amelia Victoria Edwards,	16, 1895. Alex. Robinson, et al 16, 1895. do	11, 1895. Moses Mitchell, et al	 16, 1895. Ewen McKenzie, et ux. 15, 1895. Geo. Edward Laidlaw, et al. 	16, 1895. John Fry
	Date of Signature.		June 11, 1895.	July 19, 1895.	ဝှ ဝ	44	Apl. 20, 1895.	do 24, 1895.	May 6, 1895.	do 8, 1895.	do 8, 1895.	do 16, 1895.	do 11, 1895.	do 16, 1895. do 15, 1895.	do 16, 1895.

									30 00 Damages. 712 50 do removing stables.		do cutting water	pipes, &c. do do Damages by Rapide Plat	Canar.			WALTER S. DOULL.
1,165 00	145 00	200 00	200 00	310 00	1,450 00	2,650 00	150 00 80 00 350 00	1,400 00	30 00 712 50		150 00	78 10 300 00		400 00	1 08 00	WALT
	:	:			:	:	18 4·88 48·3	{ 29.8 }	: #* :	of Commercial				1.25	3.72	
9	: :	do ob	ор •	ор	op	op	do Peterborough. Victoria	op	Haldimand		Dundas	do do	-	Stormont	ор	
Bexley	Eldon	Carden	Eldon	Bexley	Eldon	ор	do Douro Eldon	do	Dunnville Sherbrooke	Williamsburg Canal.	Morrisburg	do	Cornrall Canal.	:	ор	
Pt. lots 1, 2, 3, 4, 6, lot "C" and pt. Gov. Res. S. side Portage Road.	Portage Road, 8th	Pt. Why, lots 1 and 2, Carden	Pt. E2, lot 23, 8th Eldon	con. Pt. lots 5, 6 and 7, S.	side Fortage Koad. Pt. lots 60, 61 and 59, Eldon S. side Portage	Koad. 49, 50, 51 and 52 S.	Side I order from Pt. lot 24, 9th con. Pt. lot 32, 8th con. do. do 12, 8th con Douro Pt. El lot 25, 10th Eldon	con. Pt. lots 57, 58, 59, S. side Portage Road.	Lot 30. Lime kiln lots		Lot 6, block F	Water works Lot 5, block F		Mac-Pt. lot 27, con. 1 Cornwall	do 37, con. 1	
June 7, 1895. Toronto General Trust Co., trustees.	May 16, 1895. William Routley, et ux	June 26, 1895. Richard Fitzgerald	do 1, 1895. Philip J. McRae, et ux	July 9, 1895. Edward Lytle, et ux.	June 8, 1895. Wm. A. Silverwood, et ux.	do 13, 1895. John Ewen, et ux	April 16, 1895. Ellen Elizabeth Dillon Aug. 21, 1895. Michael Harrigan. July 8, 1895. William Taylor, et ux	24, 1895. William Fry, et ux.	Nov. 8, 1894. Michael Cleary Mar. 30, 1895. Hon. L. McCallum		July 11, 1895. James N. Eastman	Aug. 7, 1895. Corporation of Morrisburg. Water works do 10, 1895. H. E. Snyder, et al Lot 5, block F		Nov. 3, 1894. Executors of J. S. Mac-	Jan. 10, 1895 J. G. Snetzsinger, et ux	
June 7, 1895.	May 16, 1895.	June 26, 1896.	do 1, 1895.	July 9, 1895.	June 8, 1895.	do 13, 1895.	April 16, 1895. Aug. 21, 1895. July 8, 1895.	.go 74, 1895.	Nov. 8, 1894. Mar. 30, 1895.		July 11, 1895.	Aug. 7, 1895.		Nov. 3, 1894.	Jan. 10, 1895.	

APPENDIX

AGREEMENTS respecting Subsidies in aid of construction of

nature.			anada subsidy.	Amount	of subsidy.
Name of Railway Compan		Line of Railway to be constructed.	Acts of Canad granting subsidy.	Per mile.	Not more in all than.
1894.	1			8	3
Nov. 14	Drummond County Ry. Co.	From St. Léonard to Chaudière Junction.	57-58 V., c. 4	3,200	96,000
do 23	Inverness and Rich-	From Port Hawkesbury, Nova Scotia, towards Cheticamp.	57-58 V., c. 4	3,200	80,000
do 19		From St. Jean Deschaillons, 121 miles, and from Lyster Station, G.T.R., to		3,200	48,000
Not signed	Canada Eastern Ry.	Lyster. Connecting the C.P.R. with St. Mary's bridge.	57-58 V., c. 4	3,200	İ
June 30 1895.	Cobourg, Northum-	Lease of their railroad to the C.P.	52 V., c. 62. 57-58 V.,c.68		· · !
Feb. 28	South Shore Ry. Co. (Ltd.) of Nova	From Yarmouth towards Shelburne and Lockeport, N.S.	57-58 V., c. 4	3,200	112,000
Not signed		From Junction of Elk and Kootenay Rivers to Coal Creek.	57-58 V., c. 4	3,200	108,800
July 13.	Quebec and Lake St. John Ry. Co.	From east end of their line to deep water at Chicoutimi, Chicoutimi Branch.	57-58 V., c. 4	3,200	
Not signed	Cap de la Madeleine Rv. Co.	From Cap de la Madeleine to Piles Branch, C.P.R.	57-58 V., c. 4	3,200	9,600
Sept. 7.		From Chipman Station to Newcastle	57-58 V., c. 4	3,200	48,000
June 1			55-56 V., c. 5	3,200	172,400
Not signed		From eastern end of 62 miles already subsidized towards Désert.	57-58 V., c. 4	3,200	64,000
July 16.	Tilsonburg, Lake Erie and Pacific	From Port Burwell to Tilsonburg in lieu of subsidy granted in 1892.	57-58 V., c. 4	3,200	51,20€
Not signed		From St. Stephen to Milltown, N.B.	56 V., c. 2	3,200	11,200
do .	Milltown Ry. Co. Great Northern Ry. Co.	From junction with Lower Laurentian Railway near St. Tite, in vicinity	57-58 V., c. 4	3,200	96,00●
Aug. 5	Oshawa Ry. Co	of River St. Maurice, westward. From Port Oshawa to Mill St., and to town hall and G.T.R. Station.	56 V., c. 2	3,200	22,400

No. 14.

Railways entered into during the fiscal year ended 30th June, 1895.

No. of miles subsidized.	Maximum Grade Feet per mile.	Radius of curvature not less than.	Width of clearing each side.	Width of cutting.	Embankment.	Steel rails, lbs. per lineal yard.		When to be completed.	Remarks.
No.	Feet.	Feet.	Feet.	Feet.	Feet.	Lbs.		_	
30	53	1,433	50	20	15	56	Dec.	1, 1896.	
25	80	1,433	50	20	15	56	do	1, 1896.	,
15	53	1,910	50	20	15	56	do	1, 1896.	
1	27	1,433	50	20	15	56	July	1, 1895.	
•••••	••••			i					Approved by O. C. No. 72103 of Dec. 28, 1894.
35	80	955	50	20	15	56	Aug.	1, 1897.	
	go.	700	-0	***	1.			1 1000	
34	60	700	50	20	15	56	do	1, 1898.	Ti'
2	80	819	50	20	15	56	Dec.	1, 1890.	First part of subsidy \$44,800 57-58 V. c. 4.
3	105	574	50	20	15	56	Oct	1, 1895.	
15	74	955	50	20	15	52	Dec.	1, 1896.	
∌3 ₁8₹₀	53	1,433	50	20	15	56	Aug.	1, 1896.	
20	106	574	50	20	15	56	do	1, 1897.	
16	53	955	50	20	15	56	do	1, 1896.	8° or 717 ft. curvature allowed at junction with Canada South-
31/2	80	716	50	20	15	56	do	1, 1896.	ern Railway. Substituted for 10938.
30	66	573	50	20	15	56	Nov.	30, 1896	
7	173	80	50	20	15	56	Dec.	1, 1895	

WALTER S. DOULL.

APPENDIX No. 15.

CANAL STATISTICS

FOR

SEASON OF NAVIGATION 1894.

REVENUE.

The total revenue, exclusive of Hydraulic Rents for two years, is as follows:-

	1893		00
"	1894	307,824	67

By comparing the statistics of 1893 with 1894 it will be seen that the gross revenue has decreased \$40,187.33.

The increases and decreases are as follows:-

		Increase.	Decrease.
On the	Welland Canal		\$33,549 58
46	St. Lawrence Canals		4,337 47
"	Chambly Canal		1,461 67
"	Rideau Canal	\$ 170 48	
"	Ottawa Canals		1,244 77
"	St. Peter's Canal		26 94
"	Trent Valley Canals	142 26	
"	Murray Canal	120 36	1
	Total	\$ 433 10	\$ 40,620 43
	Total decrease	•••••	40,187 33

In compliance with the renewed request of forwarders and shippers of Montreal for a continuance of the reduction of tolls on certain agricultural products, His Excellency the Governor General in Council on 16th of April, 1894, authorized a reduction of canal tolls, as follows:—

For the season of 1894 the canal tolls for the passage of the following food products, wheat, indian corn, pease, barley, rye, oats, flax-seed and buckwheat for passage eastward through the Welland Canal, shall be ten cents per ton, and for passage eastward through the St. Lawrence Canals only, ten cents per ton, payment of the said tolls of ten cents per ton for passage through the Welland Canal to entitle these products to tree passage through the St. Lawrence Canals.

In consequence of the reduced rates of tolls as above, being applicable to the said food products, irrespective of their destination, the reduced rate of ten cents a ton only was collected, and therefore no refunds were made on these articles for

1894.

It may be observed, however, that the reduction of tolls from twenty to ten cents per ton on the articles referred to, for passage through the Welland Canal, amounts to \$49,432.90.

QUANTITY OF GRAIN PASSED DOWN THE WELLAND CANAL.

The quantity of barley, corn, cats, pease, rye and wheat passed down the Welland Canal, from ports west of Port Colborne for a period of thirteen years, is as follows:—

		QUANTITY ON WHICH FULL TOLLS WERE PAID.				
QUANTITY PASSED DOWN TO MONT	TRRAL.	To Ports in Ontario.	Quantity from U.S. Ports to U.S. Ports.			
,	Tons.	Tons.	Tons.			
82	180,694		63,881			
83	186,814	10,650	121,876			
84	142,194	12,153	104,537			
8 5	96,569	11,509	117,346			
86	203,940	9,881	151,551			
87	185,034	11,838	134,868			
88	160,358	25,599	169,664			
89	267,769	19;075	213,766			
90	2 28,513	16,899	245,932			
91	295,509	6,805	202,710			
92,	{ 261,954	8,942	201,540			
93	* (501,806	25,555	222,958			
94. ,	273,651	16,699	203,979			

The tolls on grain for passage through the Welland Canal, prior to 1884 were 20 cents a ton, since that date, however, reductions have been made by Orders in Council from year to year as follows:—Upon the urgent request of forwarders and others interested in the grain trade, a reduction was made of one-half the usual rate of tolls on grain passing down the Welland Canal and the St. Lawrence Canals to Montreal; and in 1885 tolls were reduced to 2 cents a ton, and thereafter from year to year, including 1891.

In 1892 the tolls were reduced to 2 cents a ton on grain passed down the

Welland and St. Lawrence Canals and exported, and in such cases only.

In 1893, by Order in Council of 13th February, the tolls were reduced to 10 cents a ton on grain passing eastward through the Welland Canal irrespective of its destination, and the same rate of tolls for 1894 were allowed by O. C., 16th April, 1894.

The rate through the St. Lawrence Canals, only, 10 cents a ton.

It may be remarked that goods having paid full tolls on the Welland Canal are allowed to pass down the St. Lawrence Canals to Montreal free from payment of

any further tolls.

During the last decade the quantity of agricultural products, as above, passed down the Welland and St. Lawrence Canals to Montreal, has increased from 96,569 tons to 273,651 tons; and the quantity passed down the Welland Canal, from United States ports to United States ports, has increased from 117,346 to 203,979 tons.

250

^{*} Of the quantity of grain passed down to Montreal there were transhipped at Ogdensburg in 1891, 17,817 tons, in 1892, 4,341 tons, in 1893, 71,445 tons, in 1894, 23,030 tons.

The quantity of barley, corn, oats, pease, rye and wheat, arrived at Montreal via Grand Trunk and Canadian Pacific Railways for a period of 13 years, is reported as follows:—

		I ons.
For	1882	75,026
	1883	98,672
	1884	42,231
	1885 1	60,821
	1886 1	65,613
	1887	
	1888	13,794
	1889	94,943
	1890	19,208
		84,410
	1892 2	
	1893 1	47,610
	1894	60,666

The quantity of the same articles passed down the whole length of the St. Lawrence Canals to Montreal, for the same period was:—

71.....

m . .

		i ons.
For	1882	
	1883	263,368
	1884	174,496
	1885	134,824
	1886	
	1887	
	1888	,
	1889	
	1890	
	1891	
	1892	
	1893	532,084
	1894	288,015

Comparative shipments of grain by the St. Lawrence route, and rail and water via the State of New York, are as follows:—

QUANTITY OF GRAIN TO SEA-BOARD BY COMPETING ROUTES.

The quantity of grain and pease passed down the whole length of the St. Lawrence Canals to Montreal, is as follows:—

1893	
Showing a decrease of	244,069

The quantity of grain and pease carried to Montreal via Canadian Pacific and Grand Trunk Railways, is reported as follows:—

For	1893 1894	
	Showing a decrease of	86,944

The quantity of grain arrived at tide-water by New York canals, is reported as follows:—

	rons.
For 1893	1,267,113
1002,	1,100,100

The quantity of grain carried to tide-water by the New York railways, is reported as follows:

	Tons.
For 1893	
1894	2,686,440

The increases and decreases for 1894 as compared with 1893 on the several routes, competing for the carrying trade to the sea-board, are as follows:—

	Increase.	Decrease.	Increase.	Decrease.
	Tons.	Tons.	Per cent.	Per cent.
On the St. Lawrence Canals. do Canadian Pacific and Grand Trunk Railways. do New York Canals. do do Railways.		244,069 86,944 103,325 904,073		45·87 58·90 8·15 25·18

By reference to Appendix U, it will be seen that the quantity of freight from ports west of Port Colborne to United States ports, Oswego, Ogdensburg, &c, has increased from 175,455 tons in 1883, to 373,070 tons in 1894, and the quantity to Ontario ports, between Port Dalhousie and Cornwall, has decreased from 184,502 tons in 1883, to >0,681 tons in 1894. The quantity passed down to Montreal shows an increase from 205,394 tons in 1883, to 292,191 tons in 1894.

TRANSHIPMENT OF GRAIN.

The quantity of grain passed down the Welland Canal in Canadian and United States vessels to Kingston for eleven years, is as follows:—

In Canadian vessels, there were in-

				Tons.
1884, 111	cargoes, with	an aggregate quantity	of	70,475
1885, 75	do	do		
1886, 244	do	do		143,330
1887, 284	do	\mathbf{do}		178,233
1888, 182	do	do		143,025
1889, 208	do	do		165,117
1890, 203	do	do		184,275
1891, 209	do	do		
1892, 158	do	do		159,018
1893, 146	do	do		148,962
1894, 125	do	ďo	• • • • • • •	159,145

In United States vessels, there were in-

					Tons.
1884, 117	cargoes,	with an aggre	egate quant	tity of	75,787
1885, 79	do		do		55,982
1886, 97	\mathbf{do}		do		62,222
1887, 19	do		do		12,477
1888, 60	\mathbf{do}		do		43,667
1889, 114	do		do		108,358
1890, 35	do		\mathbf{do}		35,560
1891, 77	do		do		90,153
1892, 89	do		do		109,812
1893, 257	do		\mathbf{do}		328,269
1894, 84	do		do		

Two vessels took cargoes of 810 tons through to Montreal intact in 1894, none in 1893. Two in 1892 of 924 tons, and three in 1891 of 1,441 tons. Nineteen vessels lightered a portion of their cargoes in 1894, against 31 in 1893, 25 in 1892, and 44 in 1891. 188 vessels discharged the whole of their cargoes at Kingston in 1894, against 369 in 1893, 220 in 1892 and 293 in 1891.

The quantity of grain transhipped at Port Colborne in 1894 and the three

previous years is given below.

The total number of grain laden vessels lightened at this port in 1894 was 59 against 91 the previous year.

The quantity of the grain lightered was as follows:-

			1	er a ser entere contrata consequence a contrata de la contrata del contrata de la contrata de la contrata del contrata de la contrata del la contrata del la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la	
Articles.	1890.	1891.	1892.	1893.	1894.
Wheat Corn Rye Oats	Bush. 4,310 773,687 Nil 44,294	Bush. 16,665 482,802 13,318 257,000	Bush. 68,736 576,289 2,467 102,529	Bush. 47,558 759,000 11,540 35,353	Bush. 104,827 260,657 Nil 63,412

The quantity discharged at this port from vessels which did not enter the canal was as follows:—

Articles.	1890.	1891.	1892.	1893.	1894.
Wheat	Bush. Nil Nil Nil Nil Nil	Bush. 16,628 Nil Nil Nil	Bush, Nil Nil Nil Nil	Bush. Nil Nil Nil Nil	Bush. Nil Nil Nil Nil

WELLAND CANAL.

The total quantity of freight passed on the Welland Canal during the season of 1894 was 1,008,221 tons; of this quantity 18,637 tons were way or local freight.

East and west bound freight.

There were 758,783 tons of freight passed eastwards, and 249,438 tons passed westwards.

The total quantity of freight passed through the whole length of the Welland Canal during the season of 1894 was 989,534 tons.

Of this quantity 242,553 tons were west bound and 745,942 east bound freight.

Of the east bound freight Canadian vessels carried 252,104 tons and United States vessels carried 493,838 tons; and of the west bound freight Canadian vessels carried 11,422 tons, and United States vessels carried 232,170 tons.

Of the total quantity of through freight, Canadian vessels carried 263,526 tons,

and United States vessels carried 726,00S tons.

ST. LAWRENCE CANALS.

East and west bound freight.

Of the total quantity of freight passed through the canals during 1894 there were 6 8,417 tons passed eastward and 248,361 tons passed westward.

The total quantity of through freight was 537,982 tons; of this quantity 494,778

tons were east bound and 43,204 tons were west bound.

Of the total quantity of (way) or local freight, 143,639 tons were east bound and 205,157 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 fourteen 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	. 231,746	31,951
1891	. 309,593	14,060
1892	263,144	9,452
1893	508,016	16,545
1894	. 292,191	9,439

FREIGHT FROM UNITED STATES PORTS TO UNITED STATES PORTS.

The total quantity of freight passed eastward and westward through the Welland Canal, from United States ports to United States ports, for a period of fourteen years, is as follows:—

, •• •• •• •• • • • • • • • • • • • • •	Eastward. Tons.	Westward. Tons.	Total. Tons.
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	224,916	239,562	464,478
1887	189,427	151,074	340,501
1888	221,062	213,689	434,751
1889	297,353	266,231	563,584
1890	318,259	215,698	533,957
1891	306,257	247,543	553,800
1892	300,733	240,332	541,065
1893	384,559	247,108	631,667
1894	361,319	230,948	592,267

The total quantity of freight passed through the Welland Canal from United States ports to United States ports shows a decrease of 39,400 tons as compared with the previous year; and an increase of 398,094 tons as compared with 1881.

The following statement shows the aggregate number of vessels, and the total quantity of freight passed through the Welland Canal, and the quantity passed between United States ports during the year 1867 to 1894 inclusive.

Fiscal Year.	Aggregate number of vessels.	Total quantity transported on the Welland Canal.	Quantity passed from United States ports to United States ports.
1867 1868 1869 1870	No. 5,405 6,157 6,069 7,356 7,729	Tons. 933,260 1,161,821 1,231,903 1,311,956 1,478,122	Tons. 458,386 641,711 688,700 747,567 772,756
Season of Navigation.			
1872	6,063	1,333,104	606,627
1873	6,425	1,506,484	656,208
1874	5,814	1,389,173	748,557
1875	4,242	1,038,050	477,809
1876	4,789	1,099,810	488,815
1877	5,129	1,175,398	493,841
1878	4,429	968,758	373,738
1879	3,960	865,664	284,043
1880	4 104	819,934	179,605
1881	3,332	686,506	194,173
1882	3,334	790.643	282,806
1883	3,267	1,005,156	432,611
1884	3.138	837.811	407,079
1885	2,738	784,928	384,509
1886	3,589	980,135	464,478
1887	2,785	777,918	340,501
1888	2,647	878,800	434,753
1889	2,975	1,085,273	563,584
1890	2,880	1,016,165	533,957
1891	1 0	975,013	553,800
1892	0 000	955,554	541,065
1893	2,843	1,294,823	631,667
1894	2,412	1,008,221	592,267

The total quantity of freight passed through the several divisions of the canals during the season of 1894 is as follows:—

	Farm Stock.	Forest Produce of Wood.	Manu- factures.	Merchan- dise.	Agricultural Products.	Total.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Welland St. Lawrence Chambly Ottawa Rideau St. Peter's Murray Trent Valley.	39 1,004 284 971 9	145,929 115,946 151,732 548,747 64,633 6,269 8,360 36,076	14,172 66,655 18,312 196 3,511	253,316 348,025 90,463 6,347 23,547 36,007 4,768	594,765 355,148 16,817 5,749 2,779 13,184 4,901	1,008,221 886,778 277,608 562,010 94,479 55,460 21,888 36,271

The total quantity of freight moved on the Welland Canal was 1,008,221 tons, of which 594,765 tons were agricultural products.

On the St. Lawrence Canals the total quantity of freight moved was 886,778 tons, of which 355,148 were agricultural products, and 348,025 tons were merchandise

On the Ottawa Canals the total quantity of freight moved was 562,010 tons; of this quantity 548,747 tons were the produce of the forest.

NORWAY TO CHICAGO.

During the month of May the steamer "Craggs" of Christiansand, Norway, passed up the St. Lawrence and Welland Canals with a cargo of 509 tons of fish from Norway to Chicago, and returned on the 6th June with a cargo of 406 tons of flour and 300 tons of wheat.

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 1,400,129 tons in 1894, and 1,452,563 tons in 1893, against 937,999 in 1892, and 1,092,355 in 1891.

The quantities of vegetable food carried by the New York Central, Erie and New York, West Shore and Buffalo Railways being:—

	Tons.		Tons.
In 1894	/4,281,0 56	In 1886	.*3,802,262
1893	5,107,426	1885	4,105,594
1892	5,913,013	1884	3,639,805
1891	3,565,381	1883	4,422,461
1890 *	4,336,199	1882	3,888,557
1889	3,654,984	1880	
1888	3,197,634	1869	, ,
1887	3.847.766		, ., -

^{*} Flour and grain only.

The following figures are an abstract of the quantities of vegetable food carried to tidewater by the canals and railways of the state of New York, during twenty-six years:—

	Canals.	Railways.	Total.	Proportions by Canals.
	Tons.	Tons.	Tons.	
1869	1.302.613	1,087,809	2,390,342	545
1870	1,295,010	1,766,457	3,061,467	423
1871	1,850,198	2,205,589	4,055,787	456
1872	1,674,320	1,870,614	3,544,934	472
1873	1.745.171	2,036,992	3,782,163	461
1874	1,767,598	2,791,517	4,559,115	387
1875	1,305,550	2,343,241	3,648,791	357
1876	1.064.293	2,875,803	3,940,096	270
1877	1,498,984	2,493,683	3,992,667	375
1878	1,912,734	3,695,764	5,608,498	341
1879.	1,833,399	4,353,617	6,187,016	296
1880	2,371,090	4,732,385	7,103,475	333
1881	1,116,561	4,983,722	6,100,283	183
1882	1.118.776	3,885,557	5,004,333	223
1883	1,379,000	4,422,461	5,801,461	237
1884	1,236,986	3,639,805	4,876,791	253
1885	1,063,310	4,105,594	5,168,904	205
200	1,489,886	3,802,262	5,292,148	281
100	1,539,403	3,847,766	5,387,169	285
1887	1,166,958	3,197,734	4.364.692	267
1889	1,296,896	3,654,984	4,951,880	262
1890	1,167,901	4,336,199	5,504,100	212
	1,092,355	3,565,381	4,657,736	234
1891	937,999	5,913,013	6,851,012	137
1892		5,107,426	6,395,472	201
1893	1,288,046	4.281.056	5,466,331	201
1894	1,185,275	4,251,000	0,400,331	211

COMPARATIVE STATEMENT OF TRAFFIC BY BAILWAYS 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 cent.		Per cent.
In 1859	68.9	In 1882	19.0
1869	47.0	1883	18.7
1870	38.9	1884	$19 \cdot 0$
1871	38.9	1885	$17 \cdot 1$
1872	. 40 1	1886	$16 \cdot 9$
1873	34 · 9	1887	$16 \cdot 3$
1874	31.7	1888	$18 \cdot 8$
1875	28 4	1889	$15 \cdot 1$
1876	24 6	1890	$13 \cdot 9$
1877	28.3	1891	$13 \cdot 4$
1878	27 1	1892	$9 \cdot 8$
1879	23.7	1893	10 · 1
1880 :	25.1	1894	$10 \cdot 2$
1881	18.5		

The quantity of freight carried by the canals and railways was less in 1894 by 5,036,821 tons than the quantity carried in 1833 and an increase of 25,463,238 tons over 1869.

The quantities carried were as follows-

	Total Tonnage.	Proportion by Canals.
In 1859	5,485,076	· 6890
1869	12,453,174	· 4705
1870	15,148,274	$\cdot 3895$
1871	15,844,152	$\cdot 3896$
1872	16,631,609	·4012
1873	18,200,208	· 3497
1874	18,283,547	·3174
1875	17,101,758	· 2841
1876	16,948,627	$\cdot 2462$
1877	17,489,770	$\cdot 2833$
1878	19,017,301	$\cdot 2719$
1879	22,590,766	$\cdot 2373$
1880	25,706,586	$\cdot 2512$
1881	27,857,394	· 1859
1882	28,693,054	· 1905
1883	30,167,119	· 1877
1884	26,293,844	· 1905
1885	27,543,948	.1718
1886	31,168,744	·1698
1887	34,029,791	$\cdot 1632$
1888	26,244,610	·1883
1889	35,466,042	·1514
1890	37,624,199	·1394
1891	38,524,179	·1343
1892	43,618,569	.0982
1893	42,953,233	· 1009
1894	37,916,412	1024

Average freight rates, grain, Chicago to Buffalo:-

Year.	Wheat.	Year.	Wheat.
1878	3.1	1888	2 · 7
1879	4.7	1889	
1880	5.7	1890	
1881	3.2	1891	
1882	$\cdots 2\cdot 5$	1892	2.2
1883	3.5	1893	. 1.6
1884	2 1	1894	
1885	$\cdots 2 \cdot 0$		
1886	3.6	Average seventeen year	s. 2·9
1887	4.1		

COMPARATIVE Statement of the Amount and Value of Commerce through Saint Mary's Falls Canal, Mich., for the seasons of 1893 and 18:14.

	Quantity.	tity.	Increase.	oi.	Dестеаве		Price per	Total Valuation.	luation.
	1893.	1894.	Amount.	Per cent.	Amount.	Per cent.	Unit.	1893.	1894.
							. cts.	. cts.	.≉ ots.
Tockages Tomage, registered Net tons.		14,491 6,431 13,110,366 13,195,860	2,483 878 3,260,612 2,399,288	ន្តនេះ					
	18,869	27,236 532,870 2,264,314	8,367	#	210,936			10,528,420 00	2,531,132 50 5,660,785 00
Flour Wheat Control Barrels. Grain (other than wheat)	7,420,674 43,481,652 9,405,344	_	1,545,099	21	8,612,169	:88	3 75 0 64 0 50	29,682,696 00 32,611,239 00 1,346,992 64	33,621,648 75 22,316,469 12 772,504 00
		$\overline{}$			37,793	33) 32 33 33 35 35 35	2,852,300 00 550,902 00	1,805,350 00 331,452 00
Saft Copper True over		237,461 99,573 6.548,876	8,731 12,043 2,534,320	448			200 S 200 S 200 S	228,730 00 17,506,000 00 14,050,946 00	
Lumber Mft., B.M. Silver ore and bullion Net tons.		•	134,243	श ः	2,058	: 88	16 00 112 00		11,564,608 00 46,144 00
Building stone	19,426 415,180	21,417 451,185	36,005	26		: :	8 08 0 09	24,910,800 00	27,071,100 00
Totals						:		145,436,956 94	143,114,501 97
*Steamers Sails Unregistered craft		100	10,208 †Ir 3,676 607	wool. Wool. Hides	+Included in unclassified freight for 1893 Wool. Hides	d freigh	it for 1893.	327 tons. 212 do	
Total		14	14,491		i	1894	ari		
				Wool. Hides		:	:	1,468 tons. 382 do	

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Total valuation of produce and merchandise carried through the canal is estimated as follows for the years named:

Valuation	for 1885,	\$	53,413,472 13
\mathbf{do}	1886		69,080,071 95
$d\mathbf{o}$	1887		79,031,757 78
\mathbf{do}	1888		82,156,019 97
do	1889		83,732,527 15
do	1890		102,214,948 70
do	1891		128,178,208 51
\mathbf{do}	1892		135,117,267 10
do `	1893		145,436,956 94
do	1894	,	143,114,501 97

The canal was open t	to navigation during the season	of 1889	234	days
do	do	1890	228	\mathbf{do}
\mathbf{do}	do	1891	225	\mathbf{do}
$d\mathbf{o}$	do	1892	233	do
$d\mathbf{o}$	\mathbf{do}	1893	219	\mathbf{do}
do	\mathbf{do}	1894	234	\mathbf{do}

The average number of vessels passing per day for the whole season of 1894 was 62.

R. DEVLIN, Compiler of Canal Statistics.

EXPORTS by Lake from the port of Chicago during 1894.

	UNITED ST	ATES VESSELS.	FOREIGN	Vessels.	То	TALS.
_	Quantity.	Value,	Quantity.	Value.	Quantity	Value.
		\$ ets.	!	\$ cts.		\$ ets.
Corn Bush. Wheat " Flour Brls. Beef "	1,505,733	871,111 23	38,729 4,440	19,864 50 10,000 00 60 00	1,649,408 1,544,462 4,400	721,554 21 890,975 73 10,000 00 60 00
Merchandise Pkgs.			$\tilde{2}$	40 00	5	48 10
wти ^{вс-во} Totals	:	1.592.673 54		29.964 50		1,622,638 04

SHIPMENTS of Grain (in Transit and Export) by Lake from Chicago during 1894.

	Co	orn, Bushels		OATS, BUSHELS.	WHEAT, BUSHELS.	Totals.
	Transit.	Export.	Total.	Transit.	Export.	
Christiansand, Norway					10,000	10,000
Collingwood, Ont				45,024		45,02
Kingston, Ont		1,443,870	1,443,870		1,534,462	2,978,33
Midland, Ont	52,512	104,485	156,997	420,237		577,23
Point Edward, Ont	560,952		560,952	62,812		623,76
Prescott, Ont		65,053	65,053			,
Sarnia, Ont	44,682		44,682	486,454	· · · · · · · · · · · · · · · · · · ·	531,13
Valkerville, Ont		36,000	36,000			•
Totals	658,146	1,649,408	2,307,554	1,014,527	1,544,462	4,866,54

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 1894 (from Report, Board of Trade Chicago):—

1894.	To Buffalo.		To Kingston.		TO MONTREAL, (STEAM.)		Erie Canal, Buffalo to New York		CHICAGO TO NEW YORK, LAKE AND CANAL, INCLUDING BUFFALO CHARGES.		
	Wheat per Bushel	per	Wheat per Bushel	per	Wheat per Bushel	per	Wheat per Bushel.	Corn per Bushel.	Wheat per Bushel.	Corn per Bushel.	
	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	
April 7 do 14 do 21 do 28 May 5 do 12 do 19 do 19 do 26 June 2 do 9 do 16 do 23 do 30 July 7 do 14 do 28 Aug. 4 do 18 do 11 do 18 do 15 do 15 do 20 do 27 Nov. 3 do 10 do 17 do 24 Dec. 1 do 24	111111111111111111111111111111111111111	111111111111111111111111111111111111111	3\\\ 3\\\ 3\\\\ 3\\\\ 3\\\\\ 3\\\\\\ 3\\\\\\	51 51 21 21 21 21 21 21 21	5 \$\frac{1}{2}\$ 4\frac{1}{2}\$ 4\frac{1}{2}\$ 4\frac{1}{2}\$ 4\frac{1}{2}\$ 4\frac{1}{2}\$ 4\frac{1}{2}\$ 5\frac{1}{2}\$	54 429 429 429 43 44 44 44 44 44	34 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1		5.44.4.4.5.4.4.5.5.5.5.5.5.5.5.5.4.4.4.4.4.4.4.5.4.5	

Lake Freights from Chicago to Buffalo on Wheat and Corn; (as reported by the Secretary of the "Merchants' Exchange," Buffalo, N.Y.)

STATEMENT showing the dates of the changes in the ruling rates of lake freights, on wheat and corn from Chicago to Buffalo, during 1894.

1894.	Wheat, bush.	Corn, bush.	1894.	Wheat, bush.	Corn, bush
Opening.	Cts.	Cts.	Opening.	Cts.	Cts.
April 2. do 13. do 16. do 25. do 26. do 27. do 30. May 5. do 7. do 8. do 9. do 10. do 11. do 18. do 17. do 18. do 19. do 19. do 18. do 19. do 18. do 23. do 24. do 29. June 5. do 6. do 14. do 16. do 18. do 23. do 24. do 29. June 5. do 6. do 14. do 16. do 18. do 21. do 23. do 24. do 29. July 13. do 29. July 13. do 29. July 13. do 21. do 29. July 13. do 10. do 14. do 15. do 10. do 14. do 15. do 15. do 15. do 15. do 15. do 16. do 17. do 18.	1 to 2 1 to 1 to 1 to 1 to 1 to 1 to 1 t	1 to 1 to 1 to 1 to 1 to 1 to 1 to 1 to	Aug. 23. do 24. do 26. Sept. 6. do 8. do 15. do 17. do 18. do 20. do 21. do 26. Oct. 3. do 5. do 6. do 8. do 13 do 17. do 25. do 26. do 27. do 28. do 27. do 29. do 20. do 21. do 29. do 30. Nov. 3. do 5. do 13. do 1. do 10. do 21. do 29. do 30. Nov. 3. do 5. do 13. do 15. do 15. do 29. do 29. do 30. Nov. 3. do 5. do 13. do 16. do 19. do 21. do 23. do 28. Dec. 1. do 3. do 4 to close.	1 to 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 to 1

Note.—Oats ranged from $\frac{3}{4}$ cent to $1\frac{1}{4}$ cents per bushel. Corn from Chicago to Kingston ranged from $2\frac{1}{4}$ to 3 cents and wheat from $2\frac{1}{4}$ to 3 cents per bushel during the season. Corn to Port Huron, October 6th at $1\frac{1}{4}$ cents and to Ogdensburg in November, $3\frac{1}{2}$ to $4\frac{1}{2}$ cents per bushel. Rates from Milwaukee about the same as from Chicago.

AVERAGE LAKE FREIGHTS.

The following statement shows the average rates of lake freights on wheat and corn between Chicago and Buffalo during each month in the past ten years, the highest and lowest rate on wheat in each year, and the average rate on wheat each year, in cents, per bushel:—

(Per Report of the Secretary of Merchants' Exchange, Buffalo).

Conin Duchala	May.	June.	July.	Aug.	Sept.	Oct.	Nov.
Grain, Bushels.	Cents.	Cents.		Cents.	Cents.	Cents.	Cents.
$1885 \left\{ egin{array}{ll} ext{Wheat} & \dots & \dots \\ ext{Corn} & \dots & \dots \end{array} \right.$						$\substack{ 3.1 \\ 2.2}$	$\begin{array}{c} 3.2 \\ 2.8 \end{array}$
Highest rate, wheat, 1885, 33c							
$1886 egin{cases} ext{Wheat} & \dots & \dots & \dots \\ ext{Corn} & \dots & \dots & \dots & \dots \end{cases}$	3·1 2·8	$\substack{2.7 \\ 2.5}$	$\substack{2.7 \\ 2.5}$	3·2 2·9	4.5 4.2	4·8 4·6	4·3 4·0
Highest rate, wheat, 1886, 5§c	:; lowest.	, 2c.; aver	rage for th	ie season,	3`6c.		
1887 { Wheat	3.4 3 ¹	5·1 4·7	3·8 3·5	3·5 3·3	4·1 3·8	4·7 4·4	3.6 3.6
Highest rate, wheat, 1887, 6c.	; lowest,	3c.; avera	age for the	e season,	4·1c.		
1888 Wheat Corn	2·1	1.9 1.7	2·2 1·9	$\substack{ 3 \cdot 2 \\ 2 \cdot 9}$	$\begin{array}{c} 3.5 \\ 3.2 \end{array}$	$2.4 \\ 2.1$	2.5 2.3
Highest rate, wheat, 1888, 4c.	; lowest,	2c.; avera	ige for the	e season,	2·7c.		
1889 { Wheat	·· 2·2	$\substack{2.0 \\ 1.8}$	2·1 1·9	2·7 2·4	3·0 2·7	3.0 2.7	2.5 2.3
Highest rate, wheat, 1889, 3.6	c.; lowes	t, 2 c.; av∈	rage for t	he season	, 2 [.] 5e.		
1890 Wheat	1.8	$\begin{array}{c} 2.2 \\ 2.0 \end{array}$	$\frac{2.3}{2.0}$	1.5 1.3	2.0 1.8	1.8 1.6	$\frac{2.0}{1.8}$
Highest rate, wheat, 1890, 2½	c.; lowest	, 1°5c.; av	erage for	the seaso	n, 1 [.] 9c.		
$1891 \left\{ egin{matrix} ext{Wheat} & \dots & \dots & \dots \\ ext{Corn} & \dots & \dots & \dots & \dots \end{matrix} \right.$	1.4	1.2 1.1	2·1 2·0	$\substack{2.7 \\ 2.5}$	$\frac{3.0}{3.3}$	$\begin{array}{c} 2.2 \\ 2.1 \end{array}$	4·1 3·8
Highest rate, wheat, 1891, 54	c.; lowest	, 1c.; ave	rage for tl	his season	, 2·4c.		
$1892 egin{cases} ext{Wheat} & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & $	1·9	1.8 1.6	$\frac{2.0}{1.8}$	$\begin{array}{c} 2.3 \\ 2.1 \end{array}$	$\begin{array}{c} 2.3 \\ 2.1 \end{array}$	$\substack{2\cdot 3\\2\cdot 1}$	2.6 2.3
Highest rate, wheat, 1892, 3c.					2·2c.		
1893 Wheat	1.3 1.2	1.8 1.6	$^{1\cdot2}_{1\cdot1}$	1·3 1·2	1.7 1.5	2·1 1·9	2.0 1.8
Highest rate, wheat, 1893, 23							
1894 { Wheat					1·4 1·3	1·1 1·0	1·3 1·3
Highest rate, wheat, 1894, 3c					1 ·2c.		

Lake Freights from Duluth to Buffalo on Wheat (as reported by the Secretary of the Merchants' Exchange, Buffalo, N.Y.)

The following statement shows the weekly ruling lake freight rates on wheat from Duluth to Buffalo, during the season of 1894:—

1894.	Wheat. Bushels.	1894.	Wheat. Bushels
	Cents.		Cents.
April 1 to 21 Week ending April 28. do May 5. do do 12. do do 19. do do 26. do June 2. do do 9. do do 16. do do 23. do do 30. do July 7. do do do 14. do do do 21. do do do 22.	Not quoted. 2 2 1 to 2 to 2 to 2 to 2 to 2 to 2 to 2 to	Week ending Aug. 11. do do 18 do do 25. do Sept. 1 do do 8. do do 15. do do 22. do do 29 do do 13. do do 20 do do 27. do Nov. 3. do do do 10.	1: 22 22 22 22 23 to 3

In 1885 the range of freight on wheat, Duluth to Buffalo, was 1½ 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 1889, 2 to 5 cents; in 1890, 2 to 5 cents; in $1891, 1\frac{1}{4}$ to $9\frac{1}{2}$ cents; in $1892, 2\frac{1}{4}$ to 4 cents; in $1893, 1\frac{1}{4}$ to $3\frac{1}{2}$ cents; and in $1894, 1\frac{1}{4}$ to 3 cents a bushel.

Wheat was shipped to Kingston, Ontario, per bushel 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, $5\frac{3}{4}$, $5\frac{1}{2}$, $4\frac{1}{2}$, 4\frac{1}{4}, \frac{1}{4} \text{ cents}; in 1891, during May, 3\frac{3}{4}, 3\frac{1}{2}, 3\frac{1}{2}, \frac{1}{2} \text{ cents}, during June, 3 cents, and on July 25th, 2\frac{1}{2} \text{ cents}; in 1892, 5 \text{ cents, in April, 5, 5\frac{1}{2} \text{ cents, in May, 4 cents, in June, 4\frac{1}{2} \text{ cents, in July, 3 cents, in August, 6 cents, in October, 6\frac{1}{2} \text{ cents; in 1893, ranged} from $5\frac{1}{2}$ to $4\frac{1}{2}$ cents in April, $4\frac{1}{2}$ to $4\frac{3}{4}$ cents, in May, 4 to $3\frac{1}{2}$ cents, in June, $2\frac{3}{4}$ to 3 cents, in July, $3\frac{1}{2}$ to $3\frac{3}{4}$ cents, in September, no figures quoted after that date; and in 1894, ranged from $3\frac{1}{4}$ to $3\frac{1}{8}$ cents in May; $3\frac{1}{8}$ cents in June; $2\frac{1}{8}$ cents in July; 21/2 to 31/2 cents in August; 4 cents in September; and 41/2 cents in October. On August 25th and November 3rd, 1894, wheat to Ogdensburg at 31 cents and 41 cents, respectively.

The first arrivals or departure by lake at Duluth in 1894, on April 20th; in 1893, on May 8th; in 1892, on April 21st; in 1891, on April 30th; in 1890, on April 23rd; in 1889 on April 20th; in 1888, on May 12th; in 1887, on May 8th; and in

1886, on May 4th.

LAKE FREIGHT RATES FROM TOLEDO TO BUFFALO ON WHEAT.

The following statement shows the ruling rates of lake freights on wheat from Toledo to Buffalo during the season of 1894, on the dates specified; (as reported by the Secretary of the Merchants' Exchange, Buffalo):—

Date, 1894.	Wheat, bush.	Date, 1894.	Wheat, bush.
Opening to May 10. May 10th to July 11th July 12th to September 13th,	Cts.	September 14th to November 16th November 17th to close	Cts.

The range for 1886 was $1\frac{3}{4}$ to 3 cts.; for 1887, $2\frac{1}{4}$ to 3 cts.; for 1888, $1\frac{1}{2}$ to $2\frac{1}{8}$ cts.; for 1899, $1\frac{1}{4}$ to 2 cts.; for 1890, $1\frac{1}{2}$ to 2 cts.; for 1891, 1 to 3 cts.; for 1892, $1\frac{1}{2}$ to $2\frac{1}{8}$ cts.; for 1893, 1 to 2 cts.; and for 1894, 1 to 2 cts. per bushel.

From Toledo to Ogdensburg, wheat and corn shipped at 6 to 7 cents in 1887; at 4½ to 6 cents for wheat, and 5 cents for corn in 1888; and 5 to 5½ cents for wheat in 1889, per bushel. From Toledo, on October 8th, 1887, corn shipped to Kingston at 3½ cents, and on November 12, at 4½ cents per bushel. In 1888, corn, Toledo to Kingston at 4½ to 3 cents, and in 1891, rye, Toledo to Kingston, at 3 cents per bushel. From Toledo on June 2nd, 1887, wheat shipped to Montreal by propeller, at 6½ cents; on June 14th, corn at same price; but on September 26th, the rate on corn was only 5 cents per bushel. In 1888, corn, Toledo to Montreal at 6 to 5½ cents, and wheat at 5½ cents per bushel. From 1889 to 1894, no shipments to Montreal or other places in Cauada reported.

CANAL FREIGHTS FROM BUFFALO TO NEW YORK.

The following table shows the changes in the ruling rates of freight to New York from Buffalo, on the days specified in 1894:—(As reported by the Secretary, Merchant's Exchange, Buffalo.)

Date.	Wheat, bush.	Corn, bush.	Date.	Wheat, bush.	Corn, bush
1894.	Cts.	Cts.	1894.	Cts.	1894.
May 1	34	3	Sept. 24	$3\frac{1}{4}$	3
do 10	$egin{smallmatrix} 3 \ 2rac{3}{4} \ \end{smallmatrix}$	23 21	do 26	3 3	2± 2\$
do 27	3	$\frac{21}{23}$	do 2	3 to 27	23 to 25
July 9 do 26	3 <u>1</u> 31	. 3 <u>1</u>	do 5	2 5 25	24
Aug. 15	31	3	do 10	23 to 25	2½ to 25
do 12	3½ to 4	3 1 31 to 33	do 12do 18	2g to 3	2\frac{2\frac{2}{5}}{10} \frac{2\frac{2}{5}}{2}
do 13do 19	4 38	33	do 19 to close	3	2

Freight on oats varied from 1\frac{3}{4} to 2\frac{3}{4} cents per bushel.

Pine lumber, per 1,000 feet, was carried from Buffalo and Tonnawanda to New York as follows: Opened at \$2.00; changed on May 3rd to \$1.90; October 2nd, \$1.75; and November 7th to close, \$2.00. Rates to Albany, 50 cents per 1,000 feet, less than preceding figures.

AVERAGE CANAL FREIGHTS.

BUFFALO TO NEW YORK.

The following statement shows the average rates of canal freights on wheat and corn between Buffalo and New York during each month in the past ten years, and the highest and lowest rates on wheat, and average rate on wheat in each:—

(Smaller	May.	$\mathbf{J}_{\mathbf{une.}}$	July.	Aug.	Sept.		Nov.
(f rain.	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.
$1885 \left\{ egin{array}{ll} ext{Wheat} & \dots & \dots \\ ext{Corn} & \dots & \dots \end{array} \right.$	4.2	3·1 2·9	3.0	$\begin{array}{c} 3.7 \\ 3.3 \end{array}$	3·5 3·2	4·2 3·9	5.0 4.5
Highest rate, wheat, 1885, 6c.						., .,	10
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					n, 5c.		
$1887 \left\{ \begin{matrix} \text{Wheat} \\ \text{Corn} \end{matrix} \right $	5·1 4·6	4·5 4·1	3·8 3·4	4.0 3.6	4·5 4·1	4·8 4·4	5·8 5·3
Highest rate, wheat, 1887, 7c.	; lowest,	3 5c. ; a	verage for	the seaso	n, 4 6c.		
1888 { Wheat	34	2·5 2·3	$\begin{array}{c} 2.5 \\ 2.3 \end{array}$	4·1 3·8	3·9	$\frac{3.7}{3.4}$	$\begin{array}{c} 3.5 \\ 3.2 \end{array}$
Highest rate, wheat, 1888, 4 5	ic.; lower	st, 2c. ; a	verage for	the seaso	n, 3 4c.		
$1889 \begin{cases} \text{Wheat} & \dots \\ \text{Corn} & \dots \end{cases}$	4.0	3·8 3·4	4.0 3.6	4·4 3·9	5·0 4·5	5·0 4·5	5.0 4.4
Highest rate, wheat, 1889, 5c.					n, 4·8c.		
$1890 egin{cases} ext{Wheat} & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & $	3·9	3·8 3·4	$\substack{3.6\\3.2}$	3·8 3·4	3·9 3·5	4·0 3·6	3·5 3·1
Highest rate, wheat, 1890, 4 2					n, 3·8c.		
1891 (Wheat	$\begin{array}{ccc} & 2.8 \\ & 2.5 \end{array}$	$\substack{2.9 \\ 2.6}$	$\substack{2.8 \\ 2.5}$	3·8 3·5	4·2 3·8	4.6 4.2	4.0 3.6
Highest rate, wheat, 1891, 43							
$1892 egin{cases} ext{Wheat} & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & $	2.7 2.4	$\begin{array}{c} 2.2 \\ 2.0 \end{array}$	$\frac{2\cdot 4}{2\cdot 2}$	3.0 2.6	3·8 3·4	4·7 4·4	4.6 4.3
Highest rate, wheat, 1892, 6c.	lowest,	, 2 1 c. ; av	erage for	the season	ı, 3·5c.		
1893 { Wheat	4.8 4.4	4·8 4·4	4·6 4·3	4.6 4.2	4.0 3.6	4·7 4·3	4·8 4·5
Highest rate, wheat, 1893,							
1894 Wheat	3·1 2·8	2.9 2.6	3.0 3.3	3·4 3·1	3·6 3·6	2:9 2:6	3.0 2.7
Highest rate, wheat, 1894, 4c.							

NOTE. -Canal free of tolls.

FREIGHT, TOLLS, ELEVATING AND STORAGE RATES COMPARED.

The following statement shows the receipts of grain and flax-seed at Buffalo, the average canal freight on wheat, and the tolls on wheat to New York, and the elevating and storage rates at Buffalo for a series of year:—(as reported by Secretary, Merchants' Exchange, Buffalo.)

$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Bush. 32,208,039 11,319,313 88,703,666 55,498,955 55,660,198 52,833,451 44,207,121 511,822,292 78,828,443	Cts. 11 · 2 12 · 6 13 · 0 11 · 4 10 · 0 7 · 9 6 · 6 7 · 4	Cts. 3:1 3:1 3:1 3:1 3:1 2:0 2:0	Cts. 14 14 14 14 14 14 14 14
871 6 872. 5 873 6 874 5 875. 5 876. 4 877. 6 878. 7 879. 7 880. 10 881. 5 882. 5 883. 6 884. 5 885. 5 886. 7 886. 7 887. 88	i1,319,313 68,703,666 65,498,955 65,660,198 62,833,451 14,207,121 61,822,292	12·6 13·0 11·4 10·0 7·9 6·6	3·1 3·1 3·1 3·1 2·0 2·0	14 14 14 14
871 6 872. 5 873. 6 874. 5 875. 5 876. 4 877. 6 879. 7 880. 10 881. 5 882. 5 883. 6 884. 5 885. 5 886. 7 887. 887.	i1,319,313 68,703,666 65,498,955 65,660,198 62,833,451 14,207,121 61,822,292	12·6 13·0 11·4 10·0 7·9 6·6	3·1 3·1 3·1 3·1 2·0 2·0	14 14 14 14 14 1
572. 5 573. 6 574. 5 575. 5 376. 4 377. 6 378. 7 380. 10 381. 5 382. 5 383. 6 384. 5 385. 5 386. 7 387. 8	58,703,666 55,498,955 55,660,198 52,833,451 14,207,121 51,822,292	13·0 11·4 10·0 7·9 6·6	3·1 3·1 3·1 2·0 2·0	14 14 14 1
673 6 874 5 875 5 876 4 877 6 878 7 880 10 881 5 882 5 883 6 884 5 885 5 886 7 887 887	55,498,955 55,660,198 52,833,451 14,207,121 51,822,292	11·4 10·0 7·9 6·6	3·1 3·1 2·0 2·0	1 1 1 1 1
574 5 5755 5 576 4 577 6 578 7 579 7 880 10 881 5 882 5 883 6 884 5 885 5 886 7 887 887	55,660,198 52,833,451 14,207,121 51,822,292	10·0 7·9 6·6	$\begin{array}{c c} 3.1 \\ 2.0 \\ 2.0 \end{array}$	14
575. 5 576. 4 577. 6 378. 7 479. 7 380. 10 381. 5 382. 5 383. 6 384. 5 385. 5 386. 7 387. 88	52,833,451 14,207,121 51,822,292	7·9 6·6	2·0 2·0	14
876 4 \$77 6 \$78 7 \$80 10 \$81 5 \$82 5 \$83 6 \$84 5 \$85 5 \$86 7 \$87 88	14,207,121 51,822,292	6.6	2.0	î
677. 6 578. 7 779. 7 880. 10 881. 5 882. 5 883. 6 884. 5 885. 5 886. 7 887. 887.	1,822,292		,	
578 7 579 7 380 10 381 5 382 5 383 6 384 5 385 5 386 7 387 88			1.0	i
379. 7 380. 10 381. 5 382. 5 383. 6 384. 5 385. 5 386. 7 387. 88		6.0	1.0	i
980. 10 981. 5 982. 5 983. 6 984. 5 985. 5 986. 7 987. 88	5,089,768	6.8	1.0	1
81 5 82 5 83 6 84 5 85 5 86 7 87 8	05,133,009	6.5	1.0	1 1
382 5 383 6 384 5 385 5 386 7 387 8	6,389,827	4.7	1.0	7
383 6 384 5 385 5 386 7 387 8	51,501,503	5.4	1.0	7
584 5 385 5 386 7 387 8	55,722,080	4.9	None.	2
885	58,011,800	$\hat{4} \cdot \hat{2}$	do	8
886	52,671,090	3.8	do	Ĩ
887	75,570,850	5.0	do	¥ 2
7000	37,073,570	4.6	do	. 8
	73,977,390	3 4	do	37
	2,290,550	4.8	do	3
390	91,994,680	3.8	do	1 2
	35,315,510	3.5	do	8
		3.5	do	7+13+131+131+131+131+131+131+131+131+131
	38 879 56A	3 3 4·6	do	\$
894 10	38,872,560 40,796,410		ι αο	· 🕺

NOTE.—Prior to 1870 tolls 6:21 cents per bushel, and the elevating charge 2 cents per bushel.

AVERAGE FREIGHT CHARGES PER BUSHEL

For the transportation of wheat and corn from Chicago to New York for a series of years.

(From Report of Board of Trade, Chicago.)

		Corn.		!	WHEAT.	
	By lake and canal.	By lake and rail.	By all rail.	By lake and canal.	By lake and rail.	By all rail.
58	127		3619	1550		386
59			3248	1663		.348
60 .	a 0833		3248	a · 095		348
61	a 1062		3881	a 1210		415
62	a 0957		4480	a 1062		480
63	a : 063		4592	a 072		. 492
64	a · 09		5600	a 0952		60
65	a 0864		4188	a.0894		148
66	a 1075		4312	a 1377		465
67	a 0511		4176	a.08		. 44
68	a.0604		3532	a 0802		37
69	a 0584	2355	3320	a 0651	2520	35
70	a 16	2220	28	a 0677	2250	.30
71	a 0754	2372	2968	a 0687	2542	31
72	a 1072	2660	3266	a · 1110	2950	34
73		2298	2893	a 0917	· 2461	31
74	a.0382	1388	2450	a 0400	1709	.26
$oldsymbol{7} ilde{5}$		1303	2240	a 0378	1389	24
76	5:0875	1079	1574	6.0982	1136	16
77	b 0959	1406	1890	b · 1109	1546	· 20
78	b:0883	1053	1652	b.0996	1209	17
79	b·1049	1220	1456	b 1187	1313	17
80	6.1341	1443	1748	b 1313	1580	• 19
81	b:0777	0942	1340	· 6.0867	1049	•14
$8\overline{2}$	6.0672	1028	1350	b 0723	1091	· 14
83	b 0803	· 11	1512	b · 0901	1163	·16
84	b 0655	.085	1232	b.07	·10	· 13
85	b · 063	0801	1232	b 0654	0902	13
186	b·0845	1120	· 14	b · 0910	12	15
887	b:0850	1120	1470	b.0950	12	· 15
888	b·0671	1026	1354	b 0705	1114	· 14
89	b.0632	0819	126	b 0692	0897	15
90	b.0593	0732	1136	b:0676	0852	· 14
91	b 0632	0753	1400	b · 0695	0857	15
992	b.0595	0721	1296	b · 0645	0759	· 13
93	b 0718	0797	1365	6.0766	0848	· 14
94	b·0493	0650	1232	6.0511	0700	· 13

a To Buffalo only. b Including charges and tolls,

FOREIGN FREIGHT RATES.

Annual average Freight Rates on Grain, Flour and Provisions (per 100 lbs.), from Chicago to European Ports, by all Rail to Sea-board and thence by steamers.

Shipped to	Articles.	1894.	1893.	1892.
,	1	\$	*	
Liverpool	Grain	3250	3410	3287
do	Sacked flour	3316	3513	3625
do	Provisions	4406	4547	4575
Glasgow	Grain	3463	3585	3550
do	Sacked flour	3503	3625	3900
do	Provisions	4659	4828	• 4969
London		3288	3760	3469
do	Sacked flour	3493	3794	368
do	Provisions	4575	4828	468
Antwerp	do	4688	4828	502
Hamburg		5000	5250	5000
Amsterdam		5000	5000	.5500
Rotterdam		5000	5000	5500
Copenhagen		5531	5531	609
Stockholm		6656	6656	721
Stettin		5531	5531	609
Bordeaux	•	6250	6000	6200

The following statement shows the ruling freight rates on coal per net ton, in cents, from Buffalo to the Ports named, during the season of 1894, for the week ending on the dates specified. LAKE FREIGHTS ON COAL FROM BUFFALO TO CHICAGO AND OTHER PORTS.

Ashland.	C £	:		:	:		:		:	:			. %	3		: : : : : : : : : : : : : : : : : : : :			:	:	:		ន	€
Washburn.	Ç Ş				: : : : : : : : : : : : : : : : : : : :		·:		:				ន			•					:		:	:
Bay City.	Cts.	:		ě	23		26	នុង	<u>8</u>	: :	88	88	ક્ક	38	8	8 9	3 %	3	8	- SS	:	35	8	: : :
Saginaw.	Cts.	:			:	: :	88	88	8	355	3	8	8		38	:			8	:				9:
. Васіле.	Cts.	:		06	- - - - - - - - - - - - - - - - - - -	88	: 4	2 2	45	G 4	4 5		C F		32	:	.5	3 15	:	8	99	09		- 67
Detroit.	Cts.			:	:		ន	នន	ន	8		-: 83		3		: 8	ន	:	ន	<u>ন</u>	:	<u>.</u>	8	:
Toledo.	Cts.	*8 * 8	88	 	3 5	3 : 8	88	88	នេះ	8 %	8	88	38	8 8	8	83	8 8	3 %	33	:	38	3 8	ន	 83
Вреровии.	Cts.		: :		:	%	•	⊋ :	:	.64	:	:				:::::::::::::::::::::::::::::::::::::::	:							:
Gladetone.	Cts.		3 53	22.	3.5	341	4	15 50 25 15 10 25		88	88	8	8.		8	8	₹	99	8	8	88	88	ន	8
Стееп Вау.	Cts.			:	:		3 \$	3 3	:	.4	3	:		2	28	28	:5	3		8	:	200		:
Duluth and Superior Ports.	Cts.	 	3 83	cl	915	313		5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		88	38	8	88	25 to 30	}	8 3	38	88	8	ଛ	88	38	ន	8
Мі] жапкее.	Cts.	88	38	*8 8	8 8	388	33	2 2	99	\$ 4	3	9:		40 to 50	1	යි	 3 2	3 25	.28	28	25.5	\$	55 to 65	3
.ogsoidO	Cts.	¥6	3 53	 #3 &	88	35 to 40	3	2 4	29:	6 ₹	\$	3	8 .4	45 to 50	}	දි ද	28	3.8		50 to 55	 12:	3	60 to 70	22
nding.		:		:	:		:			:		•	:			:	:	•		•	:	: ;		:
1894 Week ending.					May	161 261																		

The following statement shows the ruling freight rates on coal per not ton, in cents, from Buffalo to the Ports named, during the season of 1894, for the week ending on the dates specified.—Concluded. LAKE FREIGHTS ON COAL FROM BUFFALO TO CHICAGO AND OTHER PORTS.

.bushdsA	Č.			
.trnddesW	Çţ.			:
Bay City.	Cts.	40	40	
.waniga&	Cts.	40		:
. Явсіпе.	Cts.	75 75		
Detroit.	Cts.			
Toledo.	Cts.	88	88	ક્ષ
Вреьовап.	Cts.			
(4]sdetone.	ç Ö	88	88	
Стееп Вау.	Çts.			
bas atulud estro Torreque	Cts.	88	88	
Міјувикее.	Cts.	52.53	55 to 75	09 ot c/
Chicago.	Cts.	38	60 50 50	0 to close. (0 to 60 (7) to 60 (
1894 Week ending.		. 10		
*		Nov.	9 9 9	8 27

TOTAL VALUES of Merchandise Received from British North America for Immediate Transit across United States Territory, for Immediate Transhipment in Ports of the United States to British North America, and so shipped, during each year from 1873 to 1894 inclusive.

		COUNTRIES	Countries from which Received.	RECEIVED.			COUNTRIE	COUNTRIES TO WHICH SHIPPED.	Shipped.	
Value Derivery 9/mir Trees		Britis	British North America	erica.			Britis	British North America	erica.	
I BAK ENDING SOIH SCRE.	Nova Scotia, New Brunswick, and Prince Edward Island.	(Quebec, On- tario, Mani- toba and the North- west Terri- tories.	British Columbia.	Newfound- land and Labrador.	Total.	Nova Scotia, Quebec, On New tario, Mani Brunswick, toba and and Prince west Terri- Island. tories.	Quebec, Ontario, Manitoba and the Northwest Territories.	British Columbia.	Newfound- land and Labrador.	Total.
	es cts.	e cts.	& cts.	& cts.	es cts.	& cts.	& cts.	e cts.	s cts.	s cts.
1873. 221874	495,289 449,655	12,894,164 13,616,344	5,240 97,691		13,394,693 14,163,690	5,282,290 7,150,036	21,320,174 19,843,169	181,720		26,784,184 27,310,739
1875. 1876.	443,570 261,443		256,074 195,047	1,137	18,042,577 22,591,902	8,339,596 9,102,600	20,283,639 14,658,358	658,836	26	24,419,888
1877	160,658		218,418		12,471,695	2,879,422	15,551,238	544,018 524,013	2,475 934	12,912,685
1879	194,129		280,079	55	12,081,095	889,539	11,520,877	476.824	2,347	12,889,587
1880 1881	215,131		72,555		17,002,046	1,778,836	20,857,827	719,268	88	23,356,264
1882	164,990		113,018	3.82	28,543,178	2,732,665	34,005,845 35,878,389	855,784	7.335	37,595,484 39,312,568
1884	656,233		188,041	3	13,419,227	1,740,900	19,717,466	1,475,833	5,186	22,939,385
1885	933,806		308,691 359,104	633 32.079	13,523,613	1,635,442	16,448,942 16,369,429	1,615,233	6,174	20,241,079
1887	1,684,730		213,816		11,504,721	1,621,748	19,930,296	635,841	02,	22,187,955
1888	1,525,048		372,934	27,134	8,542,817	1,781,028	13,459,169 18,993,957	870,822	1,137 2,704	22,146,975
1890	3,070,657	12,449,772	306,897	174,584	16,001,910	5,277,210	21,140,198	913,106	4,690	27,335,204
1891	3,859,079	15,310,945	422,806	187,640	19,780,470	5,605,614	21,695,992	547,144	34,273	27,883,023
1892	4,393,062	19,005,704	201,373	328,116	17,885,250	2,079,783	24,189,181	428, 188	26,289	22,720,111
1894	1,009,097	15, 649, 881	348,069	973 467	17,342,093	1 831 417	17,880,688	463,471	6,640	20,182,216

TOTAL VALUES of Merchandise received from the Principal and other Foreign Countries for Immediate Transit across United States
Territory or for Immediate Transhipment in Ports of the United States to other Foreign Countries, and so shipped, for each
Year from 1868 to 1894 inclusive.

Total Value of	Merchandise received and shipped.	99€	21,516,604 22,1095,984 22,1095,984 22,1095,984 23,135,037 31,385,320 40,686,283 22,387,148 22,387,148 22,387,144 22,625,655 28,865,459 28,865,4
	Other Countries.	€49-	1,394,875 1,239,861 1,318,275 1,101,496 1,107,496 1,006,381 1,006,381 1,006,381 1,103,008 1,172,032 1,172,
	Cuba.	69	116,521 172,875 345,291 370,493 219,771 520,493 226,311 319,611 177,340 177,340 319,257 321,651 221,651 221,651 221,651 221,651 221,651 221,651 221,651 221,651 231,65
ich shipped.	Mexico.	9 €	483, 643 448, 300 340, 473 340, 473 353, 113 353, 113 353, 113 353, 113 353, 113 36, 140 315, 16
Countries to which shipped	British North American Possessions.	%	14, 375, 419 15, 033, 821 16, 689, 037 18, 406, 475 24, 042, 79 27, 74, 184 27, 340, 239 28, 419, 88 28, 34, 103 28, 356, 203 28, 356, 203 28, 356, 203 28, 356, 203 28, 356, 203 28, 356, 203 28, 356, 203 28, 356, 203 28, 356, 203 28, 356, 203 28, 356, 474 37, 505, 474 37, 505 28, 111, 656 27, 883, 678 2
Con	Germany.	99	3, 212, 123 1, 547, 642 1, 547, 642 1, 3, 866, 642 1, 4, 866, 642 1, 108, 238
	Great Britain and Ireland.	₩	2,025,023 2,633,525 4,031,319 2,743,494 17,224,912 11,791,200 11,791,200 9,577,900 9,577,900 11,312,806 11,312,806 11,312,806 11,312,806 11,312,806 11,312,806 11,312,806 11,312,806 11,312,806 11,312,806 11,312,806 11,312,806 11,312,813 10,655,465 11,965 11,965 11,965 11,965 11,965 11,965 11,965 11,965 11,965 11,965 11,965 11,965 11,965 11,
	Other Countries.	649	1,576,137 1,767,037 1,913,200 1,847,102 1,284,462 1,865,330 1,466,738 1,481,103 1,942,465 2,222,122 2,222,122 2,222,122 3,812,038 1,426,712 4,578,713 4,578,713 4,578,713 8,548,713 6,652,610 6,588,73 6,652,610 6,652,6
3d.	Cuba.	9	4, 263, 621 3, 300, 227 3, 300, 227 3, 300, 227 4, 503, 883 1, 753, 904 4, 503, 883 1, 664, 165 2, 662, 550 5, 662, 550 5, 662, 550 5, 663, 563 8, 125, 663 8, 125
hich receive	Mexico.	64	14,967 108,715 344,173 344,173 1174,104 1174,104 118,882 118,882 118,882 146,822 221,822 221,822 241,300 404,124 386,236 111,635 111,635 111,635 113,447 111,635 111,635 113,447 111,635 111,6
ntries from which received	British North American Possessions.	69	4,864,209 7,595,673 7,594,060 9,276,108 113,394,603 114,163,690 114,163,690 112,241,695 112,241,695 112,241,695 112,241,695 112,241,695 112,241,102 113,410,227 11,504,721 11,504,721 11,342,693 11,864,123 11,86
Coun	Germany.	6	132,074 332,806 332,806 321,337 220,734 321,495 321,495 321,496 321,496 321,496 321,496 321,917 321,917 321,918 321,91
	Great Britain and Ireland.	649	10,664,576 10,891,638 10,210,455 11,633,231 13,143,915 11,344,915 13,732,085 10,311,394,197 10,311,39 14,804,197 10,311,139 14,808,652 18,911,637 20,242,222 18,911,637 20,242,222 11,064,186 11,064,186 11,064,186 11,064,186 11,064,186 11,064,186 11,064,186 11,064,186 11,064,186 11,064,186 11,064,186 11,064,186 11,064,186 11,064,186 11,064,186 11,064,186 11,064,186
	Year ending June 30.		1888 1888 1889 1881 1881 1881 1881 1881

1,314,960,966

26,573,774 24,183,299 19,144,667 21,389,666

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FOREIGN CARRYING TRADE.

in American (coin and bullion are included from 1857 to 1879, inclusive,) as method of transportation of specio and merchandise cannot be Percentage carried <u>virovido 4 virdo i i i o diversido e a 884786518</u> VALUE of the Imports and Exports of the United States carried respectively in cars and other land vehicles, in American vessel and in foreign vessels during each Fiscal Year, from 1857 to 1894 inclusive, with the percentage carried in American vessel vessels. 723, 850, 823 (607, 257, 571 (607, 257, 571 (607, 258, 550 (508, 957, 606 (508, 957, 606 (508, 857, 607 (608, 8 , 210, 519, 399 , 202, 708, 609 , 503, 593, 404 , 545, 041, 974 , 475, 181, 831 , 547, 020, 316 Total. TOTAL IMPORTS AND EXPORTS. In Foreign vessels. In cars and In American 167,402,872 325,711,861 297,834,904 297,981,573 289,956,772 352,969,401 353,664,172 345,341,101 331,257,792 331,676,173 331,676,936 313,050,936 272,015,692 272,229,45 272,229,45 272,229,45 272,229,45 273,229,45 273,229,45 274,426,60 273,699,60 273,699,60 274,734,60 194,734,60 194,734,60 184,061,486 350, 451, 994 22, 985, 510 27, 650, 770 28, 080, 978 28, 080, 978 29, 388, 285 20, 388, 285 20, 471, 384 20, 471, 384 20, 481, 388 20, 481, 381 20, 481 20, 48 and vehicles other **99** 111,745,825 81,153,133 1121,030,394 102,031,394 104,501,71,507 1104,501,607 1104,50 533,885,971 501,838,949 492,215,487 539,334,703 669,583,564 600,703,534 777,162,714 641,469,967 In cars and In American In Foreign vessels. 251,214,857 243,411,288 273,682,962 273,682,962 125,427,33 125,427,33 102,83,40 102,83,40 102,83,40 103,73,40 110,57 164,826,214 1166,551,624 1109,025,239 1116,955,329 96,962,919 104,418,210 98,652,828 88,652,828 98,652,828 78,406,689 72,991,253 EXPORTS. vessels. and vehicles 7,798,156 10,705,089 10,709,430 8,509,209 7,304,336 6,767,170 7,511,305 7,439,862 5,838,938 8,838,938 8,838,938 8,838,338 8,83 other 4 101,773,971 72,841,3134 134,001,399 1134,106,098 113,497,629 113,497,629 113,497,629 113,497,629 22,85,539 20,612,336 20,612,231 20, In cars and In American In Foreign 228, 164, 85 92, 154, 95 92, 274, 106 109, 74, 50 112, 90, 38 117, 296, 38 117, 296, 38 117, 296, 23 118, 295, 23 118, 295, 23 118, 295, 23 118, 295, 23 118, 295, 23 118, 295, 23 117, 38, 39 117, 38, 39 117, 38, 39 117, 38, 39 117, 38, 39 117, 38, 39 117, 38, 39 117, 38, 39 117, 38, 39 117, 38, 39 117, 38, 39 117, 38, 39 117, 38, 39 117, 38, 39 117, 38, 39 117, 38, 39 117, 38, 39 117, 38, 39 117, 38, 39 118, 38, 39 119, 38, 38 119, 38 119, 38 119, 38 119, 38 119, 38 119, 38 119, 38 119, 38 146, 499, 282 143, 590, 353 149, 317, 368 133, 631, 146 130, 266, 826 136, 002, 290 135, 046, 207 IMPORTS. vessels. land vehicles 15, 187, 334 17, 635, 681 17, 635, 681 14, 513, 335 12, 183, 667 10, 697, 667 10, 697, 667 11, 983, 823 11, 193, 213 17, 213 17, 21 separately stated. 4 ending June 30. 275 275

VALUE of the Imports and Exports of the United States carried respectively in cars and other land vehicles, etc.-Continued.

Percentage carried	in American vessels.	13 - 74 12 - 23 11 - 24 11 - 24 12 - 25 13 - 25 13 - 25 13 - 25 13 - 25 13 - 25 13 - 25 13 - 25 14 - 25 15 16 - 25 16 - 25 17 - 25 17 - 25 18
gi	Total.	\$ 1,410,911,621 1,487,533,027 1,729,397,006 1,837,580,610 1,626,682,075 1,468,290,672
Total Imports and Exports.	In Foreign vessels.	\$ 1,174,697,321 1,217,063,541 1,371,116,744 1,450,101,087 1,564,559,651 1,428,316,568 1,737,022,496
TOTAL IMPORT	In cars and In American In Foreign In cars and In American In Foreign other vessels.	\$ 190,857,473 203,805,108 202,451,086 206,439,725 220,173,735 197,765,507
	In cars and other land vehicles	\$ 64,356,827 66,664,378 73,576,203 72,856,1194 72,947,224 87,984,041 78,844,522
•	In Foreign vessels.	\$ 606, 474, 964 630, 922, 669 747, 376, 644 773, 589, 324 916, 023, 675 733, 132, 174 769, 212, 122
Exports.	In American vessels.	\$ 67,332,175 83,022,198 77,502,138 78,908,047 81,033,844 70,670,073
	In cars and other land vehicles	\$ 22,147,388 28,436,517 32,949,902 31,923,439 43,862,947 49,221,427
	nmerican In Foreign vessels.	\$ 568,222,357 586,120,881 623,740,100 676,511,763 648,535,976 695,184,394 503,810,334
IMPORTS.	In American vessels.	\$ 123,525,238 120,782,910 124,948,948 127,471,678 130,139,891 127,095,434 127,095,434 127,095,434
•	In cars and In An other vesiland vehicles	\$ 32,200,450 38,227,861 40,621,361 40,932,755 41,11,094 22,623,096
Year	June 30.	1888 1889 1890 1891 1892 1893 1894

Notes.—1. The amounts carried in cars and other land vehicles, were not separately stated prior to July 1, 1870. 2. Exports are stated in mixed gold and curgency values from 1862 to 1879, inclusive.

STATEMENT showing the Total Values of Foreign Merchandise transported in the In Transit and Transhipment Trade of the United States with the British North American Possessions during each year from 1871 to 1894.

Year ending 30th June.	Received for from Br	transit and to the transit of the transit and to the transit and the transit a			ransit to or thish North An Possessions.	
6	By Land.	By Water.	Total.	By Land.	By Water.	Total.
	\$	\$	\$	\$	\$	*
871	6,035,585	1,918,475	7,954,060	15,624,591	2,781,884	18,406,47
872		1,038,310	9,276,169	19,357,342	4,685,448	24,042,79
873		1,693,906	13,394,693	20,178,666	6.605.518	26,784,18
874	12,695,590	1,468,100	14,163,690	20,572,299	6,938,430	27,510,73
875	16,890,022	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	10,314,534	1,889,524	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,		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		375,729	13,419,227	22,120,587	818,798	22,939,38
.885		767,927	13,523,613	19,105,476	594,982	19,700,4
.886		1,267,676	10,861,020	19,428,867	812,212	20,241,07
1887		2,127,680	11,504,721	20,178,365	2,009,590	22,187,9
.888		2,033,793	8,342,817	13,347,876	2,063,780	15,611,6
.889		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
.891		1,714,545	19,780,470	25,185,706	2,697,317	27,883,0
.892		2,581,842	23,928,255	23,989,746	2,714,368	26,704,1
1893		4,077,911	17,885,573	20,151,432	2,568,679	22,720,11
l894	13,501,664	3,840,429	17,342,093	17,974,332	2,207,884	20,182,21

NOTE.—This movement forms no part of the import and export trade.

C.—TABLE showing the Tonnage of the undermentioned Articles, moved on

			VE	SETABLE FOOD	.		
YEARS.	Flour.	Wheat.	Corn.	Barley.	Oats.	Rye.	Other Vegetable Food.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
1869	71,051	670,534	256,475	99,012	92,309	13,489	99,743
1870	54,978	658,524	193,129	123,191	117,941	19,520	127,727
1871	41,211	748,549	672,057	113,992	129,891	34,563	109,935
1872	20,534	403,903	902,753	120,061	92,959	13,357	120,753
1873	19,307	803,064	637,296	70,586	70,023	30,160	114,735
1874	29,134	772,163	519,203	98,654	59,408	8,215	280,821
1875	17,635	744,293	282,031	104,475	62,717	8,309	86,090
1876	9,290	416,376	365,254	96,494	52,147	19,949	104,783
1877	8,923	448,043	723,458	139,453	66,045	35,948	77,114
1878	5,904	844,555	734,993	89,534	85,029	64,613	88,106
1879	7,164	949,466	621,180	96,144	23,164	59,210	77,071
1880	8,266	966,052	1,156,619	106,247	20,893	26,340	86,673
1881	6,926	444,832	475,823	81,587	30,321	15,484	61,588
1882	9,372	642,215	251,687	96,650	22,180	43,372	53,300
1883	9,047	573,740	522,978	58,787	51,607	95,246	67,595
1884	7,251	790,409	198,216	65,008	52,696	71,462	51,944
1885	6,869	565,922	359,982	64,587	8,234	10,211	47,505
1886	9,005	993,129	354,765	62,854	7,278	3,073	59,782
1887	4,089	936,840	446,617	75,458	35,365	6,717	47,678
1888	3,287	491,419	499,218	41,100	70,315	12,532	49,087
1889	4,429	484,141	592,550	66,110	63,674	36,329	49,663
1890	3,489	353,738	616,702	90,754	48,438	21,657	33,123
1891	3,126	756,101	142,141	71,903	16,362	68,771	33,951
1892	4,879	620,768	150,269	51,596	72,444	4,236	33,807
1893	2,367	1,093,927	252,283	49,651	24,714	6,518	20,656
1894	2,909	903,361	275,377	89,700	100,874	5,288	22,620

all Canals in the State of New York, during a series of Twenty-six Years.

			HEAVY G	oods.		
Total.	Railway Iron.	Other Iron.	Salt.	Coal.	Ores.	Total.
Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
1,302,613	137,677	79,652	263,333	1,324,408	183,992	1,989,06
1,295,010	135,930	89,708	266,740	1,558,185	238,802	2,289,3
1,850,198	178,269	100,310	248,709	1,194,037	289,952	2,011,2
1,674,320	161,667	96,996	248,558	1,462,590	377,592	2,347,4
1,745,171	53,363	62,581	216,706	1,625,859	415,968	2,374,4
1,767,598	24,511	82,955	173,590	1,413,162	232,544	1,926,7
1,305,550	36,603	95,305	186,785	1,217,091	283,219	1,819,0
1,064,293	11,691	69,450	114,070	1,036,698	173,530	1,405,4
1,498,984	10,341	58,828	156,918	1,286,881	250,573	1,763,5
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	1,548,7
2,371,090	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,
1,118,776	58,921	122,786	108,040	1,228,435	364,361	1,882,
1,379,000	46,553	47,412	190,392	1,152,849	293,892	1,731,
1,236,986	28,513	54,471	161,783	954,288	210,610	1,400,
1,063,310	12,215	38,726	161,272	1,025,941	195,750	1,433,
1,489,886	10,878	152,030	112,002	857,884	269,914	1,402,
1,552,764	21,368	224,979	124,054	905,424	243,578	1,539,
1,166,958	2,596	43,881	106,344	1,219,680	259,269	1,631,
1,296,896	3,278	78,135	112,100	1,094,897	234,948	1,523,
1,167,901	5,800	26,804	93,181	830,154	202,072	1,157,
1,092,355	1,960	36,770	81,232	881,502	215,686	1,217,
937,999	524	40,073	93,216	832,397	136,612	1,102,
1,450,116	536	25,204	52,094	741,934	102,275	922,
1,400,129	267	22,614	70,353	609,368	37,641	740,

D.-TABLE showing the Tonnage of the undermentioned Articles, moved through

			$V_{\mathbf{E}}$	GETABLE FOO	D.	And the second s	
YEAR.	Flour.	Wheat.	Corn.	Barley.	Oats.	Rye.	Other Articles.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
1869*	45,674	313,825	120,599	20,951		904	1,937
1872	26,651	239,998	254,902	6,035	7,752	64	2,745
1873	30,665	355,847	180,169	8,225	1,194	3	3,777
1874	24,019	413,212	181,151	18,871	5,954	513	8,677
1875	13,964	253,835	103,749	35,751	3,383	917	6,337
1876	15,778	201,906	144,501	18,455	24,496	1,454	3,198
1877	13,558	253,953	169,196	19,870	2,810	2,439	2,355
1878	9,121	191,982	185,931	10,979	3,088		2,302
1879	10,710	274,570	144,506	4,655	1,239	440	2,444
1880	12,679	242,020	163,738	17,772	477	1,016	1,480
1881	9,959	127,832	101,075	24,509		1,844	2,086
1882	12,261	215,056	54,799	20,126	611	3,226	403
1883	13,471	152,794	182,269	10,436	731	1,642	10,983
1884	13,683	144,851	118,811	7,155	10,746	1,320	9,168
1885	13,334	124,206	117,536	15,801	1,116		1,912
1886	19,474	154,169	219,442	1,595	4,911	564	14,657
1887	23,949	221,927	114,938	9,574	12,050		12,533
1888	16,983	160,963	194,886	5,906	26,629	811	13,608
1889	7,931	126,664	353,595	4,272	28,356	2,673	18,552
1890	14,461	118,002	327,394	10,830	27,728	1,549	20,876
1891	13,517	198,658	185,180	8,113	52,959	65,888	28,042
1892	17,046	232,019	192,548	6,433	37,173	9,392	32,815
1893	15,235	258,392	441,092	18,599	31,283	3,671	36,981
1894	33,628	270,993	169,233	28,353	27,962	567	60,673

^{*}Fiscal. + Apples, meal, all kinds, pease, potatoes.

the Welland Canal, during a series of Twenty-four Years ended 31st Dec., 1894.

			1	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	2,782	5,797	7,174	17,796	192,957	19,164	245,670
442,182	5,360	4,812	413	22,273	109,986	34,139	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	1,237	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	<u> </u>	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	218,248
805,253	6	2,075	374	8,139	233,096		243,690
591,409	· · · · · · · · · · · · · ·	3,072	159	977	203,608		207,816

A. 1896

E.—Table showing the Tonnage of the undermentioned Articles cleared at Buffalo and Tonawanda, for transit through the Eric Canal, for a series of twenty-six years.

VEGETABLE FOOD.

Year.	Flour.	Wheat.	Corn.	Barley.	Oats.	Rye.	Other Articles	Total.	Increase.	Decrease.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.		
869	5,609	490,904	219,874	1,978	63,728	2,150	2,193	786,436		
870	8,258	502,158	165,577	19,944	89,156	10,593	6,906	802,592	2.05	
871	5,607	570,849	579,709	19,810	106,391	27,622	5,705	1,315,693	67 · 59	
872		330,032	866,169	41,515	73,572	5,900	88	1,317,276	67 · 50	, .
.873	6	737,167	611,675	8,636	51,615	22,441	634	1,432,174	82.10	
.874		650,161	459,728	3,192	44,079	112	237	1,157,509	47 · 18	
.875	5,859	695,315	273,006	1,156	36,609	2,242	3,372	1,017,559	29.38	
876	231	377,317	356,064	6,334	24,488	12,205	4,691	783,331		0.3
877	1,710	398,416	709,723	26,351	52,559	27,365	4,976	1,223,100	55.52	
1878	987	775,953	718,714	21,665	69,256	51,064	6,662	1,644,301	109.08	
1879	1,239	892,404	602,171	7,193	14,537	40,471	7,528	1,565,543	99 · 07	
1880	2,743	897,603	131,857	434	16,154	12,137	4,256	2,065,184	162.06	
1881	1,491	386,605	458,318	86	24,751	107	7,484	878,842	11.75	
1882	1,123	586,019	241,406	1,858	9,046	19,158	6,216	864,826	9.96	
1883	538	535,150	517,219	6,816	47,190	79,010	6,051	1,191,974	51.06	
1884	520	767,784	194,368	4,910	47,060	57,856	4,411	1,078,909	37.18	
1885	323	540,533	356,737	3,317	5,610	6,405	5,427	918,352	14.36	
1886	488	955,851	351,272	6,799	5,180	 	4,001	1,353,591	72.11	
1887	334	914,152	438,069	15,207	32,907	4,612	44,693	1,449,984	85 64	
1888	534	469,965	494,110	6,589	68,922	10,997	1,717	1,052,834	33 87	
1889	845	457,922	579,526	16,380	61,175	34,167	5,160	1,155,175	46.88	3
1890	195	329,531	498,641	58,563	45,202	16,903	4,362	953,397	21 · 23	3
1891	1,071	733,967	137,679	43,779	14,803	66,278	2,594	1,000,171	İ	3
1892	2,485	611,177	141,500	37,570	70,363	3,997	3,472	870,570	10.69))
1893	1	1,086,834	l .	1	1			1,395,391	į	3
1894	327	1.		1	,			1,331,101		1

STATEMENT to Table E showing the shipments at Oswego during the same period.

VEGETABLE FOOD.

Year.	Flour.	Wheat.	Corn.	Barley.	Oats.	Rye.	Other Articles.	Total.	Increase.	Decrease.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.		
1860	7,361	141,360	28,585	66,794	1,113	8,569	14,033	267,815		
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
1873	4,061	53,361	10,578	46,337	670	6,019	10,739	131,765		50.80
1874		108,288	46,127	77,007	1,103	7,053	3,747	245,325		9.14
1875	1,728	32,690	3,034	75,083	3,308	4,989	5,931	126,763		52 67
1876	967	21,890	1,324	63,336	117	5,703	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		16,623	3,110	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	22,265	7,773	126,804		52 ·68
1883	432	22,634	535	32,557		14,384	1,967	72,507		73.00
1884	404	5,932	413	48,391	·····	12,173	2,819	70,132		73 43
1885	519	6,484	22	45,264		4,613	2,945	59,847		77 62
1886	737	9,579	154	42,261		1,671	4,814	59,216		77.88
1887	790	675	2	44,580		716	1,370	48,133		82 02
1888	384	2,206	168	6,237			2,196	11,191		95 82
1889	473	8,002	8,950	40,096	16	1,405	1,003	59,945		77.61
1890	545	10,378	10,408	26,639	8	4,635	2,356	54,9 69	• · •	79.47
1891	292	4,298	1,652	27,418		2,130	3,620	39,410		85.28
1892 🛦	273	4,806	5,657	5,283		199	2,340	18,558		93 · 07
1893	119	2,036	3,968	8,476		237	2,784	17,620		93 43
1894	8	10,293	10,514	17,160			2,609	40,584		84 · 84

F.—Table showing the Tonnage of the undermentioned Articles cleared downward on the Welland Canal, during a series of Twenty-four Years, ended 31st December, 1894.

VEGETABLE FOOD.

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		6 80	1,541	479,882
1872	26,648	231,056	254,534	,693	7,594	64	2,300	524,889
1873	30,660	345,720	180,042	643	1,188	3	3,557	563,813
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	430,795
1880	12,467	240,601	162,891		477		1,418	417,853
1881	9,655	121,393	103,075	252		6	1,371	235,752
1882	12,205	205,876	54,797	537		1,954	225	275,594
1883	13,256	146,741	182,143	975	731	518	10,971	355,335
1884	13,626	135,804	118,811	270	10,746	477	9,018	288,752
1885	13,322	114,090	117,536	618	1,116		1,628	248,310
1886	19,418	146,151	218,897		4,891		14,581	403,928
1887	23,940	210,755	114,938	1,711	12,050		12,149	375,543
1888	16,973	150,833	194,88 6	555	26,629	811	13,358	404,045
1889	7,922	120,498	353 ,595	197	28,356	1,918	18,273	530,759
1890	14,461	114,924	327,394	6,519	27,728	1,121	20,836	512,983
1891	13,517	196,326	185,177	8,113	52,959	65,071	27,895	549,058
1892	17,046	229,569	192,548	6,433	37,173	9,392	32,548	524,709
1893	15,232	257,203	441,092	18,461	31,283	3,671	36,981	803,923
1894	33,628	270.514	169,233	28,353	27, 962		60,587	590,277

^{*} 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-four Years, ended 31st December, 1894.

;				Vegetable Food	се Гоор	و		_			· Heavy Goods	Goods.		
Y ear.	Flour.	Wheat.	Corn.	Barley.	Oats.	Rye.	Other Articles.	Total.	Railway Iron.	Other Iron.	Salt.	Coal.	Ores.	Total.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
1869 1872 1873	30,681 10,482 10,805	211,085 124,695 127.727	91,149 89,761 101,329	2,942 1,391 1,920	7,400	299	1,006	337,530 234,337 243,366	68,064 24,040 4,659	14,334 13,239 13,826	89,086 49,843 40,507	23,566 95,741 170,242	35,912 59,401 62,942	235,962 242,264 292,176
1874 1875 1876	8,230 1,881 5,187	229,053 113,832 96,247	125,627 54,188 58,138	2,641	5,948 1,946 1,905	 500 525	5,368 1,920 403	374,226 177,908 162,405	5,742	8,941 4,123 5,531	22,888 12,931 29,395	203,673 192,767 167,110	19,651 34,616 25,808	260,895 244,451 227,844
137 1878 1878 1878 1878	3,342 1,316 159	107,396 65,542 53,791	65,260 60,026 33,401	1,603 859	2,314 277 464	258	341	180,586 128,361 87,826	8,976	8,688 10,713 3,648	8,336 3,892 6,318	172,868 150,583 118,573	41,107 13,535 17,797	239,975 178,723 148,741
1881 1881 1883	107	30,611 34,320 30,227	16,122 30,031 32,433	1,551 924 537	296	684	10	48,580 65,285 64,002	4,743	3,515 5,570 4,076	371	65,945 83,858 158,552	18,380 6,464 14,533	92,954 97,205 177,161
1883 1884 1885	2,041 1,715	54,382 40,956 53,235	66,128 53,707 63,229	735	731 9,874 882		8,579 8,170 1	132,496 114,422 118,203	1,209	6,901 599 1,594	8 : :	196,462 210,790 198,416	24,891 15,100 15,029	229,471 227,187 215,039
) 886 1887 1888	7,591 11,780 8,563	53,258 37,678 39,999	94,048 83,431 102,974	1,732	4,790 12,050 26,510	179	13,201 10,859 11,598	172,888 157,530 189,825	156 15 63	5,328 4,406 1,601	56	189,964 82,780 173,259	11,364 627 2,309	206,813 87,828 177,288
1889 1890 1801	5,017 9,204 8,93	39,229 31,527	147,045 180,842 127,494	6,519	27,492 27,030		20,497	236,208 275,619 253,444		1,587 504	896 208 705	227,476 162,231 186,572	1,204	231,163 164,563 189,349
1892 1893 1894	6,588 17,795	26,950 28,187 53,846	131,222 198,777 10,539	6,433 16,751 28,095	36,935 23,870 27,621	864	31,992 36,352 60,462	244,550 311,389 198,358		23 4 46	67	183,895 206,827 188,521		184,473 207,171 188,818
											_			

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-four Years, ended 31st December, 1894.

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 charged through the Welland Cana in transit between ports in the United States
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
869*	1,302,613	503,860	1,087,809	786,436	267,815	337,530
872	1,674,320	538,147	1,870,614	1,317,276	169,818	234,337
873	1,745,171	579,880	2,036,992	1,432,174	131,765	243,366
874	1,767,598	647,397	2,791,517	1,557,509	243,325	374,226
875	1,305,550	417,936	2,343,241	1,017,559	126,763	177,908
876	1,064,293	409,788	2,875,803	783,331	99,975	162,405
877	1,408,984	464,181	2,493,683	1,223,100	126,899	180,586
878	1,912,734	403,403	3,695,764	1.644,301	93,149	128,361
879	1,833,399	438,564	4,353,617	1,565,543	127,168	87,826
880	2,371,090	442,182	4,732,385	2,065,184	135,410	48,580
881	1,116,561	269,395	4,983,722	878,842	115,638	65,285
882	1,118,776	306,482	3,885,577	864,826	126,804	64,002
883	1,379,000	372,236	4,422,461	1,191,974	72,507	132,496
884	1,236,986	305,734	3,639,805	1,078,909	70,132	114,422
885	1,063,310	273,905	4,105,594	918,352	59,847	118,203
886	1,489,886	414,812	3,802,262	1,353,591	59,216	172,888
887	1,552,764	394,971	3,847,766	1,449,984	48,133	157,530
888	1,166,958	419,786	3,197,734	1,052,834	11,191	189,825
889	1,296,896	542,043	3,654,984	1,155,175	59,945	236,208
890	1,167,901	519,291	4,336,199	953,397	54,969	275,619
891	1,092,355	367,177	3,565,381	1,000,171	39,410	253,444
892	937,999	527,426	5,913,013	870,570	18,558	244,550
893	1,452,563	805,250	5,107,426	1,395,391	17,620	311,389
894	1,400,129	590,409	4,281,056	1,331,101	40,584	293,148

1.—Statement showing the Quantity of Freight passed down the Welland Canal in Canadian and United States Vessels entering the Canal at Port Colborne during the Seasons of Navigation in 1882, 1883, 1884, 1885, 1886, 1887, 1888, 1889, 1890, 1891, 1892, 1893 and 1894.

		Canadian	VES	ssels.	U:	NITED STA	TES V	Zessels.	7	TOTAL.
Articles.		Steam.		Sail.		Steam.		Sail.	Stea	m and Sail
	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		60,535 $7,431$	İ	$\frac{46,201}{6,075}$		$5,203 \\ 3,468$	İ	87,213 38,360	ĺ	$199,152 \\ 55,334$
Rye								1,954		1,954
Coal		$^{1,673}_{2,939}$	1	$51,127 \\ 3,744$	}	$112 \\ 1,553$		27,968		80,880
Lumber Ft. B.M.] 1	1,021,957		1,943,568	: ا	3,969,790	17	2,605 $7,327,483$	24	10,841 1,262,798
Timber Cub. ft.		125,960		2,847,066		i		13,500		3,013,526
Staves No.		59,600	-	1,065,2 33 				104,000		1,228,833 ————
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	180	68,850	468	130,844	111	68,609	417	127,616	1176	365,929
1883.	ļ	Tons.		Tons.		Tons.	.	Tons.		Tons.
Wheat		32,761		29,385		5,928		76,715	1	144.789
Corn		25,651		21,073		36,146		99,272	i	182,142
Barley Rye								735 518		735 518
Oats					'	731	1			731
Coal	1	8,398		48,329	İ	835	1	40,388		97,950
Miscellaneous merchandise Lumber		5,238 $2,102,292$		3,590 3,455,590		13,195 5,287,386	1	2,299 5,143,274	9	24,322 5,988,542
Timber Cub. ft.		83,700		3,514,944	l		-	70,500		3,669,144
StavesNo.		32,876		1,038,349	<u> </u>			90,000		1,161,225
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	173	68,250	285	73,057	99	67,637	364	97,794	921	306,738
1884.		Tons.		Tons.		Tons.		Tons.		Tons.
Wheat		38,859		11,618	}	5,461	1	75,474		131,412
Corn		10,841		13,609		26,452		67,909	1	118,811
Barley	1	90			ļ	• • • • • • • • • • • • • • • • • • • •			.]	90
Rye Oats		$\begin{array}{c} 477 \\ 872 \end{array}$				7,963		1,911		$\begin{array}{c} 477 \\ 10,746 \end{array}$
Coal		497		28,275		301		10,154		39,227
Coal	-	F 40				40		•		
Shingles, firewood and wood-	1		1	2,538	1	49		30	1	3,165
Shingles, firewood and wood- enware		548 2 073	1	3,604	1	11 709	I .		1	10 100
Shingles, firewood and wood- enware		2,073		3,804 1,680,976		11,793 8,987,558	1:	428 8.126 215	2	18,103
Shingles, firewood and wood-				3,804 $1,680,976$ $2,107,780$		11,793 8,987,558	1	$\begin{array}{r} 428 \\ 8,126,215 \\ 159,647 \end{array}$		18,103 2,188,100 2,704,783

I.—Statement showing the Quantity of Freight passed down the Welland Canal in Canadian and United States Vessels, &c.—Continued.

	C.	ANADIAN	V_{ES}	SELS.	U:	NITED STA	tes V	essels.		Готаг.
ARTICLES.	St	eam.		Sail.	s	Steam.		Sail.	Stea	m and Sai
ARTICLES.	No. T	onnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	199	67,461	347	80,828	81	35,613	350	106,873	977	290,775
	To	ons.		Tons.		Tons.	,	Tons.		Tons.
1885.										
Wheat Corn Barley		26,025 16,046		$3,153 \\ 2,462 \\ 228$		6,882 20,589		72,478 78,439		108,538 117,536 228
Oats Pease		11	 	• • • • • • • • • • • • • • • • • • •		217		665		882 11
Rye Coal. Miscellaneous merchandise Shingles, woodenware, &c Sawed lumber Ft. B.M. Square timber Cub. ft. StavesNo.	6	1,005 1,941 223 25,105 01,516 04,000		20,318 3,689 9 8,681,081 2,849,526 44,000	9	1,111 53 0,381,654 20,692 83,500	20	18,560 1,086 58 ,935,270 113,682	46	39,883 7,827 343 3,723,110 3,585,416 231,500
Firewood Cords									-	
		onnage.		Tonnage.		Tonnage.		Tonnage.		Tonnage.
1000	261) To	95,928 ons.	420	123,297 Tens.	118	86,937 Tons.		108,344 Tons.	l	414,506 Tons.
1886.		00.004		90.094		0.007		70.010	-	4.0.
Wheat		38,984 48,547		30,834 33,315		2,937 36,852		70,019 99,644 572		$142,774 \\ 218,358 \\ 572$
OatsPease		6 450		41 158		4,331		459		4,837 608
Rye. Cosl. Miscellaneous merchandise . Shingles, woodenware, &c. Sawed lumber Ft. B.M. Square timber . Cub. ft. Staves . No. Firewood . Cords.	5	4,007 2,936 329 15,390 64,827 21,280	18	45,018 6,728 5,719,631 2,335,205 697,933 390	8	23,687 252 3,953,478	18	11,647 281 215 ,405,961 35,500		60,672 33,622 1,152 9,994,460 2,935,532 919,213 390
	No. T	onnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	250	86,344	372	101,745	107	94,029	163	46,152	892	328,270
1887.	T	ons.		Tons.		Tons.		Tons.		Tons.
Wheat Corn Barley. Oats. Pease		80,757 12,341		81,652 14,775 1,376 362		200 65,981 9 11,098		46,186 20,582 575 279		208,796 113,679 584 12,753 362
Rye Coal		1,436 2,179		25,165 4,609		24,395		2,108 415		28,709 31,598
Shingles, woodenware, &c Sawed lumberFt. B.M. Square timberCub. ft.	2,8 4	1,716 94,767 98,770		1,081 2,329,728 1,285,594	4	24,333 26 1,161,349		,091,355		2,823 1,477,199 1,784,364
Staves		299		266,697 466				· • • • • • • • • • • • • • • • • • • •		266,697 765

I.—Statement showing the Quantity of Freight passed down the Welland Canal in Canadian and United States Vessels, &c.—Continued.

	•	Canadian	VES	sels.	Un	HTED STAT	res V	ESSELS.	Т	OTAL.											
ARTICLES.	s	team.	- 	Sail.	s	team.		Sail.	Stear	n and Sail											
ARTICLES.	No.	No. Tonnage.		No. Tonnage.		No. Tonnage.		No. Tonnage.		lo. Tonnage.		Tonnage. N		o. 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.											
1888.										,											
Wheat		$\frac{45,481}{38,620}$		60,379 $14,251$		$\frac{1,353}{71,988}$		40,779 71,175		147,992 196,024											
OatsPease		672		54		24,967 57		1,311		26,950 111											
Rye		1 000				71		632		703											
Coal		$1,603 \\ 2,165$		$20,064 \\ 3,291$		22,719		$\frac{4,208}{3,722}$	ì	25,897 31,875											
Shingles, woodenware, &c Sawed lumberFt. B.M.	5	66 6,262,700	11	.977,905	4	141 451,360	12	$\frac{6}{2,539,672}$	34	.,230,63 7											
Square timber Cub. ft. Staves No.		687,728 106,972		,555,307 211,436		19,000		34,000		,262,035 352,408											
Firewood Cords.		179		201		· · · · · · · · · · · · · · · · · · ·	····			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											
1889.		Tons.		Tons.		Tons.		Tons.		Tons.											
Wheat		38,127 60,218		28,054 43,819		1,679 152,858		46.767 96,700		114,627 353,595											
Barley		320				25,347	¦	2,145	· · · · ·	27,812											
Pease	ļ				ļ	336															
RyeCoal	}	948 3,976		634 21,148		712		1,664		1,918 27,500											
Miscellaneous merchandise Shingles, woodenware, &c !		6,339 		$\substack{5,749\\1}$		25,082 		3,030 51		40,200 52											
Sawed lumberFt. B.M. Square timberCub. ft.		5,789,226 924,645		1,632,330 2,934,989	11	1,792,850	2	1,026,211		,240,617 ,859,634											
Staves	l 	35,700		194,649 46				• • • • • • • • • • • • • • • • • • • •		220,349 46											
2					-		-		·												
		Tonnage.	·	Tonnage.	·	Tonnage.	·]	Tonnage.	-	Tonnage.											
		110,056	443	117,400	l	204,542	142		1129												
1890.		Tons.	ļ	Tons.		Tons.	-	Tons.	-	Tons.											
Wheat		43,308 63,095		35,633 51,439		7,514 172,756		32,239 40,104		118,694 327,394											
Barley Oats		479		73		$3,304 \\ 27,030$	ļ	3,215		6,519 27,582											
Pease		1,121				14			:	14 1,121											
Coal		1,049 3,146		21,732 5,683		32,194	1	615 2,510		23,396 43,533											
THE PROPERTY OF THE PROPERTY O	1	3,140		1,266	ļ	8	1	2,010	.1	1,289											
Shingles, woodenware, &c	1 -			108 224		074 00-	1	4 0000 000	1												
Shingles, woodenware, &c Sawed lumberFt. B.M. Square timberCub. ft.		5,921,240 1,141,194 12,255		5,167,201 3,395,832	10	0,274,335	1	4,290,800		5,653,576 1,537,026											

I.—Statement showing the Quantity of Freight passed down the Welland Canal in Canadian and United States Vessels, &c.—Continued.

!		Canadian	v Ves	sels.	Uı	NITED STA	res V	ESSELS.	Т	OTAL.
ARTICLES.	Steam.		Sail.		Steam.		Sail.		Steam and Sai	
	No.	Tonnage.	No.	Tomage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
,	256	107,575	173	68,061	241	241,317	130	50,063	800	467,016
		Γons.		Tons.		Tons.		Tons.	'	Tons.
1891.										
Wheat		62,859 20,510 390		56,953 9,550		36,425 137,852 5,444 50,212		33,853 17,039 4,061 1,076		190,090 184,951 9,505 51,288
Pease. Rye. Coal Miscellaneous merchandise Shingles, woodenware, &c		29,581 158 8,369		11,296 20,388 6,007		16,361 37,537		7,343 3,851 2,578		390 64,581 24,397 54,491
Sawed lumber. Ft. B.M. Square timber. Cub. ft. Staves. No. Firewood. Cords.	4	,268,874 449,406 1,000	4	,648,824 566,109		,067,351		3,745,628		,730,677 ,015,515 1,000
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	239	100,324	186	73,140	245	248,837	134	52,087	804	474,388
1892.		Tons.		Tons.		Tons.		Tons.		Tons.
Wheat Corn Barley Oats Pease.		524		54,764 7,369		60,364 146,080 3,995 36,935		36,898 21,631 2,438		226,604 192,548 6,433 36,935 524
Rye		5,066 775 2,139		13,350 2,786		3,718 44,117		608 1,365	1	9,392 15,490 49,042
Shingles, woodenware, &c Sawed lumberFt. B.M. Square timberCub. ft. StavesNo.	6	1 5,278,253 754,213 46,800		,504,256 ,421,260 32,838	10	45 0,494,692 2,601	26	5,832,564 1,310		49,042 55 ,109,765 2,179,384 79,638
Firewood										

I.—Statement showing the Quantity of Freight passed down the Welland Canal in Canadian and United States Vessels, &c.—Continued.

	Canadian Vessels.				United States Vessels.				TOTAL.	
ARTICLES.	Steam.		Sail.		Steam.		Sail.		Steam and Sail	
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	193	100,107	143	58,652	390	375,682	236	122,326	962	656,767
		Tons.		Tons.		Tons.		Tons.		Tons.
1893.										
Wheat		83,447		31,185		72,671		68,628		255,931
CornBarley		23,817 1,527		12,946 183		313,246 16,189		$91,083 \\ 562$		441,092 18,461
Oats		223		100		27,903		3,038		31,164
Rye					• • • • •	3,216		455		3,671
Coal		638		13,580				5,849		20,067
Miscellaneous merchandise		6,179		286		44,976		1,647	1	53,088
Shingles, woodenware, &c Sawed lumberFt. B.M.	19	750,267	0	$15 \\ .748.941$	17	$ \begin{array}{c} 22 \\ 359,573 \end{array} $	41	,863,852	,,,,	37
Square timberCub. ft.	19	836,048		,437,893	17	5,133		,000,002		,722,633 $,279,074$
Staves			•	18,484					"	13,484
Firewood Cords.					. .					

I.—Statement showing the Quantity of through Freight passed down the Welland Canal in Canadian and United States Vessels entering the Canal at Port Colborne during the Season of Navigation, in 1894.

	Canadian			sels.	U	NITED STA	1	TOTAL.		
ARTICLES.	Steam.		Steam. Sail.		Steam.		Sail.		Steam and Sa	
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	199	104,649	112	57,668	287	279,621	144	63,770	742	505,708
1894.		Tons.		Tons.		Tons.		Tons.		Tons.
Wheat		98,586 10,368 258 175		54,444 5,614 107		78,715 122,211 28,095 27,621		37,095 31,040		268,840 169,233 28,353 27,903
Rye		1,483 16,949 22 8,423,295		1,892 664 279,330		61 83,198		11,109 1,977		14,545 102,788 22
Sawed lumber Ft. B.M. Square timber. Cub. ft. Staves No. Firewood Cords.		771,328		1,578,981		11,719,664			ļ	2,313,745 2,350,309

STATEMENT showing the Quantity of Through Freight passed up the Welland Canal in Canadian and United States Vessels, entering the Canal at Port Dalhousie, during the Season of Navigation in 1894.

	Canadian	VESSELS.	United Sta	res Vessels.	Тотаь.
ARTICLES.	Steam.	Sail.	Steam.	Sail.	Steam and Sai
	No. Tonnage.	No. Tonnage.	No. Tonnage.	No. Tonnage.	No. Tonnage.
	194 102,251	111 56,969	274 272,994	150 67,295	729 499,509
1894.	Tons.	Tons.	Tons.	Tons.	Tons.
Class 3.					
Cement and water lime	2,281	Nil.	 	 	2,281
Fish	3	<i></i>			781
Iron, pig	20		17		37
Iron, all other	212		327		539
Salt	856			•••	856
Steel	248 914		428		248
Class 4.	314		420		1,342
•					
Crockery and earthenware	107	•••••	3		110
Marble	11		847		847
Manilla	11		89		100
Nails	535				535
Paint Pitch and tar	18 265				18
Sugar	2,733		1,234	· · · · · · · · · · · · · · · · · · ·	265
Tin	327		1,204		3,967
Merchandise not enumerated.	1,999		39,268	1	327 41,268
Class 5.					
Produce of wood	58		89	••••	147
Special Class.					
Coal	635		136,345	52,083	189,063
Ice	200				200
Stone				661	661
Total tons	11,422		179,425	52,745	243,592

			lons.
Canadian steam vess	els car	ried	11,422
do sailing	do		•
United States	do	*******************	179,425
do sailing	do	* - * * * * * * * * * * * * * * * * * *	52,745

WELLAND CANAL THROUGH FREIGHT RECAPITULATION.

WELLAND CANAL-WEST BOUND FREIGHT.

The total quantity of through freight passed up the Welland Canal in Canadian and United States Vessels during the season of navigation in 1894, is as follows:—

Summary.	Tons.	Tons.
In Canadian steam vessels	11,422	• ,
Total quantity in Canadian vessels		11,422
In United States steam vessels	179,425 52,745	
Total in United States vessels		232,170
Grand total quantity of freight passed up the Welland Canal in Canadian and United States vessels		243,592

Summary of the quantity of through freight passed on the Welland Canal during the season of Navigation in 1894.

Summary.	Tons.	Tons.
In Canadian steam vessels, up	11,422 157,320	
Total in Canadian steam vessels. In Canadian sail vessels, up		
Total in Canadian sail vessels.	i	
Total quantity in Canadian vessels. In United States steam vessels, up	179,425	
Total quantity in United States steam vessels. In United States sail vessels, up	52,745	538,869
Total quantity in United States sail vessels		187,139
Total quantity in United States vessels		726,008
Total in Canadian and United States vessels.		189,534
	East-bound.	West-bound.
In Canadian vessels	252,104 493,838	11,422 232,170
Total	745,942	243,592

-Statement of Large Class Vessels Lightened at Welland Railway Elevator at Port Colborne; showing the Tonnage, Dimensions, Depth of Water and Cargoes passed through the Enlarged Welland Canal during the season of Navigation in 1894.

CANADIAN STEAM VESSELS.

ng.	ets.	Tons.		
n To	Barley.	.snoT		-
Lighterage in Tons.	Corn.	Tons.		
Light	Wheat.	Tons.	93 152 159 159 133 133 158 158 158 158 158 158	
land	.edeO			-
ver Wel	Barley.	Bush. Bush.		_
Lighterage over Welland Railway.	Corn.	Bush.		
Light	Мһеаt.	Bush.	3,099 5,048 7,004 6,425 7,241 8,153	
	tdgiəri gailloA	Tons.		
Canal.	Osts.	Bush.		
urgo to	Barley.	Bush.		
Original Cargo to Canal	Corn.	Bush.		
	Wheat,	Bush.	63,330 63,000 70,000 61,500 61,442 61,425	
Depth of Water on Arrival.	Aft.	Ft. in. Ft. in.	2 11 21 3 3 4 1 1 2 3 4 1 1 3 4 1 1 1 3 4 1 1 1 1 1 1 1 1 1	
of Wa	Forward.	Ft. in.	14 3 12 10 12 11 12 11 14 6 13 1 14 2 13 0	
ions.	Depth of hold.	Ft. in.	8888888	
Dimensions.	mased to dtbiW	Ft. in.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Length over	Ft.	245 254 254 254 254 254 254 254 254	
nage.	Registered Ton	Tons.	1,172 977 977 1,172 1,172 977	
	Names of Vessels.		26 Algonquin 29 Rosedale 20 To do 27 Algonquin 8 Rosedale 29 Algonquin 30 Rosedale Total	
	Date of Arrival.	1894.	Sept. 26 / do 29 / do 29 / do 27 / do 27 / do 27 / do 29 / do 30 / do	

UNITED STATES STEAM VESSELS.

	::					:				:
287									52 114	_
	:	344	:		:	130	18	:	<u>.</u>	
	:	:	:	•	-:	:	:	:	:	
- 63	9	60		42	8	23	60	60	65	1,184
10,2	13,4	37 2,3	9,2	2,5	4,3	2,4	3,6	10,6	55 4.0	1,1
-	45	353 11,437	20	:		308 4,312			16 1,725	
-:	-	٠٠ -		:			:	:	516	
	<u>:</u>		:	-	28,235	:	: :	:		:
\$	8	27	.: 63	3	98	23	8		:	:
63,3	70,000	27,5	55,7	50,0	32,0	8,53	23,1			
	:	90	•	-:	•	8	26	:		
	:	32,150	:	:			38,056		24.717	:
15 6	0	6	0	14 7	5	83	Ξ	91	4 9 24.77	14 0
3 15 6	0	$\frac{15}{9}$	15 0		14 10	15 22	Ξ	3 16 3	1 14 9 24.7	0 14 0
9 14 3 15 6	15 0.	$\frac{15}{9}$	15 0		14 10	15 22	Ξ	0 15 3 16 3	3 14 1 14 9 24,7	0 14 0 14 0
18 9 14 3 15 6	15 0.	$\frac{15}{9}$	15 0	0 13 10	14 10	6 14 10 15 22	7 15 1 14 11	13 0 15 3 16 3	8 14 1 14 9	19 0 14 0 14 0
6 18 9 14	0 16 8 13 10 15 0.	0 16 8 15 3 15 9	1 16 8 13 10 15 0	2 22 0 13 10	0 16 8 14 2 14 10.	0 16 6 14 10 15 22	8 16 7 15 1 14 11	0 13 0 15 3 16 3	0 16 8 14 1 14 9	0 19 0 14 0 14 0
35 6 18 9 14	42 0 16 8 13 10 15 0.	42 0 16 8 15 3 15 9	42 1 16 8 13 10 15 0	36 2 22 0 13 10	42 0 16 8 14 2 14 10 .	37 0 16 6 14 10 15 22	37 8 16 7 15 1 14 11	33 0 13 0 15 3 16 3	42 0 16 8 14 1 14 9	36 0 19 0 14 0 14 0
235 35 6 18 9 14	0 16 8 13 10 15 0.	240 42 0 16 8 15 3 15 9	240 42 1 16 8 13 10 15 0	232 36 2 22 0 13 10	240 42 0 16 8 14 2 14 10 .	265 37 0 16 6 14 10 15 22	225 37 8 16 7 15 1 14 11	197 33 0 13 0 15 3 16 3	240 42 0 16 8 14 1 14 9	225 36 0 19 0 14 0 14 0

120	161 160 186 186 186	833:	1,078
291 179 179 118 118 189 189 189 189 189 189 189 18	125	64 112 112 113 113 113 113 113 113 113 113	7,317
71	330		1,688
4,294	10,235 9,471 9,411 3,588	4,882	63,410
10,357 6,050 6,384 15,428 4,209 7,105 7,105 7,105 7,105 7,105 7,105 7,105 7,105 7,105 7,105 7,105 7,105 8,525 9,655 9,655 9,655 9,702 8,702 8,702 8,702 8,703 8,702 8,703 8,70	5,565	13,154 2,257 3,957 3,928 6,314 6,612 6,617 6,607 6,009 2,106	60,657
2,349	6,835 3,124 0,993	3,7,5	21,512 55,910 260,657
455 315 365 365 365 365 455 455 467 467 467 467 467 467 467 467 467 467		1,299 1,299 1,092 1,049 1,049 1,049	1,512
25,411 23,058 37,647 28,235	28,235 28,235 74,647 87,882 87,882 23,058		534,058
	30.643	3,000	3,000 5
49,791 48,383 35,790 46,085 29,741 33,463 33,289 33,289 46,000 70,000 70,000	20,184 32,367	44,786 114,855 24,201 30,000 58,303 50,000 47,000 47,000 41,000	1,681,865
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16,203	12,000 50,000 12,000 55,000	25,000	368,459
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1, 425 265 38 6 1,550 240 420 1,550 240 420 1,548 240 420 1,550 240 420 1,550 240 420 1,550 240 420 1,550 240 420 1,550 240 420 1,550 240 420 1,550 240 420 1,550 240 420 1,550 240 420 1,547 240 420 1,547 240 420 1,550 240 420 1,550 240 420 1,550 240 420 1,547 240 420 1,550 240	1,550 240 1,441 265 1,441 265 1,425 265 1,550 240 1,550 240 1,441 265	n 1,553 240 22 0 1,553 240 22 0 1,550 246 22 0 1,550 246 22 0 1,556 24 24 24 24 24 24 24 24 24 24 24 24 24	otal
1, 425 265 38 6 1,550 240 42 0 1,541 255 37 0 1,548 240 42 0 1,550 220 42 0 1,550 220 42 0 1,550 220 42 0 1,550 220 42 0 1,550 240 42 0 1,550 240 42 0 1,550 240 42 0 1,550 240 42 0 1,550 240 42 0 1,550 240 42 0 1,547 240 42 0 1,547 240 42 0 1,547 240 42 0	1,550 240 1,441 265 1,441 265 1,425 265 1,550 240 1,550 240 1,441 265	n 1,553 240 22 0 1,553 240 22 0 1,550 246 22 0 1,550 246 22 0 1,556 24 24 24 24 24 24 24 24 24 24 24 24 24	Total
1,550 240 28 6 1,550 240 240 1,550 240 22 0 1,550 240 22 0 1,550 240 22 0 1,550 240 22 0 1,550 240 22 0 1,550 240 42 0 1,550 2	1,550 240 1,441 265 1,441 265 1,425 265 1,550 240 1,550 240 1,441 265	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Total

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J.—Statement of Large Class Vescels Lightened at Welland Railway Elevator at Port Colborne; showing the Tonnage, Dimensions,
Depth of Water and Cargoes passed through the Enlarged Welland Canal during the season of Navigation in 1894--Continued.

CANADIAN STEAM VESSELS-Concluded.

-td8iA n	Time occupied i	H. M.	26 25 30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
rge ber	Cost of Lighter	CES.	010101010101 ·
	To		William. Ogdensburg. do Kingston
Destination	From.		1
through tship.	Depth of Water	Ft. in.	13 11 Ft 12 9 13 10 13 5 12 8
on&y tye	Total Cargo thr Canal.	Tons.	1,867 1,604 1,732 1,890 1,713 1,783 1,686
	Rolling freight	Tons.	
Grain Cargo and Rolling Freight through the Canal.	Oats.	Tons.	
	Barley.	Tons.	
	Сотп.	Tons.	
	. Ден М	Tons.	1,867 1,604 1,732 1,890 1,713 1,783 1,686 1,686
ıd Rollin	Oats.	Bush.	
Cargo at	Barley.	Bush.	
Grain	Согп.	Bush.	
	.двец.	Bush.	62,231 53,475 57,705 62,996 57,075 59,401 56,184
	Names of Vessels.		Sept. 26 Algonquin do 29 Rosedale Oct. 22 do do 29 Rosedale do 29 Algonquin do 29 Algonquin do Rosedale Total
	Date of Arrival.	1894.	Sept. 26 1 do 229 1 Oct. 22 1 do 27 1 do 29 1 do Ro

UNITED STATES STEAM VESSELS—Continued.

burg. 2 3 50		on 2 3 0	burg. 2 2 45	on 2 3 40	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
hicago Ogdensburg.	do do do	do do	do Ogdensburg.	: :	op op op
487 13 8 C	673 13 10 673 13 10	723 13 7 318 13 10	668 13 11	514 14 10	1,102 14 0 1,793 13 11 1,451 13 10
	353		480 412		919
	56,560 1,5		28,235	296	39,357 1,1 20,935 690 5 51 816 1.4
88			: :	8 9 7 9	:63
	90 713		: : :-:::::::::::::::::::::::::::::::::	do 7 Wm. A. Haskill. 25,294 do 9 Jno. Duncan. 32,216	9 () regon 12 F. H. Prince. 22,992

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1,720	1,680	1,733	1,0	1,707	1,0	1,101	40,	1,525	1,716	1.673	1,689	1,334	1,710	1.511	1,720	1,696	6.0	1995	1,482	1,743	1,591	1,585	1,657	1,695	1,69,	1,715	7,652	1,673	0,00		1,703	1,456	1,263	1,129	1,629	1,090	78,780
315 365	821	3 1	3 6	702	-		96	937	497	407	-		704	554	172	531	25.5	}	464	409	270	487	407	426	876	866	1,299	514	1,032	226	1,049	:	:	-	459	:	21,512
320	:	223	100	:		:::::::::::::::::::::::::::::::::::::::	:::::::::::::::::::::::::::::::::::::::		:		_ <u>:</u>		_			1 005	319	1		1,334		. 331	616		692	212	: :	: :	::::::	:		<u>:</u>	<u>:</u> :::::::::::::::::::::::::::::::::::	_: ::	286	<u>:</u> ::	8,001
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1,046	823	713	000	100	010	1,401	1,024	288	1,219	850	1.689		1.006	957	548		566	<u></u>	757			192	:	988	<u>:</u>		353	1,159	268	:	.g	1,456	1,263	1,129	812	1,090	39,813
	:	:	:		:	:	:	-	-	416		334			:	:	360	366		:	1.321	•	331	383			:	:		637		 :	_ :	- :	:		9,382
21,117		86.68		:	:::::::::::::::::::::::::::::::::::::::	<u>:</u>	-		-					<u> </u>	: : :	64 419	18,764	10,101	:	78.471		19.470	54,059		15,235	42,176		- : :	:::::::::::::::::::::::::::::::::::::::	:	:		_ <u>:</u> ::	:	16,823	-	470,643
	:	:	:	<u> </u>	<u>.</u> 	· · · · ·	· · · · · · · · · · · · · · · · · · ·	- <u>:</u> ::	-						:	<u> </u>	:	:	<u>.</u> : :				-	:::::::::::::::::::::::::::::::::::::::	:	-:	-		:			- ::::::::::::::::::::::::::::::::::::			30,000	···	30,000
37,333	30,657	25,449	27,686	21,320	52,479	00,015	36,556	20.978	43,598	30 348	806	-	35 001	94 157	55, 15	617,00	101.00	50,10 1	000 00	700,00	:	97 380		31.632	-		12.598	41,358	20,273		23,338	51,989	45,088	40,303	28,991	38,894	1,421,208
		:	:	:	:	:	:	-		13.854		44 457	-	:	:	:	19,000	12,000		200	44 007		11.012	12,745		:	<u> </u>	:	:	21,218	:	-					312,549
		:	:		<u>:</u> :::::::::::::::::::::::::::::::::::	:	<u>:</u> ::	-		:	:	<u>. </u>	:	<u>. </u>	:	:	:	:	:	:	·			_		-		<u>.</u>	:	:							:
26 J. R. Langdon 27 Wm. A. Haskill	McVittie	A. Prince	J. Averill	r. Langdon	Mc V Ittle	War	H. Prince	J. Averill	R James	R Lanodon	MoVittie	opnobe	v Smith	D I anadon	IV. Lambaron	D T Table	K. Langdon	m. A. naskul	Z Escanaba	H Prince	B Langdon	A Hoskill	18 A. McVittie.	v. Smith	K, James	s. R. Langdon.	McVittie	18 F. A. Prince	3. R. Langdon.	McVittie	18 H. R. James	aha	25 A. G. Lindsav.	ranaha	McVittie	Josephine.	Total
	A 0	표	خ ج	14	21 A	<u>3</u>	74 F	25 W	1 80	1	•	10	200	<u></u>	j T		71.	ર દ જ	2 128) C	12 To	W Y	A A	24 Go	30 H.	4.19	IO A	18 F.	25 Ja	7 A.	18 H.	99 Cm	25. A	F	A	1.30	

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J.—Statement of Large Class Vessels Lightened at Welland Railway Elevator at Port Colborne; showing the Tonnage, Dimensions, Depth of Water and Cargoes passed through the Enlarged Welland Canal during the season of Navigation in 1894—Continued.

UNITED STATES SAILING VESSELS.

ons.	Oats.	Tons.		
in To	Barley.	.snoT	::	:
Lighterage in Tons.	Corn.	Bush.	::	:
Ligh	Wheat.	Bush. Bush. Bush. Bush.	214	324
4 ×	Oats.	Bush.		:
age ove Railwa	Barley.	Bush.	: :	<u> </u>
Lighterage over Welland Railway	Соги.	Bush.		
M	Wheat.	Bush.	3,639 7,125	10,764
	thgieri gailloA	Tons.	: :	
Canal.	Osts.	Bush.	<u>:</u> :	
argo to (Barley.	Bush.	::	:
Original Cargo to Canal	Сотп.	Bush.		
	Wheat.	Bush.	45,380 50,000	95,380
Depth of Water on Arrival.	.tiA	Ft. in.	14 9 15 0	
Depth of Water Arrival	Forward.	Ft. in. Ft. in. Ft. in.	15 0	:
ons.	Depth of hold.	Ft. in.	11 6	
Dimensions.	Width of beam		33 34 4 0	:
	Length over	F.	150	<u> </u> :
.926.	Registered Tonn	Tons.	742 700	
	Names of Vessels.		May 3 M. C. BellJune 21 E. C. Hutchinson	Total
	Date of Arrival.	1894.	May 3	

DEPARTMENT OF RAILWAYS AND CANALS,
OTTAWA, 30th September, 1895.

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J.—Statement of Large Class Vessels Lightened at Welland Railway Elevator at Port Colborre; showing the Tonnage, Dimensions, Depth of Water and Cargoes passed through the Enlarged Welland Canal during the season of Navigation in 1894—Concluded.

UNITED STATES SAILING VESSELS.

Light-	Time occupied i	Cts. H. M.	1 0 4 0	<u>:</u>
age per	Cost of Lighter	Cts.	6) 6)	:
,	To		Ogdensburg. Oswego	
Destination	From		Chicago Duluth	
through.	Pepth of Water lidsbim IsasO	Ft. in.	14 0 13 11	
on&p tpe	Total Cargo thr Canal	Tons.	1,253	2,540
	Rolling freight	Tons.		
Janal.	Oate.	Tons.	: :	
gh the (Barley.	Tons.	: :	
ht throu	Согл.	Tons.		
g Freig	Wheat.	Tons.	1,253	2,540
d Rollin	Oats.	Bush.		
Grain Cargo and Rolling Freight through the Canal.	Barley.	Bush.		
Grain	Corn.	Bush.		
	Wheat.	Bush.	41,741	84,616
	Names of Vessels.		May 3 M. C. Bell Solune 21 E. C. Hutchinson	Total
	Date of Arrival.	1894.	6 May 3 5 June 21 1	

DEPARTMENT OF RAILWAYS AND CANALS,
OTTAWA, 30th September, 1895.

K.—Statement showing the Quantity of Freight passed Eastward, from Lake Erie, through the whole length of the Welland and St. Lawrence Canals, to Montreal, during the Seasons of Navigation in 1882, 1883, 1884, 1885, 1886, 1887, 1888, 1889, 1890, 1891, 1892, 1892, 1893 and 1894.

1894.	ns. Tons.	195	<u>:</u>	278,564 60,661 5,514 16,503		209,212 212,557	29	1 1	:	321 291,151	. 19	* : : : : :
1893.	Tons.		÷÷		<u>.</u> :	<u> </u>	` : : :		:	7 507,321		
1892.	Tons.		 	53,689 2,874 16	9,119	194,281		60 : :	103	260,757	17	
1891.	Tons.	37.1		52,539 3,324 67	390 64,978	1 159,785	2	100 201 201		281,762	0 1 0	3
1890.	Tons.			139,798 3,065 222	1,120	75,515	8	3	117	220,545	70	9
1889.	Tons.			195,350 6,841 148	1,284	70,815	798	1,220	32	276,813	107	
1888.	Tons.	418		66,443 3,865 100	: : : <u>c</u>	93,915	:	265 265	33	165,113	£6.	1 co
1887.	Tons.		83	24,609 6,140 87	362	160,063	17	418	63	191,759	113	, 171
1886.	Tons.	15	49	116,517 2,934 125	608	25 86,815		22 936	89	208,148	44	8 9
1885.	Tons.	2	513	2,874 16	11	52,157	1	30.	4	100,058	26	2
1884.	Tons.			55,552 5,659 9,659	433 477	84,822	:	318		152,171	98 5	781
1883.	Tons.	; ;		109,191 5,089 1,188	726 518	76,379		212		193,393	ಣಳ	43
1882.	Tons.	459 9	1 0	203 17,474 5,920	1,269	161,692	-	206 278		187,609	919	18 18
Articles	5555017	Class 3. Iron, pig. do all other	Apples	Control Contro	O Caris. Pease Rye. Suda. all Pinds	Tobacco, raw Wheat All other serioultural products	vegetable bene and boofe	Horses, samins, include and moores. Lard and lard oil. Pork.	animals	Total, Class 3	Class 4.	Furniture Glass, all kinds. Molasses. Nails.

K.—Statem	MENT Sho	wing the	e Quanti	ty of Fr	eight pa	ENT showing the Quantity of Freight passed Eastward, from Lake Erie, &cConcluded.	stward,	from La	ike Erie	, &c.—C	oncluded		
مه ۱۸ منزمانه	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.
Artures.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Class 4—Concluded.	,												
Paint Pitch and tar	4-	: : c			1	- 11					: :		
Sugar Stone, wrought Turpentine. Whisky, beer, and other spirits. Merchandise not enumerated.	484 22 25 105	269	317	: : : : : : : : : : : : : : : : : : :	100	12 :: 52	3	20	26	105	98		389
Total, Class 4	1,092	412	480	138	193	236	198	324	246	426	8	88	351
Class 5. Barrels, empty Sawed Jumber Staves, pipe and barrel.	3,639	6,311	7,531	19,945 856	18,707 332	88 7,001	40 5,175 139	6,118	3,579	3,908	1,678	299	(83
do West India and pipe Timber, square, in vessels do rafts Woodenware	1,130 1,574 1,149 205	2,314 199	7,365 68	639 11,128 76	1,330 15,410 101	131 14,390 45	1,623	9,302	: : : =	5,680	007		9
Total, Class 5	10,059	11,589	16,064	32,772	36,173	21,839	18,588	15,690	3,580	9,588	2,327	299	689
Special Class. Cosl	75	:	:	:	:	:	:	:	:	:	:		:
Grand total	198,835	205,394	168,715	132,968	244,514	213,834	183,899	292,827	224,371	291,776	263,144	508,016	292,191

Articles. Articles. Class 3. Bricks Cement and water lime Clay, lime and sand Gypsum Iron, railway do pig do pig Constituting Constituting Clay, lime and sand Constituting Constitution	1883. Tons. 78 508 56	1884. Tons.	1885.			_						
Tons. 1 96 533 5406 11,246 3,575 3,575 3,575 1,820	Tons. 78 508 56	Tons.		1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.
96 533 54 66 11,246 3,575 6,886 1,820	78 508 56		Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
96 533 54 66 406 11,246 3,575 3,575 1,820	78 508 56											
11,246 3,575 686 1,820		200	117	498	3 1,740 134 95	187 1,177 195	823 3 80 80	252 8 26 26 26	2,380 206 7	1,570 240 426	3,169	2,281 253 512
Flour	8,725 2,460 528 5,324	2,031 43 366 802	12,356 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 20 584 7,440	2,855 112 595 4,391	1,171 74 387 2,034	6,576 25 543 995	20 114 843
	21 5 264		- : : :					\$ \$			က : :	15
Fotatoes 25 Seeds, all kinds 14 Agricultural products not enumerated, veretables	: : : : : : : : : : : : : : : : : : : :				41	. 22 %	215	100				33
					· · · · ·		67	22.	} : :	16) : : : : : :
Wool All other articles not enumerated.				9	ক ক	11		357	63 63	13		10
Total Class 3 18,460 17,	17,994	3,707	14,428	12,896	8,702	15,244	21,495	28,674	11,071	6,076	11,776	4,087
ware	137	47	226 10	89-	164	330	112	01	31	& ∞	86	107
Furniture	1456 3 5 5 6	160 161 17	35	3,7 %		72	71 22	23	30	152 32	365	173 113

L.—Statement showing the Quantity of Freight passed westward from Montreal, &c.—Continued.

4	1882.	1883.	1884.	1885.	1886.	1887.	1883.	1889.	189.	1891.	1892.	1893.	1894.
Arucies.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Class 4—Concluded.													
Nails Oil, in barrels Paint		1,085 122 103 103	951 861 161	205 10 24	88282	7488-	578 22 59	736 9 49	453 11.22 13.	560 64 61	276 15 15	472 44 70 26	500 8 8 152
From and car Rosin. Soda, ash. Steel	1,040	1,801 3	: ≓ :	164	975	1,116	1,196	266	252	377	352 269	68	94
Stone, wrought Sugar Tin	465 641	375 1,669	:	64	316 549	2,225		480	:	412	1,320	2,218 34	2,724
&Turpentine. © White lead. Whiting Whiskey, beer, &c. Merchandise not enumerated.	14 . 564 . 1.992	:	3 3 364 1,001	259 712	3 174 1,008	287 619	2 2 228 1,259	33 124 1,422	19 34 350 1,180	294 810	71 71 220 538	33 31 799	2 1 53 900
Total, class 4	6,093		5,687	1,725	3,678	5,373	4,066	3,873		2,989	3,394	4,769	5,352
Class 5.													
Barrels, empty Lumber, sawn, in vessels Woodenware	130 175 23	318	: : m		227			63					
Total, class 5	328	497	3	2	227								
Special Class.													
Coal	:	9	88		:								
Grand Total	24,881	27,488	9,425	16,155	16,801	14,075	19,310	25,370	31,951	14,060	9,470	16,545	9,439

	_												
:	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	
Articles.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Class 3.													
Bricks Cement and water lime	861		: :		3.5		4	: :	4	: :,			
Fish. Iron, railway.		142		•		23				-		ه : : 	ີ : :
do all other Salt	114	8∞	\$		15			520	-	5. 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.	- :	102	
Stone for cutting	: ox	88	15	:	:	:	:	:					
Barley. OCom + Flour.	537 32,433 107	735 66,128 2,041	53,707 1,715	63,229	93,503	1,709 83,431 11,780	$102,974 \\ 8,563$	147,045 5,017	6,519 180,842 9,204	8,113 127,494 6,802	6,433 131,222 11,018	16,751 198,777 6,588	28,095 105,329 17,795
Hay, pressed. Meal, all kinds.	;	8,579	13 8,170		13,201	10,726	11,598	17,224	20,482	26,096	31,724	36,352	60,390
On cake. Oats.	: :	731	9,874	885	4,790	12,050	26,510	27,492	27,030	52,823	36,935	23,870	27,621
Fotatoes Rye.	1 89			: ;			179	-	-			864	: :
Seeds, all kinds. Wheat. Agricultura, products, vegetable.	30,227	662 54,282 3	511	53,235	53,258 53,258	37,678 2	39,999	39,229	135 31,527 14	256 32,097 42	26,950	28,187	53,846
Hides and skins, &c. Thorses. Tard and lard oil. &c.	-	වී බ 10	£ 0 ⊦		4 1 1 13	0,71 0,22 4	: : :01	32	- 6			27	
Meats, other than pork Pork		12 163	4		106	18 108	14	23.3	15 88	73.2	29	52	
Sheep. Wool.		95	- :		1,125	98	18	452		1,237	20.	3 8	1,486
Total, Class 3	64,129	133,782	115,092	117,470	174,359	157,820	189,986	237,188	275,893	255,553	241,433	311,647	294,654
Class 4.													
Agricultural implements. Crockery and earthenware.	<u>-</u>				5	9	-18	: <u>\$</u>	: : 5			: : :	
Furniture	12	ន	2		22	77	જ્ઞ	3	22	-		٥	

M.—Statement showing the Quantity of Freight passed Eastward through the Welland Canal, &c.—Concluded.

	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.
Articles.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons	Tons.	Tons,	Tons.
Glass, all kinds. Nails. Oil, in barrels. Paint.	88.7 86 8	51 206 6	28 255		0.40					pri pri	. 4		29
Soda, ash. Steel. Skone, wrought	r-18°		7		: : &		en :				7		
w nite lead. Whisky, beer and all other spirits.	912 91	156 941	:8 :8 :8		21 824	63 469	1,453	1,679	228 1,822	1,865	1,331	1,693	2,976
90 Total, Class 4	1,237	1,479	812	2	916	573	1,638	1,902	2,075	2,041	1,422	1,782	3,033
- Class 5.													
Empty barrels Lumber, sawn, in vessels.	34,182	34,189	43,713	44,668	43,776	29,845	28,333	55,074	38,030	45,504	54,173	9 68,985	62,905
Hooles Shingles Staves barrel	6	දී යා දිරි	92	H	463		9 8	51				13	
	43	8	11		2	8	141	333	∞	<u> </u>	25		
Total, Class 5	34,234	34,279	43,800	44,779	44,241	29,871	28,562	55,458	38,038	45,508	54,227	69,007	62,906
Special Class.	10,686	5,372	4,293	4,974	5,400	1,163	878	1,124	615	1,382	651	2,123	727
Stone, not suitable for cutting.							: :	1,681	18 1,620	1,773			
Total, Special Class.	10,686	5,372	4,293	4,974	5,400	1,163	878	2,805	2,253	3,155	651	2,123	727
Grand Total.	110,286	174,912	163,997	167,225	224,916	189,427	221,064	297,353	318,259	306,257	300,733	384,559	361,319

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 1894.

	Names of Vessels.	Original Cargo through the Welland Canal.	Quantity transhipped at Kingston.	Cargo through the St. Lawrence Canals.
		Tons.	Tons.	Tons.
Canadian stear	mer " Acadia "	660	175	485
do	do	600	135	465
do	do	510		510
do	"Arabian"	1,230	675	555
do	do	1,230	689	541
do	do	1,230	690	540
do	do	1,246	720	526
do	do	1,207	712	495
₫o	"Cuba "	660	268	392
do	"Lake Michigan"	504	177	327
$\mathbf{d}\mathbf{o}$	do	510	213	297
do	do	390	193	197
do	"St. Magnus"	1,005	584	421
do	do	990	569	421
do	do	934	633	301
Norwegian ste	amer "Craggs"	300	J	300
Canadian saili	ng vessel "Kildonan"	1,110	240	870
To	otal	14,316	6,673	7,643

Number of cargoes of wheat	
Quantity through Welland Canal to Kingston	Tons
do transhipped at Kingston	
do taken to Montreal in vessels in which it arrived at Kingston 7,643	"

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 1894.

Names of Vessel.	Original Cargo through the Welland Canal.	Quantity transhipped at Kingston.	Cargo through the St. Lawrence Canals.
	Tons.	Tons.	Tons.
Canadian steamer "Arabian"	644	618 291 175 784	535 353 309 714
Total	3,779	1,868	1,911

Number of cargoes of corn	4
Quantity through the Welland Canal to Kingston	3,779 Tons
do transhipped at Kingston	1,868 "
do taken to Montreal in vessels in which it arrived at Kingston	1,911 "
306	•

RECAPITUATION 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 1894.

	Number of Cargoes.	Total.
Wheat	17 4	21
Quantity of wheat through the Welland Canal bound for Montreal		Tons.
Total through Welland Canal		18,095
Quantity of the above transhipped at Kingston, viz.:— Wheat	1,868	
Quantity of the above cargoes taken to Montreal in vessels in which it arrived at Kingston, viz.:— Wheat Corn	7,643	8,541
Total quantity to Montreal		9,554
Total		18,095

O.—Statement showing the quantity of Grain passed down the Welland Canal to Kingston, in Canadian and United States Vessels, entering the Canal at Port Colborne during the season of navigation in 1894.

Canadian 7				Vessels.		United States Vessels.			Total.		
	Steam.		Steam. Sail.		Steam.			Sail.		Steam and Sail.	
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	
	86	61,651	39	28,930	60	49,582	24	15,155	209	155,318	
		Tons.		Tons.		Tons.		Tons.	Tot	al Tons.	
Barley		258								258	
Corn		10,368		5,614	ļ 	30,232		17,690		63,904	
Oats		175		107	····	· · · · · · · · · · · · · · · · · · ·	• • • •			282	
Wheat		90,750	 	51,873		45,880		12,434		200,937	
Totals		101,551		57,594		76,112		30,124	•	265,381	

86 c	argoes i	n Canadian steam vess	els; total quantity	101,551 tons.
39	do	do sail	do	57 594 do
60	do	United States steam	vessels; total quantity.	76.112 do
24	do	do sail	do .	30,124 do

P.—Total quantity of Grain arrived at Kingston in Vessels which passed down the Welland Canal during the season of 1894.

Summary.	Tons.	Tons.
Canadian steam vessels—86 cargoes of grain	101,551 57,594	
Total in Canadian vessels		159,145
United States steam vessels—60 cargoes of grain		
Total in United States vessels		106,236
Total in Canadian and United States vessels		265,381
Distributed as follows:— 21 cargoes arrived at Kingston in Canadian vessels with an aggregate quantity of Transhipped at Kingston	18,095 8,541	•
Quantity taken to Montreal in vessels in which it arrived in Kingston Vessels arrived in Kingston and discharged all their cargoes as follows:— 104 cargoes in Canadian vessels		9,554
Aggregate quantity discharged	247,286	
Quantity transhipped to Montreal	232,016	
Total quantity transhipped from Kingston to Montreal. Quantity to Ogdensburg and transhipped to Montreal. do transhipped to Cardinal do remaining at Kingston.		240,557 576 3,888 10,806
Total	1 1	265,381

Q.—Comparative Statement of the quantity of Grain passed down the Welland Canal to Kingston for the season of 1893 and 1894.

	1893.		1894.		
	No. of Cargoes.	Tons.	No. of Cargoes.	Tons.	
Quantity arrived at Kingston in Canadian vessels do do United States vessels	146 257	148,962 328, 2 69	125 84	159,145 106,236	
Total	403	477,231	209	265,381	
Quantity transhipped at Kingston in Canadian vessels for Montreal Quantity taken to Montreal in vessels in which it arrived at Kingston. Quantity remaining at Kingston. do transhipped to Cardinal. do taken to elevators at Ogdensburg, N.Y., and transhipped to Montreal Quantity transferred to elevators at Ogdensburg, N.Y., 24 061		15,828 19,616 2,893	1 1	240,557 9,554 10,806 3,888 576	
N. Y., 24,961. Quantity of the above transhipped to Montreal do remaining in Ogdensburg		22,840 2,121		• • • • • • • • • • •	
Total		477,231		265,381	

Two vessels took their cargoes through to Montreal intact in 1894 against none in 1893.

Nineteen vessels discharged part of their cargoes in 1894 against 34 in 1893.

One hundred and eighty-eight vessels discharged all of their cargoes in 1894 against 369 in 1893.

S.—The Quantity of Coal passed through the Welland Canal during a series of years from 1885 to 1894 inclusive, and the amount of Tolls collected thereon, is as follows:—

C F C	From Canadian Ports to Canadian Ports.	Fro United Sta to United Sta	tes Ports	to		Total Tons.	Amount of Tolls Paid. Rate	
	Up.	Up.	Down.	Up.	Down.		20 cents a ton.	
	Tons.	Tons.	Tons.	Tons.	Tons.		\$ ets.	
885 88 6			4,974 5,400	10,321 22,187	31,350 49,724	240,087 261,875	48,017 40 52,375 00	
887			1,163	26,775	25,968	135,523	27,104 60	
888			878	17,365	27,183	217,807	43,561 40	
889		226,352	1,124	12,036	25,931	265,443	53,188 6	
890	80	116,616	615	17,280	22,781	202,372	38,222 3	
891		185,190	1,382	17,374	20,698	224,644	44,928 2	
892			651	12,391	15,330	211,616	42,284 1	
893			2,123	8,325	17,944	233,096	46,619 2	
894		187,794	727	1,269	13,947	203,737	40,789 9	

Note.—Tolls on soft coal passed down the Welland Canal, during the season of 1890, were reduced from 20 to 10 cents a ton, per O.C. 11th May, 1890, for the season of 1890 only, the rate for 1891, 1892, 1893 and 1894 being 20 cents a ton for passage either eastward or westward.

T.—Statement showing the Quantity of Coal passed through the whole length of the St. Lawrence Canals during the Seasons from 1885 to 1894 inclusive.

Year.	Quantity passed up Free of Tolls.	Quantity passed down to Montreal.	Total Quantity passed up and down.	Amount of Tolls on Quantity passed down to Montreal.	
	Tons.	Tons.	Tons.	\$ c.	
1885	5,035	122,829	127,864	18,424 35	
1886	3,301	118,802	122,103	17,820 70	
1887	7,579	121,618	129,197	18,242 70	
1888	8,341	123,050	131,391	18,423 90	
1889	5,360	124,290	129,650	18,604 90	
1890	6,538	135,168	141,706	20,275 20	
1891	7,951	141,701	149,652	21,255 15	
1892	7,543	157,134	164,677	23,570 10	
1893	2,285	147,139	149,424	22,070 85	
1894	16,213	169,552	185,765	25,432 80	

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 1894, inclusive.

Articles.	Quantity passed down to Montreal.	Quantity passed down to Canadian Ports between Port Dalhousie and Cornwall.	Quantity passed down to United States Ports.
1883.	Tons.	Tons.	Tons.
Ashes, pot and pearl	3	2 3 6	3
do do animal		0	i
Barley			735
Coal	109,191	89,344 6,815	5,372 66,128
ish			i
Flour	5,089	8	2,041
Furniture Flass Horses	6	9	25
lides and skins	77	26	60 142
do all other.	5	39	90
Lard and lard oil	1,188	1 138	5 8,579
Meats, other than pork		. 2	12
Molasses	43	4	1
Nails			. 51 731
Oil, in barrels		. 300	206
Pease			·]
Pork	. 212	13	163
Paint Rags			271
Rye	518		. 2/1
Salt			. 8
Stone, intended for cutting		. 2,584	38
do wroughtSeeds, all kinds	269	353	87 662
Steel	1		002
Sugar			
Spirits, beer, &c	. 35	98	156
Tobacco, raw		5 2	
Wheat	76,379	3,835	54,282
White lead			. 5
Wool.		100	. 95
All other merchandise, not enumerated	. 52	109	665
Firewood, in vessels		. 930	
Hoops			. 26
Lumber, sawn, in vessels	6,311	792	34,732
do pipe	2,024	2,738	
do West India	451	1,946	1
Staves, salt barrel			. 25
Shingles		1	. 9
Split posts and fence rails, in vessels. Timber, square. Woodenware and wood, partly manufactured	2,604 199	74,329 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.	
		Tons.	Tons.	Tons.	
Ashes, pot and pearl			36	10	İ
Agricultural products, not			. 	7	
do	do	animal		2	·
Agricultural implements				9	
Barley			38	52	
Coal				32,598	4,293
Corn			55,552	9,552	53,707
Cattle				1	
Fish				13	
Flour			9,659		1,715
Furniture			10	17	16
Glass, all kinds				10	1
Hay, pressed				2	13 6
Horses				Z	73
Hides, horns and hoofs Iron, all other				8	40
Versolite and chamical are	and ather o			10	70
Kryolite and chemical ore Lard and lard oil	, and other of	re, except from		2	7
Meal, all kinds				5	8,170
Meats other than pork				28	4
				~ .	i
Nails			i		26
Oata			872		9,874
Oil, in barrels			78	354	255
Pease					
			1 211		
Rve			7.22		
Salt				364	1
Stone, intended for cuttin	g			2,059	15
do wrought			317	190	7
Seeds, all kinds				. 111	511
Sheep					. 1
Spirits, beer, &c				. 11	26
Turpentine				1	.
Wheat				2,549	40,975
All other goods and mercl				104	480
Barrels, empty				3	1
Firewood, in vessels				. 930	J
Lumber, sawn, in vessels.				85	45,239
Staves and headings, barr				22	
do pipe.	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	. 200	487	
		· · · · · · · · · · · · · · · · · · ·		406	
Shingles				. 7	76
Timber, square			. 7,365	50,414	1
Woodenware and wood, 1	partly manufa	octured	. 68	3	11
			. 168,715	100,425	165,543

A refund of 10 cents per ton was allowed on wheat, corn, oats, barley and rye passed down to Montreal, per O. C. 28th May, 1884.

U.—Comparative Statement of the Quantity of Freight passed down the Welland Canal, &c.—Continued.

. Articles.	Quantity passed down to Montreal.	Quantity passed down to Canadian Ports between Port Dalhousie and Cornwall.	Quantity passed down to United States Ports. Tons.	
1885.	Tons.	Tons.		
Ashes, pot and pearl	97 513 1 2			
Barley Coal Corn	44,401	31,350 9,906	228 4,974 63,229	
Crockery and earthenware Flour Furniture Horses Iron, pig	2,874 5 2	11 1 100	124	
do all other	7	2	987	
Meal, all kinds	7 11	568	882	
Paint Pork Salt	30	68		
Stone for cuttingdo wroughtSeeds, all kinds	42	8		
Spirits, beer, &c. Tallow. Wheat All other merchandise, not enumerated	52,157 28	25 4 2,003 8	53,235	
Barrels, empty	128	8 540 6,774	49,561	
Staves and headings		69,616	111	
Total	132,968	125,762	173,333	

A refund of 10 cents per ton was allowed on wheat, corn, oats, pease, barley and rye passed down to Montreal, per O.C. 17th June, 1885, and a refund of 18 cents per ton from 1st July, 1885, per O.C. 4th July, 1885.

U.—Comparative Statement of the Quantity of Freight passed down the Welland Canal, &c.—Continued.

Articles.	Quantity passed down to Montreal.	Quantity passed down to Canadian Ports between Port Dalhousie and Cornwall.	Quantity passed down to United States Ports.
1886.	Tons.	Tons.	Tons.
shes, pot and pearl	44	10	11
pples	49	1	1
Bricks ricks		1	41
ement and water lime			26
oal		49,724	5,400
orn	116,517	8,871	93,503
lour	2,934		7,591
urniture	6	15	21
lass, all kinds			2
Iorses	1		1
lides and skins, &c			414
ron, pig		617	43
do allother	15	12	1
ard and lard oil	$\frac{22}{125}$	9	13
Ieal, all kinds Ieats, other than pork		• 18 64	13,201
Aarble		2	1
Aolasses		7	
Vails	20	1	4
Oats	1	41	4,790
oil	6	28	1,106
ease	608	1	
Pork	936	407	106
aint	. 1	1	
lags			13
alt		29	1
tone for cutting		4,314	
do wrought		103	38
eeds, all kinds	33	3	236
lugar	8	12	3 21
Cobacco, raw	-	12	21
'allow		2	1
Wheat	86,815	969	53,258
Wool			1,125
Merchandise, not enumerated		46	793
Barrels, empty		2	1
Cloats	.	20	
Lumber, sawn, in vessels	18,707	7,546	53,124
Masts, spars, &c		22	
Staves and headings, barrel		57	
do do pipe		339	
do do West India		444	100
Shingles.	10.540	12	463
Timber, square		44,335	
Woodenware	. 101	45	z
			-

A refund of 18 cents per ton was allowed on wheat, corn, oats, pease, barley and rye, passed down to Montreal, per O.C. 21st April, 1886.

U.—Comparative Statement of the Quantity of Freight passed down the Welland Canal, &c.—Continued.

Articles.	Quantity passed down to Montreal.	Quantity passed down to Canadian Ports between Port Dalhousie and Cornwall.	Quantity passed down to United States Ports.
1887.	Tons.	Tons.	Tons.
Ashes, pot and pearl Apples	113 33		
Agricultural products not enumerated, vegetable Agricultural implements			2 9 1,709
Coal	24,609	25,968 6,898	1,163 83,431 2
Flour Furniture Horses. Hides, skins, &c.	6,140 9 1	9	11,780 24 2 170
Iron, pigdo all other		7 6	14
Meal, all kinds Meats, other than pork. Nails. Oats.	87 29 1	42 15	10,726 18 12,050
Oil Oil cake Pease	14 17 362	190	8
Pork Stone, for cutting do wrought	418	86 3,531 543	108
Seeds Sugar.	15	4	44
Spirits	160,063	99 4,940	37,678 86
All other merchandise, not enumerated	72 88 7,001	123 1,816 27	468 24 44,733
do pipe	184 131 14,390 45	838 21,351 1	2
Total	213,834	67,632	204,315

A refund of 18 cents per ton was allowed on wheat, corn, pease, barley and rye, passed down to Montreal, per $O.C.\ 21st\ March,\ 1887.$

U.—Comparative Statement of the Quantity of Freight passed down the Welland Canal, &c.—Continued.

Articles.	Quantity passed down to Montreal.	Quantity passed down to Canadian Ports between Port Dalhousie and Cornwall.	Quantity passed down to United States Ports.	
1888.	Tons.	Tons.	Tons.	
Ashes, pot and pearl	85			
Apples		45		
Barley			2	
Cement and water lime			4	
Coal		27,183	878	
Corn	66,443	25,469	102,974	
Crockery and earthenware	3,865	4	1	
FlourFurniture	3,803	1	8,563	
Glass, all kinds	3	2	30	
Hay, pressed		20		
Horses	2		• • • • • • • • • • • • • • • • • • •	
Hides and skins			39	
Iron, pig		549		
do all other	418	490		
Lard and lard oil	54	12	18	
Meal, all kinds	100		11,598	
Meats, other than pork	39	6	14	
Oats	· · · · · · · · · · · · · · · · · · ·		26,510	
Qil		.3		
Pease		54 61		
Pork Rags	200	01	19 14	
Rye		632	179	
Stone, for cutting		6,535	179	
do wrought.		126	••••••••	
Seeds, all kinds	12	1	48	
Steel			ž	
Sugar		2	4	
Spirits	3	2	151	
Tallow			1	
Wheat	93,915	14,365	39,999	
Wood	100		18	
All other goods and merchandise not enumerated	105	34	1,435	
Barrels, empty. Lumber, sawn.	40 5,174	4,515	133	
Staves and headings, barrel	15	4,515 7	45,818	
do pipe	124	•	• • • • • • • • • • • • • • • • •	
do West Indies	1,623	13		
do salt barrel	1 1	1		
Shingles	Í	-	6	
Timber, square, in vessels	11,586	33,669		
Woodenware	25		8	
m . •	100 000			
Total	183,899	113,801	238,467	

A refund of 18 cents per ton was allowed on wheat, corn, pease, barley and rye passed down to Montreal, per $O.C.\ 20th\ April,\ 1888.$

U.—Comparative Statement of the Quantity of Freight passed down the Welland Canal, &c.—Continued.

Articles.	Quantity passed down to Montreal.	Quantity passed down to Canadian Ports between Port Dalhousie. and Cornwall.	Quantity passed down to United States Ports.
1889.	Tons.	Tons.	Tons.
Ashes, pot and pearl	107	5	
Coal		25,931 11,200	1,124 147,045
Crockery and earthenware		1	111,010
Figh		5	
Flour Furniture	6,841		5,017
	2	4	30
Horses	2	613	1
do all other			520
Lard and lard oil		· · · · · · · · · · · · · · · · · · ·	19
Meal, all kinds	148		17,224
Meats other than pork	32	2	3
Molasses	320	•••••	88
Oats	320	2	27,492
Oil, in barrels	798	4	*******
Oil cake	100		
Pork	1,220	114	21
Rye	1,284	634	[
Salt		316	
Stone, for cutting		-,,	<u>.</u>
do wrought			2
do not suitable for cutting	3	375	1,681
Seeds, all kinds	20	8	151 190
Spirits, beer, &c	20		130
Wheat	70,815	7,241	39,229
Wool	,		452
Merchandise		129	1,591
Rarrels empty			173
Lumbar saun	6.118	4,669	71,055
Masts, spars, &c		220 852	į•••••
Railway ties.			158
Saw logsStaves and headings, barrel		4	100
do do pipe	202	304	
do do West India	68	559	
Shingles	1		51
Snlit noets &c		17	
Timber, square	9,302	70,579	240
Woodenware, &c			2
	900 907	190 504	919 574
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.

Quantity passe down to Montreal.		Quantity passed down to Canadian Ports between Port Dalhousie and Cornwall.	Quantity passed down to United States orts.
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 Furniture Flass, all kinds	49 3,065 1 1	1	9,204 21
Horses. Iron, all other Kryolite. Lard and lard oil.	3	1,280	1 1 1,620 30
Meal Meats Dats Dil, in barrels	222 479	73	20,482 15 27,030
Oil cakePaintPease	2	19	3 14
Pork. Potatoes Rye Salt	1,120	1 701	88
Stone, for cuttingdo wrought. Seeds, all kinds Spirits, &c.	2	5,761 639	18 135 228
Tallow	54 75,515	5,241	31,527
Merchandise Barrels, empty Firewood, in vessels Lumber, sawn, in vessels		32 1,398 3,767	1,822
do rafts	384	187 36	47,590
Shingles Square timber, in vessels do rafts Woodenware		73,112 17,683	14
Corn 16,033	219,539	144,301	327,833
Oats	16,433		*16,433

^{*}This quantity of grain was transhipped at Ogdensburg and passed down the St. Lawrence canals to Montreal.

A refund of 18 cents Welland Canal tolls was allowed on wheat, Indian corn, pease, barley, rye (and oats for export), when shipped for Montreal or some port east of that point, per Orders in Council 26th February and 5th May, 1890

U .- COMPARATIVE STATEMENT of the Quantity of Freight passed down the Welland Canal, &c .- Continued.

$egin{array}{c} \mathbf{Articles.} \end{array}$	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.	
AshesAgricultural products	40 2		42	
Barley Corn	52,539	5,144	8,113 127,494	
CoalFlour	3,324	20,698	1,382 6,802	
Fish	2	2	1 7	
Glass	2	2 21	$\frac{1}{3}$	
Hay	371	128 1,036	10	
do all other	100 67	16	10 10 26,096	
Meal, all kinds. Meats, other than pork. Molasses.		1 20	20,030	
Molasses, Dats			52,823	
Pease	390 201		73	
Rags	64,978	969	60	
Seeds, all kinds	2	1,861	256 494	
Stone for cutting		6,602 7		
Tobacco	1	ġ	8	
Wheat	159,785	692 8	32,097	
Whisky and all other liquors	105	57	167 1,237	
Merchandise	278	1,098	1,779 1,773	
Lumber, in vesselsdo in rafts	917	1,300	56,456	
Fimber, square, in rafts	5,680	14,638	4	
Corn	291,776	54,315	317,209	
Wheat	17,817		*17,817	
Total	309,593	54,315	299,392	

^{*} This quantity of grain was transhipped at Ogdensburg and passed down the St. Lawrence Canals to

A refund of 18 cents a ton Welland Canal tolls on wheat, Indian corn, pease, barley, rye and (for export) oats, originally shipped for Montreal or some port east of Montreal, per Order in Council, 25th March, 1891.

U .- COMPARATIVE STATEMENT of the Quantity of Freight passed down the Welland Canal, &c.—Continued.

Articles. Quantity passed down to Montreal.		Quantity passed down to Canadian Ports between Port Dalhousie and Cornwall.	Quantity passed down to United States Ports.
1892.	Tons.	Tons.	Tons.
Ashes, pot and pearl	17 54	2	
BarleyCornCoal.	53,689	7,637 14,839	6,433 131,222
Flour Fish	2,874 9	14,009	651 11,018
Furniture Hides and skins Horses.	1 20 2		7
Iron, railwaydo all other	16	100 765	1 31,724
Meats, other than porkOatsOil	94		29 36,935
Pease Potatoes.	524		1
Pork Rye Salt	9,119	273 865	44
Seeds, all kinds	75		50 1
Stone for cuttingSugarWheat	194,281	1,264	20 26,950
Whisky, beer, spirits, &c	6	15	20,990 46 70
Merchandise not enumerated	36	13	1,304 29
Lumber, sawn, in vessels Square timber. Staves and headings, pipe do do West India	440	150 42,768 80 76	83,403 440
Shingles	200		25
*Wheat	263,144 +4,341	74,227 —4,341	330,403
Total	267,485	69,886	330,403

^{*}This quantity of wheat was taken from Kingston to Ogdensburg and stored in elevators, and subsequently transhipped to Montreal.

A refund of 18 cents a ton, Welland Canal tolls, was allowed on wheat, Indian corn, pease, barley, rye, oats, flax seed and buckwheat, which passed down the whole length of the Welland and St. Lawrence Canals, to Montreal, or any port east of Montreal, and such products exported out of the country, and in such cases only.

U.—Comparative Statement of the Quantity of Freight passed down the Welland Canal, &c.—Continued.

Articles.	Quantity passed down to Montreal.	Quantity passed down to Canadian ports between Port Dalhousie and Cornwall.	Quantity passed down to United States Ports.	
1893.	Tons.	Tons.	Tons.	
Ashes, pot and pearl	23 600	1,110	16,751	
BricksCorn.	278,564	1,251 5,752	156,776	
Coal Flour Fish	5,514	17,944	2,123 6,588 5	
Furniture Horses Iron, pig	1	1	6 2 100	
do all other		1,025	36,352	
Meats, other than pork Oats	9,761	1,090	20,313 52	
RyeSalt.	3,669	1 286	1	
Seeds, all kinds	209,212	17,602	29,117 83	
Wool Merchandise not enumerated	4	2	80 1,693 9	
Firewood (in rafts)	667	15 1,981	123,665	
Shingles Square timberStaves and headings, barrel		45,605 12	13	
do pipe		7 53		
Total	508,016	93,737	393,748	

There was no rebate allowed of the Welland Canal toll on grain passed down to Montreal during the season of navigation in 1893.

season of navigation in 1893.

The tolls were, however, reduced by Order in Council of 13th February, 1893, as follows:—"For the season of 1893, the canal toll for the passage of the following food products: wheat, Indian corn, pease, barley, rye, oats, flax seed and buckwheat, for passage eastward through the Welland Canal be ten cents per ton; and for passage eastward through the St. Lawrence Canals only, ten cents per ton, payment of the said toll of ten cents a ton for passage through the Welland Canal to entitle these products to free passage through the St. Lawrence Canals."

U .- COMPARATIVE STATEMENT of the Quantity of Freight passed down the Welland Canal, 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 1894.

Articles.	Quantity passed down to Montreal	Quantity passed down to Canadian ports between Port Dalhousie and Cornwall.	Quantity passed down to United States Ports.	
1894.	Tons.	Tons.	Tons.	
Apples. Ashes Barley Bricks Coal Corn Dye woods and dye stuffs Fish Flour Furniture. Horses Iron, pig. do all other Meals. Nails Oats Oats	50 19 258 	552 13,818 3,243 4 41 3 2 2,170 183	28,095 727 105,329 2 5 16,880 4 60,390 57 27,621	
Oil, in barrels Pork Salt Spirits, beer, &c.	717	27 133 3	56	
Spirits, beer, dec. Wheat White lead.	212,557 16	13,349	52 42,934	
Wool Merchandise not enumeratedBarrels, empty	314	16	1,484 2,889	
Sawn lumber, in vessels	683	47,030	86,545	
Total	292,191	80,68	373,070	

There was no rebate allowed of the Welland Canal toll on grain passed down to Montreal during the

season of navigation in 1894.

season of navigation in 1891.

The tolls were, however, reduced by Order in Council of 16th April, 1894, as follows:—"For the season of 1894, the canal tolls for the passage of the following food products: wheat, Indian corn, pease, barley, rye, oats, flax seed and buckwheat, for passage eastward through the Welland Canal be ten cents per ton; and for passage eastward through the St. Lawrence Canals only, ten cents per ton, payment of the said toll of ten cents a ton for passage through the Welland Canal to entitle these products to free passage through the St. Lawrence Canals."

U.—Statement showing the quantity of Freight passed down the Welland Canal to Canadian Ports, &c.—Continued.

RECAPITULATION.

1		Quantity passed down to	Quantity passed
	Quantity passed	Canadian Ports	down to United States
Articles.	to	between	Ports on
!	Montreal.	Port Dalhousie	the South Side
		and Cornwall.	of Lake Ontario,
1884.	Tons.	Tons.	Tons.
Barley	38	52	
Corn	55,552 872	9,552	53 707
Rye	477		9,874
Wheat	84,822	2,549	40,975
Total Grain	141,761	12.153	104,556
Other Articles	26,954	12,153 88,272	60,987
Total	168,715	100,425	165,543
1885.			
Barley			228
Corn	44,401	9,996	63,229
OatsPease	11		882
Rye			
Wheat	52,157	2,003	53,235
Total Grain	96,569	11,909	117,574
Other Articles	36,399	113,853	55,759
Total	132,968	125,762	173,333
1886.			
Barley]	
CornOats	116,517	8,871	93,503
Pease	608	(4,790
Rye Wheat	86,815	969	E9 0E0
			53,258
Total Grain Other Articles	203,940 40,574	9,881 108,246	151,551 82,703
Total	244,514	118,127	234,254
1887.			
Barley			1,709
Corn	24,609	6,898	83,431
*Oats	362		12,050
Rye		1	
Wheat	160,063	4,940	37,678
Total Grain.	185,034	11,838	134,868
Other Articles	28,800	55,794	69,447
Total	213,834	67,632	204,315

^{*} There was no refund on oats for 1887, 1888 and 1889.

U.—Statement showing the Quantity of Freight passed down the Welland Canal to Canadian Ports, &c.—Continued.

RECAPITULATION—Continued.

Articles.	Quantity passed down to Montreal.	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	66,443	25,469	102,974 26,510
Pease. Rye. Wheat.	93,915	54 632 14,365	179 39,999
Total GrainOther Articles	160,358 23,541	†40,520 73,281	169,664 68,803
Total	183,899	113,801	238,467
1889. Barley			
Corn	195,350 320	11,200	147,045 27,492
Rye	1,284 70,815	634 7,241	39,229
Total GrainOther Articles	267,769 25,158	19,075 111,509	213,766 99,808
Total	292,927	130,584	313,574
1890.			0.710
Barley. Corn. Oats. Pease.	150,999 879	11,584 73	6,519 180,842 27,030 14
RyeWheat	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
1891.			
Barley 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	277,692 + 17,817	6,805	220,527 - 17,817
Total	295,509 14,084	47,510	202,710 96,682
Grand Total	309,593	54,315	299,392

^{*} Owing to a break in the Cornwall Canal, 14,921 tons of the above quantity of grain were transhipped to Montreal via Canadian Pacific and Grand Trunk Railways, and the refund of 18 cents per ton allowed

[†] Of this quantity of grain, 16,433 tons were transhipped at Ogdensburg to Montreal.

U.—Comparative Statement of the Quantity of Freight passed down the Welland Canal, &c.—Concluded.

Articles.	Quantity passed down to Montreal.	Quantity passed down to Canadian Ports between Port Dalhousie and Cornwall.	Quantity passed down to AIA United States Ports.
1892.	Tons.	Tons.	Tous.
Barley	53,689	7,637	6,433 131,222 36,935
Pease Rye Wheat	524 9,119 194,281	273 5,373	26,950
Total grain	257,613	13,283	201,540
Montreal	4,341	4,341	
Total	261,954 5,531	8,942 60,944	201,540 128,863
Total	267,485	69,886	330,403
1893.			
Barley	600 278,564 9,761	1,110 5,752 1,090	16,751 156,776 20,313
Pease	3,669 209,212	17,602	29,117
Total grainOther Articles	501,806 6,210	25,555 68,182	222,958 170,790
Total	508,016	93,737	393,748
1894.	1		
Barley Corn Oats Pease	258 60,661 175	3,243 107	28,095 105,329 27,621
Rye	212,557	13,349	42,934
Total grain	273,651 18,540	16,699 63,982	203,979 169,091
Grand total	292,191	80,681	373,070

^{*}This quantity of wheat was taken from Kingston to Ogdensburg and stored in elevators and subsequently transhipped to Montreal.

V.—Summary of Quantity of Freight passed down Welland Canal on which full Tolls were paid.

· ——	Quantity passed down to Canadian Ports: Toronto, Hamilton, King- ston, Cornwall, &c.	Quantity passed down to United States Ports: Oswego, Ogdens- burg, &c., on south side of Lake Ontario.
1883.	Tons.	Tons.
Grain Other articles.	10,650 173,852	121,876 53,579
Total	184,502	175,455
1884.		
Grain Other articles	12,153 88,272	104,556
Total	100,425	165,543
1885.		
Grain	11,909 113,853	117,574 55,759
Total	125,762	173,333
1886.		
Grain	9,881 108,246	151,551 82,703
Total	118,127	234,254
1887.		
Grain	11,838 55,794	134,868 69,447
Total	67,632	204,315
1888.		
Grain Other articles	25,599 73,281	169,664 68,803
Total	98,880	238,467
1889.		
Grain	19,075 111,509	213,766 99,808
Total	130,584	313,574
1890.		
Grain	16,899 127,401	* 245,932 81,901
Total	144,300	327,833
1891.		
Grain	6,805 47,510	* 220,527 96,682
Total	. 54,315	317,209
204	l	-)

V.—Summary of Quantity of Freight passed down Welland Canal on which full Tolls were paid—Concluded.

· · · · · · · · · · · · · · · · · · ·	Quantity passed down to Canadian Ports: Toronto, Hamilton, King- ston, Cornwall, &c.	Ports:
1892.	Tons.	Tons.
GrainOther articles	8,942 60,944	201,540 128,863
Total	69,886	330,403
1893.		
Grain Other articles	25,555 68,182	222,958 170,790
Total	93,737	393,748
1894.		
Grain	16,699 63,982	203,979 169,091
Grand Total	80,681	373,070

^{*} Of this quantity of grain 16,433 tons were transhipped to Montreal in 1890; and 17,817 tons in 1891. There was no rebate allowed of Welland Canal tolls on grain passed down to Montreal during the seasons of navigation of 1893 and 1894.

CANAL REVENUE

CANAL

COMPARATIVE STATEMENT for Years

	January.	February.	March.	April.	May.
	\$ cts	\$ cts.	\$ cts.	\$ cts.	\$ cts
Welland Canal, 1893 do 1894	5 00 84 00		10 00	6,826 13 11,124 51	29,142 22 27,769 61
Increase	79 00		10 00	4,298 38	1,372 61
St. Lawrence Canals, 1893	800 00		0 75	259 96 1,355 23	9,487 81 11,962 36
Increase	800 00		0 75	1,095 27	2,474 55
Chambly Canal, 1893				8 99 21 67	3,575 95 3,308 79
Increase	. ,			12 68	267 16
Rideau Canal, 1893do 1894	2 00			2 00	660 00 1,161 39
Increase	2 00			2 00	501 39
Ottawa Canals, 1893				0 70 200 58	6,122 68 6,202 29
Increase		,		199 88	79 61
St. Peter's Canal, 1893	7 01 14 33		1 50	7 40 1 80	270 42 211 57
Increase	7 32	,	1 50	5 60	58 85
Trent Valley Canals, 1893				2 78 11 53	58 07 136 82
Increase				8 75	78 75
Murray Canal, 1893				17 80 35 07	72 22 62 58
Increase				17 27	9 64
Total, increase			12 25	5,624 63	1,426 04

REVENUE.

ended 31st December, 1893 and 1894.

June.	July.	August.	September.	October.	November.	December.	Total.
\$ cts.	\$ cts.	\$ ets.	\$ cts.	\$ ets.	\$ cts.	\$ cts.	\$ cts
28,648 81 22,789 22	28,622 51 19,813 54	27,195 41 21,801 35	26,217 82 18,645 67	28,351 53 21,551 61	15,134 58 13,887 54	3,296 76 2,414 14	193,440 77 159,891 19
5,859 59	8,808 97	5,394 06	7,572 15	6,799 92	1,247 04	882 62	33,549 58
12,732 45 13,427 32	14,919 33 14,728 85	14,160 79 12,227 60	14,018 44 10,042 17	12,188 01 11,212 49	7,557 91 6,415 97	77 27 490 76	86,201 97 81,864 50
694 87	190 48	1,933 19	3,975 27	975 52	1,141 94	413 49	4,337 47
3,531 07 3,458 66	3,328 03 3,966 07	3,592 08 2,621 22	3,332 95 2,638 31	3,212 98 3,784 31	2,077 10 1,398 45		22,659 15 21,197 48
72 41	638 04	970 86	694 64	571 33	678 65		1,461 67
1,096 56 1,020 94	1,155 60 910 90	1,209 61 1,238 62	885 92 882 20	679 30 563 30	438 18 522 30		6,129 17 6,299 65
75 62	244 70	29 01	3 72	116 00	84 12		170 48
5,642 55 5,405 16	4,490 96 5,255 10	4,764 76 5,233 52	5,302 63 4,465 67	5,564 04 4,935 44	3,423 23 2,369 02		35,311 55 34,066 78
237 39	764 14	468 76	836 96	628 60	1,054 21		1,244 77
342 61 338 04	422 12 353 15	392 96 378 19	353 88 382 21	353 09 401 43	346 59 372 22	168 00 182 70	2,664 08 2,637 14
4 57	68 97	14 77	28 33	48 34	25 63	14 70	26 94
100 59 175 53	168 00 241 98	204 09 209 02	182 89 218 43	159 48 105 13	93 57 13 29		969 47 1,111 73
74 94	73 98	4 93	35 54	54 35	80 28		142 26
115 63 120 57	102 79 141 45	102 75 120 90	110 69 86 43	61 36 102 25	47 43 86 70	5 17 0 25	635 84 756 20
4 94	38 66	18 15	24 26	40 89	39 27	4 92	120 36
5,474 83	7,798 30	7,792 03	13,043 13	7,913 83	4,053 10	459 35	40,187 33
				Tota Tota	al for Year 18 al for Year 18	93	349,012 00 307,824 67

Comparative Statement showing the quantity of Vegetable Food and Lumber passed through the Canals during the Years ended 31st December, 1893 and 1894.

			VRG	Vrgetable Food.	эр.			LUMBER.	Total.
	FLOUR.	WHEAT.	CORN.	BARLEY.	OATS.	RYE.	ALL OTHER.	,	
-	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Welland Canal, 1893.	15,235 33,628	258,392 270,993	441,092 169,233	18,599 28,353	31,283 27,962	3,671 567	36,981 60,673	129,295 88,546	934,548 679,955
Increase	18,393	12,601	271,859	9,754	3,321	3,104	23,692	40,749	254,593
St. Lawrence Canals, 1893.	13,889 23,135	236,010 219,240	287,783 65,624	2,547 525	28,343 2,094	5,841 673	42,700 30,739	47,108	664,221
Increase	9,246	16,770	222,159	2,022	26,249	5,168	11,961	4,815	279,898
Chambly Canal, 1893. do 1894.	480 567			98 89	1,141		832 1,321	72,386 64,765	74,937 67,354
Increase	87			08	508		489	7,621	7,583
Rideau Canal, 1893. do 1894.	369 427	182	17 80	118	289	\$2	160	34,487 39,843	35,556 41,933
Increase	26	1,164	63	2	278	24	45	5,356	6,377
Ottawa Canals, 1893do 1894	14	∞ :	2	5	2,309	523	571 521	382,442 401,526	385,416 402,526
Increase	13	α		2	1,881	.88	50	19,084	17,110
				_		•		•	

St. Peter's Canal, 1893	1,541			: :				4,831 6,269	6,372 8,511
Increase Decrease	701							1,438	2,139
Trent Valley Canals, 1893.		10						1,153 1,870	1,158 1,870
Increase Decrease								717	712
Murray Canal, 1899.	228	414	en	38 657	16	19 205	1,508 2,057	987 370	3,037 4,224
Increase	173	284	m	619	10	186	549	617	1,187
Total increase.	28,671	2,734	493,954	8,316	32,247	8,158	12,764	27,207	514,549
333	-		Total fo	Total for year 1893. do 1894.					2,105,245 1,590,696

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th September, 1895.

APPENDIX A

No. (A) 1.—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 1894.

475 55 102 19	12,078 95	127 05 13 35 12 30	2,800 71 19 64 5 80	0 30 155 50 1 56 16 95	85 05 29 20	85 33	5 55	203 92 6 75 0 15 38 85	0 15 27,005 47	0 72 297 55	6,650 02	313.00
4 73 00 37 18	12,078 80		2,800 71 5 40 5 80	154 (0	27 10		1 20	10 40	26,996 21	0 45 296 80	666 86	319.89
2 55 65 01	0.15	127 05 13 35 12 30	5 93	 0 30 0 30 1 56 16 95	85 05 2 10	85 33	4 35	193 52 6 15 0 15 38 85	0 15 9 26	0 27 0 75	5,983 16	6
2,3 8 2 690	60,395	88.9 88.9 88.9	27,182 27,962 128 29	779 113	567	696	35	1,615 44 1 259	270,993	1,489	44,535	5 997
2,365 199	60,394		27,962 27,962 29	773	138		9	325	270,514	1,484	3,849	5.073
17 491		89 89 89 82	70	2 6 113 113	567	696		1,563 41 259	479		40,686	
2,365 128	4		22	717			9	67	98,607		294	
	390		57 321 29	92				22	346			
20	90,390	: . : :	$\begin{bmatrix} \cdots \\ 91 \end{bmatrix} \begin{bmatrix} 27,621 \\ \cdots \end{bmatrix}$.61					53,846	5 1,4	1 2,922	
17 280		847 64 79				661	8	11,234			39,051	
									11,989			
144			3.	100							544	
77			341		133			: H	106,072	18	633	: :6
29		25	9 :	: : : en :	567	308		320	479	14	1,091	
	Kryolite chemical ore and other ore, except iron Lard and lard oil Meal, all kinds				Kags Rye Rosin C.Salt			eer, &c		Whiting Wool other goods and mer-		•

No. (A) 1.—General Statement showing the Quantity of each Article transported, &c.—Concluded.

Articles.	From Canadian to Canadian Ports.	om dian dian ts.	From Canadian to United States Ports.	dian Janes States ts.	From United States to United States Ports.	States	From United States to Canadian Ports.	m States lian s.	H	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.				
												es cts.	s cts.	e cts.
					:								:	
		1,294	24	23,641		62,905		682		88,522	88,546	4 20	15,827 69	15,831 89
do rafts. Marts, spars and telegraph	:	:	:	:	:	:	•	:	:	:	:	:		:
Masts, spars and telegraph	:		:	:	:	:	:	:	:	:	:	:		
Railway ties, in vessels		: :	: %	120	::				: 8 8 :	120	158	3.75	2 88	89 6
Saw-logsStaves and headings, barrel	2,169	919		260					2,169	1,479	3,648	08 86	70 37	169 17 31 05
Staves, salt barrel		: :								: :	:83		10 35	10 35
in vessels Split posts and fence rails,	:	4	<u> </u>	:	:	:	:	:	:	4	ग		0 78	0 78
in rafts Timber, square, in vessels do rafts	124	1,100	17					45,930	124	47,030	47,047	22 st	7,050 49	7,052 99
Traverses. Woodenware and wood partly manufactured		: m	. 10		: 68			673	: 8	9	00 :		2 40	60.04
Total freight paying tolls.	6,580	117,867	1,201	36,910	220,948	361,319	1,270	•	239,999	758,783	998,782	44,827 18		141,295 81
Articles having paid full tolls on the St. Lawrence Canals, free .— Agricultural products, vegetable.	4		i			:		:			ıo			

Committee 125	\$1,027 47	nal Stat	VLIN, Ganal Statistics	R. DEVLIN	R. I		:				:	:	d in above	include	*Athount of damages not included in above.	*Arhoun
sand: 125 2,156					lic rents	f hydrau	xclusive o	venue, ea	Total re							
sand; 125 2.166 2.281 2.	88									receipts	*Dan Other					
ter lime 125 2,116 2,281 1,17 1,11	7 159,694 1: 99 00	105,750 5	53,943 62					11,	Total to	:	Fines					
ter lime 125 2.156 2.281 2.281 2.281 sand; 2.05 2.06				\$1,415 85	:	:		:	ree goods							
ter lime 125 2.156 sand:	18,018 380								essels	tolls on v	Total					
ter lime 125 2.156 sand; 253 and; 253 and; 253 arthenware. 20 107 107 116 117 11 11 11 4.22 150 150 150 150 150 150 150 150 150 150	*			1,008,221			242,687	1,270		,	1	9,597		7,623	otal freight	Grand to
ter lime 125 2,156 253 2,284 and; 253 253 253 253 253 253 253 254 255 255 255 255 255 255 255 255 255				906		906						299		333		hiting
ter lime 125 2.156 2.281				87 -		C 7 -	:					2				hite lead.
125 2,281 258 258 258 258 258 258 258 258 258 258				2,72 327		2,724 327			:	:	:	2,257 108,257	:	467		ngar
125 2,284 258 258 258 258 258 258 258 258 258 258			_	248		248						248		٦ :	, &c	pirits, neer, teel
125 2,284 253 2,284 253 2,284 253				76		3.3						: 5 ;		· m ·		da ash
125 2.284 253 2.284 253 2.284 253 2.284 253 2.284 253 2.284 253 2.284 254 254 254 254 254 254 254 254 254 25				8 –			:	:	:	:	:	83	:		spr	seds, all kir
125 2.284 253 2.284 253 2.284 253 2.284 253 253 2.284 253 253 2.284 253 253 2.284 254 254 254 254 254 254 254 254 254 25			•	843		843						. 25. 25.		1 30		lt
125 2.284 2.				8 152	•	8						, ₇₀ 2		• നാ ദ		aint.
125 2,281 2,				95°°°		00° 00°		:				9 <u>5</u> 4		Ŧ ⁷		ails.
125 2.156 2.281 2.				14		1.2						. 49	:	=======================================		anilla.
125 2.284 2.) t-		31-						3 ! ~	:		than nork	eal, all kin
125 2,281 2,281 2,281 2,281 2,281 2,281 107 107 112 112 175 2,281 175 2,281 2,			-	117	:	114	:				:	102		12		do all othe
125 2,281 25 263 253 107 107 512 512				22 88		58				:	:	175	:	06	spr	lass, all kin
125 2156 2283 253 253 107 107				512		512						512		: :		sh
125 2,281				107		<u> </u>	:				:	253 107	:	:	d sand.	ay, lime at
				2,281		2,281						2,156		125	water lime	ment and

No. A (2).—General Statement showing the Quantity of each Article of Through Freight transported on the Welland Canal and the Amount of Tolls collected during the Season of Navigation in 1894.

Articles,	From Canadian to Canadian Ports.	rom nadian to nadian orts.	Fr Cana United	From Canadian to United States Ports.	Fr. United United Por	From United States to United States Ports.	Fr United Expans Cans	From United States to Canadian Ports.	Tons.	ď	Total Tons.	Amount of Tolls, Up.	Amount of Tolls, Down.	Total Amount of Tolls.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.				
												8 cfs.	e cts.	e ots.
Ashes, pot and pearl		5	13		0.2			138	88	13	133	12 45	2 60 10 00	2 60 22 45
Agricultural products not en- umerated, vegetable		:	, Ç			:		:	۲-	:	2	1 05	:	1 05
		528				28,095		652		28,353	28,353	0 15	2,835 30	0 15 2,835 30 110 40
					187,794	727	1,269	13,818	189,063	14,545	203,608	37,812 60	2,961 20 16,923 30	40,773 80 16,923 30
			, m		3 3				33		3 3 9 274	0 15 0 45 0 45 0 45 40 35	1 20	0 15 0 45 1 65 41 35
		203	9			17,795		15,426		33,424	33,424	1 20	6,684 80	9,68
[8].			7 : : .			· · · · · · · · · · · · · · · · · · ·		: · · · · · · · · · · · · · · · · · · ·	C1 : :00			0.30	1 40	0.30
ndes and skins, norms and				:	32		:	:	3		32	13 20		13 20

	:	:	200	<u>:</u> :	 : :	:	:		<u>ş</u>	:	3		:	
do pig	: : ·	: : :	144	: :::	172			2,365	17	2,365	2,382	2 55 53 75	473 00 36 80	475 55 100 55
٠.	- : :	: _ } :	<u>: : </u>	<u>:</u> : : : :	: : } :					- -	:			:
other ore, except iron Lard and lard oil Meal, all kinds				: : : : : : : : :				. : च		60,394		0.15	12,078 80	12,078 95
Meats, other than pork	- : : : : : : : : : : : : : : : : : : :			<u>:</u> : : : :	847 64				748		847 89	127 05 13 35 13 35		127 65 13 35 13 35
Molasses Nails.	<u> - 명</u> : :	: :00 : :00	10.2	<u> </u>	 6. :	57 621	: :		88	57.	92 92 27,903	5.25	11 40 2,790 30	2,730 16 6 4 05,730
Oats Oil (in barrels) Oil cake		: : 70 3 : :	: es		.	83		22	46	នេស	121 28	14 10		19 28 38
and the same of th		::	9		οN :			717	:0.0	773	779	:86 :00 :	154 60	
	::		113	: : : :			: :	: :	113		113	16 95		16 9
RagsRye.	299	::	: : : : : :						299		299	85 05		85 05
& Rosin	: 13	133				: :			13	133	146	1 95	26 60	28 25
					99				661	:	661	66 10		66 10
								9	. :83 : :	9		4 	1 20	5
Steel Sugar Surits, beer, &c.	::- ::-	: : : : : : : : : : : : : : : : : : : :			1,234	52		73	1,243		1295	186 45 6 15 6 15	ii 40 0 60	196 8
	::	<u>:</u> :::	: <u>:</u> - :	<u>:</u> : :	259		: : : :		259		259	- 88 - 58		88
	69	105,274		11,113		53,846		209'86		268,840	268,842	0 15	26,884 00	26,884 3
					10	1,484		: :		1,484	1,489	0.75	296.80	297 55
All other goods and merchandise not enumerated.	167	က	514	:	39,051	2,922	:	202	39,732	3,219	42,951	5,959 80	643 80	6,603 60
Bark	:		12					12	12	19	8	2 40	3 00	5

No. (A) 2.—General Statement showing the Quantity of each Article of Through Freight transported on the Welland Canal, &c.—Concluded.

nt Total s, Amount of t. Tolls.		s.		12 15,698 32		:						:	49 7,052 99	2 40 40 00	
Amount of Tolls, Down.		& cts.		4 20 15,694 12		:				: :	:	:	7,050 49		
Amount of Tolls, Up.		& cts.			:	:				: :	:	:	2 30	37 60	
Total Tons.				87,252	:	:					:	:	47,047	100	
3	Down.	-		87,228	:						:	:	47,030	9	-
Tons,	Up.				:	:					:	:	17	: 3	
From nited States to Canadian Ports.	Down.				:						:		45,930	: **	
From United States to Canadian Ports.	Up.				:	:									
From United States to United States Ports.	Down.			62,905	:	:		: :			:	:			Ì
From United States to United States Ports.	Up.				:	:		: :			:	:			
From Canadian to to nited States Ports.	Down.			23,641	:	:		: :		: :	:	:			
From Canadian to United States Ports.	Up.			: 7 7	:	:					:	:	17	10	
	Down.					:					:	:	1,100	. **	
From Canadian to Canadian Ports.	Up.					:					:				
Articles.			selsts	Hoops Hop poles Lumber, sawn, in vessels.	do ratts.	, spars, and telegraph	ailway ties, in vessels.	Saw-logs.	-5	do do West India	Split posts and fence rails, in	Split posts and fence rails, in	Timber, square, in vessels	Traversex Woodenware and wood partly manufactured	

8,516 4b 8,676 94 57 50 74 25	\$1,415 85					vessels passengers free goods	Total tolls on vessels do passengers. do free goods.	Total to			
	989,534	745,942	243,592	242,553	1,270	361,319	230,948	34,754	9,527	107,316	1,847
-	006		006						567	: :	333
	81 F		67-	:	:	:			22		: : '
	32.		327								7
•	2,724		2,734	: :				:	248	:	467
	33		183						84		e ro
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	175		175	:					139		
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R. DEVLIN, Compiler of Canal Statistics.

No. (A) 3.—General Statement showing the Quantity of each Article of Way Freight transported on the Welland Canal, and the 3eason of Navigation in 1894.

Articles.	Fr Cana t Cana Pol	From anadian to anadian Ports.	From Canadian to United State Ports.	From Canadian to United States Ports.	From United States to United States Ports.	States States States	From United State to Canadian Ports.	From United States to Canadian Ports.	Tons.	ź	Total Tons.	Amount of Tolls, Up.	Amount of Tolls, Down.	Total Amount of Tolls.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Боwп.	Up.	Down.				
												& cts.	& cts.	e cts.
nd pearl.		149			:		•			143	143		3 58	3 58
products 1, vegetable.		166		+00				:	:	260	260	:	24 00	24 00
Agricultural products not Senumerated, animal.		- 63 - 63								83	55		0 55	0.55
Barley. Bricks									20			4.87		4 87
Brimstone Cement and water lime	1,225								1,225		1,225	106 37		106 37
Clay, lime and sand		75			::			129		129	139		16 13	
Corn. Cattle	-	:-							-	:-		0 0.2	0 02	0 02
Cotton, raw Crockery and earthenware														
Disk wood and dye stuffs Fish.		- 6								127	12		2001 2001	
Flour. Furniture		204							· ec	,	25. 4.	0.40	00	:
Crypsum Glass, all kinds														: :
Hogs Forese	: :&i	• • • • • • • • • • • • • • • • • • •							:8	9	97	04 0	0 17	29 0

railway	:		:	:	:	:	:	:	:	-		:		:
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Pease						-								
Potatoes	:			-	:	-	:	:	:	-		:	- <u>:</u>	: : :
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Pitch and tar	:	:			:	:	:			:		:		
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more suitable for cuching,	308								308	or or	308	19 23		19 23
all kinds	' :													
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Soda ash	:		:		-	:	:	· · · · · · · · · · · · · · · · · · ·	-	:			:	
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Sugar	22	:	:		:	:	:::::	:	97. 27.		320	20 2	:	202
ts, beer, &c	:::::::::::::::::::::::::::::::::::::::	:	-	-	-	:	: : : : : : : : : : : : : : : : : : : :	:	::::	:::::::::::::::::::::::::::::::::::::::			:::::::::::::::::::::::::::::::::::::::	
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Tallow	:													
	477	798	: ::	₩ —	:	:	:	:	47	7 1,674	2,151	96 80	112 21	121
	14	15	:	:	: : :	: : :	:	:		10.	66	0 97	0.45	0.79
Wool	•	1												
All other goods and merchan-											1			
dise not enumerated	924	8	옮 -	<u></u>	:	:	: :	:	 	990	1,584	88	8 8	46 42
Bark	:		:	<u>:</u>	:	:	:	:	:	-	<u>F</u> L	:	9	

No. (A) 3.—Statement showing the Quantity of each Article of Way Freight transported, &c.—Concluded.

Rricles, Po										-			
Up.	r rom anadian to anadian Ports.	From Canadian to United States Ports.	dian States	From United States to United States Ports.	States States States is.	Fn United ta Cana Pon	From Inited States to Canadian Ports.	Tons.	, a	Total Tons.	Amount of Tolls, Up.	Amount of Tolls, Down.	Total Amount of Tolls.
	Down.	Up.	Down.	Up.	Down.	L'P.	Down.	Up.	Down.				
											♣ cts.	& cts.	♣ cts.
Floats 24 Firewood, in vessels 24 do rafts.	4 5,973							24	5,973	5,997	0.20	312 89	313 09
Hoops Hop poles Lumber, sawn, in vessels do rafts	1,294								1,294	1,294		133 57	133 57
co Masts, spars, and telegraph Foles, in vessels Masts, spars, and telegraph			:			:			:				
poles, in rafts		8	120					: 8 8 : :	120	158	3 75	5 88	9 63
do ratts. 2,169 Saw-logo Staves and headings, barrel. do do pipe.	9 919		200					2,169	1,479	3,648	08 86	70 37 31 05	169 17 31 05
Staves, salt barrel. Shingles. Split posts and fence rails, in Vessels.												10 36	10 35
rafts Timber, square, in vessels do rafts.								124		124		3 49	3 49
Woodenware and wood partly manufactured. Total freight paying tolls. 5,776	6 10,551		2,156				134	5,846	12,841	18,687	275 86	770 55	1,046 40

824 91 248 33	01 30 2,119 64
411 02 119 73	1,3
413 89 128 60	818 34
Total way tolls on vessels	Total way tolls.

BAL STATEMENT showing the Quantity of each Article transported on the St. Lawrence Canals, and the Amount	
ne St. Lawrence	1894
transported on the	of Demonstrated Junior the Gooden of Novination in
of each Articlo	Sough the Rose
ng the Quantity	on postool di
STATEMENT showi	of Domon
) 4.—GENERAL	
No. (A	

Articles.	From Canadian to Canadian Ports.	From Canadian to Canadian Ports.	From Canadian to United States Ports.	From Canadian to to ited States Ports.	Fr United L United Por	From United States to United States Ports.	From United St to Canadia Ports.	From United States to Canadian Ports.	Tons.	18.	Total Tons.	Amount of Tolls, Up.	Amount of Tolls, Down.	Total Amount of Tolls.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.				
T T T T T T T T T T T T T T T T T T T		/						_				e cts.	& cts.	& cts.
Ashes, pot and pearl	01 19	3,032	: :	: :					10 19	3,037	3,056	0 1 8	10 00 418 91	10 50 420 56
Agricultural products not enu- merated, vegetable	311	259	:		:	:	:		311	259	929	45 49	38 02	83 51
Agricultural products not enumerated, animal.	8 6	- -	1				9		245	2,584			578 828	374
Agricultural imprements Barley. Bricks	7,962	501					347	152	8,309 8,309	202 201 201 201		326	50 91	
Bones	792								767	£ :		74 91	2 : :	4.
Buckwheat	6.034		1 903						7.937		2,885 8,021	1,014	118	1,019
Clay, lime and sand	18,815 10	6,650 18,332	8		4 8	1,360	3,818	170,884	22,647	6,650 190,576 4 969	29,297 190,636 4 963	898 2 25 0 25	387 95 26,748 52 206 25	1,286 26,750 206
Cattle	25	ۇ 201				2 :	: : "		1%		268	, en :	16	61
Cotton (raw) Crockery and earthenware Doe wood and doe stuffs	130	27	107				. 8 : . : :		246 161	£ 22	68 88 88 88 88 88 88 88 88 88 88 88 88 88	46 76 14 95	253	51 76
Fish	221		209	:	:	:	l ~	:	737	17.	5		N	GR :
Flour	1,540	: -4 1						83+	1, 55, 1,55	5,092 789	6,632 1,126	35 SS	4 2	540 171
Gypsum (Hass (all kinds)	2,072 327	100 747	202	S					2,072 529 240	119	2,191 629 987	26 33 104 77 12 91	15 75 10 85 41 91	115 62 59 92
nay (pressed)	0#7				: :				: 6	4.6	4.5	GE	4.8	4.8
Horses Hides and skins, horns and	202		:	:				:	707	170	3	3	3	<u>}</u>

ron, railway. do pig do all other. ron ore Kryolite chemical ore and	190 807 13,456	2,2% 14.	129				1,915	: : -	190 927 15,500	2,286	17,	214 941 17,786
other ore, except iron Lard and lard oil Meal, all kinds Meats, other than pork		25.7 28.8 28.8	8						114	257 899 23		<u> </u>
Marble Manila Molasses Nails	345 1,262 (49	1,190 1,268	134 :				165	70	252 1,673 649 569	1,190 1,268	2,1. 3 & & &	1138821
	25.00 12.00 10.00	26,255 7.17 20,255	١				: : : : =		23 33 121 190	.8 .852.73 .82.73 .83	21 22 25 26 21 25 25	a4885
	194 194 194	825%	150				142		194 194 2,200	<u>845</u>	88888 8	ರ ಹ ಬ 4 ರ
Salt. Stone intended for cutting. do wrought do not suitable for cutting, unwrought.	3,719 96 242 105	3.	왕 : : : :				- 683 - 189 - 1		40, 96, 178, 50,	1,074	6,7,8 87,8 1,17	ာတ္ ၂ တပ္
Seeds, all kinds. Soda ash Seel. Steel. Sugar Sugar Chance, fee.	36. 1.274 111. 111.	1 5 ∞ 3 8 0 −	2,903 111 118 188 188 188 188 188 188 188 18				9,161		1,462 1,186 16,338 16,338	±57 ≈ 88 82 52 52	1,71, 171, 189, 1,446, 16,371, 3	202000
	.88 v 478	2, 92, č.	380				-	594	22 017 9 164 173 173 173 173 173 173 173 173 173 173			3322 55
Whiting. Wool All other goods and merchan- dise not enumerated Bark	5,914	3,415	798	135	182		864	: 8 :	7,758	4,000	11,758	· <u> </u>
Barrels, empty	262	181	: ::	:	œ	:	:		808	181	440	

No. (A) 4.—Statement showing the Quantity of each Article transported on the St. Lawrence Canals, etc.—Concluded.

Articles.	Fron Canadian to Canadian Ports.	rom nadian to nadian orts.	From Canadian to United States Ports.	om dian States ts.	Fr United United For	From United States to United States Ports.	Fr United t Cans	From United States to Canadian Ports.	Tons.	*a	Total Tons.	Amount of Tolls, Up.	Amount of Tolls, Down.	Total Amount of Tolls.
	Пр.	Down.	Up.	Боwп.	Up.	Down.	Up.	Down.	Up.	Down.		•	-	
												≉ cts.	æ cts.	
Floats. Firewood, in vessels. do rafts	4,240 1,140	3,584	G();						2,349	3,584	7,824	74 20 89 95	62 72 155 76	136 92 245 71
Hoops Hop poles. Lamber, sawn, in vessels. do rafts	22,517	13,978	3,745			: : <u>%</u> :		837	26,262	14,849	41,111	818 38 1 50	708 45 6 01	1,526 83 7 51
usts, spars and telegraph oles, in vessels	%	8 8	:	:	:	:	:	:	88	9 6	92	0 95	0 95	1 90
Masts, spars and telegraph poles, in rafts Railway ties, in vessels	8	18,808		: :		: :	: :		8	18,808	18,828	0 20	470 20 11 26	470 70 11 26
do rafts Saw logs Staves and headings, barrel	986	16,474							956	16,474	17,400	21 18	376 44	397 62
do pipe do W. India									::					
rrel I fence rails, in	:	10								χC	12	1 60	1 50	3 10
Split posts and fence rails, in		:	:		: -		:	: -					:	
rafts Timber square, in vessels do rafts	25.58 25.88	6,961 8,736							575 875 89	6,961 8,736	1,208 7,536 8,816	28 14 14 28 28 28	8 30 169 85 22 40	8.28 8.38 8.38
Woodenware and wood partly manufactured	\$.	ະລ	- 1	:	:	:	:	:	35	ro.	0†	13 20	2 40	15 60
Total facialt mainer 104 779	100 779	168 189	13.785	666	106	1 788	19.290	,	175, 426 143,071	345,618	488,689	10,003 90	34,207 74	44,211 64

stics.	LIIN, Compiler of Canal Statistics.	iler of Ca	DEVLIN Comp	%							D CANALS,	S AND (AIL WAY	DEPARTMENT OF RAILWAYS AND
81,850 25					of hydra	exclusive	revenue,	Total		a-i	\$1,263.0	in above,	included	* Amount of damages not included in above, \$1,263.08.
2,259 68 16,445 14							rage	"Damages	"Uamages Wharfage at Other receip					
63,005 43 140 00	43,063 91	19,941 52						Fotal tolls.	Total toll Fines					
2,709 45	6,856 66 1,999 51	9,227 68 709 94	\$37,635 13				vessels passengers free goods	uo s	Total toll do do					
	-		886,778	248,361 638,417	248,361	210,618	44,750	1,788	224	222	17,607	425,789	185,780	(+rand total, freight
· P			9310		89					: :			310 999	Stone for cutting Square timber, in rafts.
			333 175 175	100 333 175								333 175		1884
											Marie T. C. Commission			Articles free for canal con-
			104,140	,	104,140		25,460				3,822	b : :	74,858	Woodenware Coal, free, per Order in Council Iron ore
				688		88		: :						White lead.
			212,557	212,557		22,025						190,532		Pork. Wheat
			8	8		: 33 }		::				671		Oil, cake
			314	314 175		÷20%			:::					Meals, all kinds.
			195	195		195						-		Horses Iron, pig
			- 75	- 13			:		:			67 -		Furniture
			60,661 16,503	16,503		1,515						59,146		Barley Corn.
			9: 22 g	6. 61 86 6. 62 86		87						: 30 5	: :	Apples Ashes.

No. (A) 5.—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 1894.

											_		
Fro Cana Cana Por	From Janadian to Canadian Ports.	From Canadian to United States Ports.	dian Grates States ts.	From United States to United States Ports.	om States States ts.	From United States to Canadian Ports.	From lited States to Canadian Ports.	Tons.	s's	Total Tons.	Amount of Tolls, Up.	Amount of Tolls, Down.	Total Amount of Tolls.
Up.	Down.	Up.	Down.	J.	Down.	Up.	Down.	Up.	Down.				
							· ·				* ctr	s cts.	ets.
	2.674					: ;	10		2,679	42 2.679		8 40 401 85	8 40 401 85
292	251						:	292	251	543	43 80	37 65	
1	1,466	1					925		2,391		0 15	358 65 22 00	358 80 22 20
:28	227.3	: :	: :		: :			20	227		05.7	0 45 0 45	0.14
:61	22		: :					:	52		0.30	9 20 20	 0
• • =		1 896						4 858	611	611	7.28		61
,		' <u>:</u>	: :				1 K9 707	25	1,230	1,254	က	\$2 28 28	188
: :c	4	: :	: :				197,001	c	328	328		, 186	32
1 . K	:			: :				9 :62		901)	: - en :	1 : GF
4.5		2 :0		: :				4.6	वाह	9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	305	· • -	888
9 :	:	8 : :			: :	: :		3 :	-		3 :	•	
137	–	: :	::				28	137	2,190 522	2,194 659	°52		329 10 131 80
569	:83 :	202					: :	471	68	200	94.20	2 80	00 001
: :00	17								17 26	17	1 20	8 25 90 90	2 55 5 10
:	12	:		- :		:	:	:	12	12		1 80	1 80
	U D. 282 282 282 282 282 283 283 283 8 8 8 8	Down Down Down Down Down Down Down Down	292 251 1.466 1.110 2.674 2.251 2.422 2.574 2.27 2.27 2.27 2.27 2.27 2.27 2.27 2.	292 251 1,466 1 1,100 250 2574 250 251 251 251 251 251 251 251 251 251 251	292 251 2,674 1100 292 251 2,674 1,230 61 1 107 2 24 1,336 24 1,336 24 1,336 24 1,336 24 1,336 25 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	292 251 2.674 1.100 2.674 2.251 2.425 2.41 2.826 2.41 2.826 2.41 2.826 2.41 2.826 2.41 2.826 2.41 2.826 2.41 2.826 2.42 2.42 2.42 2.42 2.42 2.42 2.42 2.	Down. Up. Down. Up. Down. Up. 292 251 1,466 1 1,1466 1 1,1466 1 1,1466 1 1,1466 1 1,110 1,110 1,110 1,110 1,120<	Down. Up. Down. Up. Down. Up. Down. 292 251 1,466 1 1 1,13 1 1,466 1 1 1 1 1 1 1 1 1 1 1 2,674 1 1 1 1 1 1 1 2 2 1 1 2 2 1 2 2 2 2	Down. Up. Down. Up. <th< td=""><td>Down. Up. Down. Down. Up. Down. <</td><td>Down. Up. Down. Down. Down. Down.</td><td> Down Up Down Up Down Up Down Up Down </td><td> Down Up Down Up Down Up Down Up Down Up Down Up Down Up Down Up Down Up Down Up Down Up Down Up Down Up Down Up S ct. S ct</td></th<>	Down. Up. Down. Down. Up. Down. <	Down. Up. Down. Down. Down. Down.	Down Up Down Up Down Up Down Up Down	Down Up Down Up Down Up Down Up Down Up Down Up Down Up Down Up Down Up Down Up Down Up Down Up Down Up Down Up S ct. S ct

Amount A	1 151 3	2,127 2,236 3,666 3,737 1,382 1,	2,421 319 149 9 202 5 19 202 143 1,337 7 141 1,337 276 1,337 276 1,337 276 1,439 0 2,433 0 1,68 26 2,13 16 2,153 16 1,530 229	25	2000 - 10
emical ore and except iron doi doi than pork b) 262 138 b) 262 138 c) 41 c) 41 c) 41 c) 41 c) 42 c) 43 c) 44 c) 60	2 7			:553 : 858 :	
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than pork 17 150 than pork 25 1 31 15 972 15 972 113 19) 262 138 19) 262 138 127 34 127 34 129 449 129 129 120				28: 888: 88: 88: 88: 88: 88: 88: 88: 88:	
than pork 16 13 19 25 113 19 272 113 18 18 2 441 3 48 127 34 449 129 149 16 16 16 16 17 18 18 18 19 19 19 10 10 10 10 10 10 10				28. 888858. 8: 658 : 5	
1 25 1 15 16 17 18 18 18 18 18 18 18	2 1	<u>:</u>		28: 8888: 88 11: 31: 11: 31: 10: 11: 10: 11: 10: 11: 10: 11: 10: 11: 10: 11: 10: 11: 10: 11: 10: 11: 10: 11: 10: 11: 10: 11: 10: 11: 10: 11: 10: 11: 10: 11: 10: 10	
1972 115 972 118 19, 262 138 13 48 12 44 12 34 12 34 12 34 12 34 12 34 12 34 12 34 12 34 12 34 12 34 13 33 149 15 606 16 60 cutting, 23 30 17 7 84 18	9.2			28: 888858: 8: 83 28: 888858: 8: 83 4:5: 6: 7: 6: 7: 6: 7: 6: 7: 6: 7: 7: 7: 7: 7: 7: 7: 7: 7: 7: 7: 7: 7:	
15 15 15 15 15 15 15 15				28. 88. 88. 88. 46. 31. 11. 33. 33. 33. 33. 33. 33. 33. 33	
113 128 138 138 138 138 138 138 138 138 138 138 139	21			28: 8885.88: 8110 64: 86: 86: 8110	
b) 262 138 418 418 418 418 418 418 419		:	: : : : : : : : : : : : : : : : : : :	88 88 88 88 88 88 88 88 88 88 88 88 88	
r 9,483 127 348 127 348 129 449 15 606 606 606 606 15 10 11 11 11 11 11 11 11 11 11		:	: : : : : : : : : : : : : : : : : : : :	848888 88 84888 88 849 648 88 849 648 88	
9,483 127 44 127 48 129 84 129 84 129 129 129 129 129 129 129 129				848888 :88 848 : 88 849 : 88 84 84 84 84 84 84 84 84 84 84 84 84 8	
2 41 3 48 48 33 44 129 449 129 16 for cutting, 606 16 for cutting, 72 30 17 11 11 11 11 11 11 11 11 11 11 11 11 1				84888 :88 :::	
127 34 48 48 38 48 449				25 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
127 34 38 38 38 449 12				888:88 88:88 :: 88:88 88:88	
## 84 33 84 129 84 129 15 449 16 for cutting 606 itable for cutting, 32 30 rought 32 30 nds 11 259 869 949			. : 54	88 90 90 90 90 90 90 90 90 90 90 90 90 90	
84 123 15: 605 605 32 32 30 83 30 869 243				8 :88 ::	
led for cutting, 605 ht fitable for cutting, 32 30 nds 1 11 259 869 949			. "	‡ : :	
led for cutting 606 ht itable for cutting, 32 30 nds 1 11 259 259 869 249		-	••	3.8	
led for cutting. ht itable for cutting, rought 32 30 nds 1 11 259 869 949	**** ***	1 520	•	:	
32 1 1 259 869 869 749		1,000			
25 1 259 869 849					
32 1 250 111 342 343					
32 30 1 11 259 243		:	:	:	
259 249				₹,	15 55 55
869 942		11 11	12 212 213	OG T	- E
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3 301		:	_	3	-
38	201		-	8	
			:	0	-
		:	:		
202 14				98	
3 3 304	207	15 3 988	4 003	95 419 85	45.0
37 0,001				3 &	
1881		195	195 39		-
					-
s and mer- numerated 2,933 2,237	99	3,731 2,303	6,034 746 20	20 460 60	1,206 80
0.5.5		:	<u>:</u> _	00 1	8
					73

No. (A) 5.—General Statement showing the Quantity of each Article of Through Freight transported on the St. Luwrence Canals, &c.—Concluded.

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							1.0			-				
Articles,	From Canadiu to Canadia Ports.	= 4	Fr Cans T United	From Canadian to United States Ports.	Fr United United Por	From United States to United States Ports.	Fr United t Cane Por	From Inited States to Canadian Ports.	Tons.	ź	Total Tons.	Amount of Tolls, Up.	Amount of Tolls, Down.	Total Amount of Tolls.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Божи.	Up.	Бомп.				
								 				♣ cts.	.≉ cts.	& cts.
Firewood, in vessels.	. 585	:	38						999	- 9 :	672	44 40	0 40	44 80
Hoops Hop poles. Lumber, sawn, in vessels		3,292							14	4,129	4,143	1 20	371 25	372 45
GMasts, spars and telegraph		:												
Masts, spars and telegraph			:	:	:									•
Railway ties, in vessels.														
Saw-logs														
do pipe														
Staves, salt harrel.														
Split posts and fence rails, in	:	:	:				:						١	
Split posts and fence rails, in	:	:	:		:		:							
Timber, square, in vessels	2,000								260		3 6	06 83 :		28 00
Traverses. Woodenware and wood partly manufactured.	: % :		: -						: %		. 88	13 20	2 00	15 20
Total freight paying tolls.	17,579	45,477	9,412					157,110	26,991	26,991 202,587	229,578	j	4,665 65 29,600 42	34,266 07
	-	-		•										

	50 50 11	258		- 5	195 195 195		90 90 90	717	212,557	683 683 683	16,213 16,213	192,302 43,201 494,778 537,982	5,724 02 5,674 68 11,398 70	OT COT IT ON LEG
,	·	893	146	67.			175	6	532		3,822	476 13,234	Total through tolls on vessels	
	:	258	59,1	:		<u>:</u> :			190,532		12,391	29,970 302,476		
Free articles having paid full tolls on the Welland Canal:	Apples	Barley	Corn. Flour	Furniture	Horses Iron, pig	do all other	Oats	Oil cake Pork	Wheat	w nite lead Lumber, sawn, in vessels	Woodenware Coal, free, per Order in Council	Grand total freight.	353	

R. DEVLIN Compiler of Canal Statistics.

APPENDIX A-Continued.

No. (A) 6.—General Statement showing the Quantity of each Article of Way Freight transported on the St. Lawrence Canals, and the Amount of Tolls collected during the Season of Navigation in 1894.

Potal	Amount of Tolls.		& cts.	2 10 18 71	2 06					1,536 53 1,317 97 173 53 18 21		211 12 40 17 42 08 15 62	
	of Tolls, Down.		e cts.	1 60 17 06	0 37	12 27	16 86			1,315 72 173 45 15 23		125 83 15 45 15 75 15 75 5 05	
Amount	Tolls, Up.		ets.	0 50 1 65	1 69	မာ ငံ	318 96 318 96	74 61		888 888 888		24 72 24 72 26 33 10 57	
	Total Tons.		٠.	18 377	27	234	8.53.8 4.53.8	765	3,164	21,084 4,635 1068	88 182 220	4,438 467 2,191 129	25 489
Tons.		Down.		858 858	80	193	216 274 274	:		22,4 4,63,4 4,63,4	:	2,902 267 119 71	
To		Up.		19	19	141	8,259	292	3,082	69 1 60	64 157 200	1,536 200 2,072 58	194
From United States to	Canadian Ports.	Down.		: :	:	:	152		: :	17,157			
Fre	Cans Por	Up.			:	10	347		9 010	010%	29		
rom d States to	United States Ports.	Down.			:	:			: :	1,360 10			
From United States	United St. Ports.	Up.			:	:			: :	‡& :			
From Canadian to	United States Ports.	Down.			:	:						83	
Fre	United St. Ports.	Up.			:	:		: :	8	<u>ଲ</u> ି			
From anadian to	anadian Ports.	Down.		358	80	193	27.2 4.72		7, 2 7, 2 7, 2 7, 2 7, 2 7, 2 7, 2 7, 2	3,507 3,617	488	2,902 267 37 37	3,2,5
From Canadian to	Cans Pol	Up.		10	19	83	7,912	765	2,995	19,130 10		1,536 2,072 2,072	194
	Articles.				oducts getable.	Agricultural products not enumerated, animal	Agricultural implements. Barley. Bricks.	Brimstone.	Cement and water lime.	Coal.	Cotton, raw Crockery and earthenware Dye wood and dye stuffs. Fish	Flax and hemp. Flour. Furntiure Gypsum Glass, all kinds	Hay, pressed

	17 33 33 01 645 26						105 50 50 50 50 50											18 18 18 19 19		-		-	-	_		-		K43 94		8 8
0 55	0 92 0 53 76 77		6 62		:		58 75 34 37	_								0 15		21 45						<u>0</u>	73 22	:	0 15	189 00	301	10 34
	16 41 32 48 568 49			•			46 75 16 24	_					-					2 10 165 90										70 117		12 66
12	186 453 15,365		185	9		545	1,466	398	17,031	25	21.4	252	133	2 219	3,189	385	F 70	1,179	159	112	10.077	289	24	138	9 680	18	52		0,624	325
12	24 14 1,992	:	173		:	:			:							:							:	•					1,697	170
:	162 439 13,373		12	- CO		479	291	88	9 653 720 720 720	818	8 28	216	110	9 185	3,114	8 ;	7/0	105	7, ±	25	10 04	266	24	128		18	49	: {	4,02/	155
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<u>:</u>	1,91				:	16	:	: 4			:	14	:	9.15		 .:		: ::		:	91.0		·-	:					£	
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Hides and skins, horns and hoofs	Ice Iron, railway do pig do all other.	Kryolite chemical ore and	Lard and lard oil	Meal, all kinds	Marble	Manilla. Molusses	Nails	Oil, in barrels.	Oil cake	Potatoes	Pork	Famt. Pitch and tar	Rags.	y Rye	Kosin	Stone intended for cutting	do wrought	unwrought.	Seeds, all kindsSheen	Soda ash	Steel	Spirits, beer, &c	Tobacco, raw	Tin	Turpentine	Wheat	Whiting	WoolAll other goods and merchan-	dise not enumerated	Barrels, empty
•	10	231	Ļ											_																

No. (A) 6.—General Statement showing the Quantity of each Article of Way Freight transported on the St. Lawrence Canals—Concluded.

From Canadian Canadian United States From United States United States Tons. T	525 1,683 8,211	::	20 16,900	10	648 648 575 6,961 20 8,796
Fron Canad to United 1 Port		:: : :			
From Canadian to Canadian Ports.	4.240 3,584 1,158 8,211	<u>::•</u>	20 18,808 727 926 16,474		

Free articles, having paid full tolls on the Welland Canal: Cosl, free, per Order in Council. Iron ore, free, per Order in Council. Free articles for canal construction, O.C., 1884:	62,467						25,460		87,927		87,927			
Coal Lumber, sawn, in vessels. Merchandise Stone for cutting 3 Square timber, in rafts.	310	100 333 175							310	100 333 175	100 333 175 310 660	<u> </u>		
Freight, grand total	155,810	155,810 123,313	4,373	222	224	1,788	44,750	l 1	18,316 205,157 143,639	143,639	348,796			
				\mathbf{T}_{0}	tal way do	tolls on v	essels assengers ree goods.	vessels		Total way tolls on vessels do passengers do free goods \$\$5,032 03	12,032,03	3,503 66 365 34	1,181 98 563 41	4,685 64 928 75
						Total w	Total way tolls	:			:	9,207 55	6,352 41	15,559 96

R. DEVLIN, Compiler of Cunal Statistics.

No. (A) 7.—General Statement showing the Quantity of each Article transported on the Ottawa Canals and the Amount of Revenue collected during the Scason of Navigation in 1894.

Articles.	Fr Cans Cans Po	From Canadian to Canadian Ports.	From Canadian to to United States Ports.	om dian States	Fr United United Po	From United States to United States Ports.	Fr United t Cans	From United States to Canadian Ports.	\mathbf{T}_{0}	Tons.	Total Tons.	Amount of Tolls.
	Up.	Down.	Up.	Down.	Up.	Down.	. Up.	Down.	Up.	Down.		
Ashes, pot and pearl. Apples Agricultural products, not enumerated, vegetable. Agricultural products, not enumerated, animal. Caparicultural implements Caparicultural implements		6 777 1,247 2 2 7								6 77 1,247 2 2 7	6 77 1,250 8 8	* cts. 1 14 4 64 1 24 1 15 69 1 143 0 12 0 69
Bricks Bones	::	6								6	6	0 74
Brimstone Cement and water lime Clay, lime and sand Coal		6,011								6,011	6,011	0 22 171 46
Corn Cattle	:-	431	: :		::		::		:-	431	432	31 96
Cotton, raw Crockery and earthenware Dye wood and dye stuffs.										. €1		86.0
Flast Flour Flour Furniture		27								27 16	27	1 62 1 99
Gypsum. Glass, all kinds. Glass, pressed. Hay, pressed. Hogs. Horses. Hides and skins, horns and hoofs.		3,234 43 113		77					: : : : = :	3,311 43 113 113	3,311 43 124 124 6	330 05 330 05 3 18 5 70 0 60
Iron, railway.		12								12	12	0 20

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enumerated. 14 307 14 307 63 63 64,960 1,278 80 23 22 22 40,350,902 14,336 400,238 400,						-	:	:			:::::::::::::::::::::::::::::::::::::::	:	
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30 54,960 54,960 54,960 150 32,359 1,278 33,637 33,637 23 23 23 40 350,902 49,396 400,298 400,298		:	::	:	:	:	<u>.</u> ::::::::::::::::::::::::::::::::::::	:	:		63		7
30 54,960 150 32,359 23 23 40 350,902 40 400,238 400,238 400,298	empty		3	:::::::::::::::::::::::::::::::::::::::	•	•	: :: ::	:	:	:::::::::::::::::::::::::::::::::::::::	3	3	-
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40 350,902 49,396 40,00,						-	-	:	•				
100000	0.000	4	350 909		49 396	-	-	-	-:	4	400,298	400,338	28,021
001	er gawn, in vessels.	≩	200,000									000	•

No. (A) 7.—General Statement showing the Quantity of each Article transported, &c., Ottawa Canals—Concluded.

Articles.	Fr Cans Cans Por	From Canadian to Canadian Ports.	From Canadian to United States Ports.	From Canadian to nited States Ports.	Fr United United Pol	From United States to United States Ports.	From United St. to Canadia Ports.	From United States to Canadian Ports.	Tons.	18.	Total Tons.	Amount of Tolls.
,	Up.	Down.	Up.	Down.	Up.	Down.	ďp.	Down.	Up.	Down.		
Masts, spars, and telegraph poles, in vesselsdo		3								8.11	3	\$ cts. 0 25 0 04
Railway ties, in vessels do rafts Saw-logs Staves and headings, barrel	: :4 :	4,163								4,163	4,207	88 42
do do West India Staves, salt barrel Shingles. Split poets and fence rails, in vessels.		: : : 3		809						630	630	178 40 1 10
do do rafta Timber, square, in vessels. Traverses Woodcommen and word watty manufactured		2,800								2,800	2,800	29 44 0 60
	853	458,759		51,359					353	510,118	510,471	30,861 85
Free articles for canal construction per Order in Council, 1884. Timber, square, in rafts.	:	180			:	:		:		180	180	
Free per Order in Council, 27th June, 1830. Floats Lumber, sawn, in vessels. d do a rafts. Simber, square, in rafts. Timber, square, in rafts. Traveless.		34,900 35 586 4,120 11,678								34,900 35 586 4,120 11,678	34,900 35 536 4,120 11,678	
Freight, grand total	353	510,298		51,359		:			353	561,657	562,010	

3,025 15		16 00	*Danagee	90 8	34,066 78	\$20 00
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Total tolls on vessels			. 8	Other receipts.	Total Revenue exclusive of Hydraulic Rents	*Amount of damages not included in above
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R. DEVLIN, Compiler of Canal Statistics.

59 Victoria.

APPENDIX A-Continued.

No. (A) 8.—General Statement showing the Quantity of each Article transported on the Chambly Canal and the amount of Revenue collected during the Season of Navigation in 1894.

Amount of Tolls.		s cts.	3 106 09 6 35 10 10	2 28 106 40 23 20	16 644 7,464	3 93	1 10	19 09	940 77	32 18 0 1 00	00 26 00	121 10
Total Tons.			1,108	1,080		102	. 7 = 1	567	13,692	 58 10	970	1,211
ns.	Down.		1,108		163 5,629 76,689	: % :	4.1		3,182	4	926	1,211
Tons.	Up.		101	680	55.33			567	10,510	14	: :	
From United States to Canadian Ports.	Down.		240	400	163 5,629 75,863		: : : : :				970	1,211
Fr United t Cans	Up.										: :	
From United States to United States Ports.	Down.					: : : : : :						
Fr United United Po	Up.											
From Canadian to United States Ports.	Down.											: : :
Fr Cans t United Por	Up.		5	232					8,273	: : 9		:
From Canadian to Canadian Ports.	Down.		868	89 : :	978	:			3,182			
Fr Cans t Cans Pol	Up.					23		567	2,237	14		
Articles.			Apples Apples Agricultural products not enumerated, vegetable.	implements	Brimstone Cement and water lime Clay, lime and sand	Cont.	Cotton: raw. Crockery and earthenware. Dye wood and dye stuffs	Fish. Flax and hemp Flax and hemp Furniture	Gypsum Glass, all kinds.	Hogs Horses Horses Horses	Index and skins, not us and notes	Trou, rainway do pig all other. Iron ore

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Lard and lard oil. Meal, all kinds.					:	:				
Meats other than pork			: :	: :				: :		
Manilla. Molasses.	2		::		: :	170		170	172	17 07
Nails Oats Oils, in barrels	633		<u>: : : : : : : : : : : : : : : : : : : </u>		•				633	21 15 3 60
Oil cake Pease Outoatoes	17						17.	196	196	6 56 0 74 0 0
Paint. Pitch and tar.		•				196		196	196	19 60
Ryes Rosin Salt Strain intended for mitting	216					2,304	216	2,407	2,407	230 42
do wrought do not suitable for cutting, unwrought Seeds, all kinds Sheep Sheep Soda ash	2 124					5962	67		596 124 70	59 60 0 07 0 4 39 4 67
Steel Sugar Spirits, beer, &c.						11,949		11,949	11,949	1,194 90
Lobacco, raw Tallow Turpentine Wheat								.	-	0 10
Whiting Wool Wool All other goods and merchandise not enumerated Bark	537 299	3,150				958	3,687	1,257	4,944	435 63
Barrels, empty. Boat knees Floats Firewood, in vessels do rafts.	29	83,218					88 : : : : : : : : : : : : : : : : : :	1,275	84,640	2,806 89
Hop poles Lumber, sawn, in vessels. Or rafts Masts anars and telegraph voles in vessels	4,162	60,233					64,395		64,395 370 227	3,801 37 22 20 10 69

No. (A) 8.—General Statement showing the Quantity of each Article transported on the Chambly Canal, &c.—Concluded.

Articles.	Fr Can Can Po	From Canadian to Canadian Ports.	Fr Cans t United Poi	From Canadian to United States Ports.	From United States to United States Ports.	om States States ts.	From United States to Canadian Ports.	om States o dian ts.	Tons.	887	Total Tons.	Amount of Tolls.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		!
Railway ties, in vessels.	686	19	767						1,756	19	1,775	\$ cts. 140 69 16 20
Saw-logs. Staves and headings, barrel. do do pipe.												
salt barrel	20								29			15 57
Timber, square, in vessels			104						104		104	5 20
Traverses Woodenware and wood partly manufactured.												
Total freight paying tolls	9,812	7,934	156,807					101,217	166,619	109,151	275,770	18,438 71
Coal, free per Order in Council	1,559	:	279	:	:				1,838	:	1,838	
Grand total freight	11,371	7,934	157,086					101,217	168,457 109,151	109,151	277,608	
				Total tolls on very do do do for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for formation for for formation for formation for formation for formation for formation for formation for formation for formation for formation for for formation for for formation for formation for formation for formation for formati	Total tolls on vessels do passengers do free goods Fines Fines Other receipts	vessels passengers free goods					\$183.80	2,621 08 89 86 5 00 42 83
* Amount of damages not included in above, \$10.00.	\$10.00.				•	Fotal reve	enue, exc	lusive of	Total revenue, exclusive of hydraulic rents.	rents		21,197 48
								6	TAT TYPE OF			

R. DEVLIN, Compiler of Canal Statistics.

No. 9 (A).—General Statement showing the Quantity of each Article transported on the Rideau Canal, and the Amount of Rosense Revenue collected during the Season of Navigation in 1894.

APPENDIX A-Continued.

Articles.	Fr. Cans Cans Pol	From Canadian to Canadian Ports.	Fr Cans t United Po	From Canadian to United States Ports.	Fr United United Po	From United States to United States Ports.	From United St. to Canadia Ports.	From United States to Canadian Ports.	Tons.	rg.	Total	Amount of Tolls.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		
Ashes, pot and pearl. Apples. Agricultural products not enumerated, vegetable. d do do animal										151 251 251 251 251 251 251 251 251 251	163 185 185 195 195 195	es 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Daties Baries Bones	135	1880							135		173	
Ermstone Cement and water lime Clay, lime and sand	617	9 9						14.08	617	17.426	626 107 17.426	15 10 2 59 799 08
Corn Cortile	10								.10 1.	270	i	
Cotton (raw)		2.74							42	`		8 15
Figh. Flax and hemp	115								115	:	121	67
Flour Furniture	85 80	283							88.	8 2	427 32	10 96 2 87
Glass (all kinds). Hay (pressed)		9							: 8 4	9	% 8	2 32 2 81
Horses Horses and skins, horns and hoofs									Φ 60			0 10
Iron, railway. do pig do all other,	: 88								108	823		8 02 24 16

No. (A) 9.—General Statement showing the Quantity of each Article transported on the Rideau Canal, &c.—Concluded.

	Fra	From Canadian to	From Canadian to	m dian	Fr United	From United States to	$\frac{Fr}{t}$	From United States to	Tons.			
Articles.	Canadia Ports.	Canadian Ports.	United States Ports.	States	United St. Ports.	United States Ports.	Cana Por	Canadian Ports.			Total Tons.	Amount of Tolls.
	Up.	Down.	Up.	Down.	Up.	Down.	$U_{\mathbf{p}}$	Down.	Up.	Down.		
												& cts.
From ore. Kryolite chemical ore and other ore, except iron		920							15	920	920	46 00
Meal, all kinds.									: 8	07		0
Meats, other than pork	⊋ 61 ∵								₹ ≈	7.7		00
Manilla			:	:	:	:	:	:	001	∞ c		°
Molasses. Nails	1771	N m	: :						1771	7 m		111
OatsOil (in homester)	100	9	:	:	:	:	:	:	20,5	9 9		0 5
Oil cake.	3										67	-
Реаве	81;	;	:						18	•	91	0
Fotavoes	252								252	14	56 <u>6</u>	9
Paint.	120	:	:	:	:	:	:	:	318	:	35	16
Page and car.		12		: :		:			3 :	12	12	- 1
Rye	9	4	:	:	:		:	:	9-	4		0 2 2 8
Salt	1,648	276					: : : : : :		1,648		1,924	25.
Stone intended for cutting			: : : :	:	:	:	:		_	30	o ⁻	:X
do not suitable for cutting, unwrought		563							: :	263	566	14 36
Seeds, all kindssheep	∞	C1		:		:	:	:	ж -	20	10	57 O
Soda ash		:							6	က	12	1 32
Steel	8		:	:		:	:	:::::::::::::::::::::::::::::::::::::::	8		2.037	- €
Spirits, beer, &c	289	38							2 89 2 89		124	##
Tobacco (raw)	-	:		:		:	-	:		:		:
Tallow		ū	:		:		:	:		ລ		21 S 0 &
Turpentine	3	: :							3 —		3-	10
Wheat	88	1,318	:	- :: ::			-: : :	:	83	1,318	1,346	36 61

4, 6, 6, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8,	ool I other goods and merchandise not enumerated.	Ī		<u>-</u>	:	<u>:</u>	<u>:</u> ::	<u>-</u> -	:::::::::::::::::::::::::::::::::::::::	1	3	•	40
14, 414 5, 871 18, 556 1,003 860 860 16 450 16 450 16 450 16 450 16 450 16 450 16 450 16 450 16 16 450 16 16 16 16 16 16 16 1	1	926	427	· es			::	· : :	9	926		1,362	129 37
896 860 87 860 8	els, empty.	<u>.</u> 88	16				· : :		: :	38	:	34	
20,385 450 20,885 450 20,885 450 20,885 450 20,885 89 20,885 450 20,885 89 20,885 450 20,885 20 30 30 30 30 30 30 30 30 30 30 30 30 30	t kneests						<u>: :</u> : :		: :	980		098	15 05
seels. 76 6 14 18,555 1,003	wood, in vessels	20,385	480	 : :	:	<u>:</u> :	<u>:</u> :	:	:	20,385		20,865	321
tssels	on sales												
14,414	poles	3 6	14				<u>:</u>	- : :	:	3 2		70	10 00
fts. 1,124 256 1,150 15 147 25 1,150 15 90 202 292 292 6 90 202 292 292 292 6 90 202 292 292 292 292 292 292 292 292 2	aber, sawn, in vessels.	14,414	5,871	18,555	1,003	:	<u>:</u> :	<u> </u>	:	32,979		30,843	2,049 81
tfs. 1,124 26 1,150 15 147 25 1,150 15 90 202 203 300 6 67 73 20 300 802 829 6 67 14,250 15,475 18,558 1,003	do raftsts. snars and telegraph noles, in vessels	782	25.7				<u>: '</u> : :	<u>:</u>			:	300	7 10
1,124 26	do do rafts	-								: :			:
147 25 172	way ties, in vessels	1,124	92			:	:	- <u>:</u> -:		1,124	93	1,150	136 01
11	do ratts			:	:	:	· : - :	<u>:</u> ::	:	1 17		621	66 8
1,097 15,475 18,558 1,003 15,475 18,558 1,003 15,475 18,558 1,003	es and headings, barrel	7.7	3				: : : :				3	1	
1,097 15,475 18,558 1,003 15,475 18,558 1,003 1,097 14,087 15,475 18,558 1,003 1,097	do pipedo West India					:	· :	:	:				
1,097 18,558 1,003 15,475 18,558 1,003 1,097 1	es, salt barrel						: : : : : :						
nured. 20 300 320 55 628 3 30 628 7 44,259 15,475 18,558 1,003 1,003	gles.	8 .4	<u> </u>		:	<u>:</u> : :	<u>:</u> :	<u></u> -	:	8.6	202 202 202	282	88 12 26 29
1,037 15,475 18,558 1,003 15,475 18,558 1,003 1,007 14,087 14,087 15,97 1,097	do do rafts	•	<u>-</u> -							:	:		
nured 628 3 628 7 628	ber, square, in vessels.			- <u>:</u> : :	:	:	:	-	:	:		006	
tcured 3 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	do rates	Rig	200	<u> </u>	:	<u>:</u> ::	· :	:	-	3 8	3	869	2 2
44,259 15,475 18,558 1,003	denware and wood partly manufactured	030	က							3 :	<u>က</u>	ल	
1,037	Total freight paying tolls	44,259	15,475	18,558	1,003				14,087	62,817	30,565	93,382	4,001 17
45,356 15,475 18,558 1,003	tree, per Order in Council	1,03/	:		:					1,03/		1,031	
1,707	Grand total freight	45,356	15,475	18,558	1,003			:	14,087	63,914	30,565	94,479	
ree coal. storage. stora					To	al tolls on v	ressela	¥					1,707 78
tal revenue exclusive of hydraulic rents					₽ €	do larfage and	ree coal storage.					\$ 29 27	
-					5	or received.							20 = 10
						2	tal reven	nue excl	usive of	hydrauli	c rents	:	6,294 81

R. DEVLIN, Compiler of Canal Statistics.

APPENDIX A.

No. (A) 10.—General Statement showing the Quantity of each Article transported on the St. Peter's Canal, and the Amount of Rovins of Navigation in 1894.

Amount of Tolls,] :1	2,637 14
Total Tons.		2, 522 2, 242 28, 859 6, 288 6, 288 10, 942 4, 626 55, 460	
Tons.	Down.	2,490 28,690 7,160 7,160 81 39,142	ne
	Up.	32 2,242 169 5,542 3,782 4,545 16,318	Total revenue
From United States to Canadian Ports.	Down.	2,24 16,24 16,54 3,78 4,54 4,54 16,311 16,311 *Damages	ů
Fr United t Cana Pon	Up.	Total *Dam	
From United States to United States Ports.	Down.		
Fr United to United Por	Up.		
om dian States ts.	Down.		
From Canadian to United States Ports.	Up.		
dian dian dian ts.	Down.	2,490 28,690 7,160 7,160 81 39,142	
· From Canadian to Canadian Ports.	Up.	32 2, 242 1, 242 169 3,782 4,545 16,318	
Articles.		Fish. Flour Coal. Lumber Coal.	

R. DEVLIN, Compiler of Canal Statistics.

* Amount of damages not included in above.....

3 8

No. (A) 11.—General Statement showing the Quantity of each Articles transported on the Trent Valley Canals, and the Amount of Revenue collected during the Season of Navigation in 1894.

	Fr		From Canadian		From United States	om States	Frc United	From United States	f			
Vesecls.	Cans Po	to Canadian Ports.	to United States Ports.		United Por	to United States Ports.	to Canadian Ports.	o dian ts.	Tons.	ns.	Total Tons.	Amount of Tolls.
	Up.	Down.	Up.		Up.	Down.	Up.	Down.	Up.	Down.		
												es cts.
Ashles, pot and pear! Apples Agricultural products not enumerated, vegetable												
do do animal												
Barley Bark wheat				:	:				:	:	:	
6Bucks.		16								16	16	0 32
Dones												
Clay lime and sand		:				:	:		:	:	:	
Coal				· ·								
Corn	:	:	:	:::::::::::::::::::::::::::::::::::::::	: : : : : : : : : : : : : : : : : : : :	:			:	:		
Cotton (raw)												
Crockery and earthenware		:	:			:	:	:	:	:		: : : : : : : : : : : : : : : : : : : :
Fish												
Flour				: :								
Furniture	9			:					9	:	9	0 18
Glass (all kinds)								: :				
Hogs	17								17		11.	0.41
Horses												
Iron, railway												
do pig	:		:	:		:	:	:	:	:	: : :	
מת מתו מתופנ		:		-	:	•	- - - - -	-				: : : : : : : : : : : : : : : : : : : :

No. (A) 11.—General Statement showing the Quantity of each Article transported on the Trent Valley Canal, &c.—Concluded.

Articles.	Can	From Canadian to Canadian	Fr Cans United	From Canadian to United States	Fr United United	From United States to United States	Fr United Can	From United States to Canadian	Te	Tons.	Total	Amount
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	· Colin	in to
												es cts.
Fron ore		· 60								<u></u>		60.0
				: :								
Meats, other than pork						:	:	:	:			
Manilla										: :		
Molasses									: ·			
Oats												: : : :
Oli (in barrels)	:					:	:	:	:	:		:
Ou carke												
Potatoes	. 1	:	:	:	:	:	:	: : :	: 10	:	10	-
Paint									-			•
Pitch and tar				:	:	:	:		:	:		•
Kags	:	:	:									
Rosin								:				
Salt.		:	:	:		:		:	: S		:5	0 28
do wrought,	3 :								: :	:		
do not suitable for cutting, unwrought.		:	: : : : :	:		:	:	:		:		:
Sheep.									· 80			0 18
Soda ash	: :	:	:	:		:		:	:	:		: :: ::
teel	: : : 			:	:	:						
Spirits, beer, &c.		-								T		0 03
Tobacco (raw)	: :		:	:	:::::::::::::::::::::::::::::::::::::::	:		:	:	:	: : :	
Tallow	:	:	:	:		:	:			<u>:</u>	•	
The state of the s	:	:		:	:	:	:	<u>:</u>	:	:		
Turpendine											: : : : : : : : :	• • • • • • • • • • • • • • • • • • • •

White lead Whiting									:::	: : : : : :		
All other goods and merchandise not enumerated. Bark Rerrels.	122									112 65 78 65	77	2 31 2 95
Boat knees Floats Firewood, in vessels. F. do rafts.	18,293	6,047 2,962 75							18,293	5 6,047 3 2,962 75	6,222 21,255 75	18 05 224 33 0 75
Hop poles Lumber, sawn, in vessels do rafts	1,513	357							1,513	3 357	1,870	48 41
Masts, spars, and telegraph poles, in vessels. Railway ties, in vessels. do rafts. Saw-logs. Staves and headings, barrel.	116 116 95 3,749	461 123 123							116 95 3,749	15 461 116 95 749 123	476 116 95 3,872 255	7 88 2 76 33 93 0 20
Staves, salt barrel. Shingles. Lyplit posts and fence rails, in vessels. d do do rafts.	120	4.82								6 22	12.2	10 43 1 25
Timber, square, in vessels. or rafts. Traverses. Woodenware and wood partly manufactured.		1,340								1,340	1,340	7 50 11 00 0 06
Total freight paying tolls	24,268	12,003							24,268	8 12,003	36,271	377 20
			Total Other	Total tolls on vessels. do passen Other receipts	vessels	ers.						485 64 146 39 102 50
					Total re	venue ex	clusive o	Total revenue exclusive of hydraulic rents	ic rents.			1,111 73

R. DEVLIN, Compiler of Canal Statistics.

DEPARTMENT OF RAILWAYS AND CANALS,
OTTAWA, 30th September, 1895.

APPENDIX A-Continued.

No. (A) 12.—General Statement showing the Quantity of each Article transported on the Murray Canal and the Amount of Revenue collected during the Season of Navigation in 1894.

. Articles.	From Canadian to Canadian Ports.	From Canadian to Canadian Ports.	From Canadian to United Stat	From Canadian to United States	From United St. to United St. Ports,	From United States to United States Ports.	Fron United S to Canadi Ports	From United States to Canadian Ports.	T ₀	Toas.	Total Tons.	Amount of Tolls.
	Up.	Down.	Up.	Доwп.	Up.	Down.	Up.	Down.	Up.	Down.		
				-								e cts.
Apples Agricultural products, not enumerated, vegetable	193	: : 3 -	287							: :	480 130	: : : : : : : :
CA Agricultural implements Barley Buckwheat	213 327	166 324 441		120					213 213 327	106 444 144 144	169 169 768 768	
Bones Brimstone	FT :		1	•					1 0			0 :
Cement and water lime	430		70	: :		: :			700 ::	. :	700	10 39
Coal. Corn. Catter raw								130	: :	130	130	2 44 0 05 0 04
Crocken, and earthenware Dye wood and dye stuffs Fish	39	C)	8						4.4	Ç1	76	1 91 0 10
Flax and hemp. Flour Furniture	148	225 45						6		225	528 202	4 30 5 23
Glass, all kinds Hay, pressed	:8 : :	18	· F-1					-	19	61		2 02
Hogs Horses Hides and skins, horns and hoofs foe	17	64	250					: F	19	49		0 52 0 95 6 25
Iron, railway.	80					-			8		x	0

	. 103		.: 82 138	::	::				193	·	193	3 62 5 46
do ore. Kryolite chemical ore and other ore, except iron			:	:		:	:	:	:	:	:	
Lard and lard oil.		₹								4	:	0
Meal, all kinds	:	.: G	:	:	_ <u>:</u> : :	:	:	:	:	6		0
Meats, other than pork	:	: 33°	:	:	<u>:</u> :	:	:	:	:::::	8 7		0 23
Manilla	· c	N N	<u>:</u> :	<u>:</u>	<u>:</u> :	:	:	:	:			•
Molassa	÷	<u>:</u> :,	<u>:</u> :	<u>:</u>	:	:	:	:	N 4	:		
Nails		: -6-	<u>:</u>	<u>:</u>	<u>:</u> :	:		:	766	:		7
Oats		9										-0
Oil, in barrels.	8	166							36			9
Oil cake										:	:	
Pease	22	1,433	22	:	:	:			127			83
Potatoes	<u>∾</u>	5	:		:	:	:					0 16
Pork	-	4	:	-		:		:	: : :-			0
Paint	14	<u>2</u>	- - :	- <u>:</u>	:	:	:	:				0
Pitch and tar	œ	87	-:	-	•		:	:	œ			0
Rags	18	14				:		-				2
Rye	202		-	-						:		er:
Rosin	-	: - :	<u>-</u>	• : :	_	:	:	:		:)
# 60	9	: : :	<u>:</u> :	<u>:</u> :	<u>:</u> : :	:	:	_	:	:	:	20.05
Stone intended for outting		: :	<u>:</u> :	<u>:</u> :	<u>:</u> : :	:	:	2				•
do umonosht	<u>:</u> -	<u>:</u> :	: :	<u>:</u> : :	<u>:</u> ::	:	:	:	:	:	:	
Constant and the features of the contract of t		<u>.</u>	:	<u>:</u> :	: :	:	:	:	:	:	:	:
۵	200,1	:	:	<u>:</u> :::::::::::::::::::::::::::::::::::	:	:		:		:		
Deeds, 811 Killds	14	3	· :	:		:	•	:				
Sheep	<u> </u>	:	<u>:</u> ::		:	:	:	:	:	:	:	:
Soda ash	 87	::	:		:	:	:	:	<u>ଞ୍</u>	•		0 51
Steel		:	46		-			:	- 49	:		
Sugar	1,153	8	œ	-	-				1.161			
Spirits, beer &c.	=	910		-					-			
Tobacco raw	: :	: :	<u>:</u>	<u>:</u> : :	:	:	:	:	!			
Tallow	: : : : : : : : : : : : : : : : : : : :	: :	<u>:</u> :	:	<u>:</u> :	:	:	:	:	:	:	
True True	1	: : :	:	<u>:</u>	-	:	:	:	-	:	:	:
THE	: 207	:	:	:	:	:	•	:	99' -	:		.7
Turpentine	N .	4,	:	:	-	:		:				•
Wheat	28	611	-:	-				-	- 8			13
Whitelead	01	4		_				_	_			•
Whiting	-	:	<u>.</u>	<u>. </u>	:	:	:	: : :				•
Wool	: -	<u>:</u> :	: :	<u>:</u> : :	<u>:</u> ::	:	:	:	36	:		8 6
A 11 a 41		::	3 2	: ::	:	:		:	3	:		> ;
An other goods and merchandise not enumerated.	. 1,400	931	3			:	::::::		1,495			19
Bark	:::::::::::::::::::::::::::::::::::::::	:	:			:	:	:	:	:	:	
Barrels, empty					-					:		
Boat knees.		_							_			
Floate	<u>. </u>	:	: :	<u>:</u> : :	<u>. </u>	:		:	:	:	:	
Discussed in wastelle	: 6	:		- : :	<u>:</u> :	:	:	:	100		202	60 0
Trice wood, III vessols,	204	· :	: 010	<u>:</u> ::	::::	:	:	:	5	:	26	800
Talus	<u> </u>	:::	<u>:</u> ::	<u>:</u> ::		:	:	:::::	•	:		
Hoops and a second seco		:	· :	:		:	:	:	:::::::::::::::::::::::::::::::::::::::	:		
Hop poles.	-		-	-					-			
		•			•				-			

No. (A) 12.—General Statement showing the Quantity of each Article transported on the Murray Canal, &c.—Concluded.

Articles.	From Canadian to Canadian Ports.		Fr Cans t United	From Ganadian to United States Ports.	Fr United United	From United States to United States Ports.	Fr United Can Po	From United States to Canadian Ports.	Tons.	ns.	Total Tons.	Amount of Tolls.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		
Lumber, sawn, in vessels	254	51	65						319	51	370	4 56
Masts, spars and telegraph poles, in vessels Reflect ties in vessels												
Saw-logs.												
Stores and neadings, parter powers and pipe West India												
Shingles Shilt rests and fence rells in vessels			S :				: :		3		3	
Timber amare in vessels												
do rafts.		7,140								7,140	7,140	89 25
Woodenware and wood partly manufactured												0 10
Total freight paying tolls	8,086	12,098	1,327	120				257	9,413	12,475	21,888	381 99
				Ě	o al tolls do	To al tolls on vessels.	vessels					236 71 137 50
						Total re	e enue	Total revenue exclusive of hydraulic rents	f hydrau	lic rents	:	756 20

R. DEVLIN, Compiler of Canal Statistics.

> DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th September, 1895.

STATEMENT OF TRAFFIC

APPENDIX A-

No. (A) 13.—Statement of Traffic on the undermentioned Canals, and

A (1)	Welland	Canal.	St. Lawren	ce Canals.	Chambly	Canal.
Articles.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
Class No. 1.		\$ cts.		\$ cts.		\$ cts.
Canadian vessels, steam	431,080 132,955 554,651 134,259	3,962 71 2,780 79 8,308 87 2,965 93	920,558	4,027 81 192 43 10,819 59 1,044 51	60,502 1,270 36,005 151,579	196 43 16 16 513 20 1,895 29
Total, class No. 1	1,252,945	18,018 30	1,697,237	16,084 34	249,356	2,621 08
Class No. 2.						
Passengers	No. 30,224	380 08	No. 57,736	2,709 45	No. 5,612	89 86
Class No. 3.	Tons.		Tons.		Tons.	'
Bricks	602	115 27	8,810	377 37	1,080	106 40
Brimstone Cement and water lime	1,225	106 37	767 8,021	74 91 1,019 14		16 30
Clay, lime and sand	75	3 75	29,297	1,286 69	5,664	644 22
Fish	275	41 48	764 2,191	95 71 42 08		
Iron, railwaydo pig		475 58	214 941	21 53 106 21		97 00
do all other	690	102 19	17,786	1,008 41	1,211	121 10
Steel	159	29 20	1,446 4,719	210 74 516 23		52 22
Stone, for cutting			96			
ApplesBarley	276 28,353	26 03 2,835 30		420 56 11 28		106 09 2 28
Buckwheat			2,885	118 02		
Corn. Cotton, raw	169,233	16,923 30 0 1		206 33	3	
Flax and hemp	12	0.30	0			••••
Flour Hay, pressed.		6,689 9	6,632 987			19 09 940 77
Meals, all kinds	60,395		1,013	65 44	l	
Oil cake		5 8 2,800 7				21 1
Pease		1	. 26,514	1,375 21	196	6 50
Potatoes. Rye		0 3 85 0				0 7
Seeds, all kinds	· [4,526	182 52	2 2	0 07
Tobacco, raw	270,993	0 1 27,005 4		0 40 497 09		
All other agricultural products, vegetable	567	25 0	570	83 51	190	6 30
Bones		0 0	. 83 4 268			23 2
Hogs			. 41	4 4	ւ¦	
Hides and skins, horns and hoofs Horses	. 88 36		o ≥or			0.1
Lard and lard oil		\	334	30 09	2	213
Meats, other than pork Pork	779	155 5	0 26			0 0
Sheep	. [.\ 171	13 9	8 124	
Tallow				0 9	5	
All other agricultural products, animal	1,70	201 0	2,626	374 2	4 101	10 1
Total, class No. 3	600,080	69,857 8	4 140,233	8,967 3	26,855	2,185 1

Continued.

the Amount of Tolls collected during the Season of Navigation in 1894.

Murray	Canal.	Ottawa	Canals.	Rideau	Canal.		St. Peter	's Canal.	Trent Can	Valley als.
Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	- -	Tons.	Tolls.	Tons.	Tolls.
	\$ cts.		\$ cts.		\$ cts	3.		\$ cts.		\$ cts.
180,624	196 16	136,420	564 30	107,414	750 5	8	31,653	633 06	44,536	334 39
393	2 25	90	0 60	62,424	776 9	8	63,311	1,266 22		
7,968 159	35 05 3 25	155,416 13,345	$2,147 42 \\ 312 83$	637 8,768	16 2 163 9		$4,941 \\ 4,222$	98 82 84 44	39,072	151 25
189,144	236 71	305,271	3,025 15	179,243		- -	104,127	2,082 54	83,608	485 64
						- -				
No. 11,471	137 50	No. 13,914	155 78	No. 5,544	127 4	4.	No.		No. 17,623	146 39
Tons.	0 83	Tons.		Tons. 173	7 5	66.	Tons.		Tons.	32
			0.00		15 1	٠				
552	10 39	6,011	0 22 171 46	626 107	2 5	i9 .				
• • • • • • •			• • • • • • • • • • • • • • • • • • • •	121	2 9	-1	2,522] 	• • • • • • • • • • • • • • • • • • • •
8	0 15	12	0 70				· • · · · · • • • • • • • • • • • • • •			
193 288	3 62 5 46	13	1 29	266 863						- · · · · • • •
49	0 92			70	1 6	37 .				{
209	3 95	······································	0 10	1,924	50 7		<i>.</i>		60	28
480	9 09	77	4 64	163	3 9	96	·			
657 768	12 45 14 43	$\begin{array}{c} 2 \\ 7 \end{array}$	0 12 0 69	11	0 2	29				
3	0 05			80						
					0 ()5				
228	4 30	27 3,311	1 62 330 05		10 9	96 31	2,242	22 42		
9	0 17	7	0 69	2	0.0)6 ;				
	0 12	428	28 44	11		1				
1,560	29 32	335	21 67	19	0 4	45				
8 20 5	0 16 3 86	$\begin{array}{c} 102 \\ 22 \end{array}$	6 96 2 15							
47	0 90	27	2 64							
698	13 12	• • • • • • • • •		1,346	36 (ĥi				
130	2 50	14		13	0 3	34				
$\frac{1}{2}$	0 02 0 04	9 432								
		43	3 18						17	1
49 26		6 124				10 19				
4	0 08	6		57	1	36				
28 4	0 53 0 08	11	0 66	31 266					ξ	0 15
• • • • • • • • • • •		372	29 96		1				1 8	
13	0 24	108	6 83	5 1	0	12 03			1	
1		1,250	115 69	185	6	52			.	
6,270	118 27	12,761	770 52	6,941	188	00	4,764	47 6	100	1 34

No. (A) 13.—STATEMENT of Traffic on the undermentioned

	Welland	Canal.	St. Lawrence	ce Canals.	Chambly	Canal.
Articles.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
Class No. 4.		\$ cts.		\$ ets.		\$ cts.
Ashes, pot and pearl	13	2 60	60	10 50		
Agricultural implements	23	0.70	204	35 19		• • • • • • • • •
crockery and earthenware	3	0 45	289	51 76	.4	0 4
Oye woods and dye stuffs	9 17	$\begin{array}{c} 1 \ 65 \\ 2 \ 78 \end{array}$	188 1.126	17 70 171 97	$\begin{array}{c} 11 \\ 23 \end{array}$	1 1 1 8
Hass, all kinds	2	0 30	629	115 62	20	
Larble	847	127 05	1	0 19		
Ianilla	89	13 35		10 06		
Molasses	$\begin{array}{c} 82 \\ 127 \end{array}$	12 30 17 33		81 82 384 90	172	17 0
Dil, in barrels	128	19 64	817	124 45	37	3 6
Paint	13	1 56	510	55 70		
Pitch and tar	113	16 95	519	68 35	196	19 6
Rags		• • • • • • • • • • • • • • • • • • • •	336 2,234	. 58 40 115 54	2,407	230 4
Soda ash	35	5 55	489	88 36	70	4 6
Sugar	1,615	203 92	16,371	1,836 11	11,949	1,194 9
Stone, wrought		· • • • • • • • • • • • • • • • • • • •	874	43 70		
Cin		0 15	734 46	138 89 2 94		0 1
White lead			57	10 77		
Whiting	32	0 72	247	48 37		
Whisky and all other spirits	45	6 75		. 141 42		
Merchandise, not enumerated	44,535	6,650 02	11,758	1,750 64	4,944	435 6
Total, class No. 4	47,728	7,083 77	41,882	5,363 35	19,814	1,909 3
Class No. 5.						
Bark	39	6 50	449	45 92	29	9
			7,824	136 92		
Firewood, in vesselsdo rafts		313 09	10,566	245 71	84,640	2,806 8
Lumber, sawn, in vessels	88,546	15,831 89	41,111	1,526 83		
do rafts		 .		7 51	370	22
Hoops		9 63	727	11 26	1,775	140
Masts, spars and telegraph poles, in ves-			76	1 90	227	10
Masts, spars and telegraph poles, in			18,828	470 70	162	16
raftsSquare, timber, in vesselsdo rafts	47,047 124	7,052 99 3 49	1,208	36 30 184 60	104	
Woodenware and wood partly manufac- tured	100	40 00) 40	15 60)	
Split posts and fence rails in vessels	23	10 35 78		3 10	59	15
do do rafts	3,648	169 17	17,400	397 62		
	382		5			
Saw-logs						
Saw-logsStaves and headings, barreldo do pipe						
Saw-logs				• • • • • • • • • • • • • • • • • • • •		
Saw-logs						
Saw-logsStaves and headings, barreldo do pipedo do West India			8,816			

Canals, and the Amount of Tolls collected, &c.—Continued.

Murray	Canal.	Ottawa	Canals.	Rideau	Canal.	St. Peter	's Canal.		Valley als.
Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
	\$ cts.		\$ cts.		\$ cts.		\$ cts.		\$ cts.
169 76	4 24 1 91	6 8 2	1 14 1 43 0 38	5 69 89	0 88 7 75 8 15	10,942	109 42		•••••
202 80 2	0 10 5 23 2 02 0 05	16 4	1 99 0 76	32 26 3	2 87 2 32 0 36		• • • • • • • • • • • • • • • • • • • •	6	18
2 6 306	0 05 0 20 7 68	1	0 19 0 19	8 130 180	0 70 11 38 17 41				
246 38 10 95	6 17 0 96 0 26 2 38	2	0 29 2 48	208 15 32 12	19 29 1 34 2 81 1 78		• • • • • • • • • • • • • • • • • • • •		
20 1,181	0 51 29 71	58 4 1	8 12 0 76 0 19	1 12 469	0 09 1 32 42 43				
105 6 14	2 64 0 15 0 35			23 1 23	2 06 0 18 2 05				
15 221 2,426	0 38 5 54 61 55	321	0 19 52 48	27 124 1,362	2 45 11 10 129 37		46 26	1 77	0 03 2 31
5,224	132 08		70 59	2,851	268 09	15,568	155 68	84	2 52
	• • • • • • • • • • • • • • • • • • • •	63	7 13	60 42				78	2 95
795	6 63	54,990 33,787		860 20,865	15 05 351 65			21,255	18 05 224 3
370	4 56	400,338 188 23	3 36		2,049 81	6,269	62 69	1,870	
• • • • • • • •				1,150				116 95	
	•••••	3	1	300	7 16			476	7 80
7,140	89 25	2,800	29 44					500	_
2 55	5 89	630 1	1	3 292 73	29 68 12 24 92	2		124 28	10 43
		4,207	88 42	172	3 92	3		3,872 25	33 9
• • • • • • • • • •		240	60	628 70	7 80 10 00			1,340	11 0
8,362	106 43	497,271			2,684 71		62 69	36,078	373 2

No. (A) 13.—Statement of Traffic on the undermentioned

Articles.	Welland	d Canal.	St. Lawren	ce Canals.	Chambly	y Canal.
Articles.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
Special Class.		\$ cts.		\$ cts.		\$ ets.
Coal	203,737	40,789 93	190,636	26,750 77	76,744	7,464 83
Iron ore Stone, unwrought, not suitable for cut- ting. Ice	969 200	85 33 10 00		23 55	596	59 60
Total, Special Class	204,906	40,885 26	191,815	26,774 32	77,340	7,524 43
Total freight and tolls Timber and other wood, free Wheat, corn, flour, iron, salt, coal, etc.,	998,782	159,694 19	488,689 1,682			21,149 65
etc., free	9,439	1,455 85	396,407	37,502 23	1,838	183 80
Grand Totals, passengers and tonnage of vessels not included	1,008,221	161,150 04	886,778	100,640 56	277,608	21,333 45

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th September, 1895.

Canals, and the Amount of Tolls collected, &c.—Concluded.

Murray	Canal.	Ottawa	Canals.	Rideau	Canal.	St. Peter	r's Canal.		Valley nals.
Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
	\$ cts.		\$ cts.		\$ cts.		\$ cts.		\$ cts.
130	2 44			17,426 920	799 08 46 00	28,859		3	0 09
1,652 250	16 52 6 25			566	14 36				
2,032	25 21			18,912	859 44	28,859	288 59	3	0 09
21,888	756 20	510,471 51,539			5,836 39	55,460	2,637 14	36,271	1,009 23
• • • • • • • • • • • • • • • • • • • •				1,097	29 27				
21,888	756 20	562,010	34,660 26	94,479	5,865 66	55,460	2,637 14	36,271	1,009 23

R. DEVLIN,
Compiler of Canal Statistics.

APPENDIX

No. (A) 14.—Summary Statement of Traffic on the undermentioned Canals during of each description of property passed through

A 11.7	Welland	l Canal.	St. Lawren	nce Canals.	Chambly	Canal.
Articles.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
		\$ cts.		\$ cts.		cts.
Vessels of all kinds	1,252,945	18,018 30	1,697,237	16,084 34	9,356	2,621 08
Passengers	No. 30,224	380 08	No. 57,736	2,709 45	No. 5,612	89 86
Forest, Produce of Wood.	Tons.		Tons.		Tons.	-
Bark Boat knees Floats.			7,824	136 92		• • • • • • • • • • • • • • • • • • • •
do Free Firewood. Hoops and hop poles. Free	5,997	313 09	10,566	245 71	84,640	2,806 89
Lumber, sawed	88,546	15,831 89	41,277 1,016	1,534 34	64,765	3,823 57
Masts, spars, &c	158 3,648	9 63 169 17	17,400	472 60 11 26 397 62		26 89 140 69
do Free Staves, all kinds. Shingles. Split posts and rails.	382 23 4	31 05 10 35 0 78	12	3 10	59	15 57
Timber, square Free	47,171	7,056 48		220 90	104	5 20
Traverses		•••••••	8,816	22 68		
Total	145,929	23,422 44	115,946	3,045 13	151,732	6,818 81
Farm Stock.						
Cattle	36		41	19 41 4 41 32 24		3 98 2 18
do Free Sheep. Free	,		1 171	13 98	ļ 	4 39
Total	39	2 46	1,004	70 04	284	10 50
Produce of Animals.						
Bones Horns and hoofs, hides and skins, raw. Lard and lard oil.	88	13 20	83 24 334 25	10 43 2 35 30 02	10	23 20 1 00
Meats other than pork	779	155 50	265	3 21 28 39	1	0 04
do Free Tallow Wool	259 1,489	38 85 297 55		0 95		
Agricultural products not enumerated, animal	•••••	•••••	2,626	374 24	101	10 10
Total	2,622	505 10	4,098	449 59	344	34 34

A-Continued.

the Season of Navigation ended 31st December, 1894, showing the Total Quantity and the Amount of Tolls collected thereon.

Valley ials.	Trent Can	's Canal.	St. Peter	Canal.	Rideau	Canals.	Ottawa	Canal.	Murray
Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.
\$ cts		\$ cts.		\$ cts.		\$ cts.		\$ cts.	
485	83,608	2,082 54	104,127	1,707 78	179,243	3,025 15	305,271	236 71	189,144
146 39	No. 17,623		No.	127 44	No. 5,544	155 78	No. 13,914	137 50	No. 11,471
2 95	Tons. 78		Tons.	1 43	Tons.		Tons.		Tons.
18 05	6,222			15 05	860	458 41	54,990		
225 08	21,330			351 65	20,865	1,230 29	34,900 33,787	6 63	795
	1,870	62 69	6,269	10 00 2,049 81	70 39,843	2 07 28,024 59	23 400,526 621	4 56	370
	476			7 16 136 01	300 1,150	0 29	4		
	3,872				172	88 42	4,207		
	25						11,678		
1 2	124 28 500			24 92	292 73 320	178 40 1 10 29 44	630 1 2,800	5 89 89 25	55 7,140
	1,340			7 80	628	0 60	4,300 240		
							40		• • • • • • • • • • • • • • • • • • • •
373 19	36,076	62 69	6,269	2,681 85	64,633	30,013 61	548,747	106 33	8,360
0 4	17				• • • • • • • • • • • • • • • • • • • •	31 96 3 18 5 70	432 40 124	0 04 0 52	2 26
0 1	8					29 96	372		
	ļ								
0 5	25			0 25	9	70 80	971	0 56	28
				0 10 1 36	3	0 74 0 60 0 52	9 6 6	0 08	1 49 4 28
0 1	5			6 37	266	0 66	11	0 08	4
	ļ				l		108		
:					i		106	0 24	13
.		<i></i>		6 52	185	115 69	1,250	0 02	1
-\	l	·		· ———	556	125 04	1,390	1 92	100

APPENDIX

No. (A) 14.—Summary Statement of Traffic on the undermentioned Canals

	Welland	l Canal.	St. Lawrer	nce Canals.	Chambly	y Canal.
Articles.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
Agricultural Products.		\$ cts.		\$ cts.		\$ cts
Agricultural products not enumerated, vegetable	567	25 05	570	83 51	190	6 3
do do Free	5 27 6	26 03	3,056	420 56	1,108	106 09
do Free Barley	28,353	2,835 30	50 267	11 28	68	2 2
doFree Buckwheat	i	Λ 15	258 2,885			
Cotton, raw	169,233	0 15 16,923 30	4,963 60,661			
Clax and hemp	12 33,628	0 30 6,689 91	6,632	540 22	567	
doFree Hay, pressed			16,503 987	59 92		
Meals, all kinds	60,395 15	12,078 95	1,013 4	65 44		
ManillaFree		13 35	51	10 06		
do Free		2,800 71	1,917 175	62 11		<i></i>
Potatoes	2 567	0 30	26,514 102 673	1,375 21 10 87 50 50	196 17	0 7
Beeds, flax, clover and grass do doFree	33		4,526	182 52	2	0 0
Tobacco, raw	270,993	0 15 27,005 47	6,683	0 40		
doFree		40.404.00				
Total		68,484 02	351,050	3,694 04	16,473	1,103 1
Manufactures.				:		
Ashes, pot and pearl			19			
Agricultural implements	23 39 602	0 70 6 50 115 27	204 449 8,810	35 19 45 92 377 37	29 1,080	0 9 106 4
do Free Cement and water lime	1,225	106 37	8,021	1,019 14	163	
do doFree Prockery and earthenware	2,281 3	 0 45	289	51 76	4	0 4
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	107 17	2 78	1,126	171 97	23	1 8
do Free Flass, all kinds	2 175	0 30	629	115 62		
ron, railway ron, pig.	2,382	475 55	214 941	21 53 106 21	970	97 0
doFree ron, all other	20 690	102 19	195 17,786	1,008 41	1,211	121 1
$egin{array}{cccccccc} ext{do} & & & & ext{Free} \ ext{do} & & & & ext{Free} \ \end{array}$	114 82 42	12 30	688	81 82	172	17 0
NailsFree	127 500	17 33	2,863	384 90		
Dil	128	19 64	817	124 45	37	3 6

A—Continued.

during the Season of Navigation ended 31st December, 1894, &c.—Continued.

Murray	Canal.	Ottawa	Canals.	Rideau	Canal.	St. Peter	e's Canal.	Trent Car	Valley ials.
Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
	\$ cts.		\$ cts.		\$ cts.		\$ cts.	•	\$ cts.
130	2 50	14	1 24	13	0 34	10,942	109 42	 	
480	9 09	77	4 64	163	3 96				
657	12 45	\vdots	0 12	11	0 29				
768	14 43	7	0 69						
				2 80	$\begin{array}{c} 0 & 05 \\ 3 & 17 \end{array}$				
3	0 05								
228	4 30	27	1 62	427	10 96	2,242	22 42		
		3,311	330 05	100	2 81				
9	0 17	3,311	0 69	2	0 06				
······2	0 05			8	0 70				
	0 12	428	28 44	ii	0 28				
	. . .								
1,560 8	29 32 0 16	335 102	21 67 6 96	19 21	0 45 0 61				
205 47	3 86 0 90	22 27	2 15 2 64	10 10	0 24 0 24				
***					. ,				
698	13 12			1,346	36 61				
	· · · · · · · · · · ·								
4,801	90 52	4,359	400 91	2,223	60 77	13,184	131 84		
		6	1 14	5	0 88				
169	4 24	8	1 43	69	7 75				
44	0 83	63	7 13	42 173	2 57 7 56	• • • • • • • • • • • • • • • • • • •		16	0.3
	10 39	4	0 22	626	 15 10				
552		[0 38	89	8 15				
76	1 91	2		. .					
202	5 23	16	1 99	32	2 87			6	0 1
80	2 02	4	0 76	26	2 32	·····	.		
8	0 15	12	0 70						
193	3 62] []]		266	8 02				
288	5 46	13	1 29	863	24 16				
6	0 20	1	0 1 9	130	11 38				
306	7 68	1	0 19	180	17 41				
246	6 17		0 29	208	19 29				
240		l		385			1	l	

No. (A) 14.—Summary Statement of Traffic on the undermentioned Canals

	Welland	Canal.	St. Lawrence	e Canals.	Chambly	Canal.
Articles.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
Manufactures—Concluded.		8 ets.		\$ cts.		S ets.
Oil cake Free	29	580	6 29	0 48		
Paint	13	1 56	510	55 70		
do Free Pitch and tar Go Free	8 113 152	16 95	·	68 35	196	19 60
Rosin Soda ash do	35 94	5 55	2,234 489	115 54 88 36	$2,407 \\ 70$	230 42 4 67
Spirits, whiskey, &cFree	44 53	6 75	791 1,446	141 42 210 74		
Steel	248 /1,615	203 92		1,836 11	11,949	1,194 90
do Free Fin do Free	2,724		734	138 89		
TurpentineWhite lead	1	0 15	57	$\begin{array}{c} 2 & 94 \\ 10 & 77 \end{array}$	1	0 10
$egin{array}{cccc} \operatorname{do} & & & \operatorname{Free} \ \operatorname{Whiting} & & & & & \ \operatorname{do} & & & \operatorname{Free} \ \end{array}$	32	0 72		48 37		
Woodenware	100	40 00		15 60		
Total	14,172	1,143 38	66,655	6,288 06	18,312	1,814 30
Merchandise.						
Brimstone, crude			767	74 91		
doFree Clay, lime and sand doFree	$\begin{array}{c} 75 \\ 253 \end{array}$			1,286 69		
Coal	203,737		. 104,240	26,750 77	1,838	7,464 8
Fish	275 512	41 4	764	95 71		
GypsumOres, all kinds			2,191	42 08		
do Free Marble Rags	847		5 1 . 336	0 19 58 40		
Salt	159 843 969		3 2,149	516 25 71 46		
do	44,735	6,660 0		1,750 64	4,944	435 6
do doFree	253,316	i		30,664 78	90,463	8,657 6
Grand totals, passengers and tonnage of vessels not included						

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th September, 1895.

during the Season of Navigation ended 31st December, 1894, &c.—Concluded.

Murray	Canal.	Ottawa	Canals.	Rideau	Canal.	St. Peter	's Canal.	Trent Can	Valley als.
Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.	Tons.	Tolls.
	\$ cts.		\$ cts.		\$ ets.		\$ ets.		\$ cts.
				2	0 05	· · · · · · · · · · · · · · · · · · ·			
38	0 96			15	1 34				
10	0 26			32	2 81		• • • • • • • • • • • • • • • • • • • •		
		58	0 10		0 09				
20	0 51	4	8 12 0 76	$\begin{array}{c} 1 \\ 12 \end{array}$	1 32				
221	5 54	·······i	0 19	124	11 10	•• ••••			0 03
49	0 92			70	1 67				
1,181	29 71	1	0 19	469	42 43				
105	2 64			23	2 06				
6	0 15			1	0 18				
14	0 35			23	2 05	• • • • • • • • • • • • • • • • • • • •			
15	0 38			27	2 45				· · · · · · · · ·
	0 10			3	0 29				0 06
3,831	89 42	196	24 97	3,511	195 30			25	0 59
.						,			
		6,011	171 46	107	2 59				
	0.44								
130	2 44			$17,426 \ 1,097$	799 08	28,859	288 59		
4	0 10		• • • • • • • • • • •	121	2 94	2,522	95.00		
						2,022	20 22		
	• • • • • • • • •	,				,		3	0 09
	0.05			920	46 00				
$\begin{array}{c} 2\\95 \end{array}$	$\begin{array}{c}0~05\\2~38\end{array}$	14	2 48	3 12	$\begin{array}{c} 0 & 36 \\ 1 & 78 \end{array}$				
209	3 95			1,924	50 76				
1,652	16 52	1	0 10	575	14 59			60	0 28
2,676	67 80	321	52 48	1,362	129 37	4,626	46 26	77	2 31
•••••									
4,768	93 24	6,347	226 52	23,547	1,047 47	36,007	360 07	140	2 68
21,888	756 20	562,010	34,042 78	94,479	5,836 39	55,460	2,637 14	36,271	1,009 23

R. DEVLIN,
Compiler of Canal Statistics.

APPENDIX A-Continued.

No. (A) 15.—Statement showing the Amount of Tolls accrued each month during the Season of Navigation ended 31st December, 1894.

Canals and Offices.	January	March.	April.	May.	June.	July.	August.	September	October.	November December.	December.	Total Tolls.
WELLAND CANAI.	e cts.	ee cts.	es cts.	& cts.	cts.	& cts.	es cts.	es cts.	es cts.	& cts.	e cts.	e cts.
Chippawa Colborne Dalhousie Dunnville Maitland Scholinson ØSt. Catharines			7,240 59 3,700 84 48 19 134 89	18,142 22 9,308 65 67 36 0 43 111 97 137 73	14,188 73 8,467 29 45 68 5 67 52 27	2 89 13,216 34 6,429 55 37 65 5 81 26 16 75 14	3 14,918 72 6,690 17 43 89 23 67 86 76	2 55 12,565 62 5,900 71 110 13 3 36 2 24 61 11	4 42 12,785 81 8,652 06 42 82 0 75 19 23 46 52	5 25 9,520 33 4,206 12 77 78 1 10 8 13 24 83	2,116 56 249 50	21 22 104,634 92 53,649 89 425 31 17 12 263 40 622 33
Total Welland Canal		1:	11,124 51	27,769 61	22,785 22	19,793 54	21,766 35	18,645 67	21,551 61	13,843 54	2,414 14	159,694 19
St. Lawrence Canals.												
Beauharnois Cardinal Cornwall Kingston Lachine Montreal			100 86 33 20 328 57 224 74 39 80 508 75	55 32 221 25 5,043 91 1,024 95 318 42 3,198 88	67 85 67 45 5,323 73 682 24 381 42 3,712 75	83 61 37 35 5,260 84 1,549 90 304 98 3,894 79	141 41 72 93 3,972 24 572 06 874 10 3,559 43	286 60 115 15 2,830 37 516 38 672 16 2,759 82	503 11 100 38 3,891 61 925 38 2,48 11 2,734 73	127 52 99 10 1,531 85 1,020 31 196 75 2,328 66	56 80 374 41	1,366 28 803 61 28,557 53 6,515 96 3,035 74 22,726 31
Total St. Lawrence Canals			1,235 92	9,862 73	10,235 44	11,131 47	9,192 17	7,180 48	8,403 32	5,304 19	459 71	63,005 43
Chambly Canal St. Johns St. Ours			21 67	639 31 2,588 30 81 18	1,473 01 1,862 80 80 02	1,361 92 2,496 40 107 75	1,286 56 1,276 18 58 48	1,635 11 937 79 65 41	1,844 09 1,840 40 94 82	769 53 533 29 95 63		9,009 53 11,535 16 604 96
Total Chambly Canal			21 67	3,308 79	3,415 83	3,966 07	2,621 22	2,638 31	3,779 31	1,398 45		21,149 65

	19,144 99 165 77 13,524 14 1,207 88	34,042 78	1,615 03 3,595 88 625 48	5,836 39	182 70 2,637 14	498 44 114 93 79 60 32 65 21 29 262 32	1,009 23	756	3,056 80 288,131 01
•	1,173 08 11 08 1,111 32 73 54	2,369 02	43 19 403 96 56 71	503 86	372 22	0 0 25 9 89 89	13 29	86 70	23,891 27
	2,919 03 7 37 1,895 44 113 60	4,935 44	193 00 269 08 92 32	554 40	401 43	44.2.72 x x x 2.00 x 3.	104 88	102 25	39,832 64
	2,657 78 9 82 1,622 02 176 05	4,465 67	243 85 533 45 87 40	864 70	382 21	84 60 63 85 10 05 9 00 47 03	218 43	86 43	34,481 90
	3,110 27 6 21 1,859 42 247 62	5,223 52	350 91 739 34 117 95	1,208 20	378 19	107 19 17 51 14 00 7 05 6 95 56 32	209 02	120 90	40,719 57
-	2,595 17 108 00 2,299 26 250 67	5,253 10	239 50 494 33 110 81	844 64	353 15	99 47 14 36 6 70 6 75 8 6 75 59 68	189 98	141 45	41,673 40
	3,239 43 14 60 1,976 24 166 89	5,397 16	275 31 556 49 85 70	917 50	338 04	106 23 4 36 13 02 1 100 1 177 4 44 90	171 28	120 57	43,381 04
	3,417 61 8 69 2,611 21 160 78	6,198 29	269 27 599 23 74 59	943 09	211 57	52 65 12 96 7 64 5 00	90 82	62 58	48,447 48
-	32 62 149 23 18 73	200 58			1 8	3 85 50 7 13	11 53	35 07	12,631 08
					1 50				1 50
					14 33				14 33
OPTAWA CANALS.	Ottawa Carillon Grenville St. Anne's	Total Ottawa Canals	RIDEAU CANAL. Kingston Mills Ottawa Smith's Falls	Total Rideau Canal.	St. Peter's Canal.	c Trent Valley Canals. Soboaygeon Buckhorn Burleigh Fenelon Falls Hastings Peterborough	Total Trent Valley Canals.	MURRAY CANAL. Brighton	Grand Total

R. DEVLIN, Compiler of Canal Statistics.

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th September, 1895.

APPENDIX A-Continued.

No. (A) 16.—General Statement showing the Number, Tonnage and Nationality of Vessels passed through all the Canals during the Season of Navigation ended the 31st December, 1894, and the amount of Tolls collected thereon.

THE CONTRACT OF THE PARTY OF TH													
	.19	From Canadia	From	From Canadia	From Canadian	From United States	States	From United States	States	Lone			
Vessels.	quinN	to Canadian Ports.	dian ts.	United St Ports	United States Ports.	United States Ports.	States ts.	Canadian Ports.	dian ts.		ė	Total Tons.	Amount of Tolls.
	[stoT	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		
Welland Canal. Canadian vessels, steam	1,068	136,858 21,362	156,818 27,589	70,718 42,918	7,219 2,421	1,404		5,669	52,364 37,564	214,649 65,381	216,431 67,574	431,080 132,955	\$ cts. 3,962 71 2,780 79
Total Canadian	1,473	158,220	184,437	113,636	9,640	2,058		6,116	80,928	280,030	284,005	564,035	6,743 50
United States vessels, steam	617	1,130	862	26,191 13,926	3,374 5,381	247,522 48,947	225,532 58,299	306	51,724 21,284	274,019 68,433	280,632 65,826	554,651 134,259	8,308 87 2,965 93
Total United States	930	1,130	864	40,117	8,755	296,469	263,831	4,736	73,008	342,452	346,458	688,910	11,274 80
Grand Total, Welland Canal	2,412	159,350	185,301	153,753	18,395	298,527	263,831	10,852	162,936	622,482	630,463	1,252,945	18,018 30
ST. LAWRENCE CANALS.													
Canadian vessels, steamdo	3,018	321,791 $470,387$	$279,031\\306,058$	23,240 57,141		119			$\frac{14,785}{86,972}$	345,150 527,528	293,816 393,030	638,966 920,558	4,02781 $10,81959$
Total Canadian	7,335	792,178	585,089	80,381	:	119			101,757	872,678	686,846	1,559,524	14,847 40
United States vessels, steamdo	446	114	21,983	7,360	7117	5,440	5,065	31,734	8,642 27,291	13,088 59,608	14,100 50,917	27,188 110,525	192 43 1,044 51
Total United States	1,210	806	22,239	33,697	898	6,003	5,957	31,908	35,933	72,696	65,017	137,713	1,236 94
Grand Total, St. Lawrence Canals	8,545	793,176	607,348	114,078	898	6,212	5,957	31,908	137,690	945,374	751,863	1,697,237	16,084 34
CHAMBLY CANAL.													
Canadian vessels, steamdo	371 522	30,030 9,936	30,048 8,995	65 3,641	: :		<u>ب</u>		359 13,428	30,095 $13,577$	30,407 22,428	60,502 36,005	196 43 513 20
Total Canadian	803	39,966	39,043	3,706			10		13,787	43,672	52,835	96,507	709 63

United States vessels, steamdo	$\begin{array}{c} 25 \\ 1,574 \end{array}$	5,979	3,277	844 61,936	: :				387 80,387	883 67,915	387 83,664	$^{1,270}_{151,579}$	16 16 1,895 29
Total United States	1,599	6,018	3,277	62,780			:	:	80,774	68,798	84,051	152,849	1,911 45
Grand Total, Chambly Canal	2,492	45,984	42,320	66,486		:	2		94,561	112,470	136,886	249,356	2,621 08
OTTAWA CANALS.									<u></u> -				
Canadian vessels, steam do sail	871 1,188	42,659	93,471 $141,682$		290 8,798			183	: :	42,659 4,936	93,761 150,480	136,420 155,416	564 30 2,147 42
Total Canadian	2,059	47,412	235,153		9,088			183		47,595	244,241	291,836	2,711 72
United States vessels, steamdo	137	1,657	792		10,822			88		1,756	11,589	90,	0 60 312 83
Total United States	138	1,657	767		10,822			180		1,846	11,589	13,435	313 43
Grand Total, Ottawa Canals	2,197	49,069	235,920		19,910			372	:	19,441	255,830	305,271	3,025 15
RIDEAU CANAL.													
Canadian vessels, steam	1,422 876	54,299 25,280	52,243 27.448	$\frac{162}{5,123}$					710 4,573	54,461 30,403	52,953 32,021	107,414	750 56 776 98
Total Canadian	3,298	79,579	79,691	5,285					5,283	84,864	84,974	169,838	1,527 54
United States vessels, steamdo	127	105 974	1,755	2000	385				285 2,934	305	332 5,074	637 8,768	16 25 163 99
Total United States	192	1,079	1,802	2,920	385				3,219	3,999	5,406	9,405	180 24
Grand Total, Rideau Canal	3,490	80,658	81,493	8,205	385				8,502	88,863	90,380	179,243	1,707 78
ST. PETER'S CANAL.													
Canadian vessels, steamdo	222 1,269	18,142 32,208	13,511 $31,103$: :	: :		: :	18,142 32,208	13,511 31,103	31,653 63,311	633 06 1,266 22
Total Canadian	1,491	50,350	44,614							50,350	44,614	94,964	1,899 28
United S. and other foreign vessels, steam.	16	4,732 2,890	80 4					528		4,732 3,418	200 804	4,941 4,222	98 82 84 44
Total U. S. and other foreign	31	7,622	1,013					528		8,150	1,013	9,163	183 26
Grand Total, St. Peter's Canal	1,522	57,972	45,627					528		58,500	45,627	104,127	2,082 54
	-			-									

No. (A) 16.-SUMMARY STATEMENT showing the Number, Tounage and Nationality of Vessels, &c.-Continued.

Vessels.	Number.	From Canadian to Canadian Ports.	om dian dian ts.	From Canadian to United States Ports.	om dian States ts.	Fr United t United Pol	From United States to United States Ports.	Fron: United Stat to Canadian Ports.	Fron. United States to Canadian Ports.	Tons.	· oc	Total Tons.	Amount of Tolls.
	[stoT	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		
TRENT VALLEY CANALS.													s cts.
Canadian vessels, steamdo	1,224	21,170 18,807	23,366		: :					$\frac{21,170}{18,807}$	23,366	44,536 39,072	334 39
Total Canadian	1,810	39,977	43,631	:						39,977	43,631	83,608	485 64
United States vessels, steamdo													
Total United States			:						:				
Grand Total, Trent Valley Canals.	1,810	39,977	43,631						:	39,977	43,631	83,608	485 64
MURRAY CANAL.											-		
Canadian vessels, steamdo	519 149	108,015 4,095	45,500 3,749	14,523 104				202	11,941	122,613 4,219	58,011 3,749	180,624	196 16 35 05
Total Canadian	899	112,110	49,249	14,627	570			95	11,941	126,832	61,760	188,592	231 21
United States vessels, steam do	13	24	219	100				45	29	145 130	248 29	393 159	3 25 3 25
Total United States	33	24	219	206				45	28	27.5	27.7	552	5 50
Grand Total, Murray Canal	069	112,134	49,468	14,833	220			140	11,999	127,107	62,037	189,144	236 71

No. (A) 16.—General Statement showing the Number, Tonnage and Nationality of Vessels, &c.—Concluded.

RECAPITULATION.

Vessels.	Canadian Ports. Up. Down. 158, 220 184, 437 749, 178 585, 089 39, 966 39, 043 47, 412 235, 153 79, 579, 579 79, 579, 579 79, 579	-				United States	United States	States				
855 253 250 250 250	220 178 966 412 579 350	5	to United States Ports.	tates	to United States Ports.	States ts.	to Canadian Ports.	lian.	Tons.	ns.	Total Tons.	Amount of Tolls.
		 	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		
												es cts.
			113,636 80,381	9,640	$2,058 \\ 119$		6,116	89,928 101,757	280,030 872,678	284,005 686,846	564,035 1,559,524	6,743 50 14,847 40
			3,706 	9,088		ت : : : :	183	13,787	43,672			709 63 2,711 72
		:	0,280	: :				0,283	25,02 20,03,03 20,03,03			
		:	14,627	570			:£	11,941	126,832	61,760	28,592 188,592	
19,027 1,319	1,319,792 1,260,907	!	217,635	19,298	2,177	2	6,394	222,696	1,545,998	1,502,906	3,048,904	29,155 92
		<u> </u>	<u> </u>									
939	1,130 864		40,117	8,755	296,469 6,093	263,831	4,736	73,008	342,452	346,458	688,910	$11,274 80 \\ 1.236 94$
			:				180	80,774	68,798	84,051		
		:	2,920	385				3,219		5,406		
		219	506				45	. :20 . :21	275	772	:	
4,131	18,528 30,201	1	139,720	20,830	302,562	269,788	37,406	192,992	498,216	513,811	1,012,027	15,105 62
23,158 1,336	1,338,320 1,291,108	ı	357,355	40,128	304,739	269,793	43,800	415,688	2,044,214	2,016,717	4,060,931	44,261 54

R. DEVLIN, Compiler of Canal Statistics.

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th September, 1895.

APPENDIX A-Continued.

No. (A) 17.—Comparative Statement of Grand Total Freight passed through the undermentioned Canals during the Scasons of Navigation of 1893 and 1894, and the Amount of Tolls collected on the same, including Tolls on Vessels and Passengers.

Tons. Total, Amount of Tons.	Down.	\$ cts. 1,013,240 1,294,823 193,276 14	638, 117 886, 778 63,005 43 109,151 277,608 21,149 65 62,010 34,0479 38,045 38,05 3
H	Up.	281,583 272,536 195,824 1,049 79,653 11,160 23,210 6,508	249,438 248,361 168,457 353 63,914 16,318 24,268
From United States to Canadian Ports.	Down.	463,912 225,293 108,674 7,089	242.687 210,618 101,217 14,087
F Unite Car	Up.	8,331 45,716 491	1,270
From United States to United States Ports.	Down.	384,559 1,210	361,319
'		247,108	910 230,948 222 224 359 003
From Canadian to United States Ports.	Down.	61,240 1,901 75,517 1,723 1,720	
Fr Can United	Up.	8,741 9,987 183,284 11,406	9,597 17,607 157,086 18,558
From Canadian to Canadian Ports.	Down.	103,529 657,436 11,872 504,935 15,769 35,226 8,009 8,026	117,867 425,789 7,934 510,475 39,142 12,003
Can Can Pr	Up.	17,403 216,612 9,040 1,049 10,669 23,210 5,476	7,623 185,780 11,371 353 45,356 16,318 24,268
		Welland St. Lawrence Chambly GRideau FSt. Peter's Trent Valley Murray	Welland St. Lawrence Chambly. Ottawa Rideau St. Peter's. Trent Valley

R. DEVLIN, Compiler of Canal Statistics.

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th September, 1895.

APPFNDIX A-Continued.

No. (A) 18.—Statement of the Number and Tonnage of all kinds of Vessels passed through the Canals during the Season of Navigation in 1894.

WELLAND CANAL.

		Canadian.				United	STATES.	
sı	team Vessel	s.	Sailing	Vessels.	Steam	Vessels.	Sailing	Vessels.
Tonnage.	Number.	Total Tonnage.	Number.	Total Tonnage.	Number.	Total Tonnage.	Number.	Total Tonnage
8	4	32	3	24	8	64	3	24
10	6	60	3	30	$\begin{bmatrix} 8\\2\\1 \end{bmatrix}$	20		
15	2	30			1	15	2	4(
$\begin{array}{c} {f 20} \\ {f 25} \end{array}$	9	100 50	1	20	4 1	80 25	2	41
30	6 2 5 2 9 6	270	1	30				
35	6	210			3	105		
40	3	120	5	200			1	4
·45 50	1 1	45 50	1 1	45 50				
55	l				1	55		
60			1	60				
65	1	65	1	65		<u></u>	1	6
70 75		······	1	75	1	70		
80	1 1	75 80		7.5				
85	i	85						
90			1	90		.		
110			1	110	1	115	2	22
$\frac{115}{120}$					1	110	1	120
135	1	135						
145			2	290				
150			1	150				
160 165	1 1	160 165	1	160				
185	1	100	2	370				
190			$\begin{smallmatrix}2\\2\\2\\2\end{smallmatrix}$	380	1	190		
200			2	400				
$\frac{205}{210}$	1	210					1	20
$\frac{210}{220}$	3	660						
235			1	235			1	23
250			1	250				
260 265	1	260			1	265	$\frac{1}{2}$	26 53
270	1	270			11	l	2	27
275 280					1	275 560	1	1
280			1	280	2	560	2	56
$\frac{285}{290}$			1 1 1	285 290	II		3	87
295	1	295	i	295			2	59
300							2	60
305	1	305	$ \cdots $		1	305	1 5	30
310 315	1	315	ı	620			5 5	1,55 1,57
320	1	310	·····i	320	i	320	1	32
325	1		2	650	<u>.</u>		3	97
330		j	1 3	330			1	33
335 340			3	1,005	·····i	340		· · · · · · · ·
340 345			l		1	345	i	34
355		1			∥ ↑		i	35
360 365	1	360			₁	365	1	

APPENDIX A-Continued.

No. (A) 18.—Statement of the Number and Tonnage of all kinds of Vessels, &c.—Continued.

WELLAND CANAL-Continued.

		Canadian.	,		United States.					
S	team Vessel	s.	Sailing Vessels.		Steam Vessels.		Sailing Vessels.			
Fonnage.	Number.	Total Tonnage.	Number.	Total Tonnage.	Number.	Total Tonnage.	Number.	Total Tonnage		
385							1	38		
385 390							1	39		
400	1	400	· · · · · · · · · · · ·		1	400	1	40		
405 415	3 1	1,215 415				· · · · · · · · · · · · · · · ·				
420	1	41.,			1	420				
430							2	86		
435							1	43		
440	3	1,320			2		1	44		
455 460	1	455	2	910 460	Z	910				
465	2	930	1	400						
470	ļ				1	470				
475							2	95		
480							1	48		
485 490	1	490					1 1	48 49		
495	1	1			2	990				
500	1	500	1	500			2	1,00		
505										
510 515	1	510								
520				• • • • • • • • • • • • • • • • • • • •			1	51 52		
530 535	1	530					1			
53 5				ļ		<i></i>	1 1	53		
540					2	1,080	1	54		
545 550	1	545	1 1	545 550	1	550				
555			1		i	555				
560	1	560								
575							1	57		
580 585	1	585					1 1	58 58		
590	1	590					i	59		
595					1	595	$\frac{1}{2}$	59		
600	1	600			1	600	2	1,20		
$\begin{array}{c} 605 \\ 615 \end{array}$	1				1	605 615				
620					1	620				
625		1			2	1,250		1		
630							1	68		
640			1		1	640				
643 645			1	643	1	645				
650					1	650	1	[
655					1	655 1,320	1	65		
660 670					2	1,320				
680					1	670	1	68		
681		1	ı	681			1			
690							1	69		
695					1	695	1	69		
700						705	1	70		
705 707	••••••	ļ,			1	705	2	1,41		
710	1		1		i	710		1,41		

396

APPENDIX A .- Continued.

No. (A) 18.—Statement of the Number and Tonnage of all kinds of Vessels, &c.—Continued.

WELLAND CANAL-Continued.

		Canadian.			United States.					
St	eam Vessel	s.	Sailing	Vessels.	Steam	Vessels.	Sailing Vessels.			
onnage.	Number.	Total Tonnage.	Number.	Total Tonnage.	Number.	Total Tonnage.	Number.	Total Tounage		
719] [1	719						
$\begin{array}{c} 719 \\ 725 \end{array}$					1	725				
735							1	735		
738							1 1	735 738		
740							1	740		
742							î 1	742		
748							1	748		
760					1	760				
769	1	769								
771	1	771								
775	1				1	775 780	l			
780					1	780	 .			
787	1				1	787	<i>.</i>			
796					1	796				
800					1	800	λ			
802			1	802			 .			
330					1	830				
335					1	835 837				
337					1	837				
346					1	846				
351					1	851				
359							1	85		
370		\					1	87		
880					$\frac{2}{1}$	1,760				
892					1	892				
04					1	904				
908			1	908						
)11					1	911	. . .	<i></i>		
917					[1	91		
918					1	918				
929	1	929								
40				!	1	940				
950					1	950				
960							1	96		
977	1	977						<i>.</i>		
977 985	1			•••••	1	985				
990					1	990				
994							1	99		
997					1	997				
013					1	1,013				
022			{·····		1	1,022	. . <i></i>			
039					1	1,029	1			
035	1	1,035	<u>-</u> -		1	1,035				
041			1	1,041		l				
041 053					1	1,053 1,054				
054		! .			$\frac{1}{2}$	1,054				
111					2	2,222				
118					1	1,118				
124				• • • • • • • • • • • •	1	1,124				
160					1	1,160				
,170		<u>-</u> - <u></u>		• • • • • • • • • •	1	1,170				
,172 ,180	1	1,172	1							
,180					2 1 1 2	2,360 1,189		· • · · · · · ·		
,189	[1	1,189		[
			1		. 1	1,203	1	i .		
,203 ,206	ļ			• • • • • • • • •	1	2,412				

APPENDIX A-Continued.

No. (A) 18.—Statement of the Number and Tonnage of all kinds of Vessels, &c.—Concluded.

WELLAND CANAL-Concluded.

Canadian.					United States.					
St	team Vessel	s.	Sailing	Vessels.	Steam	Vessels.	Sailing	Vessels.		
Tonnage.	Number.	Total Tonnage.	Number.	Total Number.	Number.	Total Tonnage.	Number.	Total Tonnage.		
1,267 1,319 1,425 1,441 1,547 1,548 1,550 1,553	1	1,267			1 1 1 1 1 1	1,319 1,425 1,441 1,547 1,548 1,550 1,553				
Total	83	20,972	57	14,868	108	70,280	86	36,701		

APPENDIX A-Continued.

No. (A) 19.—Statement of the Number and Tonnage of all kinds of Vessels passed through the Canals during the Season of Navigation in 1894.

St. LAWRENCE CANALS.

	Canadian.					United States.						
s	team Vessel	s.	Sailing	Vessels.	els. Steam Vessels.		Sailing Vessels.					
Connage.	Number.	Total Tonnage.	Number.	Total Tonnage.	Number.	Total Tonnage.	Number.	Total Tonnage				
8	30	240	17	136	5	40						
10	14	140	8 4	80	1	10						
15	9	135	4	160	1 4	15 80		• • • • • • • •				
20	6 13	$\frac{120}{325}$	$\frac{8}{3}$	$\begin{array}{c} 160 \\ 75 \end{array}$	4	80	• • • • • • • • • •					
25 30	10	300	3	90	1	30	1	30				
35	6	210			2	70						
40	9	360	10	400	2	80	3	120				
45	1 5	$\begin{array}{c} 45 \\ 250 \end{array}$	3 11	135 550	4	200						
50 55	5	275	1	550 55	-1	200						
60	7	420	15	900		· · · · · · · · · · · · · · · · · · ·	i i	60				
65	i	65	6	390			2	130				
70	3	210	$\frac{5}{3}$	$\frac{350}{225}$	2	140	• • • • • • • • • •					
75 80	3	225 80	10	800		• • • • • • • • • • • • • • • • • • • •	1	80				
85	3	255	6	510			6	510				
90	3	270	9	810			11	990				
95	1	95	14	1,330			44	4,180				
100 105	3 5	300 525	29 8	2,900 840	1	100	85 17	8,500 1,785				
110	5 7 1 3 3 1 3 1 3 5 5 5 2 1	550	9	990			7	770				
115	2	230	10	1,150	1	115	7 8	920				
120	1	120	8	960		<i></i>	3	360				
125	$\frac{1}{2}$	125 260	$\frac{3}{12}$	375 1,560			1	125				
130 135		200	6	810		· · · · · · · · · · · · · · · · · · ·						
140			9	1,260				1				
145	3	435	12	1,740								
150			18	2,700								
155 160	1 2	155 320	31 23	4,805 3,680		- 	1	160				
165	2	330	14	2,310			i	168				
170	I	1	7	1,190			· · · · · · · · · · · · · · · · · · ·					
175	1	175	4	700								
180 185			4 3	720 555								
190	1		3 7 3	1,330	1	190						
195				585			. 1	198				
200	4	800	1	200								
205			$\frac{1}{2}$	205								
210 220			1	220								
225			1	225				.				
230	1	230	4	920				.][.				
235		. †		050	• •••••		$\cdot \mid ^{1}$	23				
250 255			1 1	250 255								
260	1		$\frac{1}{2}$	520	1	1						
265	1	.	2	530	1	265		.				
270		.	1	270	∦		. 1	27				
280 290	· · · · · · · · · · · · · · · · · · ·	.	3	870	. 1	280						
290 295	1						9	59				
300	1		3	900	11	1	. 2	60				

APPENDIX A-Concluded.

No. (A) 19.—Statement of the Number and Tonnage of all kinds of Vessels, &c.—Concluded.

ST. LAWRENCE CANALS-Concluded.

		Canadian.			United States.						
St	eam Vessel	s.	Sailing Vessels.		Steam Vessels.		Sailing Vessels.				
Fonnage.	Number.	Total Tonnage.	Number.	Total Tonnage.	Number.	Total Tonnage.	Number.	Total Tonnage			
305	1	305	4	1,220	1	305	1	305			
310			3	930 630		• • • • • • • • • • • • • • • • • • • •					
315 32 0	·····i	320	$egin{array}{c} 2 \\ 3 \\ 2 \end{array}$	960			3	960			
320 325	1	325	2	650			3	300			
325 330	1		ī	330							
335	1	335	3	1,005			1	335			
340			4	1,360			1	340			
345	1	345	5 2 2 3	1,725 700			1	345			
350 360	1	360	2	720		• • • • • • • • • • • • • • • • • • • •	••••				
365	1	300	3	1,095				· · · · · · · · ·			
370			$\frac{3}{2}$	740				•••••			
375			2	750		<i></i>					
390			1	390							
400	1	400									
405	1	405	$\frac{\dots}{2}$	830				· · · · · · · ·			
415 435	1	435	i	435			1	435			
440	1	100	î	440			ī	440			
445			1	445							
450			1	450							
455	1	455	· • · · · · · • • •				. 				
465			1 1	465 475				47			
475 490			1	490	J		! 1	475			
495				1			i i	495			
500	1	500	1	500			· · · · · · · · · · · · · · · · · · ·				
510	2	1,020									
520			3	1,560		<i>.</i>		[
545	2	1,090	$\frac{2}{1}$	1,090 570							
570 580	1	580		310			····				
585	l		1	585							
590	1	590	1	590							
595	1	595									
600	1	600		690							
630 680	1	680	1	630							
685	1	000	i	685			• • • • • • • • • •				
695	1	695									
715	1	715									
775	1	775			II						
780			1	780							
805		1,185	′ 1	805							
1,185 1,485	1 1	1,185					¦·····				
1,400											
Total	188	22,770	440	69,031	28	1,920	210	24,905			

APPENDIX A-Continued.

No. (A) 20.—Statement of the Number and Tonnage of all kinds of Vessels passed through the Canals during the season of Navigation in 1894.

RIDEAU, OTTAWA AND CHAMBLY.

		CANADIAN.		United States.						
8	steam Vess	els.	Sailing	Vessels. Steam Vessels.			Sailing Vessels.			
Fonnage.	Number.	Total Tonnage.	Number.	Total Tonnage.	Number.	Total Tonnage.	Number.	Total Tonnage		
8	45 \	360	35	280	8	64	2	16		
10	10	100	18	180	5	50	1	10		
15	11	165	10	150	3	45		1		
20	9	180	3	60	4	80	1	20		
25	8	200	3	75	II		. î	25		
$\frac{25}{30}$	ĕ	180	i	30			' *			
35	ĭ	35	3	105		1				
40	5	200	5	200	i	40				
45		200	ĭ	45	1	1				
50	4	200	7	350			2	100		
55	3	165	i	110			1	100		
60	2	120	5	300		1	1	60		
65	_	1					$\hat{2}$	130		
70			1	70	i	70	ī	70		
75	4	300	4	300	1		4	300		
80	2	160	6	480			i	80		
85	ī	85	3	255			8	650		
90	Î	90	5	450			23	2,070		
95	_		3	285	1		87	8,265		
100	i	100	١ ٥	900			164	16,400		
105			5	525			36	3,780		
110			3 5 3 9 5 6 3	660			20	2,200		
115	1		3	345			15	1,725		
120	2	240	3	360			9	1.080		
125	ĺ ĩ	125	6	750				1,000		
130	-	l	ı 4	520						
135			9	270			1			
140	1	140	2 5	700						
145	2	290	12	1,740				1		
150	-		12	1,800				1		
155	1	155	30	4.650						
160	-		17	2,720						
165			13	2,145		1	l			
170		1	5	850		l	1	1		
175			$\mathbf{\hat{2}}$	350			1			
180			$\mathbf{\tilde{2}}$	360		1		l		
185			5 2 2 2 1	370						
190			1	190						
195			1	195						
200	1	200	1	200						
230	î	230						l		
260			1,	260	l					
325	i	325						l		
335	î	335		[l	1					
345	ĩ	345								
400	ĩ	400			i					
200										
Total	126	5,425	257	24,585	22	349	377	37,001		

APPENDIX A-Concluded.

No. (A) 21.—Statement showing the Classified Tonnage of all kinds of Vessels passed through the Canals during the Season of Navigation in 1894.

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UNITED STATES.

CANADIAN.

Tonnage.	35,752 440 340 65 65	36,701
No.	47 22 33 10 6	98
Sailing Vessels.	250 to 994 tons 200 " 249 " 150 " 199 " 100 " 149 " 50 " 99 " Under 50 "	Total
Class.		
Tonnage.	69,541 . 190 . 115 . 125 309	70,280
No.	85 11 19 19	108
Steam Vessels.	250 to 1,553 tons 200 " 249 " 150 " 199 " 100 " 90 " 50 " 90 " Under 50 "	Total
Class.		
No. Tonnage.	12,084 635 1,060 340 349	14,868
	26 6 3 15 14	57
Sailing Vessels.	250 to 1,041 tons 250 " 249 " 150 " 199 " 100 " 99 " Under 50 "	Total
Class.	100450	
Tonnage.	18,370 870 325 135 355 917	20,972
No. T	849468	83.
Steam Vessels.	250 to 1,267 tons 200 249 150 199 100 149 50 99 Under 50	Total
Class.	105 	

ST. LAWRENCE CANALS.

5,590 235 520 12,460 5,950 150	24,905
16 121 65 65	€
250 to 495 tons 200 " 249 " 150 " 199 " 100 " 149 " 50 " 99 " Under 50 "	Total
850 190 215 340 325	1,920
3 1 2 6 6	88
250 to 305 tons 200 " 249 " 150 " 199 " 100 " 149 " 50 " 99 "	Total
10,824,700	I
28,625 2,190 18,575 12,585 5,920 1,136	
74 110 106 106 80 80 56	440
1 250 to 805 tons 3 2500 ".249 " 4 100 ".149 " 5 50 ".99 " 6 Under 50 "	Total
14,195 1,030 980 2,545 2,145 1,875	22,770
8 2 2 2 2 3 8	188
1 250 to 1,485 tons 2 200 " 249 " 3 150 " 199 " 5 50 " 99 " 6 Under 50 "	Total

402

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CHAMBLY.
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73
RIDEA
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25,185 11,755 61	37,001
244	377
250 to tons. 200 ". 249 ". 150 ". 199 ". 1100 ". 149 ". 50 ". 99 ". 1100 ". 149 ". 1	Total
1 70 21 279	349
21	83
1 250 tv — tons 2 200 " 249 " 4 100 " 149 " 4 100 " 99 " 5 50 " 99 " 6 Under 50 " 279	Total
260 200 13,630 6,770 2,600 1,125	24,585
3888-1	257
2 200 to 260 tons 3 150 to 249 ti 4 100 to 199 ti 5 50 to 39 ti 6 Under 50 ti	Total
20220	155
1,405 430 155 895 1,120 1,420	6,42
4217728	126
250 to 400 tons 200 249 1156 139 50 99 Under 50	lotal

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, 30th September, 1895.

R. DEVLIN, Compiler of Canal Statistics.

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CANALS

CONSOLIDATED

Sec. 1.

No. 22.—RATES OF TOLLS ON THE CANALS OF

WELLAND, ST. LAWRENCE, RIDEAU, OTTAWA, CHAMBLY AND MURRAY CANALS.

(O. C., April 18, 1873.)

The Rates of Tolls are divided into Six Classes, as under, and are per ton, unless otherwise specified.	Welland Canal, westward.	Welland Canal, eastward.	Lake Erie to Montreal.	St. Lawrence Canals, each way.	Chambly Canal and St. Ours Lock, each way.	Rideau Canal, each way.	Ottawa Canals, and St. Ann's Lock, each way.	Ottawa to St. Johns each way.	Murray Canal, each way.
Class No. 1.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Vessel, steamper ton. do sail and other	0 01 1 0 02 1					$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	0 00 § 0 01	0 013 0 02§	
Class No. 2.									
Passengers, 21 years of age and upwards Passengers, under 21 years each	0 10 0 05	0 10 0 05	0 20 0 10	0 10 0 05	0 05	0 08 0 04	0 02½ 0 01½		0 1½ 0 0g
Class No. 3.									
Bricks, cement and water lime. Clay, lime and sand Brimstone Corn. Flour. Iron, railway. do pig. do all other, including steel (O.C., Feb. 1, 1888). Plaster, gypsum. Salt. Salt meats or fish, in barrels or otherwise. Agricultural products, vegetable, not enumerated. Agricultural products, animal, not enumerated. Stone, for cutting. Wheat.	15	0 20	0 20	0 15	0 10	0 07	0 06	0 193	0.14
Class No. 4.									
All other articles, not enumerated	0 15	0 20	0 20	0 20	0 10	0 26	0 14	0 29	0 21/2

REVENUE

TARIFF OF TOLLS

THE DOMINION OF CANADA, 1894.

TRENT VALLEY CANALS.

(O. C., July 25, 1888.)

1st Section.	2nd Section.	3rd Section.	4TH SECTION.	Тнкоисн.	Peterborough		
Fenelon Falls Bobcaygeon to		Buckhorn to	Burleigh to	Fenelon Falls to	Hastings, each way.		
Bobcaygeon.	Buckhorn.	Burleigh.	Lakefield.	Lakefield.	Tolls Charge- able at Peterborough and Hastings.		
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.			
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts		
$\begin{array}{ccc} 0 & 00^{4}_{26} \\ 0 & 00^{4}_{36} \end{array}$	0 00 ³ / ₆	0 00 ³ / ₆	0 00 ² / ₁ 6 0 00 ¹ / ₂	0 00 3 0 01	0 00 ₁ 3 0 00 <u>1</u>		
0 01	0 01 0 00½	0 01 0 00½	0 01 0 00½	0 04 0 02	0 01 0 00½		
0 01	0 01	0 01	0 01	0 04	0 01		
0 03	0 03	0 03	0 03	0 12	0 03		

RATES OF TOLLS

WELLAND, ST. LAWRENCE, RIDEAU, OTTAWA, CHAMBLY AND MURRAY CANALS.

The Rates of Tolls are divided into Six Classes, as under, and are per ton, unless otherwise specified.	Welland Canal, westward.	Welland Canal, eastward.	Lake Erie to Montreal.	St. Lawrence Canals, each way.	Chambly Canal and St. Ours Lock, each way.	Rideau Canal, each way.	Ottawa Canals and St. Ann's Lock, each way.	Ottawa to St. Johns, each way.	Murray Canal, each way.
Class No. 5.									
Bark Barrels, empty, each Boat knees, each. Floats, per 1,000 lineal feet Firewood, per cord, in vessels do do rafts. Hoops Masts and spars, telegraph poles, per ton of 40 cubic feet, in vessels. Masts and spars, telegraph poles, per ton of 40 cubic feet, in rafts. Railway ties, in vessels, each. do rafts, each. Sawed stuff, boards, plank, scantling and sawed timber, per M. feet, board mea- sure, in vessels. Sawed stuff, boards, plank, scantling and sawed timber, per M. feet, board mea- sure, in rafts. Square timber, per M. cubic feet in vessels. do do rafts. Square timber, per M. cubic feet in vessels. do do rafts. Split posts and fence rails, per M., in vessels. Split posts and fence rails, per M., in rafts Saw-logs, each, standard log Staves and headings, barrel, per M.	0 20 0 02 0 05 1 40 0 25 0 25 0 25 0 15 0 20 0 01 0 02 0 30 0 60 3 00 4 50 0 40 0 06 0 40	0 20 0 02 0 05 1 40 0 25 0 25 0 25 0 15 0 20 0 01 0 02 0 30 0 40 0 40 0 40 0 40	0 20 0 02 0 05 1 40 0 20 0 25 0 25 0 15 0 20 0 01 0 02 0 30 0 40 0 40 0 06 0 40	0 15 0 02 0 02 1 40 0 25 0 20 0 05 0 10 0 001 0 01 0 01 0 01 0 06 0 40 0 06 0 40 0 80 0 80 0 20	0 10 0 02 0 02 1 20 0 15 0 15 0 05 0 10 0 00 1 00 2 00 1 00 2 00 1 00 2 00 1 00 2 00 1 00 2 00 1 00 2 00 1 00 2 00 1 00 1	0 07 0 02 0 02 1 05 0 15 0 19 0 15 0 08 0 15 0 00 ³ 0 02 0 11 ¹ / ₄ 0 19 0 56 1 12 0 30 0 04 ¹ / ₂ 0 23 0 38 0 06 0 15	0 09 0 44 0 63	0 031 0 032 2 05 0 23 0 301 0 30 0 131 0 022 0 018 0 024 0 20 0 361 1 69 3 13	0 013 0 002 0 002 0 175 0 025 0 025 0 025 0 005 0 013 0 013 0 013 0 025 0 003 0 025 0 005 0 0 005 0 0 005 0 0 005 0 0 005 0 0 005 0 0 005 0 0 0 0
do do pipe do do do W. India do	1 50 0 75	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	$0.12\frac{1}{5}$ $0.07\frac{1}{5}$
do do salt barrel, sawn or cut, per M	0 08 0 50 2 00	0 08 0 50 2 00	0 08 0 50 2 00	0 04 0 50 2 00	0 03 0 40 1 50	0 03 0 38 1 50	0 02 0 15 0 65	0 06 0 67½ 2 65	0 00½ 0 06¼ 0 25
Special Class.			 				}		
Gypsum, crude (per O. C., 28th Oct., 1882). Coal	0 75	0 05 0 20 0 75 0 05	0 20 0 75 0 05	0 05 0 15 0 60 0 05	0 10 0 37½ 0 05	0 05	0 05 0 24 0 05	$\begin{array}{c c} 0 & 77\frac{1}{2} \\ 0 & 05 \end{array}$	0 01 7 0 07 1 0 05
Kryolite, iron ore or chemical ore	0 05	0 05 0 05	0 05	0 05	0 05	0 05	0 05	0 05	0 05

ON THE CANALS-Continued.

TRENT VALLEY CANALS.

1st Section.	2nd Section.	3RD SECTION.	4TH SECTION.	Тикосси.	
					Peterborough to
Fenelon Falls	Bobcaygeon	Buckhorn	Burleigh	Fenelon Falls	Hastings.
to Bobcaygeon.	to Buckhorn.	to Burleigh.	to Lakefield.	to Lakefield.	each way.
Tolls Charge- able at Fenelon Falls.	Tolls Charge- able to Bobcaygeon.	Tolls Charge- able to Buckhorn.	Tolls Charge- able at Burleigh	Tolls Charge- able at Fenelon Falls.	Tolls Charge able at Peterborough and Hastings
\$ ets.	\$ ets.	\$ ets.	\$ cts.	\$ cts.	\$ cts:
0 01	0 01	0 01	0 01	0 04	0 01
0 001	0 001	0 001	0 001	0 01	0 00 k
0 00 <u>1</u>	0 004	0 004	0 004	0 01	ŏ ŏŏ‡
0 13	0 13	0 13	0 13	0 52	0 13
0 03	0 03	0 03	0 03	0 10	0 03
$\begin{array}{c} 0 & 04 \\ 0 & 02 \end{array}$	0 04 0 02	0 04 0 02	0 04 0 02	0 14 0 08	0 04 0 02
0 02	0 02	0 02	0 02	0 08	0 02
			1		
$\begin{array}{ccc} 0 & 01 \\ 0 & 00\frac{1}{8} \end{array}$	0 01	0 01	0 01	0 04	0 01
0 001	0 00 1 0 00 1	0 00½ 0 00½	0 00½ 0 00½	0 00½ 0 01	0 00 1
*	0 004	0 004	3 704	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
0.00^{3}_{4}	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
$0.00^{\frac{3}{4}}$	0 003	0 003	0 003	0 03	0 003
0 02 0 10	0 02 0 10	0 02 0 10	0 02	0 08	0 02
0 053	$0.05\frac{1}{2}$	0 051	0 10 0 05 1	0 40 0 22	0 10 0 05 1
0 003	0 001	0 001	-		-
0 05	0 005	0 003	0 00½ 0 05	0 02 0 20	0 00½ 0 05
0 20	0 20	0 20	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	0 031	0 031	0 031	0 14	0 031
0 003	0 003	0 003	0 003	0 03	0 00\$
Free.	Free.	Free.	Free.	Free.	Free.

St. Peter's Canal.

Sec. 2. On each and every vessel passing through the said canal, two cents per ton on the vessel and one cent per ton on the freight, each way. O.C. June 23, 1883. Con. O.C. Oct. 26, 1889, sec. 109.

SPECIAL REGULATIONS RELATING TO TOOLS ON SOME OF THE CANALS.

- Sec. 3. Coal may pass up all canals, except the Welland Canal, free of toll. O.C. June 6, 1869. Con. O.C. Oct. 26, 1889, sec. 83.
- Sec. 4. Logs, lumber or other produce may pass free of toll down the Chippawa Creek, between the Aqueduct and Port Robinson. O.C. May 18, 1863. Con. O.C. Oct. 26, 1889, sec. 84.
- Sec. 5. (a) In view of the dam constructed across the Ottawa River at Carillon whereby the passage of the rapids at that point through the river is rendered difficult and at times impracticable, it appears necessary, owing to the continued difficulty attending passage through the slide built in the dam, that the Canal should be used by rafts, and until otherwise ordered, free passage be given to rafts through the Carillon Canal, subject to such regulations as the Department of Railways and Canals may find necessary in the interest of the traffic of the Canal to adopt. O.C. July 6, 1888.
- Sec. 5. (b.) "Save in cases for which special permission may be given the Grenville Canal is closed to the passage of rafts, or of any portion of a raft of any kind whatever." O.C. June 27, 1890.

Sault Ste. Marie Canal.

- Sec. 6. All vessels and freight shall be permitted to pass through the Sault Ste. Marie Canal free of toll upon such vessels and freight, until otherwise ordered.
- Sec. 7. (a.) All goods having paid full toll through the whole line of the St. Lawrence Canal, or through the Lachine Canal, Ste. 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 toll 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 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 Canals, to Lake Ontario.
- (b.) All articles, goods or merchandise, not enumerated above, shall be charged to Class No. 4. O.C. April 18, 1873. Con. O.C. Oct. 26, 1839, sec. 86.
- Sec. S. Goods shipped to any port west of the St. Lawrence Canals, tolls upon which have already been paid for passage through such canals, may be re-shipped from such ports and be passed through the Welland Canal free of tolls, in the same way as if they had been shipped through direct in the first instance; and goods going eastward, having paid Welland Canal tolls, may be transhipped at any port on Lake Ontario, and thereafter pass free through the St. Lawrence Canals, as if they had been shipped through direct in the first instance. O. C. June 23, 1883. Con. O. C. Oct. 26, 1889, sec. 87.
- 9. Iron ore, kryolite or chemical ore, may pass through one section, or through all the canal sections aforesaid, for 5 cents per ton.
- 10. No let-passes shall be issued to steam tugs or other small vessels for less than 25 cents, as a minimum charge; but such vessels, not carrying freight or passengers, can obtain, on payment of \$30 a season" Let-Pass," which will pass them up and down the canals as often as desired. O. C. April 18, 1873. Con. O.C. Oct. 26, 1889, sec. 86.

- Sec. 11. All vessels owned or chartered by persons having contracts for the enlargement or repair of any of the canals, and employed by them in removing earth or carrying materials necessary for the prosecution of such works, shall be entitled to pass through such canals free of toll upon such vessel and cargo. O.C. April 22, 1884. Con. O.C. Oct. 26, 1889, sec. 35.
- Sec. 12. Government dredges and scows shall be permitted to pass through the canals free of tolls, but that such dredges and scows shall not be so passed as to interfere with the passage of other vessels of any kind whatever. O.C. May 18, 1891.

HARBOUR DUES.

Sec. 13. Vessels receiving or discharging freight at the premises of the Welland Railway, at Ports Colborne or Dalhousie, are to be free from harbour dues; but all other vessels discharging or receiving cargo at Port Dalhousie, Port Colborne or Port Maitland, shall pay on every ton of freight so received or discharged, two cents. O. C. April 18, 1873. Con. O. C. Oct. 26, 1889.

WAY BATES.

Sec. 14. The following way rates are to be levied on vessels and property passing the several subdivisions of the canals:—

	Welland Canal.
	From Port Maitland, Dunnville and Port Colborne to Port Robinson or Allanburg, not passing the lock, each way
2.	From Chippawa Cut, or any part thereof, to Dunnville, Port Maitland or Port Colborne.
	From Dunnville to Port Colborne
	From Thorold to St. Catharines or Port Dalhousie
5.	From Maitland, Dunnville, Colborne or Port Robinson to Marshville and
6.	From Marshville or intermediate places to Port Maitland, Dunnville, Port Colhorne and Port Robinson
7.	From Port Robinson to Allanburg or Thorold
	From Port Robinson to St. Catharines or Port Dalhousie
	From St. Catharines to Port Dalhousie
10.	From Dunnville to Maitland
11.	From Port Robinson through the Lock and Chippawa Cut
12.	From Port Colborne to Port Maitland
13.	From Chippawa Cut through Lock to Port Robinson
15.	From Colborne, Dunnville, Maitland and Marshville to Thorold
17.	Through the Port Robinson Lock only

St. Lawrence Canals.

Sec. 15. The navigation is divided into four sections, viz., Cardinal, Cornwall, Beauharnois and Lachine. Tolls are to be levied on all vessels and property in proportion to the number of sections passed through.

Chambly Canal.	Rate.
Sec. 16. Vessels and property passing from Sorel to Chambly, to pay Vessels and property passing from Chambly to St. Johns, to pay	39 .

Ottawa Canals.

Sec. 17. 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. 18. The navigation of this canal is divided into three sections, viz., Ottawa, Smith's Falls and Kingston Mills. Vessels and freight passing one section are to be charged one-third; two sections, two-thirds. O. C. April 18, 1873. Con. O. C. Oct. 26, 1889, secs. 77, 78, 79, 80 and 81.

Tay Canal to be part of the Rideau Canal and the following rates of tolls to be

levied upon the said Tay Branch of the Rideau Canal system, viz.:-

Perth to Smith's Falls, one section, or one-third of Rideau Canal rates, each way.

Perth to Kingston, 2 sections, two-thirds Rideau Canal rates, each way. Perth to Ottawa Basin, 2 sections, two-thirds Rideau Canal rates, each way.

Perth to River Ottawa, 3 sections, full Rideau Canal rates, each way. O.C. Sept. 27, 1890.

General.

Sec. 19. (a.) Any fraction of a ton freight is to be charged one ton, and portions of sections are to be charged as a whole section on all the above canals.

(b.) The passing of saw-logs or other lumber through any of the canals, or sections thereof, shall be at all times governed by the regulations for their management. O.C. April 18, 1873. Con. O.C. Oct. 26, 1889, sec. 82.

Sec. 20.—standard for estimating Weights, for canal tolls.

	Tons.		Tons
,000 lbs. avoirdupois	1	Stone, 12 cubic feet	1
Per M. is per thousand feet		Stone, 1 cord	7
Per Mille is per thousand pieces		Whiskey, 4 barrels or 215 gallons	1 1
Freen fruit, 9 barrels are	1	Empty barrels, 10	1
Bark, 4 cords	i	Board and other sawed lumber, 600 feet	
Beef, 7 barrels	î	board measure.	1
Biscuit and crackers, 9 barrels	ĩ	Boat knees, 4.	i
Bricks, common, 1,000	2	Firewood, 1 cord	3
Butter, 22 kegs or 7 barrels	1	Hop poles, 60 or 40 cubic feet	1
Dattle, 3	1	Shingles, 12 M. or bundles	1
Dement and water lime, 7 barrels	1	Split posts and fence rails, 1 mille	1
Fire bricks, 1,000	3	Staves and headings, pipe, 1 mille	8
Fish, 7 barrels	1 1	W. India, 1 mille	4 2
Sypsum and manganese, 6 barrels		" barrel, 1 mille salt barrel, 1 mille	0
Horses, 2		Saw-logs, standard, 1	0
Lard and tallow, 7 barrels or 22 kegs		Square timber, 50 cubic feet	ĭ
Liquors and spirits, 215 gallons	1	Telegraph poles, 10, or 40 cubic feet	1
iquors, all others, 215 gallons	1	Masts and spars, 40 cubic feet	i
vuts, 9 barrels	(I	Railroad ties, 16, or 50 cubic feet	
Dysters, 6 barrels	1	All other woodenware, or partly manu-	
ork, 7 barrels	1	factured wood, 40 cubic feet as per tariff.	
Salt, 7 barrels		Traverses, 40 cubic feet, or 5 pieces	
Seeds, 9 barrels		Floats, 50 lineal feet	

Note.—By the Weights and Measures Act, chapter 104 of the Revised Statates of Canada, section 14,

all the following named articles are to be estimated by the cental of 100 lbs.

The weight equivalent to a bushel being as follows:—Wheat, 60 lbs.; Indian corn, 56 lbs.; rye, 56 lbs.; pease, 60 lbs.; barley, 48 lbs; oats, 34 lbs.; beans, 60 lbs.; clover seed, 60 lbs.; timothy seed, 48 lbs.; buckwheat, 48 lbs.; flax seed, 50 lbs.; blue grass seed, 14 lbs.; hemp seed, 44 lbs.; malt, 36 lbs.; castor beans, 40 lbs. potatoes, turnips, carrots, parsnips, beets and onions, 60 lbs.; bituminous coal, 70 lbs.

TOLLS AT SHEDS AT LACHINE CANAL BASIN.

Sec. 21. The following tolls shall be levied upon property stored at the sheds at the Lachine Canal Basin:—

			Cents.
Wheat and other grain, pe	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
Lionom	do	per pipe, 15 cents, per pun	12
Liquors {	do	per hhd., 10 do per qr. cask	7
Iron (bars)	do	per ton	24
Iron (pig)	do	do	12
Salt, except at the St.			
Gabriel sheds	do	per 100 minots	36
Salt at the St. Gabriel shed	s,	-	
Montreal, after the first	st		
48 hours	do	per bag	1/2
Bales, crates, cases, &c.	do	per ton weight or measurement	
Coals	do	per chaldron	12

Sec. 22. (a.) No charge shall be made for property stored in the sheds at 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. Aug. 21, 1846, Oct. 28, 1846. Con. O.C. Oct. 26, 1889, sec. 90 and 91.

Flour.

Sec. 23. (a.) Flour shall be allowed to remain in the sheds for two whole days free of charge.

(b.) If kept there beyond two days or 48 hours, such flour shall be liable to a charge of one cent per day per barrel for the first four days after the expiration of the 48 hours of exemption.

(c.) Should the flour be kept in the sheds beyond four days at one cent per day per barrel, it shall be liable to pay two cents per day per barrel for every day subsequent to the expiration of such four days.

(d.) Any part of a day shall be considered as one day. O.C. May 31, 1856.

Con. O.C. Oct. 26, 1889, sec. 92.

WHARFAGE DUES ON COAL FOR LOCAL CONSUMPTION IN MONTREAL.

Sec. 24. Coal for local consumption in Montreal, landed on canal property between Montreal harbour and Cote St. Paul, from vessels other than sea-going, and entering the Lachine Canal from Montreal harbour, shall be charged wharfage dues at the rate of five cents a ton.

Coal screenings shall be charged 3 cents a ton. Con. O.C. Oct. 26, 1889, sec.

93. O.C. May 18, 1892.

CHARGES FOR WHARFAGE ON FIREWOOD ON WHARFS AND BANKS OF LACHINE CANAL.

Sec. 25. The following rates of tolls shall be collected as herein mentioned, that is to say:—

(a.) Firewood landed on wharfs or banks of the Lachine Canal, or in boats, barges or other craft occupying any of the basins between Wellington Street bridge and Lock No. 3, four cents per cord, and for every day the wood is allowed to remain in either the canal or basin, or on the wharfs or banks after the first five days, an additional charge of four cents per cord. O.C. Aug. 7, 1860. Con. O.C. Oct. 26, 1889, sec. 94.

(b.) The clause next preceding shall not only apply to the rates of toll to be collected on firewood on wharfs at Lachine, and the Lachine Canal and basin, but are also extended and made applicable to the banks and grounds at Côte St. Paul,

and at Lachine. O.C. Jan 27, 1862. Con. O.C., 1889, sec. 94.

CANAL BASINS IN MONTREAL PART OF MONTREAL HARBOUR.

Sec. 26. Whereas under existing regulations for the collection of canal tolls, eastern bound vessels having paid the charges one way in full through the Welland Canal are chargeable one section canal toll if re-entering the Lachine Canal;

And whereas vessels loaded with grain destined for the Montreal harbour frequently unload only part of their cargoes on board sea-going vessels in that harbour, and re-enter the Lachine Canal for the purpose of unloading the balance

of their cargoes either in elevators or mills located along the canal basins;

It is ordered, that the Lachine Canal basins, within the Montreal city limits, be considered as part of the Montreal harbour, in so far only as regards the collection of tolls on the class of vessels above referred to, which re-enter that portion of the canal for the purpose of unloading the balance of their cargoes, but that the same shall not apply any further, as in the event of vessels returning to the harbour to take cargo, in which case the usual toll shall be charged against them on passing out of the canal a second time into the harbour. O.C. Aug. 8, 1878. Con. O.C. Oct. 26, 1889, sec. 95.

PHOSPHATES.

Sec. 27. Whereas vessels laden with grain for delivery in Montreal harbour frequently carry also deck-loads of phosphates, and being compelled to proceed at once to the harbour for the discharge of the grain, they pay tolls through to that point, subsequently re-entering the Lachine Canal for the storage of the phosphates, and in accordance with the existing regulations, paying canal dues a second 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. Con. O.C. Oct. 26,

1889, sec. 96.

WHARFAGE DUES IN ALL BASINS OF THE LACHINE CANALS ON SEA-GOING VESSELS

Sec. 28. The Montreal Harbour Commissioners shall be allowed to retain the right of levying dues in respect of the old lower basin of the Lachine Canal, but the Government shall retain full control of the new works and basin of said canal, and of the revenue that may be derived from their use.

All property delivered or received by sea-going vossels in the Lachine Canal basins at Montreal (except the old lower basin) shall be charged wharfage dues as

follows:-

	Per Ton.
All goods, wares and merchandise, not elsewhere specified	25 cts.
Hay, straw, pig and scrap iron, pot and pearl ashes	20 cts.
potatoes, tar, horses, neat cattle, sheep, swine	15 cts.
salt	10 cts.
Coal and coke, grain and seeds of all kinds	7½ cts.
Bullion specie	Free. 3 cts.

Each entry shall pay not less than five cents.

All property landed on the canal wharfs for reshipment, or transhipped in

canal waters shill pay one wharfage only.

Lumber upon which tolls have been paid for passage down the Lachine Canal, and which is reshipped from the wharfs or vessels into sea-going vessels shall pay wharfage dues equal to one section of canal tolls, viz., 3\frac{3}{2} cents per 1,000 feet board measure. O. C. Jan. 26, 1883. Con. O. C. Oct. 26, 1889, secs. 98, 99, 100 and 101. O. C. May 18, 1892.

Sec. 19.—Standard for Estimating Weights.

Ashes, pot or pearl	3 brls. to 1 ton.
Apples, flour, meal, potatoes	9 do 1 do
Fish, meats, pitch, tar	7 do 1 do
Horses	
Neat cattle	
Sheep	15 to 1 do
Swine	10 to 1 do

O. C. April 1, 1881. Con. O. C. Oct. 26, 1889, sec. 102.

TOLLS ON FLOATED TIMBER, &C., ENTERING THE BASIN AT LACHINE.

Sec. 30. The following rates of tolls shall be collected on floated timber, lumber and firewood entering the basin at Lachine and Lachine Canal:—

Kinds of Timber.	For receiving Timber, &c., to include use of basin and wharf for 1 month.	For each succeeding month during the season of navigation.	For wintering in basin or on wharf.
Timber, square or round, of all kinds. above 12 × 12, per M. cubic feet 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 do pipe do do West India, per M Firewood on bank of canal between Lock No. 3 and Lock No. 5, and also on wharfs in canal basin at Lachine	20 3 1 10 10 10 8 8 8	Cents. 20 15 2 1 5 5 5 4 4 4	Cents. 35 30 3 2 10 10 10 8 8 8

Note.

Sec. 31. (a.) No allowance shall be made for fractional parts of a month or winter season.

(b.) The firewood shall be corded across the bank while being delivered from the boat in such manner and at such points as the superintending engineer may direct.

(c.) The rates on timber to take effect upon the completion of the booms in Lachine Canal. O. C. June 8, 1860. Con. O. C. Oct. 26, 1889, sees. 103 and 104.

CHARGES ON VESSELS WINTERING IN LACHINE CANAL.

Sec. 32. The following rates per ton shall be charged for wintering vessels in the Lachine Canal, viz.: For each boat, barge, scow or other vessels of ten tons measurement or under, seventy cents per vessel for the entire winter, and every ten tons above the first ten, an additional rate of eight cents. O. C. Aug. 22, 1879. Con. O. C. Oct. 26, 1889, sec. 97.

CHARGES FOR WINTERING VESSELS IN RIDEAU CANAL.

Sec. 33. The winterage dues for vessels wintering in the canal basin, at Ottawa, or other points along the line of the Rideau Canal, shall be as follows:—

In canal basin,	Ottawa,	steamers per	season		8.00
do	do	barges	do		4.00
Inside locks	do	steamers	do	,	50.00
do other st	ations	do	do		15.00

If the Minister of Railways and Canals deems it advisable, he is authorized to take security from parties wintering their vessels in locks against damage to government property by fire. O. C. March 19, 1887. Con. O. C. Oct. 26, 1889, sec. 105.

CHARGES EOR WINTERING VESSELS IN THE OTTAWA RIVER CANALS AND LOCKS.

Sec. 34. The charge for vessels wintering on the Ottawa River canals and locks, and the same is hereby prescribed accordingly, namely:—

In Carillon Canal,	steamers, per s	eason	8.00
		do	
Grenville Canal,	steamers	do	8.00
do	barges	do	4.00
Inside locks, Ste.	Anne, Carillo	n and Grenville Canals,	
steamers, per	season	,	25.00
Inside locks, Culbu	te Canal, per se	ason	15.00

Such security against damage by fire to be taken by way of bond, as in the opinion of the Minister of Railways and Canals may seem desirable. O. C. Oct. 14, 1892.

Sec. 35. No charges to be made for vessels wintering outside the locks of any government canal. O. C. Dec. 12, 1889.

CHARGES FOR REPAIRING VESSELS ON THE BANKS OF CANALS.

Sec. 36 (a.) Persons using the banks of the Lachine Canal as a site for the repair of their vessels shall be subject to a charge of four dollars, payable in advance, for each vessel; the period during which such site may be

occupied under any one payment being limited to six months, and permission for repairing being first obtained from the proper officer, in conformity with existing

canal regulations.

(b) In the event of failure to remove vessels so occupying the banks at the expiration of the period named, no fresh permits having been obtained, such vessels may be sold under the 16th section of the Canal Regulations. O. C. March 5, 1880. Con. O. C. Oct. 26, 1889, sec. 1)6.

Sec. 37. Rules with respect to the repairing of vessels on the banks of the Lachine Canal, the Beauharnois and the Chambly:—

(a) Repairs shall only be executed at such points as may be indicated and

approved by the superintending engineer:

- (b) For each vessel hauled up or beached for repairs, a charge of one dollar, over and above all other charges, shall be made, carrying the privilege of remaining one month, a further sum of one dollar being charged for each additional month or fraction of a month the vessel may remain.
- (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 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 sub-

sequent 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 first day

of each month.

(g) These rules shall be understood as applying to all cases where the canal bank is used in any manner for the repairs of vessels, whether such vessels are actually hauled up or not. O. C. August 6, 1881. Con. O. C. Oct. 26, 1889, sec. 107.

DRY DOCK CHARGES.

Trent Valley Canal.

Sec. 38. The following tolls and dues shall be charged for the use of the dry dock at Bobcaygeon, and of any of the locks on the Trent Valley Canal, during the winter or other shorter period:—

For Vessels	Wintering.	Per day.	Per week.
Over 15 tons	\$30.00	\$4.00	\$12.00
15 tons and under	\$20.00	3.00	10.00
(O. C. Oct. 31, 1890.)			

Rideau Canal.

Sec. 39. The following tariff of tolls and regulations shall be, and the same are hereby established for the use of the dry dock on the Rideau Canal at Ottawa:—

(1)	Steamers entering dock	\$8.00
(-)	Each day or portion of a day after day of entrance	2.50
(2)	Barges entering dock	5.00
` ′	Each day or portion of a day after day of entrance	2.50
(3)	Steam yachts or launches	5.00
` '	Each day or portion of a day after day of entrance	2.50
(4)	Boats wintering in the dry dock from the close to the	
• ′	opening of navigation	50.00
	For every day such boat remains in the dock after the	
	opening of navigation	8.00
	415	

(5) No vessel of any class shall be in the dock over six days after notice is given in writing by the lockmaster that the dock is required for another vessel unless a satisfactory agreement between all parties interested is arrived at.

(6) All entrance and discharge of vessels are covered by entrance fee.

(7) All drying off of vessels of all classes in the locks at Ottawa or Hartwell's during the season of navigation is prohibited unless for special reasons.

The owners of vessels of all classes to render the required assistance to open

and close the gate under the supervision of the superintending engineer.

Vessel owners to supply all blocks, &c., to shove their boats up to make the necessary repairs, and all refuse to be properly cleared out to the entire satisfaction of the lockmaster before leaving the dock.

(O.C. Dec. 28, 1893.)

Sec. 40. The use of horses for towage purposes between the lower entrance of the Cornwall Canal and lock No. 20, be prohibited during the works of enlargement of that portion of the Cornwall Canal.

(O.C. Aug. 20, 1890.)

Sec. 41. As the prohibition of the use of horses for towing purposes, between the lower entrance of the Cornwall Canal and Lock No. 20 during the progress, of the works of canal enlargement, has entailed the use of tugs and consequently expenses to the parties concerned, that all tugs, used solely for the 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 of the works on that section. (O. C. Sept. 27, 1890.)

SPECIAL RATES FOR SEASON OF 1894 ONLY.

- Sec. 42. For season of 1894, the canal tolls for the passage of the following food products:—Wheat, Indian corn, pease, rye, oats, flax-seed and buckwheat, for passage eastward through the Welland Canal be ten cents per ton; and for passage eastward through the St. Lawrence Canals only, ten cents per ton; payment of the said tolls of ten cents per ton for passage through the Welland Canal to entitle these products to free passage through the St. Lawrence Canals. O. C. April 16 1894.
- Sec. 43. That for the current season of navigation of 1894 only in the case of steamers specially charted for the conveyance of excursion parties going and returning the same day, a reduction amounting to one-half of the usual tolls, be allowed for passage through the government canals. O. C. May 28, 1894.

APPENDIX No. 16.

RAILWAY STATISTICS

OF THE

DOMINION OF CANADA

For the year ended 30th June, 1895

Compiled by Mr. Thomas Ridout, C.E., from sworn Returns furnished by the several Railway Companies.

COLLINGWOOD SCHREIBER,

Chief Engineer of Railways and Canals.

Table showing the growth of Railways in Canada, from year to year, since the opening of the first line in 1836.

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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		1,414	1887	11,
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	857	1,444		12.
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	858		1889	12,
861 2,146 1892 1 862 2,189 1893 1 863 2,189 1894 1	859			13,
862 2,189 1893 1 863 2,189 1894 1				13,
863. 2,189 1894				14,
				15,
004				15,
1865	001		1000	15,

Summary statement	for	year ended	30th June,	1895 :
-------------------	-----	------------	------------	--------

Miles of railway completed (track laid).	16,091
do sidings	
do iron rails on main line	346
do steel do	15,745
do steel on double track	
Capital paid, including the four following items	\$894,640,559
Government bonus paid	158,621,646
do loans raid	21,569,149
do subscriptions to shares paid	300,000
Municipal aid paid	14,180,686
Miles in operation	15,977
Earnings	\$46,785,487
Working expenses.	32,749,669
Net earnings,	14,035,818
Passengers carried	13,987,580
Freight carried (tons)	21,524,421
Train mileage	40,661,890
Passengers killed	9
Number of grain elevators	53
do guarded level crossings	151
do unguarded do	10,430
do overhead bridges	398
do level crossings of other railways	218
do junctions do	316
do do branch lines	
do engines owned	1,948
do do hired	75
do sleeper and parlour cars owned	156
do do hired	
do first class cars owned	-,011
do do hired	
do second class and immigrant cars owned	
do do do hired	_
do baggage, mail and express cars owned	-,
do do do hired	
do cattle and box cars owned	
do do do hired	2,783
do platform cars owned	,
do do hired	
do coal and dump cars owned	,
do do hired	. 4

Nominal Capital Paid, up to 30th June, 1895.

	Miles constructed.	Amount.	Per Mile.	Remarks.
Ordinary share capital. Preference do Bonded debt. Aid from Dominion Government do Ontario do do Quebec do Now Brunswick Government. do Prince Edward Island Government. do British Columbia Government. do North-west Territories Government do Municipalities in Ontario. do do Quebec. do do New Brunswick do do Prince Edward Island	16,091 16,091 16,091 6,377 3,156 1,404 889 211 1,472 810 1,772 6,377 3,156 1,404 889 211	\$ cts 255,769,556 48 105,680,033 71 330,785,545 96 150,763,282 71 6,747,238 24 14,426,304 09 4,453,800 00 1,437,108 53 2,625,561 77 37,500 00 10,489,183 37 2,544,218 62 336,500 00 177,685 00	15,895 19 6,567 64 20,557 18 9,369 41 1,058 06 4,571 07 3,172 22 1,616 54 	I to an aver. Equal to an aver- of \$883.28 age of \$1,847.46 r mile on to- per mile on to- mileage. tal mileage.
do do British Columbia do North-west Territor's Capital from other sources	810 1,772	37,500 00 7,733,940 67	46 29	Equal to age of per mi
Total paid Capital.	\	894,640,559 15	-	-

GOVERNMENT and Municipal Loans, Bonuses, &c., promised to Railways completed and under construction up to 30th June, 1895:—

Dominion Gover	nment	\$	153,996,777	68
Ontario	do		7,265,538	24
Quebec	do		16,463,115	27
New Brunswick	Government		4,656,300	00
Nova Scotia	do		2,036,916	53
Manitoba	do		2,626,611	77
British Columbi	a do		37,500	00
Municipalities i	Ontario		10,783,642	78
do	Quebec		4,309,074	00
do	New Brunswick		356,500	00
do	Nova Scotia		269,685	00
do	Manitoba		595,600	00
do	British Columbia		37,500	
	Total	9.	203 434 761	

1

FATAL ACCIDENTS during year ended 30th June, 1895.

·	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.	1	9 5 6	85	25 20 3 9 6 1 91
Explosions	9	10 51	127	32

LAND GRANTS made by Governments to Railways, completed and under construction up to 30th June, 1895.

Name of Railway.	Government.	Acres Granted.	Acres Sold.	Amount Realized.
				*
Alberta Railway and Coal Co North-west Coal and Navigation Co. Calgary and Edmonton Canadian Pacific. do do do Great North-west Central. Manitoba and North-western Saskatchewan and Western Manitoba South-western Colonization Manitoba and South-eastern. Qu'Appelle, Long Lake and Saskatchewan. Winnipeg Great Northern. Wood Mountain and Qu'Appelle. Yarmouth and Annapolis Columbia and Kootenay Esquimalt and Nanaimo. Nelson and Fort Sheppard.	do do do do do do do do do do do do do d	‡Town sites net proceeds		1,101,733 11,867,285 10,189,521 1,167,958 Nil 953,911 1,243,344 Nil * Nil Nil Nil Nil Nil Nil Nil Nil

^{*}Again after efforts to obtain a statement of the amounts realized from the sale of these lands, the companies have failed to give the information—the return, therefore, in this respect is incomplete.

† Transferred back to the government at \$1.50 per acre.

‡ Outside of the grant of 26,772,800 acres.

TABLE showing Location of the Railways of the Dominion of Canada, 30th June, 1895.

	5	Dista	ince.
Name of Railway.	Description.	Miles.	Total.
Alberta Railway and Coal Co	From Lethbridge in District of Alberta, N.W.T., to Coutts, on International boundary. The portion from Dunmore to Lethbridge 1094 miles was changed to 4'.8½" gauge and leased to Can. Pac. Ry., 29th Nov.,		01.00
Albert Southern	1893 Harvey Branch Junction to Alma, N.B. Metapedia Station on C.P.R. to Caplin Descronto, on Bay of Quinté, Lake Ontario to Description		64.62 16.00 80.00
Buctouche and Moncton Brockville, Westport and Sault Ste. Marie	onto Junction, Grand Trunk Railway Moncton, on Intercolonial Railway, to Buctouche, N. B. Brockville to Westport, Ont		32·00 45·00
Calgary and Edmonton	Calgary to Edmontondo McLeod, District of Alberta	190 · 97 104 · 10	295.07
Canada Atlantic	City of Ottawa to Junction with Grand Trunk at Lacolle. Crosses the St. Lawrence at Coteau by bridge. Connects with Grand Trunk Railway at Coteau and Lacolle		138.00
Central Counties	From Glen Robertson, on Canada Atlantic, to Hawkesbury, Ont.		21.00
Canada Southern	Main Line—Windsor, Ont., to Suspension Bridge Amherstburg Branch—Essex Centre to Amherstburg St. Clair Branch—St Clair Junction to Courtright Fort Erie Branch—Fort Erie to Welland Junction. Erie and Niagara Branch—Old Fort Erie to Niagara Oil Springs Branch—Oil Springs to Oil City Sarnia, Chatham and Erie—Oil City to Petrolia	226·18 15·70 62·63 17·50 30·60 5·50 7·00	
do	Leamington and St. Clair—Comber to Leamington	15.95	381 06
Canada Eastern	Late Northern and Western of New Brunswick— Gibson, opposite City of Fredericton to Chatham Junction, I.C.R	107 00	
	Nelson Blackville to Indiantown	9·00 9·00	136.00
Canadian Pacific:	Main Line—Callander to Vancouver	2,560 90	100 00
(Canada Central)	do Ottawa to Callandar	223 60 120 30 159 80	
	Branches—Piles Junction to Grand Piles	26·90 2·00	
	do Joliette Junction to St. Félix	16.80 13.60 6.00	
	do St. Lin Junction to St. Lin	15.00 4.20 7.50	
Brockville & Ottawa Railway)	do Carleton to Brockville	45.00 182.50	
	do Sudbury to Copper Mines	5.00 64.50 100.10	
	do Rosenfeldt to Gretna	13.70 22.50	
	do Air Line Junction to Stonewall	18.00 156.20	l
	do Glenboro' to Souris	45.70 18.60 31.30	
	do Menteith Junction to Reston	160.30	
	minster]

		Dista	nce.
Name of Railway.	Description.	Miles.	Total
Canadian Pacific—Continued.	Branches—Mission Junction to Mission	10·10 10·00 1·20	
	Total mileage owned	4,049.50	
Leased lines	Atlantic and North-west (in Canada)— South end Lachine Bridge to Maine boundary, Que		
	Ottawa to Prescott, Ont. 51.80 Chaudière Junction to Sussex st., Ottawa. 6.60	58.40	
	Ontario and Quebec— Mile End Junction to South End Lachine Bridge		
	Credit Valley— Toronto Junction to St. Thomas		
	West Ontario Pacific—London to Woodstock	26.60	
·	Toronto, Grey and Bruce		
	Guelph Junction— . Guelph Junction on Credit Valley Ry. to Guelph	191 30 15 00	
	Montreal and Western- St. Jérôme to Labelle	70.00	
	St. Félix to St. Gabriel de Brandon	12.50	
	Vaudreuil to Point FortuneSt. John and Maine—	23 60	
	Carleton, N. B., to Vanceboro'. New Brunswick Railway (in Canada)— Gibson to Woodstock. 62.90 Newbury Junction to Edmundston 105.50 Aroostook Junction to Boundary 5.00 Fairville to St. John River 0.55		
	Fairville to St. John River	173·95 1·75	
	Debec do Maine boundary 5 · 00 Fredericton Railway—	117 20	
	Fredericton Junction to Fredericton Tobique Valley— Perth to Plaster Rock, N.B.	22 10	

		Dista	ance.
Name of Railway.	Description.	Miles.	Total.
Canadian Pacific—Continued. Leased lines	Manitoba South-western Colonization— 101 00 Manitoba to Deloraine 104 20 Winnipeg to Glenboro 12 60 Elm Creek to Barnsley 12 60 Columbia and Kootenay—Robson to Nelson—	217 · 80	
	Kootenay Lake to Columbia River Shuswap and Okanagan— From Junction with C.P.R. at Sicamous to Lake Okanagan	27·70 51·00	
	Nakusp and Slocan— Nakusp on Arrow Lake to Three Forks of Carpenter's Creek, B.C Alberta Railway—	36.90	
	Dunmore to Lethbridge, N.W.T		2,124 · 60
	do owned		4,049·50 6,174·10
Canadian Government Railways.	Intercolonial	1,140 00	
	Main Line—Alberton to Georgetown 147 00 Branch—Mount Stewart to Souris 38 40 do Alberton to Tignish 13 10 do Emerald 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.		1,350·60 68·00
Carillon and Grenville	Carillon to Grenville, Que., connecting at both termini with Ottawa River Navigation Company's steamers (Gauge, 5 ft. 6 in.)		13.00
Central Ontario	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 From Hampton to Quaco (formerly St. Martin's and Upham Railway)	45.00	
	423		75.00

V 40 "		Dista	ince.
Name of Railway.	Description.	Miles.	Total.
	Spring Hill Junction, Intercolonial Railway, to Spring Hill Coal Mines, N.S., and Parrsboro', on the Bay of Fundy	32·00 14·00	
Drummond County	Ste. Rosalie, Que., junction with Grand Trunk Railway, to St. Leonard, thence to Moose Park towards Chaudière. St. Leonard to Nicolet and Ball's Wharf, on the St. Lawrence. Mitchell to Burrill's Mill.	72·97 17·06 ·50	46.00
Elgin and Havelock	From Elgin, County of Albert, N.B., to Petitcodiac Junction with Intercolonial Railway; thence to Havelock, in County of King's		90·53 27·00
Erie and Huron	Rondeau, Lake Erie, Ont., to Sarnia, passing through the town of Chatham, Ont., connects with Canada Southern and Great Western and Lake Erie and Detroit River Railways		76 ·75
Esquimalt and Nanaimo	Victoria to Wellington, Island of Vancouver		78:00
Grand Trunk (owned)—	Over the St. John River, connecting the Fredericton Railway, at Fredericton, with the New Brunswick Railway and Canada Eastern Railway at St. Mary's		1.33
Main Line	From Point Edward to Point Lévis and Boundary Line, Vermont From Niagara Falls to Windsor	719·33 229·32	948 65
Branches	Connections at Toronto with G.W. and N., and N.W. Montreal to Dorval. Sarnia Extension—Point Edward to Sarnia. Montreal Landing to Wharfs. Arthabaska to Doucet's Landing Kingston—Main Line to Kingston City. Waterloo and Berlin to Galt. St. Mary's to London. St. Lambert to Boundary Line, N.Y., and St. Isidore to Province Line. Blackwell to St. Clair Tunnel. Port Dover to Wiarton, Durham and Port Rowan. Brosseaus to Dundee and Valleyfield. Jacques Cartier to Canadian Pacific Junction. Waterloo to Elmira. Belleville to Midland. Lindsay to Scarboro' Junction do Haliburton Whitby to Manilla. Lakefield Junction to Lakefield. North Hastings Junction to Eldorado. Blackwater to Coboconk Port Hope to Omemee. Millbrook to Peterboro' Stouffville to Lake Simcoe. Peterboro' to Chemong Lake Coldwater to end of track. Connection, Merritton. do Stony Creek.	22 00 65 50 5 00 189 75 81 14 6 54 10 17 163 96 60 35 54 20 33 73 11 66 22 21 36 35 32 05 12 35 26 46 8 22 1 0 17	

47.11	D		Distance.	
Name of Railway.	Description.	Miles.	Total.	
1 m 1	Loop Court (N. and N. W. Diam.)	0.40		
	Loop Gages (N. and N.W. Divn.)	0·48 36·64		
	Loop Junction Cut Branch	0.36		
Ì	Connection, Burlington Branch, East	0.13		
	do do do West Harrisburg to Guelph	$0.21 \\ 27.18$		
	Connection do (W. G. and B.)	0.11		
	Harrisburg to Brantford	7.76		
ļ	Brantford Branch Junction with G.T	0.13		
	Komoka to Sarnia Wyoming to Petrolia	50·85 4·71		
	Fort Erie to Glencoe.	145 55		
	Connection, Welland Junction, East	0.26		
	do do Westdo Canfield Junction	0.50 0.19		
	do Simcoe (G. B. & L. E.)	0.24		
j	East Y, St. Thomas	0.32		
	Allanburg to Clifton Junction Port Colborne to Port Dalhousie	8 · 33 25 · 14		
	Glencoe to Kingscourt Junction.	21.04		
	Guelph to Southampton	101 26		
	Palmerston to Kincardine do connection			
	do connection	68.88		
İ	Connection, Clinton Junction	0.13		
	Brantford Loop Line.	34.78		
,	Toronto Belt Line, Swansea to Carleton	4·37 8·33		
	Toronto to Gravenhurst	111.60		
!	Allandale to Collingwood	31.76		
	Hamilton to Allandale	93·82 40·25		
	Collingwood to Meaford	20.50		
	Limvale to Hillsdale	8.28		
	Gravenhurst to Nipissing Junction with C.P.R	39·83 111·37		
	Colwell to Penetanguishene.	33.34		
	Park Head to Owen Sound	12.42		
	Cobourg to Harwood	15.00	2,049 ·	
	Total owned		2,998	
	Leased and partly owned—		100	
•	Buffalo and Lake Huron, Fort Erie to Goderich Leased or rented—		162	
	Wharf Branch, Montreal	• • • • • • • • • • • • • • • • • • • •	1.	
	Total miles in Grand Trunk system		3,161	
it. 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		2.	
N 4577 4	inches.)	1		
Great_Eastern	Constructed from junction with South-eastern Railway	6.00		
	at Yamaska to River St. Francis Constructed from Nicolet to Junction with Grand	0.00	İ	
	Trunk Railway at St. Grégoire	7.00	Į	
	Trank Tours at St. Gregorie			
Great Northern	From St. Jérôme to Montcalm.		13 28	

		Dista	nce.
Name of Railway.	Description.	Miles.	Total.
Hereford	From International Boundary to Dudswell, County Wolfe, connects with Canadian Pacific Railway at Cookshire, Maine Central at International boundary, and with Quebec Central at Dudswell	48·43 4·57	53:00
Irondale, Eancroft and Ottawa	From junction with Grand Trunk Railway near Kin- mount Station, to Wilberforce		30.00
Joggins, now Canada Coals and Railway Co Kent Northern St. Louis and Richibucto	Maccan Station, I.C.R., to Joggins Mine Richibucto, N.B., to Intercolonial Railway Richibucto to St. Louis	27·00 7·00	12·00
Kingston and Pembroke	Main Line—Kingston to Pembroke Glendon Branch—Bedford to Zanesville Mine. Robertsville Branch—To Robertsville Mines. Branches—To Doran's Mills, Charcoal Works, McLaren's Mills, Betbune's Mines, Lavant Mills,	103·10 4·00 1·00	<i>5</i> 4 00
	Clyde Forks Mills and Francis Mills (Connects with Grand Trunk at Kingston, Canadian Pacific at Sharbot Lake and at Renfrew.)	4 75	112 85
Kingston, Napanee and Western.	Late Napanee, Tamworth and Quebec:— Napanee to Tamworth. Yarker to Harrowsmith Tamworth to Tweed. Harrowsmith to Sydenham.	28·50 7·00 20·95 4·37	
Lake Erie, Essex and Detroit	Lyster Station, Grand Trunk, to Ste. Philomene L'Epiphanie Station, C.P.R., to L'Assomption		60 · 82 23 · 34 3 · 00
Lake Témiscamingue Colonization Railway. London and Port Stanley Lower Laurentian (formerly St.	Branch—Foster's to Decew's Mills	4.00	88 · 05 45 · 84 23 · 75
Lawrence, Lower Laurentian and Saguenay)	From St. Tite, on C.P.R., to Rivière à Pierre, on Quebec and Lake St. John Railway Portage la Prairie to Yorkton Shell River Branch—Binscarth to Russell Leased—Saskatchewan and Western—Minnedosa to	223·05 11·45	39.50
Manitoba and South-eastern	Rapid City	15.47	249 · 97
Montfort Colonization	From junction with Montreal and Western near St. Sauveur to Montfort, and westward		21.0
	necting with Connecticut and Passumpsic Rivers Railway; also connects with Grand Trunk and C.P.R. at Lennoxville Branch—Stanstead Junction to Stanstead	32 · 60 2 · 00	
Montreal and Vermont Junction.	From Junction with Stanstead, Shefford and Chambly Railway, 2½ miles east of St. Johns, P.Q., to Junction with Vermont and Canada Railway, at Vermont boundary; also connects at Stanbridge with Lake		
Montreal, Portland and Boston	Champlain and St. Lawrence Junction Railway Junction with Grand Trunk at St. Lambert to Farnham	32.00	23 6

		Dista	nce.
Name of Railway.	Description.	Miles.	Total.
Montreal and Atlantic (formerly South-eastern)	Main Line—West Farnham to Richford on Interna- tional Boundary	33 80 95 50 10·80	
	Leased—Lake Champlain and St Lawrence Junction—Stanbridge to St. Guillaume (Connects with Connecticut and Passumpsic, Grand Trunk and Stanstead, Shefford and Chambly Rys.)	140·10 61·40	201 · 50
Montreal Park and Island (electric) Nelson and Fort Sheppard	Suburbs of city of Montreal. From West Arm of Kootenay Lake, near Nelson, to Fort Sheppard on International boundary, B.C		22·03
New Glasgow Iron, Coal and Rail- way Company	From Seckville Station, Intercolonial Railway, to Cape		12·50 36·00
Nıagara Falls Park and River Electric Railway Northern Pacific and Manitoba	Queenston to Chippewa Winnipeg to International boundary Winnipeg to Portage la Prairie Morris to Brandon Connection with C.P.R. at Winnipeg	65 · 94 52 · 64 145 · 82	13·68
Nosbonsing and Nipissing Nova Scotia Central	From Lake Nosbonsing to Lake Nipissing From Middleton on the Windsor and Annapolis Railway, to town of Lunenburg, on the Atlantic		265 · 64 5 · 50
Orford MountainOttawa and Gatineau	coast, N.S. Eastman, on C. P. R., to Kingsbury, Que Canadian Pacific Railway Junction at Hull, Que., to Wright, Pickanock River		74·00 26·50 54·60
Ottawa, Arnprior and Parry Sound Ottawa Valley Parry Sound Colonization	Ottawa to Whitney. Lachute, on C.P.R., to St. Andrews on Ottawa River From Scotia, on Northern and Pacific Junction Rail-		7.00
Philipsburg Pontiac and Renfrew	Vermont Railways, to Philipsburg From Wyman's Station, on Pontiac Pacific Junction		6.75
Pontiac Pacific Junction	Railway, to Bristol Iron Mines, County Pontiac, Que From Junction with Canadian Pacific Railway at Aylmer, Que., to Walthan Port Arthur to Gunflint Lake on Minnesota boundary		4·25 70·60 85·50
Qu'Appelle, Long Lake and Sas- katchewan	(Connects with C. P. R. at Port Arthur and Fort William.) From Canadian Pacific Railway at Regina, north-westerly to Long Lake and Prince Albert		253 · 96
Quebec and Lake St. John Quebec Central	Chambord Junction to Chicoutimi	191.00	242.00
	colonial Railway, 5 miles from Lévis, Que Chaudière Branch, Beauce Junction to St. Francis Angus Branch- East Angus to Angus Mills (Connects with Grand Trunk, Canadian Pacific and Boston and Maine Rys. at Sherbrooke.)	137 50 15 00 1 00	153 · 50
Quebec, Montmorency and Char- levoix	Hedleyville, Parish of St. Roch, Quebec, to Cap Tourmente		30 00

TABLE showing Location of Railways, &c .- Concluded.

		Dista	nce.
Name of Railway.	Description.	Miles.	Total.
Stanstead, Shefford and Chambiy	From Junction with Montreal and Vermont Junction Railway,near St. Johns, Que., easterly to Waterloo.		43.00
Shore Line (formerly Grand Southern)Stewiacke Valley and Lansdowne			82.50
St. Catharines and Niagara Cen- Ttral	St. Catharines, Ont., to Niagara Falls		12:35
St. John Valley and Rivière du	From Fredericton, N.B., to Woodstock, N.B. (6 miles		1.75
Salisbury and Harvey (formerly Albert Railway)	Salisbury to Albert, N.B. Coverdale to Wright's Mill Hillsborough to Gray's Island. Albert to Prescott's Mill.	1.00 1.00	
Harvey BranchSt. Lawrence and Adirondack	Stony Creek to Manganese Mine Albert to Harvey Bank, N.B	1.25	49·25 3·00 20·31
South Shore (formerly Montrea and Sorel)	From Junction with Grand Trunk at St. Lambert to Armstrong, opposite Sorel	39.15	44.67
Sydney and Louisbourg (Dominior Coal Co)			64.90
Thousand Islands Témiscouata		81 00	4.33
Toronto, Hamilton and Buffalo including Brantford, Waterloo and Lake Erie	Waterford Junction with Canada Southern Railway to West Brantford.	17:00	113.00
United Counties	West Brantford to City of Hamilton	25.66	42.66
Victoria and Sidney Dominion Atlantic, embracing Windsor and Annapolis and	Montreal and Atlantic, 44 miles from Sorel City of Victoria to Sidney, Vancouver Island		61·00 16·26
Yarmouth and Annapolis Rys	Windsor to Annapolis, N.S. Annapolis to Yarmouth. Branches— Wilmot to Forbrook	84·00 87·00 3·50	
	From Kentville to Kingsport, on Basin of Minas (formerly Cornwallis Valley Railway). Windsor Branch of I.C.R.—Windsor to Windson Junc., Intercolonial Railway, 14 miles from Halifay	14·00	
Winnipeg and Hudson Bay, nov Winnipeg Great Northern	. Winnipeg to Port Nelson on Hudson Bay (Constructed 40 miles, Winnipeg to St. Laurent or		220.50
Wood Mountain and Qu'Appelle	Lake Manitoba). From Canadian Pacific Railway, near Qu'Appelle, Station, to Fort Qu'Appelle, thence north-easterly (17 miles under construction.)		40.00

No. 1.—Summary Statement of Capital for the Year ended 30th June, 1895.

	LENGTH OF LI		ORDINARY SHARE CAI			erence Share Capital.		Bonder	р D евт.			VERNMENT AID.			The second secon	Provincial Gov	VERNMENT AID.		Municipal Aii	• • • • • • • • • • • • • • • • • • •	Capital from	OTHER SOURCES,	Total Capi	TAL.	FLOATING DEBT.		
NAME OF RAILWAY.	Completed. U1	nder			Authorized.	Subscribed Pai	up. Authoriz	ed. Issued.	Sold.	Rate of Loan.	Bonus,	Subscription to Shares or	Paid up.	Province.	Loan.		Subscription to Shares or Paic	!		ription Paid up				Dil	Rate	Cost of Railway	REMARKS.
Number	(Rails Laid.) ti	i		Paid up.	Authorized), and the second secon				Interest.	-i	Bonds.					Bonds.		1	nds.	Subscribed.	Paid up. S	Subscribed.		Amount. of Interest	t.	X may
1 α+Alberta Railway and Coal Co	Miles. M 174 12 16 00	iles. \$ 6 742,429 1 150,000 6		\$ ets. 742,429 29 125,920 00	\$ cts.		ets. \$ 000 00 3,187,66: 150,588		50 3,187,662 50	66	50,460 00 (*1,422,000 00		50,460 00 426,600 00	New Brunswick	8 ct	52,500 00	8 ets. 8	ets. 8 0	ts. \$ ets. \$	cts. \$	ets. \$ ets 550,000 00	\$ cts. 550,000 00		8 ets. 5,480,091 79 224,880 00	8 cts. per cent 233,887 59 0, 4 and 7 531 94 Nil.		1 Dominion land grant.
2 Albert Southern 3 aAtlantic and North-west 4 Baie des Chaleurs	205 00 80 00 4 00	1,000,000 (3,000,000 (500,000 (300,000 00	176,000 00 30,000 00 77,000 00	1,795,500 00	1,795,500 00 1,795	500 00 3,885,060 2,000,000 80,000	00 2,000,000 0	00	5	156,800 00 620,000 00 62,400 00		156,800 00 620,000 00 58,900 00	do Ontario		711,122 02	820,	192 08	40,500 00 325, 5,000 00	000 00 325,000 5,000	00	••••••	3,949,046 00 1 165,500 00	142,500 00	Nil. 108,959 31 Nil.	1,692,907 38 118,313 87	3 (*Payable in half-yearly instalments of \$35,550 each, for 20 years, commencing 1st July, 1889. †Also \$468,571.75 included in Canadian Pacific Railway.
6 Beauharnois Junction. 7 Brantford, Norfolk and Port Burwell. 8 Brockville, Westport and Sault Ste. Marie. 9 Buctouche and Moncton.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1,125,000 (250,000 (1,125,000 00 250,000 00		11,972,000 00	2,555,657 00 2,555	1,125,000 310,000 3,716,958	00 310,000 0 59 3,715,982 1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5 6	192,000 00 102,400 00		105,200 00	Öntariodo do New Brunswick Ontario		96,000 00	68,	00 00	116,000 00 966,000 00	116,000	00		68,000 00 2,558,000 00 758,400 00	237,973 00 68,000 00 2,471,200 00 756,600 00 7,237,639 20	Nil. Nil. 28,472 02 2,400 00	291,998 59	Amalgamated with Grand Trunk Ry. do do *Contractor paid by shares and bonds at par and bonuses.
10 bBuffalo and Lake Huron. 11 Calgary and Edmonton. 12 Canada Atlantic.	295 · 07 138 · 00	1,000,000 (2000 200 00		1,000,000 00		5,458,940 000 00 4,650,000	00 3,450,000 (5,458,940 00 00 3,450,000 00 33 1,823,333 33	5 and 6	282,355 20 1,525,250 00		282,355 20 1,525,250 00 0	(Ontario(Quebec)		270,000 00 200,000 00 1,479,000 00		000 00 1 000 00 1	49	500-00 42.500	00		6,458,940 00	5,458,940 00 7,194,355 20	Nil. Nil.	*3,717,882 00 7,004,968 00	10 Ordinary share capital converted into Grand Trunk shares. 11 *Exclusive of rolling stock—Dominion land grant. 12
13 aCanada Central 25 00 Brockville and Ottawa 45 00 14 Canada Eastern 358 11 15 Canada Southern 7 00	381 06	1,000,000 (15,000,000 (60,000 (00 15,000,000 00 60,000 00				1,854,174 20,000,000 600,000 163,630	00 19,573,707 0 00 66,000 0	,	5	371,639 84		1770,000	New Brunswick Intario Intario		400,000 00 147,858 65	397,	500 00 20,000 0	00 322,500 00	322,500	281,093 16		2,072,733 00 2 5,044,065 65 35 126,000 00	2,045,433 00 5,044,065 65 126,000 00	Nil. 13,391 13 Nil. Nil. Nil.	2,045,433 50 28,586,790 21	13 *Included in Canadian Pacific Ry. 14 15 (Dominion land grant.
Sarnia, Chatham and Erie 15-95 Leamington and St. Clair 15-95 aCanadian Pacific 2anadian Government Railways 2 miles at	3,413 00	65,000,000		50,000 00 . 65,000,000 00 .		6,424,000 00 c*6,424		,	00 +98,922,885 00	3½, 4 & 5	25,080,000 00		05 000 000 00	(Manitoba British Columbia		. 237,377 50 37,500 00	274,8	77 50	487,500 00	33,000 487,500		20;	269,200 00 3,767,262 50 196	269,200 00 3,137,262 50	Nil.	269,200 00 159,365,934 70	18
19 Intercolonial, including Windsor Branch, 32 Miles, Dartmouth Branch, 4 miles	210 60									······································	55,007,939 40 3,750,565 38 31,014,163 78		55,007,939 40 3,750,565 38 .										5,007,939 40 55 3,750,565 38 3		Nil.	55,007,939 40 3,750,565 38	Lake branch, but which 10 miles is not returned as under traffic. 19 Windsor branch is operated by Dominion Atlantic Ry. Co.—Dartmouth branch is 20 [not in operation.]
transferred to the Canadian Pacine Railway Co. up June, 1895. 21 Caraquet Corillon and Granville	68.00	950,000 (200,000 (17 00 500,000 (00 100,000 00	950,000 00 . 100,000 00 . 315,000 00 .		300,000 00 300	500,000 950,000 900 00 2,200,000	380,000 0	210,000 00	5	224,000 00	3		Vew Brunswick Ontariodo		180,000 00	180,0	00 00	24,000 00	17,000		1	100,000 00 854,000 00	,854,000 00 100,000 00 542,000 00	Nil. 17,313 06	31,014,163 78 1,013,500 00 103,684 72 *433,300 00	21 22 23 *Exclusive of rolling stock.
23 Central Counties 24 Central Ontario 25 Central of New Brunswick, including St. Martin's and Uphan 30 miles 26 Coast Line, N.S.	75·00	450,000 0 900,000 0 1,000,000 0	900,000 00	450,000 00 900,000 00 51,000 00	300,000 00	300,000 00	900,000	900,000 0		6	207,251 54			New Brunswick	26,000 00	284,600 00	284,6	00 00	93,500 00	93,500 (. 75,191 44		2,367,042 98 51,000 00	,170,000 00 ,319,042 98 51,000 00 158,240 00	Nil. 75,191 44	1,513,190 61 702,861 67	24 25 Under construction.
27 bCobourg, Blairton and Marmora 28 aColumbia and Kootenay 29 aCredit Valley 30 Cumberland Railway and Coal Co	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1,000,000 (1,000,000 (650,000 (1,000,000 00	25,000 00 1,000,000 00 400,000 00			15,000 p. 1			4	88,800 00 39,850 00 297,920 00		88,800 00 0 39,850 00 N 287,936 00 Q	uebec		531,000 00 173,650 00 549,000 00	531,0 173,6	00 00	1,085,000 00	1,085,000 (00		1,032,300 00 1,616,000 00 1, 1,213,500 00 1,	807,300 00 616,000 00 213,500 00	Nil. Nil. Nil. Nil. 32,271 28 0 and 6	837,160 44	27 Amalgamated with Grand Trunk Ry. 28 †Also \$15,230.26 included in C.P.R. *Exclusive of rolling stock—British Columbia 29 *Share capital and cost of railway included in Ontario and Quebec Ry. [land grant.] 30 The branch from Springhill to Oxford is not in operation.
31 Drummond County 32 Elgin and Havelock 33 Erie and Huron 34 Esquimalt and Nanaimo.	27 00 76 75 78 00 22 10	125,000 (150,000 (3,000,000 (500,000 (00 125,000 00 00 109,000 00 00 1,500,000 00	30,000 00 109,000 00 1,350,000 00 319,280 00			Nil. 740,000	100,000 0	0 100,000 00	5 6	82,652 82 96,000 00 750,000 00		96,000 00 O 750,000 00 N	lew Brunswick		107,500 00 83,000 00 230,000 00		00 00	13,000 00 257,500 00 80,000 00	13,000 (257,500 (80,000 (00 46,422 39 1,034,078 44	46,422 39 1	328,152 82 ,331,922 39 1, 3,284,078 44 3,	233,152 82 331,922 39	Nil. 46,422 39 34,078 44 6	. 586,994 19 1,331,922 39	Under a new company—incorporated under name of Elgm and Havelock. British Columbia Government land grant.
35 aFredericton 36 Fredericton and St. Mary's Railway and Bridge Co 37 bGrand Trunk. 38 bGrand Trunk, Georgian Bay and Lake Erie 38 bGrand Trunk, Georgian Bay and Lake Erie	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	400,000		20,000 00 109,383,126 06	89,245,202 10	89,244,198 19 89,244	300,000 198 19 - c167,253,996 100,000	75 c75,243,255 9- c912,500 00	4 75,243,255 94 0 912,500 00	4 and 5 300,000 00 15,142,633 33	48,000 00 21,888 00	1	330,000 00 5,142,633 33 	ntariodo		336,000 00		00 00	929,000 00 85,500 00	929,000 (85,500 (0	289	0,013,213 52 289, 0,177,500 00 2, 233,500 00	013,213 52 ** 177,500 00 ** 225,244 00	19,060 98 6 * Nil. Nil. Nil.	419,586 75 +327,269,546 04	
40 40 Grand Junction and Belleville and North Hastings 41 Great Eastern 42 Great Northern Great North-west Central	85 40 13 00 28 00 50 93	15 00 10 00 3,000,000 2,000,000	310,000 00	1,150,000 00 310,000 00 500,000 00			3,000,000 4,520,000 2,500,000	00 270,000 00	0	5	104,345 00		21,888 00 40,345 00 89,088 00	do uebec do		224,660 00	82,69	99 25 90 00	213,000 00 50,0 20,000 00 50,0	00 00 263,000 0		62,900 00 1, $389,074 23$ 3,	,430,345 00 1, ,384,238 00 ,389,074 23	889,074 23 38	Nil. Nil. 62,900 00 7 89,074 23	276,500 00 836,500 00	40 Amalgamated with Grand Trunk Ry. 41 42 43 *In litigation—Dominion land grant.
44 bGreat Western	561 80 15 00 173 90 3 00 53 00	30,000 60,000 800,000	49,500 00	1,000 00 32,500 00 800,000 00			232,500	00 c1,992,413 3:	3 1,992,413 33	4	9,600 00			doew Brunswick		565,020 00 9,000 00 103,000 00	565,02 9,00 103,00	00 00	20,0	00 00 193,000 0 599,805 0		3,	249,000 00 ,157,238 33 3, 68,100 00	157,238 33 47,053 57	Nil. 36,523 38 Nil. Nil. Nil.	*244,969 11 30,410 97	44 Amalgamated with Grand Trunk Ry. 45 *Exclusive of rolling stock. 46 Amalgamated with Grand Trunk Ry. 47
Harvey Daniel Hereford, including Dominion Lime Co.'s Line	$\begin{array}{c c} & 30.00 \\ & 6.50 \\ & 12.00 \\ 0 \end{array}$	9,000,000	00 53,500 00 *350,000 00	53,500 00 350,000 00 50,000 00	100,000 00	66,800 00 66,	4,500,000	00		58,334 27	160,000 00 . 37,500 00 .			ova Scotiaew Brunswick		35,200 00 35,200 00	60,00 35,20 135,20	0 00					333,500 00 489,500 00	873,560 00 209,500 00 84 	46,500 00	168,061 25	48 *Contract for construction payable in shares and bonds. 50 Amalgamated with Grand Trunk Ry. 51 *Part of general share capital of company.
53 St. Louis and Richibucto	60·82 112·85 3·00	75,000 750,000 5,000,000 19,000	00 44,500 00 00 4,485,000 00 19,000 00	44,500 00 4,408,800 00 10,000 00			1,220,000 2,821,250	00 572,000 00	0 572,000 00	6	22,400 00 . 268,400 00 . 48,000 00 . 11,200 00 .		22,400 00 208,732 80 48,000 00 11,200 00 Qu	ntario do		21,000 00 90,000 00 456,493 00 3,675 00		3 00	162,500 00 491,000 00 1,500 00	162,500 0 491,000 0 1,500 0	0 18,320 00	1, 18,320 00 6,	100,400 00 ,290,400 00 ,070,813 00 ,5,9	63,400 00 125,208 67 994,613 00	Nil. Nil. 52,738 00 0 0 to 7	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	52 53 54 55 56
Lake Champlain and St. Lawrence Junction Lake Erie and Detroit River. Lake Temiscamingue Colonization London, Huron and Bruce	61 40 88 05 45 84 69 01	1 36 100,000 1,250,000 100,000	00 250,000 00 50,000 00	25,000 00			900,000	900,000 00		6	342,400 00 . 327,700 00 .		338,731 00 O ₁ 285,958 95 Q ₁ O ₁			250,280 00 308,255 01 178,630 00	250,28 308,25 178,63	5 01	51,000 00 87,500 00 . 311,500 00	36,000 0 87,500 0	7,289 18	7,289 18 1,	279,280 00 1,: 587,189 18 1,: 685,955 01 (264,280 00	50,000 00 6 Nil.	1,412,344 80	oo In Montreal and Atlantic system. The Montreal and Atlantic system.
61 London and Port Stanley. 62 Lotbinière and Mégantic 63 Lower Laurentian 64 Manitoba and North-western 65 Manitoba and South-eastern	23 75 23 34 39 50 234 50	2:00 730,000 500,000 1,500,000 12,000,000 8:00 750,000	00 500,000 00 00 500,000 00 5,837,500 00	50,000 00 500,000 00		415,000 00 415,	780,000	00	3,409,100 00	5 and 6	96,000 00 217,600 00		73,600 00 217,600 00 		649,934 27	87,500 00 168,000 00			215,600 00	00 00215,600 00		220,000 00 1,1 10,2	$683,500 \ 00 \ 130,600 \ 00 \ 1,1 \ 527,134 \ 27 \ 10,3$	527,134 27 1,440	Nil. Nil. 0,000 00 6,315 78	$egin{array}{c cccc} *720,311 & 00 & 6 \ & 144,296 & 36 & 6 \ & 615,000 & 00 & 6 \ \end{array}$	*Exclusive of rolling stock. Dominion land grant.
66 aManitoba South-eastern Colonization. 67 Massawippi Valley. 68 bMidland. 69 Montford Colonization.	217 80 34 00 166 78	1,000,000 800,000	00 700,000 00 735,000 00	700,000 00			3,744,000	c7,449,406 66 147,000 00	7,449,406 66	5	105,600 00		M Qt	anitoba nebec ntario nebec	900,000 00	168,350 00 73,500 00	900,00 168,35 73,50	0 00	144,870-85	0 00 65,000 00 144,870 8		4,2 8 7,7	$ \begin{array}{c cccccccccccccccccccccccccccccccc$	216,000 00 N 300,000 00 N 52,627 51 N	1,608 03 0 and 8 Nil. Nil. Nil. Nil. Nil. Nil. Nil. Nil.	*3,353,857 84 6 800,000 00 6	*Under construction. **Inder construction. *Also \$46,638 76 included in Canadian Pacific Ry.—Dominion land gran **Also \$46,638 76 included in Canadian Pacific Ry.—Dominion land gran **Also \$46,638 76 included in Canadian Pacific Ry.—Dominion land gran
70 Montreal and Atlantic, formerly South-eastern 71 bMontreal and Champlain Junction 72 aMontreal and Lake Maskinongé 73 aMontreal and Ottawa	140·10 61·75 12·90 23·60	3,200,000	25,000 00	25,000 00			1,065,000 100,000 17,500 p. n	c501,753 34 00 100,000 00	501,753 34 100,000 00	5	103,600 00 41,280 00 192,000 00		103,600 00 41,280 00 73,600 00	do		497,007 10 150,000 00 87,750 00 100,000 00)	497,00 150,00 87,75 129,710	0 00	21,774 00	0 00 528,000 00 21,774 00		607,701 65 5,8 	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	32,708 75 77,127 34 254,030 00	7,273 00	307,193 00 4,834,343 64 7 254,335 16 7	10 Anadgamated with Grand Trunk Ry.
74 Montreal, Portland and Boston. 75 Montreal and Vermont Junction. 76 Montreal Park and Island (Electric) 77 aMontreal and Western	40.60 23.60 22.03	900,000 1,000,000 500,000	900,000 00 1,000,000 00 500,000 00	358,700 00 .			1,000,000 200,000 330,450	00 1,000,000 00 200,000 00	1,000,000 00 .	6			361,270 00 Ou	do		129,710 00 5 231,122 00 5	231,122	2 00	5,300 00 25,000 00	5,300 00 25,000 00		2,1 1,2	156,122 00 2,1 200,000 00 1,2	56,122 00 N	Nil. Nil. Nil. 9.334 27 6	*389,707 14 73	3 *Also \$50,221.19 included in Canadian Pacific Ry. No reliable return of capital can be obtained as original books of company have been do [lost or destroyed—operated by Central Vermont Ry]
78 aNakusp and Slocan. 79 Nelson and Fort Sheppard. 80 aNew Brunswick. 81 aNew Brunswick and Canada	70.00 36.90 55.00 173.95	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	00 300,000 00 00 1,500,000 00 00 3,000,000 00	30,000 00 1,500,000 00 3,000,000 00			925,000 1,500,000 3,000,000 569,067	90 1,500,000 00 90 6,869,660 56	1,350,000 00 6,869,660 56	4	361,270 00 121,600 00		117,760 00	w Brunswick.		76,000 00 76,000 00	76,000	00	23,000 00	23,000 00		1,0	$ \begin{array}{c cccc} & 01,770 & 00 & & 1,1 \\ & 069,100 & 00 & & & 7 \\ & 000,000 & 00 & & 2,8 \\ \end{array} $	06,770 00 111	1,703 91 8 0,000 00 6 Nil.	$egin{array}{c cccc} 1,215,312&34&&77\\ 665,250&00&&78\\ 1,001,917&48&&79 \end{array}$	7 3 10 miles at northern end are not included in Canadian Pacific system. 8 9 British Columbia land grant.
 82 New Brunswick and Prince Edward Island. 83 New Glasgow Iron, Coal and Railway Co., now Nova Sc Steel Co. 84 Niagara Falls Park and River Electric Railway. 	12·50 13·68	1,730,300	212,850 00	212,850 00			400,000	00 100,000 00	100,000 00	5 and 6	113,440 00 56,000 00		113,440 00 No	do		105,000 00	575,000 105,000 40,000	00	4,000 00	47,500 00	*118,134 28	118,134 28 2	$\begin{bmatrix} 32,367 & 66 \\ 331,236 & 66 \\ 218,134 & 28 \end{bmatrix} = \begin{bmatrix} 1,7 \\ 5 \\ 19 \end{bmatrix}$	74,957 00 31,290 00 96,534 28 N	Nil. Nil.	281,566 27 8:	0 *Including securities of leased lines acquired - cost \$1,763,333_13_ 1 *From return of 1880, 2 3 *From general capital of company which could not be divided.
85 6 Northern	33 34	1,000,000					6,010,000	c4,755,657 98 		5	1,320,000 00	i,	,320,000 00 Ma	tariodo		196,188 00 83,300 00 533,300 00	196,188 83,300 532,250	00	241,980 00 390,00	631,980 00		5,5 1,3	$ \begin{vmatrix} 62,568 & 16 \\ 83,825 & 98 \\ 83,300 & 00 \\ 20,000 & 00 \end{vmatrix} $ $ \begin{vmatrix} 1,2 \\ 5,50 \\ 1,3 \end{vmatrix} $	63,543 16 762 83,825 98 N 83,300 00 N 20,000 00 N	2,568 16 4½, 5½, 6 Vil. Vil. Vil.	909,204 96 89	Amalgamated with Grand Trunk Ry. do do do do do do
89 aNorth Shore, Montreal to Quebec 90 Nosbonsing and Nipissing 91 Nova Scotia Central 92 Nova Scotia Southern	5 50 74 00	1,000,000 250,000 1,000,000	00 250,000 00 1,000,000 00	250,000 00 .	1,000,000 00	1,000,000 00 700,	2,800,000	1,000,000 00		5	*954,000 00 } 1,500,000 00 }		,454,000 00 Qu 230,700 00 No		2,546,000 00	432,261 08	2,546,000	00			233,000 00	6,6	516,120 00 6,1 50,000 00 2:	50,000 00 N	Vil.	237,800 00 90	8 *Dominion Govt. pay to Quebec Govt. 5 p. c. per annum on this amount.
93 aOntario and Quebec. 94 Orford Mountain. 95 Ottawa, Arnprior and Parry Sound. 96 Ottawa and Gatineau. 97 Ottawa Valley, formerly part of Great Northern.	469 00 26 50 144 00 54 60	10:00 1,920,000 2,000,000 1,000,000 15:00 4,000,000 6:20 1,000,000	00 2,000,000 00 00 50,000 00 00 -2,633,500 00	5,000 00 . 2,380,500 00 .			960,000 19,502,591 500,000 6,500,000	33 19,502,591 33 00	19,502,591 33	5	240,000 00 196,000 00 84,800 00 430,400 00		196,000 00 On 84,800 00 Qu 350,400 00 On	ebectario.		307,200 00 154,000 00 411,000 00		00	80,000 00 52,500 00 104,392 00 32,00	52,500 00 0 00 122,230 00	196,278 08	196,278 08 21,73 48	07,200 00 51,091 33 21,73 85,078 08 38	80,000 00 8, 51,091 33 N 86,094 13 50,	8,000 00	*21,395,333 22 93 384,963 00 94	*Under construction. *Also \$3,220,003.46 included in Canadian Pacific Ry. includes West Ontario Pacific [and Credit Valley.
98 Parry Sound Colonization 99 Philipsburg Railway and Quarry Co 100 Pontiac and Renfrew. 101 Pontiac Pacific Junction	7 00 40 00 6 75 4 25	500,000 8 00 200,000 125,000 250,000	00 120,000 00 00 50,000 00 00 75,000 00 00 100,000 00	120,000 00 5,000 00 75,000 00			140,000 1,250,000	00 140,000 00	800,000 00	5	384,000 00 21,600 00		284,128 00 Qu 21,600 00 On 128,000 00 On 21,600 00 Qu	tarioebec		665,620 00 25,390 00 + 148,500 00 25,720 00	528,373 24,500 120,000 25,720	00 00	10,000 00	9,000 00		2,0 3 1,3	49,620 00 1,31 16,990 00 1,55 50,500 00 1,65	16,501 39 404,		2,996,500 82 95 1,622,886 69 96 210,000 00 97 594,175 78 98	Under construction.
102 Port Arthur, Duluth and Western. 103 Qu'Appelle, Long Lake and Saskatchewan. 104 Quebec Central. 105 Quebec and Lake St. John.	70 60 85 50 253 96 153 50 242 00	3,000,000 1,200,000 2,000,000 59 36 3,381,603	$\begin{array}{c cccc} 0.00 & 1,200,000 & 00 \\ 0.00 & 201,000 & 00 \\ 3.33 & 3,381,603 & 33 \end{array}$	1,200,000 00 201,000 00 3,381,603 33			10,200,000 1,392,000 3,809,140 4,749,866	00 1,392,000 00 00 3,809,140 00	3,809,140 00	5	13,600 00 313,100 00 271,200 00		13,600 00 193,578 00 271,200 00 On	lotario		17,500 00 537,080 00 255,571 00	17,500 426,000 255,571	00	101,000 00 40,000 00	100,000 00 40,000 00		1; 1,2; 3,1;	31,100 00 51,180 00 58,771 00 3,17	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Xil. 5,036-72 5,937-37	63,305 32 99 46,856 84 100 1,429,298 12 101 2,909,771 00 102 *2,529,600 00	
107 Quebec, Montmorency and Charlevoix. 107 aQuebec, Montreal, Ottawa and Occidental, Montreal to Ot 108 Salisbury and Harvey, formerly Albert Railway 109 Saskatchewan and Western.	-12 00		500,000 00 500,000 00 150,000 00	10,000 00 .			6,000,000 2,200,000 250,000	0 4,212,000 00 0		5 29,665 45	348,342 00 1,047,799 50 96,000 00 *1,440,000 00	*1,	60,342 00 Qu ,002,999 50 C 96,000 00 C ,440,000 00 C	lo	1,176,956 00	1,055,648 14 2,748,000 00 192,000 00 727,000 00		64 71 00 2,434,000 00		103,000 00 462,000 00 796,644 62		585,520 43 1,37	38,460 14 9,25 69,799 50 11,58 73,520 43 87	58,288 48 N 55,152 14 N 78,920 14 514,	Xil. Xil. Xil. 1,015 09 7	17,476,321,46 $10411,585,152,00$ $105869,320,14$ 106	5 6
110 Shore Line, formerly Grand Southern. 111 aShuswap and Okanagan 112 South Shore, Quebec, formerly Montreal and Sorel. 113 Stanstead, Shefford and Chambly. 114 St. Catharines and Niagara Central	82 50 51 00 44 67 43 00	500,000 750,000 1.000,000 500,000	500,000 00 500,000 00 750,000 00 300,000 00	101,000 00 750,000 00 300,000 00	155,000 00	77,500 00 77,	1,250,000 670,050	00 *800,000 00 00 1,250,000 00 00	101,010 00	5 23,000 47	163,200 00 93,757 57			nitoba w Brunswick	50,000 00	455,000 00	455,000 50,000 413,000	00 3,000 00	70,000 00	70,000 00 10,000 00 3,000 00			54,665 45 70 51,040 00 55 16,000 00 51		7,000 00 7 1,000 00 7 1,11.	1,787,073 53 108 * 109 1,817,757 63 110	7 *Dominion Govt. pay to Quebec Govt. 5 p. c. per annum on this amount. 8 *From return of 1887 of Albert Railway Co. 9 *Included in Manitoba and North-western—leased by Manitoba and North-western— 10 *Bonds held in trust pending outstanding suits. 11 *Exclusive of rolling stock. 12 *Exclusive of rolling stock.
115 St. Clair Tunnel 116 aSt. John Bridge and Railway Extension 117 aSt. John and Maine 118 St. John Valley and Rivière du Loup	12 35 2 23 1 75 91 80	300,000 700,000 200,000 2,676,660	700,000 00 200,000 00 5 66 2,654,153 44	68,359 00 350,000 00 26,486 73			696,632 360,000 2,500,000 125,000 a 12 222	240,000 00 2,500,000 00 125,000 00	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	6 5 6 500,000 00	147,200 00		38,400 00 Ont 375,000 00 Ne	tario		5,500 00	226,645	80,000 00	100,000	00 140,000 00	216,001 00	216,001 00 1,19 88 3,57	$egin{array}{c cccc} 96,632 & 20 & 1,19 \ 83,201 & 00 & 46 \ 75,000 & 00 & 3,22 \ \end{array}$	06,632 20 N 32,760 00 346,	,694 00 6 6 770 00 4 ,934 06	$677.694 \ 00 + 112$	No reliable return of capital can be obtained as original books of company have been
119 St. Lawrence and Adirondack. 120 aSt. Lawrence and Ottawa. 121 Sydney and Louisburg, Dominion Coal Co. 122 bSouth Norfolk	20°31 58°40 64°90 17°00	6:00 400,000 350,000 2,710,090	350,000 00		789,909 20		243,333 400,000 09 20 973,334	400,000 00	400,000 00	5	48,000 00 65,001 60		65,001 60 Que	do do ebec			300,000 00 1,180,000 65,216	00	60,000			4,11 37 88	$egin{array}{ccccc} 10,817 & 44 & 4,11 \ 76,600 & 00 & 3 \ 80,217 & 60 & 88 \ \end{array}$	00,886 73 N 0,817 44 N 31,932 00 173, 60,217 60 173,	(il. (il. ,984 94 6	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	*Cash to bondholders at foreclosure.
123 Stewiacke Valley and Lansdowne	113 00 4 33	10 00 3,000,000 1,000,000 250,000	1,000,000 00	991,000 00 .	•••••		374,733 2,258,133		1,	6	89,600 00 54,400 00 		645 950 on IQ	tariova Scotiauebec		87,808 00 236,800 00 306,050 00	32,000		65,000 00 8,000 00	65,000 00		255,576 00 1,43 	32,984 00 1,31 19,400 00 11 19,773 00 7	3,243 20 N 9,576 00 N 9,400 00 N 3,973 00 N	iii.	1,903,488 99 120 1,685,576 00 121 122 123	*From the general capital of the Dominion Coal Co. Amalgamated with Grand Trunk Ry.
126 a Tobique Valley 127 b Toronto Belt Line 128 a Toronto, Grey and Bruce 129 b Toronto and Nipissing.	28 00 12 70 191 30 85 00	250,000 40,000 250,000 1,000,000	0 00 40,000 00 0 00 50,000 00	29,900 00 . 50,000 00 .			86,666 280,000 650,000 3,500,000	00 140,000 00 00 462,500 00	63,000 00 462,500 00	6 5 4	54,400 00 54,400 00 182,400 00		24,400 00 134,016 00 Nev	w Brunswick		70,000 00		00	25,000 00 10,000 00	25,000 00 10,000 00			82,400 00 15 32,400 00 29	7,583 33 N 2,400 00 N 6,916 00 N 2,500 00 N	fil.	2,022,000 00	
130 Make Sincoe Junction. 131 Toronto, Hamilton and Buffalo, formerly Brantford, Water and Lake Erie 132 United Counties.	26:50	2,500,000 1,000,000		020,000 00				4,305,000 00	595,000 00	5	57,600 00		14,656 00 Ont	lo		375,282 00 105,212 00 53,000 00	375,282 105,212 53,000	00	988,000 00 388,500 00 100,000 00	988,000 00 376,702 59 100,000 00		322,583 30 6,01 49	14,321 30 5,98 93,712 00 48	2,500 00 6,011 30 1,914 59 3,000 00	sii.	0,047,338 12 128	Amalgamated with Grand Trunk Rv.
133 Victoria and Sydney, B.C. 134 bVictoria 135 bWaterloo Junction 136 bWellington, Grey and Bruce	16·26 53·25 10·25 168·13	500,000	200,000				1,000,000 300,000	300,000 00	300,000 00	5	204,800 00		131,701 15 Que	bec ario lo		210,000 00	138,141		268,000 00 25,000 186,000 00	00 61,506 00		71	14,800 00 36 23,000 00 41 98,000 00 49	9,845 20 0,500 00 08,000 00 275, 65, N	,014 38	435,585 11 133	
137 bWhitby, Port Perry and Lindsay aWest Ontario Pacific. Dominion Atlantic, comprising— Windsor and Annapolis	46:50 26:60	500,000	210,000 00	21,000 00				c500,293 33	500,293 33		60,000 00		60,000 00	lolo		94,957 59	241,276 94,957		47,000 00 682,000 00 222,094 93 25,000 00	47,000 00 682,000 00 222,094 93 25,000 00		1,42	79,800 00 7 23,569 33 1,42 17,052 52 31	9,800 00 N 3,569 33 N 7,052 52 N 6,000 00 N	Sil.		do do do do do do do do do do do do do d
	188 50 40 00	1,119,333 15,000,000 2,000,000	00 747,600 00	747,600 00	1,339,342 00	1,316,700 00 1,311,	69 32 2,768,333 16,250,000		2,351,631 72	4	1,193,369 00 44,800 00 500,000 00	· · · · · · · · · · · · · · · · · · ·	.,,	va Scotia do	256,000 00	44,800 00 679,197 45	44,800 679,197	45	27,685 00 . 150,000 00	27,685 00 150,000 00		$\left.\begin{array}{c} 119,225 & 80 \end{array}\right\} = 7,55$	51,572 58 7,54	1,511 62 *119,		$5,575,268 89 \left\{ \begin{array}{l} 139 \\ 140 \\ 141 \end{array} \right.$	*Due Dominion Government.
	16,090 76	224 92		255,769,556 48		105,985,264 39 105,680,	33 71	351,703,803 37	330,785,545 96	16,030,633 05	137,966,144 63		763,282 71		5,604,890 27	7 101	256,000 300,000 00 29,727,512		11,139,501 78 2,202,500				.,000	2,612 50	,000 00 6		Dominion land grant.
a Forming part of the Canadian Pacific Railway system	. b Forming	part of the Grand Tr	unk Railway system.	c Grand Tr	runk —The \$167,21	13,996·75—4 p. c. debentur	stock authorized inc	ludes all securities n	narked c of amalgan	ated lines; they are being	g gradually absorbed	d into it.	$+109\frac{1}{2}$ miles fro	m Dunmore to Lethi	bridge of Alberta I	Ry. is in Canadian	Pacific Ry. system.	1		1	1		1	,	, , , , , , , , , , , , , , , , , , ,	And the second s	



SUMMARY STATEMENTS

RELATING TO MILEAGE, CHARACTERISTICS OF ROADS, ROLLING STOCK, OPERATIONS, PASSENGERS AND FREIGHT CARRIED, EARNINGS, OPERATING EXPENSES AND ACCIDENTS.

No. 2.—SUMMARY STATEMENT of Characteristics of

	:	Length o	f Line.			Weight	per Yard.
Name of Railway.	Completed. (Rails laid.)	Under Construction.	Iron Rails.	Steel Rails.	Length of Siding.	Iron Rails.	Steel Rails.
	Miles.	Miles.	Miles.	Miles.	Miles.	Lbs.	Lbs.
Alberta Railway and Coal Co	16.00			64·62 16·00 80·00	4·50 ·48 1·36		30 & 35 56 56
gation Co	64.82	•••••		64.82	7.00		50 & 56
5 Brockville, Westport & Sault Ste. Marie. 5 Buctouche and Moncton	45.00 32.00 295.07 159.00	••••		45·00 32·00 295·07 ∫138·00	2·00 9·38 43·00	• • • • • • • • •	56 56 56 & 72
Central Counties	136·00 381·06		l	136·00 381·06			56½ & 60 80, 65, 60
bIntercolonial (including Dartmouth) Branch, 4 miles)	1140 · 00			1140 · 00	152 50	• • • • • • •	56, 571, 6
Prince Edward Island§4049 50)	210.60		109.60	101.00	15.71	38	50 & 5
Atlantic and North-west	6174·10		g20·80	6153 · 30	675 50	44 & 56	56,60,70, & 72
Guelph Junction	45.84	1.36		45·84 68·00	8.00		56 & 6
5 Caraquet	13.00		13 00		3·25 0·25	65	5
9 Central Ontario	104·00 75·00			104·00 75·00		42	52 & 5
	1	!	1	1		1	l
cluding Springhill and Oxford Branch, 14 miles)	46·00 90·53			46.00 90.53			56 & 6 56 & 6

a 95°21 miles double track.
c 13°20 miles double track.
c Springhill and Oxford Branch, 14 miles, not in operation.

b 1°50 miles double track.
Dartmouth Branch, 4 miles not in operation.
d 3°10 miles, from 66°90 to 70 miles of Montreal and Western, not in operation.
432 operation.

Roads, &c., for the Year ended 30th June, 1895.

Number of Ties per Mile.	Nature of Rail Fastenings.	Number of Grain Elevators.	Guarded.	vel	No. of Overhead Bridges.	Height of Overhead Bridges alove rail level.	No. Level Crossings of other Railways.	No. of Junctions with other Railways.	No. of Junctions with branch lines.	Radius of Sharpest Curve.	Number of Feet per Mile of heaviest gradient.	Gauge of Railway.	Number.
2640 2640 2640	Plain fishplatesdo do do	 		2 11 25	 3	Feet.		2 2 1		Ft. 573 955 717	120	Ft. 3· 4·8 1 4·8 2	1 2 3
2640 2640 2600 3000 2640 2640	Plain and angle fishplates		6	50 35 16 148 86 20 35 382	3	22	1 6 1 17	1 4	i 1	400 717 955 1146 2865 955 955 913	58 74 53 40 53 80	4 81 4 81 4 81 4 81 4 81 4 81 4 81 4 81	5 6 7 8 9
2640 2640	Angle fishplates		9	429 956	1	18½ to 35	1	24	20	694 396	1	4·8½ 3·6	11 12
2640 to 3168	Plain and angle fishplates	. 10	33	3211	67	20½ to 24	4.5	62	53	441	f237	4.8	13
2640 2600 1760 2640 2640	Plain and angle fishplates	: :		94	3	21′ 5′	7	3	. 1 1	1000 1910	10	6 4·8 0 4·8 0 5·6 5 4·8 4 4·8	16
2600 2640 2000	do Plain and angle fishplates Plain fishplates.			46	٠ إذ			2	3	71	7 6	0 4·8 6 4·8 0 4·8	J 21

f Temporary. g In branches. § 10 miles of Revelstoke Branch not returned as under tariff.

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.
23	Erie and Huron	Miles. 76.75 78.00		Miles.	Miles. 76.75 78.00	Miles. 4.80	Lbs.	Lbs. 54 & 56 50 & 54
5	Fredericton and St. Mary's Railway and				Ī			i
26	Bridge Co Great Western	1.33			1.33	12		56
	and Lake Erie	3161 98		51.78	3110.20	662 · 25	56 to 65	56 to 79
27	Beauharnois Junction	13·00 28·00			13·00 28·60			56
29	Great North-west Central	50.93			50.93	1.99		50
5U 31	Hereford	30·00 30·00	10.00		53 00 30 00	5 51 1 50		5
	Joggins, now Canada Coals and Ry. Co. Kent Northern, including St. Louis and	12 00			12.00	2.00		5
4	Richibucto	34 00 112 85			30.50 103.10	$\begin{array}{c} 3.00 \\ 21.00 \end{array}$	67 50 to 84	
35	L'Assomption Lake Erie and Detroit River 88 05	1			3.00	25		5
	London and Port Stanley 23.75	111·80 23·34	1		111 · 80 23 · 34	14 · 00	1	56 & 6 5
8	Lotbinière and Megantic	39.50			39.50	2.50		5
	Manitoba and North-western. 234 50 Saskatchewan and Western. 15 47	249 97			249 97	23.75		5
	Manitoba and South-eastern	34.00	8.00		34.00	2 50		50 & 6
2	Montford Colonization	21.00			21.00	· 2 0		5
	erly South-eastern 140 10 Lake Champlain and St. Law-	201 · 50		36.00	165 50	23.80	35 & 56	50, 60 & 7

Roads, &c., for the Year ended 30th June, 1895-Continued.

Number of Tres per Mile.	1	Natur	e of]	Rail [Fast	enin	ıgs.	Number of Grain Elevators	Lecross	Not guarded.	of Overhead Bridges.	Height of Overhead Bridges	abore rail level.	No. Level Crossings of other Railways.	No. of Junctions with other	No. of Junctions with branch	es.	Radius of Sharpest Curve.	Number of Feet per Mile of heaviest gradient.	Gauge of Railway.	ber.
n N								Nun	Guarded	Not	No.	Heig	<u>م</u>	No.	No.	No.	lines	Radi	Num	Gaug	Number
640 9 92	Plain Angle								• • • •	111 15	<u>2</u>	Fe	et. 23	:	; ;	6		Ft. 661 573	52 80	Ft. 4·81 4·85	23
564 .	Angre	do	лансе			· · · ·				6					1	2		1433		4.83	1
640	Plain	and a	angle	fishy	olate	·s		 11	83	2736	23 8	154	o 26 ′	6	7	1 1	04	1100	53 c108	4 8	2
														. 199 (5.1)				r600	8102		
2640	Plain Plain	and a	angle	fish	date	8		 5	••••	6 21 24 28 10 7			••••		1	2 2 1 3 1	1	2865 2292 955 955 1000 955	28 53 60 66	54 - 83 34 - 83 34 - 83 34 - 83 34 - 83	2 2 2 2
2640 2640 2800 2640 3000 2432 2640	Plain Plain Plain	and a fishp do do do do and a	angle lates angle	fish	olate	8		 .5		21 24 28		16 3	••••			2 1 3 1	1	2865 2292 955 955 1000 955	28 55 66 66 71 67	54 8 34 8 34 8 34 8 34 8 34 8 34 8	2 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
2640 2640 2800 2640 3000 2432 2640 2500 2700	Plain Plain Plain Plain Plain	and a fishp do do do and a fishp	angle lates angle lates angle	fish	olate	8		5	2	21 24 28 10 7 10 56 1	3	16 &	••••		1 1	2 1 3 1 1 1	13	2865 2292 955 965 1000 955 1000 955 ∫ 1483	28 53 68 66 66 71 67 22	54 8 34 8 34 8 34 8 94 8	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
2640 2640 2800 2640 3000 2432 2640 2500 2700	Plain Plain Plain Plain Plain Plain	and a fishp do do do and a fishp	angle lates angle lates angle	fish	olate	s			2	21 24 28 10 7 10 56 1	3	16 &	211		1 1 6	2 1 3 1 1 1 6 1	13	2865 2292 955 965 1000 955 1000 955	2xi 5xi 6xi 6xi 7xi 7xi 2xi 3xi 3xi 3xi 3xi 3xi 3xi 3xi 3xi 3xi 3	54 8 34 8 34 8 34 8 34 8 34 8 34 8 34 8 3	# # # # # # # # # # # # # # # # # # #
2640 2640 2800 2640 3000 2432 2640 2500 2700 2600 2640	Plain Plain Plain Plain Plain Plain	and a fishp do do do and a fishp and a	angle lates angle lates angle	fish	olate	s			•••	21 24 28 10 7 10 56 1 125	3	16 &	211		1 1 6	2	13	2865 2292 955 955 1000 955 955 (1483 819	286 586 686 687 78 286 296 307 307 307	54.8 54.8 54.8 54.8 94.8 94.8 94.8 94.8	100-00-00-01-01-01-01-01-01-01-01-01-01-
2640 2640 2800 2640 3000 2432 2640 2700 2600 2700	Plain Plain Plain Plain Plain Plain	and a fishp do do do and a fishp do and a	angle lates angle lates angle 	fish	olate	8		26	· · · · · · · · · · · · · · · · · · ·	21 24 28 10 7 10 56 1 125 125 180	3	16 &	19 <u>1</u>		1 6	2 1 3 1 1 1 8 8	13 	2865 2292 955 955 1000 955 955 947 (1436 819 917	26 53 66 66 73 66 73 20 100 100	54 8 34 8 34 8 34 8 34 8 34 8 34 8 34 8 3	10 10 10 10 10 10 10 10 10 10 10 10 10 1

c Branch lines.

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.
		Miles.	Miles.	Miles.	Miles.	Miles.	Lbs.	Lbs.
5 6 7 8	aMontreal Park and Island (Electric) Montreal and Vermont Junction Montreal, Portland and Boston Nelson and Fort Sheppard New Brunswick & Prince Edward Island	23 · 60 40 · 60 55 · 00	5.00		22:03 23:60 40:60 55:00 36:00	2:00 1:40 1:70		50 & 7: 50 & 50 50 50
1	New Glasgow Iron, Coal and Railway Co. (now Nova Scotia Steel Co.) bNiagara Falls Park and River (Etectric	12.50		. 	12.50	3.00		5
1 2 3	Railway). Northern Pacific and Manitoba. Nosbonsing and Nipissing. Nova Scotia Central	265 64 5 50 74 00	10.00		13 · 68 265 · 64 5 · 50 74 · 00	29·85 1·25 2·75	•••••	5
5 6 7 8	Nova Scotia Southern Orford Mountain Ottawa, Arnprior and Parry Sound Ottawa and Gatineau Ottawa Valley.	26.50 144.00 54.60 7.00	15 00 6 20	•••••	26 50 144 00 54 60 7 00	1.00 11.00 2.00 20		5 7 5 5
$egin{array}{c} 0 \ 1 \ 2 \end{array}$	Parry Sound Colonization Philipsburg Ry. and Quarry Co. Contiac and Renfree Pontiac Pacific Junction Port Arthur, Duluth and Western.	4.25			40.00 6.75 4.25 70.60 85.50			56 & 7 5 5 5 5
4 5 6 7	Qu'Appelle, Long Lake & Saskatchewan. Quebec Central. Quebec and Lake St. John Quebec, Montanorency and Charlevoix.	253 · 96 153 · 50 242 · 00 30 · 00	59 36	1.00	253 · 96 152 · 50 242 · 00 30 · 00	6·86 9·75 14·00		5
9 0 1	Salisbury and Harvey. Harvey Branch Shore Line Stanstead, Shefford and Chambly.	3·00 82·50 43·00		29.00	4·25 3·00 82·50 14·00	2·50 2·00		5 5 6
3	St. Catharines and Niagara Central. dSt. Clair Tunnel Yard and Approach. St. John Valley and Rivière du Loup. St. Lawrence and Adirondack.	2.23			12·35 2·23	11 00		10
6	Stewiacke Valley and Lansdowne Sydney & Louisbourg(Dominion Coal Co.) South Shore (formerly Montreal and	64.90	10 00		20·31 54·77	90 27 00	50	56 & 8
9	Sorel). Temiscouata. Thousand Islands fToronto, Hamilton and Buffalo (formerly	44 · 67 113 · 00			44.67 113.00 4.33			5 5 5
23	Brantford, Waterloo and Lake Erie) United Counties Victoria and Sydney, B.C	61.00			42.66 61.00 16.26	·75 3·50 1·20		56 & 7 5
4	Dominion Atlantic, comprising— Windsor and Annapolis 87.50 Cornwallis Valley 14.00 Yarmouth and Annapolis 87.00 Windsor Branch, Inter-	220·50	••••	16·50	204.00	10.20	67	56 to 6
1	colonial	40.00	17:00		40.00	2.00	· • • • • • • • • • • • • • • • • • • •	£
1	ove promissin and An Whone	16090 76			15744 · 70	2054 39		

a 7 %) miles double track. 8 11 43 miles double track. 6,000 ft.; in side diameter, 19 ft. 10 in. e Not in operation. returned as under traffic.

c Not in operation. d Length of Tunnel, f25.66 miles, Brantford to Hamilton not

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Roads, &c., for the Year ended 30th June, 1895—Concluded.

Number of Ties per Mile.	Nature of Rail Fastenings.	Number of Grain Elevators.	Crossed.	vel	No. of Overhead Bridges.	Height of Overhead Bridges above rail level.	No. Level Cossings of other Railways.	No. of Junctions with other Railways.	No. of Junctions with branch lines.	Radius of Sharpest Curve.	Number of Feet per Mile of heaviest gradient.	Gauge of Railway.	Number.
	•		_		-	Feet.				Ft.		Ft.	
3000 3000 2640	Angle bars			51 21 26			3	2 1 1		478 1000	52 132 66	4·8½ 4·8½	45 46 47 48
2640 2610 2600			1	5 16 257	2	14 & 22	6	1 2 2	1	115	300	4 8 <u>1</u> 4 81 4 81	50
2600 2640	Plain fishplates			23 	1 	21	1	1 1		955 819	132 80	4·85 4·85	52 53 54
2640 2640 2600 2640	Plain fishplates. Angle bars. Plain and angle plates. Plain fish plates. Plain and angle fishplates. Plain fishplates.			17 44 42 3 10 3				1 2 1 1 1 1	1	955 955 573 1146 955 955	66 106 60 66 52	4 81 4 81 4 81 4 81 4 81 4 81	56 57 58 59 60
2640 2640 2640 2640 2640				52 5 51 26 56			3 2	1 1 1 5 3	1 1 2	1146 573 1146 882	53 95 65 76	4 8 4 8 4 8 4 8 4 8 4 8 4 8 4 8 4 8 4 8	62 63 64 65
2640 2640 2640 2992 2640	do Plain fishplatesdo do do do		1	10 30 2 15 42	1 1 5 1	22 15 23 18	 3 3	1 1 2		1433 717 717 573 717	42 80 53 85 60	4 8 4 8 4 8 4 8 4 8 4 8 4 8 4 8 4 8 4 8	67 68 69 70 71
	Angle bars			20		22		2 2		717		4·8½	73 74
	Angle bars		1	26		18		ì	7	1433	1	4 81	176
2640 3000	Plain fishplates Plain and angle fishplates Angle bars	. ::		8	1		i	1 2 1		2292 819 660	53 79 84	4 · 81 4 · 81 4 · 81	78 79 80
2700 2640 2464	Plain and angle plates	: -: -:		18 43 13		20	4	5 		955 717 637	52	4·81 4·81 4·82	182
264 0	Plain and angle plates		1	157	4	24 & 32		3	2	637	79	4.81	84
264 0	Plain fishplates		 	6			,.	1		2865	31	4·81	86
		53	151	10430	398		218	316	232				

No. 3.—SUMMARY STATEMENT of the different descriptions of

Name of Railway.	Length of	f Line.	Number of En-	gines.	Number of Sleep-	ing Cars.	Number of Palace	Or Drawing Koom Cars,
N umber:	Com- pleted.	Under Con- struc- tion.	Owned.	Hired.	Owned.	Hired.	Owned.	Hired.
1 Alberta Railway and Coal Co. 2 Albert Southern 3 Baie des Chaleurs. 4 Bay of Quinté Railway and Navigation Co. 4 00 \ Kingston, Napanee and Western. 6 Buctouche and Moneton. 7 Calgary and Edmonton. 8 Canada Atlantic. 138 00 \ Central Counties. 9 Canada Eastern. 10 Canada Southern	Miles. 64-62 16-00 80-00 64-82 45-00 32-00 295-07 159-00 136-00 381-06	17 00	1 5 5 2 2	5				
Canadian Government Railways— Intercolonial, including Dartmouth Branch, 4 miles. Prince Edward Island Prince Edward Island	1,140 00 210 60		204 20 584		15		127	
Shuswap and Okanagan 51 00 Montreal and Ottawa 23 60 Montreal & Western (3 10 not under traffic) 70 00 Montreal and Lake Maskinongé 12 90 Guelph Junction 15 00 14 Lake Tennicamingue Colonization 15 Caraquet 16 Carillon and Grenville 17 Coast Line, N.S. 18 Central Ontario 19 Central of New Brunswick 20 Cumberland Ry. & Coal Co., including Springhill and Oxford Branch, 14 miles 21 Drummond County 22 Elgin and Havelock 23 Erie and Huron 24 Esquimalt and Nanaimo 25 Fredericton and St. Mary's Railway and Bridge Co. 26 Great Western 561 80 Brantford, Norfolk and Port Burwell 34 78 438	13 00 104 00 75 00 46 00 90 53 27 00 76 75 78 00		8 1 8 1 8 5 5 5 5	2				

Rolling Stock, for the Year ended 30th June, 1895.

Owned, Number of First Class Cars.	Number of Second	grant Cars.	Number of Bag-	gage, Mall and Express Cars.	Number of Cattle and Box Freight	Cars.	Number of Plat-	iorni Cars.	Number of Hopper and Dump	ing Cars.	The state of the s	Remarks.
Owned. Hired.	Owned.	Hired.	Owned.	Hired.	Owned.	Hired.	Owned.	Hired.	Owned.	Hired.	Number.	
1	3		*12 1 2		28 1 6	 	8 7 4 5		286		3	*Including caboose cars.
7	5 1		3 1	!	17 20		87 17	7	· · · · · ·		5	12 ore cars and 2 flanger cars owned.
9	1 15		 5		6 656	1300	29 337				6 7 8	Rolling stock furnished by C. P. R.
5 42	21		+110		12 ‡2,075		88 285		49		910	* Dining cars owned; †including 80 way cars. ‡Including 34 refrigerator and 18 tool cars. § Wagner sleeping and parlour cars passing through from other railways.
92 16	101 14		*162 *11		2,174 178		2,209 125		2,185		11 12	* Including 99 vans. * Including 1 pay car and 3 vans. 9 snow ploughs and 6 flangers.
218	 		§509		11,029	1000	4,134		! 0		1	* Including 8 official cars. † Including 15 dining cars. ‡ Including 7 pay cars and 10 miscellaneous. § Including 305 vans. Including 81 gravel cars. Also 80 snow-ploughs, 44 flangers, 33 tool cars, 26 steam shovels, 19 derricks, 44 boarding cars, pile drivers, &c.
1 2 	3		1		2 2 34		15 2 82				15 16 17 18	
1 2 2 1 9 11	2 1		2 1 1 4 3		2 9 1 28 12		28 20 8 15 72		286		19 20 20 21 22 24 24 24 25	
•								1	139			

No. 3.—Summary Statement of the different descriptions of

INO. O.—SUMMANI SIA.								
Name of Railway.	Length o	f Line.	Number of En-	gines.	Number of Sleep- ing Cars.		Number of Palace or Drawing Room Care.	
Number.	Com- pleted.	Under Con- struc- tion.	Owned.	Hired.	Owned.	Hired.	Dwned.	Hired.
26 Grand Trunk—Continued. Buffalo and Lake Huron	Miles.	Miles.						
Grand Trunk, Georgian Bay & Lake Erie. 172.75 Owen Sound Branch. 12.42 London, Huron and Bruce. 69.01 Waterloo Junction. 10.25 South Norfolk. 17.00 Wellington, Grey and Bruce 168.13 Northern. 172.10 North Simcoe 33.34 Hamilton and North-western. 173.90 Northern and Pacific Junction. 111.37 Toronto Belt Line. 12.70 Midland 166.78 Grand Junction 85.40 Toronto and Nipissing 85.00 Lake Simcoe Junction 26.50 Victoria 53.25 Whitby, Port Perry and Lindsay 46.50 Cobourg, Blairton and Marmora 15.00 Jacques Cartier Union 6.50 Montreal and Champlain Junction 61.75	3,161 98		722		*5		6	
Beauharnois Junction	13·00 28·00	10.00		1	1		ļ	1
29 Great North-west Central 30 Hereford	50·93 53·00		• • • •					
31 Irondale, Bancroft and Ottawa	30.00	10.00	3		i	1		
32 Joggins, now Canada Coal and Railway Co	12:00 34:00		2 2					·
34 Kingston and Pembroke	112.85		9					
35 L'Assomption	1		}	1	• • • •	· · · ·		
London and Port Stanley 23.75	i e							
37 Lotbinière and Megantic	23 · 34 39 · 50	2.00						
39 Manitoba and North-western 234 50)	1		Į.		5			
Saskatchewan and Western	210 01	1		1 -	1		· i · · · ·	
41 Massawippi Valley	34.00				7			
42 Montford Colonization	21 - 00	;)	2		1	Ì	1	1
43 Montreal and Atlantic, formerly South-eastern. 140:10)	1		1)):		
Lake Champlain and St. Lawrence Junction 61 40 J 44 Montreal Park and Island (Electric)	1		1	1	1		• • • •	
45 Montreal and Vermont Junction	23 60				9			
				1	1			
46 Montreal, Portland and Boston	40.60 55.00) 2					
48 New Brunswick and Prince Edward Island 49 New Glasgow Iron, Coal and Railway Co., now Nova	36 00			3		.	• , • • •	
Scotia Steel Co	12.50	3		3			· • • •	• • • • •
51 Northern Pacific and Manitoba	265 64	1			.			
52 Nosbonsing and Nipissing.			. :	ļ	.			
53 Nova Scotia Central			$5^{\dagger}\dots^{5}$:1:			

Rolling Stock, for the Year ended 30th June, 1895-Continued.

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-	rorm Cars.	Number of Hop- per and Dump-	ing Cars.		Remarks.
Owned.	Hired.	Owned.	Hired.	Owned.	Hired.	Owned.	Hired.	Owned.	Hired.	Owned.	Hired.	Number	
+390	<u>H</u>	225		214	. !	16,014	H	5,344		1,225		26	* Colonist sleeping cars. † Including 3 dining cars.
	2 2	 1 5	1 2	 2 5 1	1 2 1	1 1 22 22 1	12 50	21 4 150	6 12 50	5		35 36	
1 3	2	1 3		*4	†4	\$58	109	30 42	20	· · · · · · · ·		39	1 snow plough and flanger owned. (*Including 1 caboose. †Including 3 cabooses. §Including 4 boarding cars.
1	5	1	1		3	2	250	19		· · · · · · · ·		40 41	ton and Maine Railway.
13		15		2		427		363		*11		42 43	* Caboose cars.
*27	+16							20		• • • • • •	• • • •	44	*Including 9 motors. +Including 8
• • • •	12				5				٠.	••••		45	Operated with equipment of Central
2	4		;		1		····i		20	• • • •			Vermont Railway.
1		···i				2	1	33		• • • • • •	· · · · ·	47 48	
1						2		15		*26			*Iron ore cars.
*40 4		5		*9		+286		178		5		50 51	*Electric motor and trail cars. *Including 6 cabooses. + Including
4		i		2		13		40 49				52 53 54	

No. 3.—SUMMARY STATEMENT of the different descriptions of

Name of Railway.	Length of	Line.	Number of Emgines.		Number of Sleep- ing Cars.		Number of Palace or Drawing Room Cars.	
Numbher	Com- pleted.	Under Con- struc- tion.	Owned.	Hired.	Owned.	Hired.	Owned.	Hired.
	Miles.	Miles.	1					
55 Orford Mountain	26·50 144·00	15:00	4	8				
57 Ottawa and Gatineau 55 Ottawa Valley 59 Parry Sound Colonization	54 · 60 7 · 00 40 · 00	6·20 8·00	$\frac{2}{3}$	· · ·				
60 Philipsburg Railway and Quarry Co 61 Pontiac and Renfrew 62 Pontiac Pacific Junction	6·75 4·25 70·60		1 1 4					
63 Port Arthur, Duluth and Western	253 · 96 153 · 50	59:36						
66 Quebec and Lake St. John	30.00		4					
69 Harvey Branch 70 Shore Line 71 Stanstead, Shefford and Chambly	82 50 43 00		5 5				1	
72 St. Clatharines and Niagara Central. 73 St. Clair Tunnel Yard and Approach	2.23		4			:::		
75 St. Lawrence and Adirondack	64.90		1	ļ				
78 South Shore, formerly Montreal and Sorei. 79 Temiscouata. 80 Thousand Islands.	113.00		ē			·		
81 Toronto, Hamilton and Buffalo, formerly Brantford, Waterloo and Lake Erie	61.00	 		., .				
83 Victoria and Sydney, B.C 84 Dominion Atlantic, comprising— Windsor and Annapolis	16 · 26	· · · · · · ·	2		·!			
Cornwallis Valley 14 00 Yarmouth and Annapolis 87 00 Windsor Branch of Intercolonial 32 00	220 50	[]	21		• . • •		. 2	
85 Winnipeg Great Northern, formerly Winnipeg and Hudson Bay	40.00	17:00						
	16,090 76	224 · 92	1949	7	5 11	4 6	12	

Rolling Stock, for the Year ended 30th June, 1895-Concluded.

Owned. Number of First	Class Cars.	Number of Second	grant Cars.	Number of Bag-	gage, Man and Express Cars.	Number of Cattle and Box Freight	Cars.	Number of Plat-	form Cars.	Number of Hop- per and Dunp-	ing Cars.		Remarks.
Owned.	Hired.	Owned.	Hired.	Owned.	Hired.	Owned.	Hired.	Owned.	Hired.	Owned.	Hired.	Number.	
5 *9 · · · · · · · · · · · · · · · · · ·	10	1 4 1 1 9 18		1 2 10 9 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3	1 5 10 153 57 57 7	20	225 234 23 21 61	8	25	2	65 66 67 68 69 70 71 72 73	do do Rolling stock furnished by C. P. R. 5 snow ploughs, 1 flanger owned. 19 engines returned for coal roads in Statement No. 9.
15	i	9				113		9 15 20 1		22		82 83 84	5 snow ploughs and flangers owned.
1011	65	694	8	1129	25	33,577	2783	15,441	317	4,841	4	86	

No. 4.—SUMMARY STATEMENT of the Operations of the Year

=				,		
				TRAIN MI	LEAGE.	
Number.	Name of Railway.	Mileage.	Passenger Trains.	Freight Trains.	Mixed Trains.	Total Train Mileage.
1	Alberta Railway and Coal Co	64 · 62		••••	24,002	24,002
3	Albert Southern Bay of Quinté Navigation Co 4'00' Kingston, Napanee & Western. 60'82' Baie des Chaleurs.	16·00 64·82 80·00		1 1	4,000 129,905 50,256	6,00 0 129,905 50,896
5 6 7	Brockville, Westport and Sault Ste. Marie Buctouche and Moncton Calgary and Edmonton	45 00 32 00 295 07			27,405 19,200 67,936	28,386 19,200 67,936
8	Canada Atlantic	159.00		1	14,137	431,790
	Central Counties	136 00	22,340	63,440	99,165	184,945
	Canada Southern	381.06			147,862	2,979,514
11 12 13		1,136·00 210·60		144,378		3,999,242 230,357
	Ontario and Quebec	6,161 · 00	5,267,849	5,989,949	1,061,727	12,319,5 25
1: 1: 1: 1: 2: 2: 2:	Lake Temiscamingue Colonization 5 Caraquet 6 Carillon and Grenville 7 Central Ontario 8 Central of New Brunswick 9 Cumberland Railway and Coal Co 10 Drummond County 11 Elgin and Havelock 12 Erie and Huron 13 Esquimalt and Nanaimo	68:00 13:00 104:00 75:00 32:00 90:53	6,000 6,000 3 40,700 16,905 61,377	15,000	96,000 40,800 69,183 42,750	6,400 111,000 40,800 69,183 89,901 16,902 155,511
2	4 Fredericton & St. Mary's R. & Bridge Co. 5 Grand Trunk	1 · 33				2.00,000

and Mileage, for the Year ended 30th June, 1895.

Engine Mileage.	Total Number of Passengers Carried.	Tons of Freight of 2,000 lbs. Handled.	Average Rate of Speed of Passen- ger Trains—Miles per hour.	Average Rate of Speed of Freight Trains—Miles per hour.	Number.	Remarks.
49,767	1,098	30,957		14	1	From Lethbridge to Coutts on International Boundary—the portion of this railway from Dunmore to Lethbridge, 109.50 miles, is
6,000	1,000	5,170	17		2	operated by C. P. R. under lease.
129,905	55 ,40 8	150,913	I		3	Running powers on Grand Trunk Ry., Nap-
50,896 28,837 19,200 71,176	7,611 26,436 6,596 10,281	3,648 12,411 16,003	19	15 20 15 19	4 5 6 7	ance to Descrotto Junction, Junes.
509,771	165,980	1	35	15	8	
192,360 3,782,111	1	78,998	30	16 23	9 10	
4,877,981 330,661	1,352,667 125,089			15 14	11 12	Windsor Branch—32 miles operated by Dominion Atlantic Ry.; Dartmouth Branch—4 miles—not in operation during the year.
15,828,609	2,892,995	3,720,567	28	18	13	
* 32,000 6,700 111,000 40,800 132,691 90,700 16,902	7,100 46,171 10,466 21,657 21,771 4,723	11,339 230 62,841 6 13,256 7 389,75 1 95,726 3 9,15	9 0 25 1 25 8 4 6 25 1 16	15 18 18 20 17 20 15	16 17 18 19 20	
171,195 183,833	5 88,78 3 50,86	3 116,41 4 38,87	4 25 7 20	15 12	22 23 . 24	Included in Canada Eastern Railway whic company run their trains across this bridge paying toll.
				145		

No. 4.—SUMMARY STATEMENT of the Operations of the Year

:_						
	:			TRAIN MI	LEAGE.	
Number.	Name of Railway.	Mileage,	Passenger Trains.	Freight Trains.	Mixed Trains.	Total Train Mileage.
25	Grand Trunk — Continued. 69 01 London, Huron and Bruce 69 01 Waterloo Junction 10 25 South Norfolk 17 00 Wellington, Grey and Bruce 168 13 Northern 172 10 North Simcoe 33 34 Hamilton and North-western 173 90 Northern and Pacific Junction 111 37 Toronto Belt Line 12 70 Midland 166 78 Grand Junction 85 40 Toronto and Nipissing 85 00 Lake Simcoe Junction 26 50 Victoria 53 25 Whitby, Port Perry & Lindsay 46 50 Cobourg, Blairton & Marmora 15 00 Lacence Cartier Union 50	3,161 98	5,443,747	7,851,463	2,085,999	15,381,2 9 9
27 28 29 30 31 32 33 34 35 36 37	Jacques Cartier Union. 6 50 Montreal & Champlain Junetion 61 75 Beauharnois Junction. 19 50 St. Clair Tunnel. Great Northern. Great Northern. Great North-west Central. Hereford. Irondale, Bancroft and Ottawa. Joggins, now Canada Coal and Ry. Co. Kent Northern. Kingston and Pembroke. L'Assomption Lake Erie and Detroit River. 88 05 Lotbinière and Megantic. Lower Laurentian Manitoba and North-western. 234 50 Saskatchewan and Western. 15 47 Massawippi Valley	2: 23 28: 00 50: 93 53: 00 30: 00 12: 00 34: 00 112: 85 3: 00 111: 80 23: 34 39: 50 249: 97 34: 00	23,712 1,000 65,104 163,624	60,157 1,500 22,600 354 24,419	14,520 12,769 40,576 15,000 18,366 69,992 5,284 52,584 11,232 24,286 42,018 11,004	135,096 5,284 238,808 11,232 24,640 101,557
	Montford Colonization	21·00 201·50		202,112	4,756 100,581	4,756 436,584
43 44 45 46	Montreal Park and Island (Electric) Montreal Portland and Boston Montreal and Vermont Junction Nelson and Fort Sheppard New Brunswick & Prince Edward Island.	22:03 40:60 23:60 55:00 36:00	37,339 56,914	91,602	10,829 1,828 12,475 20,918	12,475
48 49 50 51 52 58 54 56 56	New Glasgow Iron, Coal and Ry. Co., now Nova Scotia Steel Co. Niagara Falls Park and River Electric Ry. Northern Pacific and Manitoba. Nosbonsing and Nipissing. Nova Scotia Central Offord Mountain Ottawa and Gatineau Ottawa, Arnprior and Parry Sound. Ottawa Valley. Parry Sound Colonization. Philipsburg Ry. and Quarry Co.	13 · 68 265 · 64 5 · 50 74 · 60 28 · 50 54 · 60 144 · 00 7 · 00 40 · 00 6 · 75	241,266 93,160 17,528 15,871 109,842	80,086 8,860 5,168 1,086 58,526	34,454 63,664 8,792 32,233 12,282 6,540 23,068 3,600	243,566 207,700 8,860 63,664 31,488 49,190 180,659 6,540 23,068 3,600
59 60	Pontiac Pacific Junction Port Arthur, Duluth and Western. Qu'Appelle, Long Lake and Saskatchewan Quebec and Lake St. John	85·50 253·96	475 84,013		11,449 52,900	12,031 52,900

and Mileage, for the Year ended 30th June, 1895-Continued.

Engine Mileage.	Total Number of Passengers Carried.	Tons of Freight of 2,000 lbs. Handled.	Average Rate of Speed of Passenger Trains—Miles per hour.	Average Rate of Speed of Freight Trains—Miles per hour.	Number.	Remarks.
20,230,397	5,054,145	7,002,612	30	18	25	Running powers on Chaudiere Branch, I.C.R., 6 miles.
43,755 14,988 15,721 83,869 40,998 28,080 18,366 162,115 5,284 289,904 11,232 25,730 124,755 184,971 4,936 445,769 68,059 150,344 14,018 43,260 34,200 245,466 236,947 9,200 65,229 31,488 53,819 183,130 6,540 26,788 3,600 50,732 12,979 157,472 250,659	4,624 2,412 14,925 6,992 12,984 5,420 40,755 6,709 264,289 23,634 60,968 1,725 161,662 958,980 57,159 107,030 4,153 15,582 10,322 499,015 29,961 39,963 5,833 41,543 77,232 3,764 6,321 3,460 19,525 2,019 4,015 122,941	77,607 11,320 75,415 546	25 35 27 25 30 30 35 20 21 25 30 30 30 30 30 30 30 30 30 30	12 15 15 18 15 20 20 15 20 12 20 15 12 20 15 12 15 17	26272833334 35 3637 38 39 40 41 42434456 47849551525545556061	Running powers on Grand Trunk, Lennox-ville to Sherbrooke, 3 miles.

No. 4.—SUMMARY STATEMENT of the Operations of the Year

		TRAIN MILEAGE.							
Name of Railway.	Mileage,	Passenger Trains.	Freight Trains.	Mixed Trains.	Total Train Mileage.				
2 Quebec Central	153 50	118,512	120,147	25,937	264,596				
Quebec, Montmorency and Charlevoix Salisbury and Harvey, including Harvey	30.00	48,743	1,075		49,818				
Branch, 3 miles	52.25			27,030	27,030				
5 Shore Line	82.50	1,524		51,004	52,528				
6 Stanstead, Shefford and Chambly	43 00	32,106	31,459	9,496	73,061				
7 St. Catharines and Niagara Central	12 35	12,000	2,000	6,000	20,000				
8 St. Lawrence and Adirondack	20:31 64:90	23,460 32,000	65,000	45,794	69,254 97,000				
Sorel	44 67	28,500		28,500	57,000				
1 Temiscouata	113 00			79,264	89,443				
2 Thousand Islands	4.33	12,168	2,808	11,232	26,208				
3 Toronto, Hamilton and Buffalo	17.00			31,824	31,824				
4 United Counties	61.00	30,624		28,248	58,872				
5 Victoria and Sydney 6 Dominion Atlantic, comprising—	16.26		• • • • • • • • • • • • • • • • • • • •	11,520	11,520				
Windsor and Annapolis 87 50 Cornwallis Valley 14 00 Yarmouth and Annapolis 87 00 Windsor Branch of Intercolonial 32 00	220 · 50	179,400	255,457		434,857				
	15,976 75	15,332,276	19,939,699	5 990 015	40,661,896				

and Mileage, for the Year ended 30th June, 1895-Concluded.

Engine Mileage.	Total Number of Passengers Carried.	Tons of Freight of 2,000 lbs. Handled.	Average Rate of Speed of Passenger Trains—Miles per hour.	Average Rate of Speed of Freight Trains—Miles per hour.	Number.	Remarks.
279,880	111,674	195,271	25	15	62	Running powers on I.C.R., Harlaka Junctice
61,053	217,764	9,419	21	21	63	to Lévis, 5 miles.
01,000		.,,110				
29,970	7,966	29,743		. 18	64	
53,247	10,335	10,526			65	
73,061	121,697	640,336		12	66	
20,000	24,809	59,366		20	67	
73,520	20,049			20	68	
100,000	67,432	1,003,697	25	20	69	
57,500	40,962	14,943	30	22	70	
89,978	12,205			16	70 71	
26,208	20,039	16,046		20	72	
31,824	26,827	85,617		20	73	
59,372	12,852	21,370		25	74	Running powers on Montreal and Atlantic Yamaska to Sorel, 10 miles.
11,520	15,052	4,573		25	75	Tomacon to cortal to minds,
4 34,857	171,159	196,035	25	14	76	Running powers on Intercolonial Ry., Windsor Junction to Halifax, 14 miles.
51,339,885	13,987,580	21,524,421				

No. 5.—Summary Statement of description of

Name of Railway.	Mileage.	Flow	ır.	Grai	n	Live
Number.		Barrels.	Tons.	Bushels.	Tons.	Number.
1 Alberta Railway and Coal Co	64-62	60	6	4,783	87	904
2 Albert Southern 3 Bay of Quinte Navigation Co. 4 00 1	16:00	128	12	874	15	60
Kingston, Napanee & Western 60 82 f 4 Baie des Chaleurs	64 · 82 80 · 00	38,040 3,275	3,804 327	$146,727 \\ 1,750$	4,036 35	3,917 22
5 Brockville, Westport and Sault Ste. Marie	45 · 00. 32 · 00	18,619	1,862		3,245	8,886
6 Buctouche and Moncton	295 07	19,642	1,964	71,168	2,451	8,626
8 Canada Atlantic	159.00	72,994	7,299	784,100	19,602	24,752
9 Canada Eastern	136·00 381·06	54,596 1,569,260	5,459 156,926	88,359 17,482,621	1,502 381, 20 8	555 790,500
11 Intercolonial	1,136 00 210 60	938,351 27,464	9 3,83 5 2,741	1,036,384 305,926	19,0 88 5, 249	$\substack{72,106 \\ 7,307}$
Atlantic and North-west. 205 00 Ontario and Quebec. 469 00 Credit Valley 175 10 West Ontario Pacific. 26 60 Toronto, Grey and Bruce. 191 30 Guelph Junction 15 00 St. Lawrence and Ottawa. 58 40 Montreal and Ottawa. 23 60 Montreal and Ottawa. 66 90 Montreal & L. Maskinongé 12 90 New Brunswick. 173 95 New Brunswick and Canada 117 20 St. John and Maine. 91 80 St. John Bridge and Railway Extension 1 75 Fredericton. 22 10 Manitoba South-western Columbia and Kootenay 27 70 Shuswap and Okanagan 51 00 Nakusp and Slocan 36 90 Alberta Railway, Dunmore to Lethbridge 195 00 Tobique Valley 28 00	6,161 :00	2,605,331	228,682	23,814,306	610,278	499,356
14 Lake Temiscamingue Colonization	45 84 68 00	5,617 5,500	561 5 5 0	87,252 5,000	1,482 200	54 50
16 Carillon and Grenville. 17 Central Ontario	13 · 00 104 · 00	100 12,245	$\frac{10}{1,200}$	306,400	7,660	300 3,216
18 Central of New Brunswick 19 Cumberland Railway and Coal Co	75·00 32·00	2,250 8,491	225 849	$7,412 \\ 26,242$	126 453	34
20 Drummond County	90 53	25,560	2,582	61,644	1,108	43
22 Erie and Huron.	27·00 76·75	2,273 $263,077$	$\begin{array}{c} 227 \\ 26,358 \end{array}$	4,952 824,108	99 20,5 33	2,212 $10,062$
23 Esquimalt and Nanaimo. 24 Fredericton and St. Mary's Railway and	78:00	2,750	275	15,650	313	4,216
Bridge Co	1 33	•••••		•••••		· · · · · · · · · · · · · · · · · · ·
Great Western 561 80 Brantford, Norfolk and Port						
Burwell			!			
Buffalo and Lake Huron 162 00 Grand Trunk, Georgian Bay		i				
and Lake Erie 172 75 Owen Sound Branch 12 42 London, Huron and Bruce 69 01						
Waterloo Junction 10 25	450		ļ	į		

Freight carried for the Year ended 30th June, 1895.

Stock.	Lumk 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	
44 10 1,567	588,098 3,879,555 41,051,429	996 4,128 71,840	715 180 10,392	782 265 15,589	661	*29,027 79 35,549	30,957 5,170 150,913	2	
10 1,171 3,708	258,000 443,848 390,000 2,725,620	345 641 477 3,461	4,291 342	7,971 513	1,952 4,526 6,275	979 966 *7,555	3,648 12,411 16,003 22,291	4 5 6	*Including stone,
4,959 135 158,100	154,994,257 16,326,550 127,178,500	232,492 21,286 254,357	28,560 3,384 27,634		12,690 15,483	149,280 30,908	476,303 78,998 2,864,673	8	ice.
11,351 1,040	202,247,269 3,932,000	252,809 5,898	11,149 2,186				1,267,816 48,525		
115,529	592,7 36,54 0	770,873	181,029	314,842	903,047	777,316	3,720,567	13	
32 25	264,352 *5,004,000	333 7,887	5 500	5 750	1,030 500	1,680 1,427	5,123 11.339	14 15	*Including logs.
75 1,608 17 31 233 1,976 660	2,190,000 6,363,000 11,202,000 13,522,900 4,145,850 25,308,000 4,094,373	2,190 9,544 14,044 17,653 6,195 31,970	13,333 910 15,552 1,122 359	23,333 1,344 25,443 1,122 671 7,000	45	100 2,749 *2,019 *369,853 41,713 395	230 62,841	16 17 18 19 20 21 22	*Including 194 tons *Coal. [coal.
•••••				•••••)	Included in [Canada Eastern.
								:	
	,	•	'		451	'	'		ı

No. 5.—Summary Statement of description of

Name of Railway.	Mileage.	Flou	ır.	Grai	n.	Live
		Barrels.	Tons.	Bushels.	Tons.	Number.
South Norfolk	3,161 98	4,285,030	422,503	42,578,080	1,064,452	1,701,610
Montreal and Champlain Junction Beauharnois Junction 51.75 Besuharnois Junction 19.50 St. Clair Tunnel. Great Northern Great Northern Great North-west Central Hereford I Joggins, now Canada Coals and Ry. Co. Kint Northern	2·23 28·00 50·93 53·00 30·00 12·00 34·00 112·85	4,650 2,790 7,000 4,490 1,753 7,956 7,500	465 279 700 440 175 796 750	1,049,104 12,852 15,650 12,474 1,212 23,500	18,734 260 313 210 22	1,375 48
5 Lake Erie and Detroit River	111·80 23·34 39·50	17,640 5,479	1,905			
8 Manitoba and North-western. 234 50 1 Saskatchewan and Western. 15 47 9 9 Massawi-pi Valley	249 · 97 34 · 00 21 · 00	6,200	620	255,000	5,110	j
1 Montreal and Atlantic, formerly South-eastern	201 50	238,596	23,860	1,254,965	23,390	14,739
2 Montreal Park and Island, Electric 3 Montreal, Portland and Boston	22:03 40:60		509	13,143	368	292
4 Montreal and Vermont Junction 5 Nelson and Fort Sheppard 6 New Brunswick & Prince Edward Island 7 New Glasgow Iron, Coal and Ry. Co.,		1,660	166	10,170	173	1,050
now Nova Scotia Steel Co. 8 Niagara Falls Park & River, Electric Ry. 9 Northern Pacific and Manitoba. 0 Nosbonsing and Nipissing	12 50 13 68 265 64	6,410		4,880 1,760,600	55,119	735
11 Nova Scotia Central 22 Orford Mountain. 33 Ottawa and Gatineau 44 Ottawa, Arnprior and Parry Sound. 55 Ottawa Valley. 56 Parry Sound Colonization.	74:00 26:50 54:60 144:00	1,583 6,337 13,462 8,809 300	621 1,347 969	19,420 49,115 18,640	311 5 1,714 0 4,660 0 62	97- 22,560
77 Philipsburg Ry. & Quarry Co.	6.75			1		

Freight carried, &c.-Continued.

Stock.	Lumb of all kinds Firewoo	except	Firew	700d.	Manufactured Goods.	All other Articles.	Total Weight Carried.	ŗ.	Remarks.
Tons.	Feet.	Tons.	Cords.	Tons.	Tons.	Tons.	Tons.	Num; er	
340,322	482,775,000	965,550	116,928	175,392	767,551	3,260,842	7,002,612	25	
60 432 474 2 18	252,000 1,489,400 17,607,700 37,000 426,509 761,500 20,260,000	366 2,979 26,410 51 468 1,523 30,390	1,240 286 4,608 82 900 9,482	2,232 430 8,161 66	880 565 5,632 1,328 4,061	52,600 1,169 *75,424 4,000	5,360 24,24 89,170 7,671 77,607 11,320 75,415	28 29 30 31 32	*Including coal, stone and hay.
4,856 4,857	14,000 65,000,000 6,730,000 2,715,000 2,480,829	97,450 10,103 4,035 3,149	26,000 570 7,713 376	17 13,317 855 16,768 505	23 58,205 32 1,505	353 *3,467 4,960	546 189,972 14,457	34 35 36 37	*Including pulpwood and bark.
750 2,775	33,729,000 119,000 96,022,107	46,365 357 120,444	70 19,483	88	1,025 69 142,954	132	689	40	
73 104,030	1,309,000 27,559,000	1,869 39,375	20 315	28 452	503	*25,423		42 3 43	*Including15,834 tone
136 48	18,000 6,779,000 169,400	10,168 352	1,162 7	1,762	1,520 1,047 841	*4,288 4,882 *117,672	6,310 20,407	45 46	*Including ore and
28	5,079,300 *65,000,000 8,186,666 6,547,000 724,997	7,619 *145,500 12,280 6,789 1,149	12,000 1,825 3,114 1,884	21,001 3,193 4,614	208 1,517	35,465 4,906	127,578 145,500 15,867 18,758	549 50 51 52	*Logs and lumber.
1,453	16,813,000 9,500 2,533,000 60,000	25,219 14 3,800 90	2,200	1,607	633	16,166 243	50,707 349 13,382	54 55 256	
382	964,983	1,533	*2,333	4,147	3,209 45 3	2,491	14,404	58	tons coal. *Pulpwood.

No. 5.—SUMMARY STATEMENT of description of

=							
er.	Name of Railway.	Mileage.	Flor	ır.	Grai	n.	Live
Number.			Barrels.	Tons.	Bushels.	Tons.	Number.
60 1 62 63 64 65 66 67 68 69 70 71 72 73 74 75	Port Arthur, Duluth and Western	85·50 253·96 242·00 153·50 30·00 52·25 82·50 43·00 12·35 20·31 64·90 4·33 17·00 61·00 16·26	6,780 34,549 119,967 3,410 6,217 4,626 369,830 366 2,320 4,100 11,264 57,670 339	3,454 11,997 383 621 462 36,983 36 232 402 1,406 421 128 5,767 34	15,670 65,097 3,520 19,051 13,428 5,394,750 8,430 11,600 1,500 16,213 4,291 26,058 152,941	118 718 2,600 56	2,045 9,050 65 331 70 417,792 311 458 150 296 899 151 150
	Windsor Branch of Inter- colonial	15,976 75	11,480,191	1,116,472	106,559,523	2,657,398	4,075,964

Freight carried, &c .- Concluded.

Stock.	Lumber of all kinds except Firewood.		Firewood.		Manu- factured Goods.	All other Articles.	Total Weight Carried.	٠	Remarks,
Tons.	Feet.	Tons.	Cords.	Tons.	Tons.	Tons.	Tons.	Number.	
8 1,495 450 1,810	1,331,264 47,148,000	6,160 1,678 68,307 105,237	999 713 26,370 767 452	1,070	1,999 8,074	532 17,696 69,269	12,871 8,504 145,770 195,271 9,419	$\frac{60}{61}$	
165 70 104,448	11,117,000 5,864,000	13,896 5,864 42,150	2,933 179 635	5,299 257		*9,206	29,743 10,526	64 65	*Including hay and plaster. *Including 54,621 tons hay.
111 229 45	889,300 2,000,000	98 13,490 2,000	• • • • • • • •		12,167 50		47,931	68	*Including 9.320
15 359 21 150 28	1,981,714 1,043,405 65,000	293 12,817 3,468 2,359 975 1,054	120 6,222 198 500 1,309	10,335 269 75	672 4,646 5,970 3,204	*4,750 4,559 7,034 76,152 8,599 540	30,164 16,046 85,617 21,370	71 72 73 74	*Including hay.
2,270	9,265,364	13,898	2,782	4,868	32,623	*133,100	196,035	76	*Including hay and produce, apples potatoes and min
875,344	2,284,245,486	3,576,415	609,111	904,056	2,965,314	9,429,482	21,524,421		erals.

No. 6.—SUMMARY STATEMENT of Earnings

=		1			
Number.	Name of Railway.	Mileage.	Passenger Traffic.	Freight Traffic.	Mails and Express Freight.
			\$ cts.		\$ cts.
	Alberta Railway and Coal Co	64 62	2,841 75	25,500 42	471 10
$\frac{2}{3}$	Albert Southern. Bay of Quinte Navigation Co	16.00 64.82	489 00 19,765 89	1,789 66 78,692 02	8,834 79
4	Kingston, Napanee and Western 60 82 Baie des Chaleurs	80.00	5,912 55	7,354 86	407 50
5	Brockville, Westport and Sault St. Marie Buctouche and Moncton	45.00 32.00	$\begin{array}{c} 11,69070 \\ 2,87776 \end{array}$	13,381 71 8,641 38	306 14
7	Calgary and Edmonton	295 07	33,428 00	64,102 71	5,295 72
8	Canada Atlantic	159.00	133,344 09	363,022 80	45,070 21
9 10	Canada Eastern	136·00 381·06	$\begin{array}{ccc} 27,571 & 29 \\ 971,810 & 20 \end{array}$	70,764 64 2,899,084 67	4,881 84 152,002 22
	Canadian Government Railways—	1,136 00	963,914 44	1,782,608 54	*194,194 97
11 12	Prince Edward Island	210.60	62,239 37	68,061 11	18,893 30
ı	Canadian Pacific Railway	6,161 · 00	4,661,224 13	11,097,809 10	784,656 52
	4 Lake Temiscamingue Colonization 5 Caraquet		13,761 80 4,306 63	35,840 56 13,885 66	270 00 2,060 70
	6 Carillon and Grenville		1,678 93 24,760 23	177 14 50,790 22	8,701 65
1	6 Central of New Brunswick 9 Cumberland Railway and Coal Co	75.00	5,660 00 8,584 91	7,301 94 14,388 46	2,072 86
2	Drummond County	90.53	13,368 65	69,879 46	3,793 49
2	1 Elgin and Havelock	. 76.75	1,324 59 39,462 56	5,888 53 59,325 35	710 88 6,043 04
$\frac{2}{2}$	3 Esquimalt and Nanaimo	78.00	57,369 35 1,172 15	48,176 49 2,844 22	2,920 32
2	5 Grand Trunk				
	Brantford, Norfolk and Port Burwell 34 78 Buffalo and Lake Huron 162 00 Grand Trunk, Georgian Bayand Lake Erie 172 75				
	Owen Sound Branch				
	Waterloo Junction				
	Wellington, Grey and Bruce 168 13	j	1	J	ì

for the Year ended 30th June, 1895.

	l	1	1			
Other Sources.	Total Gross Earnings.	Total Net Earnings.	Proportion of Earnings to Working Expenses.	Earnings per Train Mile.	Number.	Remarks.
				<u> 평</u>	Z	
\$ cts.	\$ cts.	\$ cts.	p.c.	Cts.		
25,583 69 122 00	54,396 96 2,400 66	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	113	226·63 40·01	1 2	
2,754 31	110,047 01	33,833 67	144	84.71	3	more to Lethbridge, 109 50 miles, is operated by Canadian Pacific Railway
667 98	13,674 91 25,378 55 12,187 12 102,826 43	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	83 123 84 186	26.86 89.40 63.47 151.35	4 5 6 7	under lease.
42,340 58	583,777 68	176,122 11	143	135 · 20	8	
5,013 10 5,610 97	108,230 87 4,028,508 06	39,732 45 1,310,644 02	158 148	58·52 135·20	9 10	
461 00	2,940,717 95 149,654 78	3,815 21 83,250 41	100 64	73·53 64·96	11 12	
1,368,583 85	17,912,273 60	6,629,767 60	159	145.40	13	Including portion of Alberta Railway am Coal Company's line from Dunmore to Lethbridge, 109 50 miles.
40 00	49,912 36 20,252 99	15,093 62 138 57	143 100	* 63·29	14	
447 95	1,856 07 84,700 05	-1,39991 $13,05839$	57 118	29·00 76·30	15 16 17	
250 58 *83,911 19	13,212 52 108,957 42	-15,991 37 60,167 55	45 223	32·38 157·49	18 19	
477 99	87,519 59 7,924 00	35,204 03 -1,938 07	167 80	97·35 46·88	20 21	
236 72 3,488 33	105,067 67 111,954 49 4,016 37	25,449 85 -174,922 50 1,146 00	132 39 140	67·56 60·90	$\frac{22}{23}$	

No. 6.—Summary Statement of Earnings

Number.	Name of Railway.	Mileage.	Passenger Traffic.	Freight Traffic.	Mails and Express Freight.	
_			\$ cts.	\$ cts.	\$ cts.	
25	Grand Trunk-Continued.		*		1	
	Northern. 172:10 North Simcoe. 33:34 Hamilton and North-western. 173:90 Northern and Pacific Junction 111:37 Toronto Belt Line 12:70 Midland 166:78 Grand Junction 85:40	3,161 · 98	4,954,624 04	10,236,134 74	800,815 71	
	Toronto and Nipissing 85 00 Lake Simcoe Junction 26 50 Victoria 53 25 Whitby, Port Perry and Lindsay 46 50 Cobourg, Blairton and Marmora 15 00 Jacques Cartier Union 6 50					
	Montreal and Champlain Junction. 61.75 Beauharnois Junction. 19.50					
	St. Clair Tunnel	2·23 28·00	*43,656 00 1,494 90	162,858 50 3,021 40		
28	Great North-west Central	50.93	2,300 05	27,688 40	1.000.10	
	Hereford	53.00 30.00	9,392 46 3,212 00	31,367 04 4,526 23	1,292 16 568 23	
31	Joggins, now Canada Coals and Railway Co	12.00	3,640 35	29,490 24	465 29	
	Kent Northern Kingston and Penibroke.	34 00 112 85	3,110 64 29,758 34	7,143 05 77,997 79	868 41 8,346 08	
34	L'Assomption	3.00	1,403 55	193 95	301 72	
30	Lake Erie and Detroit River	111.80	76,936 14	110,291 23	10,331 38	
	Lotbinière and Mégantic	23·34 39·50	735 96 3,361 69	5,778 00	730 08	
	Lower Laurentian Manitoba and North-western 234 50 \	249.97	44,163 87	13,072 82 164,625 86	9,150 89	
3 9	Saskatchewan and Western 15 47 \(\) Massawippi Valley	34.00	49,057 31	104,932 41	1,971 90	
40	Montford Colonization	21 00	458 00	1,015 00	1 00	
41	Montreal and Atlantic, formerly Southeastern. 140 10 Lake Champlain and St. Lawrence Junction	201 50	109,424 55	320,661 39	10,055 94	
	Montreal Park and Island (Electric)	22 03	57,538 75			
	Montreal, Portland and Boston	40.60 23.60	20,135 00 45,293 42	25,501 77 98,432 17	4,116 00 9,181 46	
45	Nelson and Fort Sheppard	55.00	7,892 75	12,636 25	735 20	
	New Brunswick and Prince Edward Island New Glasgow Iron, Coal and Railway Co., now	36.00	5,367 07	12,127 94	1,604 19	
10	Nova Scotia Steel Co	12.50	2,075 78	11,051 93	312 00	
49	Northern Pacific and Manitoba	13.68 265.64	63,643 95 44,393 36	144,434 04	8,753 27	
	Nosbonsing and Nipissing	5·50 74·00	21,405 43	43,650 00 20,469 75	2,146 56	
52	Orford Mountain	26 50	1,938 68	13,367 73	347 76	
53 54	Ottawa and Gatineau	54.60 144.00	25,878 43 56,101 04	24,878 80 63,499 70	2,504 12 5,379 92	
55	Ottawa Valley	7 00	1,128 50	201 25 10,352 42	18 30	
57	Philipsburg Railway and Quarry Co	40.00 6.75	4,375 52 453 76	519 73		
58	Pontiac Pacific Junction	70.60 85.50	13,626 81 1,352 20	17,251 87 6,165 24	2,266 50	
60	Qu'Appelle, Long Lake and Saskatchewan	253 96	13,572 71	33,973 02	2,434 69	
61 62	Quebec and Lake St. JohnQuebec Central	242.00 153.50	56,104 86 110,225 31	126,715 04 208,689 20	10,532 66 10,204 91	
63	Quebec. Montmorency and Charlevoix	30.00	39,791 14	7,708 07		
64 65	Salisbury and Harvey, including Harvey Branch Shore Line	52 · 25 82 · 50	5,115 72 11,236 87	12,105 79 12,945 12	2,478 68 3,192 36	

for the Year ended 30th June, 1895—Continued.

Other Sources.	Total Gross Earnings.	Total Net Earnings.	Proportion of Earnings to Working Expenses.	Earnings per Train Mile.	Number.	Remarks.
\$ ets.	\$ ets.	\$ cts.	p.c.	cents.		
99,632 51	16,091,207 00	4,997,484 04	145	104.61	25	
\$112 50 422 67 175 18 6,714 70 6,220 00 246 67 6,094 35 4,166 67	206,627 00 4,516 30 30,411 12 42,051 66 8,306 46 33,771 06 11,122 10 122,816 91 1,899 22 203,778 75 6,513 96 17,411 26 224,034 97 160,128 29 1,474 00	117,013 91 -1,426 17 9,734 92 -8,578 71 2,443 87 17,931 26 4,329 48 18,625 95 122 20 57,235 57 -31,540 71 459 24 42,919 90 42,909 97 -1,172 00	231 76 147 83 142 213 164 118 107 139 	31.10 211.17 50.14 20.47 192.97 60.55 90.91 35.94 85.33 58.00 70.66 220.60 86.56 30.99	26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	*Tolls on passenger cars. †Tolls on freight cars. ‡Tolls on new locomo- tives.
11,996 28 6,316 53 400 00 197 86 25 80 4,500 00 2,104 81 1,944 14 1,555 96	452,138 16 63,855 28 50,152 77 153,104 91 21,264 20 19,125 00 17,939 71 65,748 76 199,524 81 43,650 00 45,577 70	130,596 12 8,914 26 7,653 69 57,778 87 -6,476 48 4,803 33 2,529 33 25,117 95 -42,320 34 17,459 77 7,911 90 54	141 116 118 161 76 134 116 162 83 167 121	103 56 73 69 101 83 170 45 50 50 114 81 26 99 96 06 492 66 71 59	41 42 43 44 45 46 47 48 49 50	
75 75 81 98 2 50 312 23 171 40 5,385 68 1,004 63 1,336 50 292 93 150 60	15,654 17 53,337 10 125,062 64 1,350 55 14,727 94 973 49 33,457 41 7,688 44 49,980 42 198,738 24 330,124 05 48,835 71 19,993 12 27,524 95	2,690 54 12,301 97 28,149 92 -146 93 2,538 22 -3,079 00 -3,872 58 -7.176 25 12,530 76 16,070 21 115,777 61 14,606 83 428 44 -7,654 15	121 130 129 90 121 24 90 52 133 109 154 143 102 78	108 · 43 69 · 22 20 · 65	56 57 58 59 60 61 62 63	· ·

No. 6.—SUMMARY STATEMENT of Earnings

Number.	Name of Railway.	Mileage.	Passenger Traffic.	Freight Traffic.	Mails and Express Freight.
_		•	\$ cts.	\$ cts.	\$ cts.
66 St	anstead, Shefford and Chambly	43.00	16,703 96	35,688 18	3,772 68
	. Catharines and Niagara Central	12.35	5,156 09	17,360 41	200 00
68 St	. Lawrence and Adirondack	20.31	10,372 83	19,368 47	1,322 60
69 Sy	dney and Louisbourguth Shore, formerly Montreal and Sorel	64 · 90	13,993 22	162,245 13	
		44.67	20,544 11	11,952 99	1,695 58
71 Te	emiscouata	113.00	12,613 08	34,618 45	13,226 81
$72 \mathbf{T} $	nousand Islands	4.33	3,948 99	9,575 12	1,682 92
73 <u>T</u> e	oronto, Hamilton and Buffalo	17:00	6,757 11	27,112 53	137 40
	nited Counties	61.00	9,954 24	23,533 35	233 32
76 D	ctoria and Sydney	16.26	3,552 35	2,876 22	20 25
	Vondoor and Annapolis	220.50	193,908 21	204,372 85	23,474 04
		15,976:75	13,311,440 07	29,545,490 23	2,198,460 22

for the Year ended 30th June, 1895-Concluded.

Other Sources.	Total Gross Earnings.	Total Net Earnings.	Proportion of Earnings to Working Expenses.	Earnings per Train Mile.	Number.	Remarks.
\$ cts.	\$ cts.	\$ cts.	p. e.	cents.		
154 00	56,318 82	96 67	100	77 . 08	66	
89 00	22,805 50	286 19	101	114.02	67	
• • • • • • • • • • • • • • • • • • • •	31,063 90	3,434 80	112	44.85	68	
24,049 67	200,288 02	80,676 46	167	206 · 48	69	
484 04	34,676 72	8,183 96	131	60.83	70	
	60,458 34	1,588 50	103	67.59	71	
2,246 75	17,453 78	4,244 65	132	66.59	72	
180 00	34,187 04	16,624 51	195	107 42	73	
	33,720 91	7,450 52	128	$57 \cdot 27$	74	
	6,448 82	-4,321 56	60	55.97	75	
1,261 60	423,016 70	131,912 84	145	97 · 27	76	
1,730,096 13	46,785,486 65	14,035,817 66				•

No. 7.—Summary Statement of Operating

Number.	Name of Railway.	Mileage.	Maintenance of Line, Buildings, &c.	Working and Repairs of Engines.
			\$ cts.	• • • • • • • • • • • • • • • • • • • •
1	Alberta Railway and Coal Co	64 62	\$ cts. 8,420 03	\$ ets. 11,832 66
$\frac{2}{3}$	Albert Southern	16:00	244 60	1,784 71
4	Kingston, Napanee and Western 60 82 Baie des Chaleurs	64·82 80·00	14,511 10 7,086 41	25,825 65
5	Brockville, Westport and Sault Ste. Marie	45.00	6,182 58	5,769 45 5,804 39
6 7	Buctouche and Moncton. Calgary and Edmonton.	32·00 295·07	3,789 57 17,330 23	4,540 15 18,705 71
8	Canada Atlantic. 138 00 Central Counties 21 00	159.00	80,501 11	140,955 34
9 10	Canada Eastern	136.00	18,968 09	27,300 22
	Canadian Government Railways—	381.06	444,575 04	705,796 82
11 12	Intercolonial Prince Edward Island	1,136 · 00 210 · 60	679,468 39 101,599 30	1,043,656 57 61,485 54
13	Canadian Pacific Railway4,039 50			,
	Atlantic and North-west			
	Credit Valley 175 10			
•	West Ontario Pacific 26 60 Toronto, Grey and Bruce 191 30			
	Guelph Junction			
	Montreal and Ottawa			
	Montreal and Lake Maskinongé 12 90 New Brunswick 173 95	6,161 00	2,742,322 27	3,416,074 87
	New Brunswick and Canada			
	St. John and Maine			
	Fredericton			
	Columbia and Kootenay 27 70 Nakusp and Slocan 36 90			
	Shuswap and Okanagan			
	Tobique Valley 28.00)	_		
14 15	Lake Temiscamingue Colonization	45·84 68·00	5,840 50	7,045 00
16 17	Carilfon and Grenville	13.00 104.00	1,065 95 31,564 37	2,017 93 15,390 12
18 19	Central of New Brunswick	75·00 32·00	11,056 22 13,815 86	8,904 39 17,973 50
20	Drummond County	90.53	13,166 10	16,272 71
21 22	Elgin and Havelock Erie and Huron	27·00 76·75	3,598 43 18,597 20	3,091 59 26,435 30
23 24	Esquimalt and Nanaimo	78·00 1·33	63,940 37 1,470 37	29,829 82
25	Grand Trunk		,	
	Brantford, Norfolk and Port Burwell 34 78 Buffalo and Lake Huron. 162 00			
	Grand Trunk, Georgian Bay and Lake Erie 172.75			
	Owen Sound Branch 12:42 London, Huron and Bruce 69:01		Į.	·
	Waterloo Junction 10.25 South Norfolk 17.00		*	
	Wellington, Grey and Bruce 168·13 Northern 172 10		1	
	North Simcoe	3,161 · 98	1,849,768 20	3,817,350 99
	Hamilton and North-western 173.90 Northern and Pacific Junction 111.37			
	Toronto Belt Line 12.70	ì		1

Expenses for the Year ended 30th June, 1895.

Cars. Expenses.	arks.
1,589 61 26,167 44 48,009 74 200 02 1 From Lethbridge 12 00 510 00 2,551 31 42 52 2 national boundar 4,352 65 31,523 94 76,213 34 58 66 3 Dunmore to Leth operated by Can 610 06 8,069 24 20,666 27 72 80 5	
12 00 510 00 2,551 31 42 52 2 national boundar 4,352 65 31,523 94 76,213 34 58 66 3 567 60 3,080 52 16,503 98 32 42 4 610 06 8,069 24 20,666 27 72 80 5	
4,352 65 31,523 94 76,213 34 58 66 3 Dunmore to Leth operated by Can 610 06 8,069 24 20,666 27 72 80 5	to Coutts on Inter- y—the portion from
567 60 3,080 52 16,503 98 32 42 4 under lease. 610 06 8,069 24 20,666 27 72 80 5	bridge, 109 50 miles, is adian Pacific Railway
768 32 5,373 12 14,471 16 75 37 6	, ,
3,645 96 15,637 67 55,319 57 81 42 7 7 7 7 7 7 7 7 7 7	
37,226 20 148,972 92 407,655 57 94 40 8 3,609 91 18,620 20 68,498 42 37 03 9	
183,119 66 1,384,372 52 2,717,864 04 91 21 10	1
$egin{array}{c c c c c c c c c c c c c c c c c c c $	
	of Alberta Railway and line from Dunmore to- 50 miles.
*34,818 74 1,150 00 140 86 31 24 3,255 98 3,102 91 6,140 37 4,869 53 1,682 30 21,194 45 3,172 05 3,172 05 7,754 76 185,352 04 1,400 00 *34,818 74 34,818 74 20,114 42 62.85 15 66.2 85 15 66.4 54 17 71 57 18 62.85 16d. †Train minuments fied. †Train	es have not been classi- leage not given.
1,153,919 10 4,272,684 67 11,093,722 96 72 12 25 463	

No. 7.—Summary Statement of Operating Expenses

=				
Number.	Name of Railway.	Mileage.	Maintenance of Line, Buildings, &c.	Working and Repairs of Engines.
25	Grand Trunk—Continued.		\$ cts.	\$ cts.
20	Midland 166.78			
	Grand Junction 85 40 Toronto and Nipissing 85 00			
	Lake Simcoe Junction			
	Victoria 53 25			
	Whitby, Port Perry and Lindsay 46 50 Cobourg, Blairton and Marmora 15 00			
	Jacques Cartier Union			
	Montreal and Champlain Junction 61.75			
26	Beauharnois Junction 19 50 J	2 23	4,170 60	52,564 20
27	Great Northern. Great North-west Central.	28.00	1,172 40	3,054 61
28		50.93	2,529 35	6,304 35
29 30	HerefordIrondale, Bancroft and Ottawa	53·00 30·00	18,668 08 1,417 63	$\begin{array}{c} 20,184 \ 38 \\ 2,673 \ 90 \end{array}$
31	Joggins, now Canada Coals and Railway Co	12.00	5,077 62	6,385 80
$\frac{32}{33}$	Kent Northern	$\frac{34.00}{112.85}$	1,652 55 33,806 67	2,530 07 36,339 09
34	L'Assomption	3.00	294 43	662 90
35	Lake Erie and Detroit River 88 05)	111.80	30,888 65	51,084 89
36	London and Port Stanley	23:34	33,185 14	3,042 56
37	Lower Laurentian. Manitoba and North-western 234 50	39.50	5,687 18	5,630 04
38		249 97	54,210 15	44,550 67
39	Saskatchewan and Western 15:47 J Massawippi Valley	34.00	22,979 41	44,839 91
40	Montford Colonization	21.00	567 00	826 00
41	Montreal and Atlantic, formerly South-eastern. 140 10 Lake Champlain and St. Lawrence Junction 61 40	201 50	80,741 90	106,358 59
42	Montreal Park and Island (Electric)	22.03	4,628 97	12,562 14
43	Montreal, Portland and Boston	40 · 60 23 · 60	$\begin{array}{c} 16,127 \ 12 \\ 15,036 \ 52 \end{array}$	13,420 06 34,900 57
44 45	Montreal and Vermont Junction. Nelson and Fort Sheppard.	55:00	14,037 92	3,729 14
46	New Brunswick and Prince Edward Island	36.00	5,821 14	5,519 75
47	New Glasgow Iron, Coal and Railway Co., now Nova Scotia Steel Co	12:50	3,116 17	7,629 85
48	Niagara Falls Park and River Electric Railway	13.68	1,914 44	*4,236 86
49	Northern Pacific and Manitoba	$265 64 \\ 5 50$	84,215 29	58,938 43
50 51	Nosbonsing and Nipissing	74:00	3,690 00 17,560 75	10,800 00 10,019 00
52	Orford Mountain	26.50	4,060-89	5,782 17
53 54	Ottawa and Gatineau	54 · 60 144 · 00	10,638 15 25,833 44	15,058 11 41,108 62
55	Ottawa Valley	7.00	73 43	1,277 05
56	Parry Sound Colonization	40:00	3,230 48	7,092 74
57 58	Pontiac Pacific Junction Philipsburg Railway and Quarry Co	70.60 6.75	16,040 21 913 80	11,751 69 1,505 19
59	Port Arthur, Duluth and Western	85 50	4,957 63	3,585 81
60	Qu'Appelle, Long Lake and Saskatchewan	253 96 242 00	11,116 28 49,390 40	14,803 42
62	Quebec Central	153 50	60,834 02	70,289 34 52,948 98
63	Quebec, Montmorency and Charlevoix	30.00	8,353 33	11,745 29
64 65	Salisbury and Harvey, including Harvey Branch	52·25 82·50	7,520 31 14,696 38	6,563 37 8,776 62
66	Shore Line	43.00	16,970 12	15,285 26
67	St. Catharines and Niagara Central	12:35	4,636 92	6,560 92
68 69	St. Lawrence and Adirondack	29·31 64·90	5,209 29 14,559 76	7,408 43 30,979 94
70	South Shore, formerly Montreal and Sorel	44 67	7,959 26	8,719 99
71	Temiscouata	113·00 4·33	21,833 35 2,265 85	16,560 66 4,902 86
			z. 200 80	4,902 80
72 73	Thousand Islands. Toronto, Hamilton and Buffalo. United Counties.	17:00		4,834 46

for the Year ended 30th June, 1895—Continued.

Working and Repairs of Cars.	General Operating Expenses.	Total.	Cost of Operating per train mile.	Number.	Remarks.
\$ cts.	\$ cts.	. \$ cts.	cents.		
	32,878 29	89,613 09	40:00	26	
51 01 80 52	1,664 45 11,761 98	5,942 47 20,676 20	40 · 92 143 · 57	27 28	
2,064 46 735 90	$9,713 \ 45 \ 1,035 \ 16$	50,630 37 5,862 59	60 36 14 44	$\begin{array}{c} 29 \\ 30 \end{array}$	
1,624 05 100 00	2,752 33 2,510 00	$\begin{array}{c} 15,839 \ 80 \\ 6,792 \ 62 \end{array}$	90·51 36·98	31 32	
5,294 41	28,750 79	104,190 96	77·12 33·63	33 34	
70 33 6,366 96	749 36 58,202 68	1,777 02 146,543 18	61.36	35	
	1,826 97	38,054 67		36	
722 95	4,911 85	16,952 02	68·79 178·33	37	
23,260 73 8,776 07	59,093 52 40,622 93	181,115 07 117,218 32	63.37	38 39	
296 00	957 00	2,646 00	55.63	40	
22,462 78	111,978 77	321,542 04	73.64	41	
8,615 03 3,893 50	29,134 88 9,058 40	54,941 02 42,499 08	62 44	42 43	
23,614 42 701 99	$\begin{array}{c} 21,765 \ 53 \\ 9,271 \ 63 \end{array}$	$\begin{array}{c} 95,326 \ 04 \\ 27,740 \ 68 \end{array}$	63 40 222 37	44 45	
601 66	2,379 12	14,321 67	37.81	46	
3,054 05	4,664 36 31,425 46	15,410 38 40,630 81	98.62	47 48	* Engines and power-house plant (e'ectric).
12,513 31	86,178 12 9,328 09	241,845 15 26,190 23	116 · 43 295 · 60	49	Engines and power-nouse plant (e.ectric).
$\begin{bmatrix} 2,372 & 14 \\ 75 & 00 \end{bmatrix}$	10,011 05	37,665 80	59 16	50 51	
103 09 1,746 97	3,017 57 13,591 90	12,963 63 41,035 13	41 17 83 42	52 53	
5,896-68	24,073 98	96,912 72	53 64	54	
30 00 64 38	$117 \begin{array}{c} 00 \\ 1,802 \end{array}$	$\begin{array}{c} 1,497 \ 48 \\ 12,189 \ 72 \end{array}$	22:89 52:84	55 56	Only operated for 9 months.
1,550 99	$7,987 10 \\ 1,633 50$	37,329 99 4,052 49	73.58 112.56	57	
757 07	5,564 58	14,865 09	123 55	58 59	
2,080 98	$9,44898 \\ 50,74501$	$\begin{array}{r} 37,449 \ 66 \\ 182,668 \ 03 \end{array}$	70:79 96:18	60 61	
$\begin{array}{c} 12,243 \ 28 \\ 17,540 \ 02 \end{array}$	83,023 42	214,346 44	81.00	62	1
4,514 41 1,383 75	9,615 85 4,097 25	34,228 83 19,564 68	68.70 72.38	63	:
1,689 48	10,016 62	35,179 10 56,222 15	66 97	65	
$\begin{array}{c} 3,647 & 16 \\ 642 & 95 \end{array}$	20,319 61 10,678 52	22,519 31	76.95 112.59	66 67	
877 82	14,133 56 66,904 20	27,629 10 119,611 56	39·89 123·31	68	
7,167 66 35 42	9,778 08	26,492 76	46 47	69 70	
2,811 30 128 08	11,664 53 5,912 34	58,869 84 13,209 13	65 81 50 40	71	
208 61	9,140 68	17,562 53	55.18	72 73	
385 86	7,704 81	26,270 39	44·62 463	74	l .

No. 7.—SUMMARY STATEMENT of Operating Expenses

Number.	Name of Railway.	Mileage.	Maintenance of Line, Euildings, &c.	Working and Repairs of Engines.
75 76	Victoria and Sydney Dominion Atlantic, comprising—	16.26	\$ cts. 2,551 84	\$ cts. 4,073 90
40	Windsor and Annapolis 87 · 50 Cornwallis Valley 14 · 00 Yarmouth and Annapolis 87 · 00 Windsor Branch of Intercolonial 32 · 00	220 · 50	121,262 08	74,466 13
		15,976.75	7,028,103 81	10,399,162 42

tor the Year ended 30th June, 1895-Concluded.

Working and Repairs of Cars.	Genera Operatin Expense	g	Total.		Cost of Operating per train mile.	Number.	Remarks.
\$ cts.	\$	cts.	*	cts.	cents.		
	4,144	64	10,770	38	93 · 49	75	
18,054 69	77,320	96	291,103	86	66.91	76	
2,744,753 87	12,577,648	89	32,749,668	99			

No. 8.—SUMMARY OF ACCIDENTS

			o. Sommani	Or	110	CIDE	INIB
	Name of Railway.	Mileage.	Passengers, Employees or Others.	Fell Car Eng			on or rains gines n in
Number.				Killed.	Injured.	Killed.	Injured.
3	Alberta Railway and Coal Co	64.82	Employee				
4 5 6 7	Baie des Chaleurs. Brockville, Westport and Sault Ste. Marie. Buctouche and Moncton. Calgary and Edmonton.	80 00 45 00 32 00 295 07	Employee				
8	Canada Atlantic 138.00 \ Central Counties 21.00 \ Canada Eastern	159.00	Passengers Employees Others				
9 10	Canada Southern	381·06	Employee	· · · · · · · · · · · · · · · · · · ·	2		
11	Canadian Government Railways— Intercolonial	1,136.00	Others Passengers Employees Others	1	5	1	6 2
12	Prince Edward Island	210.60	Employees	: : : : :	i	1	2
13	Canadian Pacific Railway	6,161.00	$\begin{cases} \textbf{Passengers} \dots \\ \textbf{Employees} \dots \\ \textbf{Others} \dots \dots \end{cases}$. ა	1 0	1 5	16
14 15 16 17 18 19 20 21 22 23 24	Lake Temiscamingue Colonization. Caraquet Carillon and Grenville Central Ontario. Central of New Brunswick. Cumberland Railway and Coal Co. Drummond County. Elgin and Havelock Erie and Huron. Esquimalt and Nanaimo. Fredericton and St. Mary's Railway and Bridge Co.	68:00 13:00 104:00 75:00 32:00 90:53 27:00 76:75 78:00	Others.				
25	Grand Trunk	, ,	$\begin{cases} \text{Passengers} \dots \\ \text{Employees} \dots \\ \text{Others} \dots \end{cases}$	7 3	16 3	5	7 16
26 27 28 29 30 31 32 33 34 35	St. Clair Tunnel Great Northern Great North-west Central Hereford Irondale, Bancroft and Ottawa. Joggins, now Canada Coals and Railway Co Kent Northern. Kingston and Pembroke. L'Assomption Lake Erie and Detroit River. L'Assomption Lake Erie and Detroit River. 88 05	2 · 23 28 · 00 50 · 93 53 · 00 30 · 00 12 · 00 34 · 00 112 · 85 3 · 00 111 · 80	Employee.				
36 37 38	London and Port Stanley	23·34 39·50	Employee Employees		1	·¦	
39	Massawippi Valley	1	Employees	. 2			
40	Montford Colonization	1			1		1
41	Lake Champlain and St. Lawrence Junction. 61.40	201 50	Passengers Employees Others Passengers		2		1
42	Montreal Park and Island (Electric)	22.03	Passengers Others	: :::		: :::	

for the Year ended 30th June, 1895.

on o Ti ma	work r near cack king ip ins.	An He ou	ting ms or ads t of d'ws		ipling ars.	by 'thi	isions, or Frains cown com	star ly bein	lking, iding, ing or ng on cack.	E	x- ions.	Stril Brid	king ges.	Otl Cau		Tot	als.	
Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Number.
								 										1 2 3
					1												1	4 5 6 7
					1			2	2						1 1	2	$\left\{ egin{array}{c} 2\\ 2\\ 2 \end{array} \right\}$	8 9
					8		i	 9	1						1	1 10	11 4 3	10
1	4				16 		3 2 12	9	1 4 3			i			16	11 1 	$\begin{bmatrix} 51 \\ 6 \\ \cdots \\ 9 \end{bmatrix}$	11
				5	71	2 	11	28	7 5					5 6	5 48 7	18 42	$\left[egin{array}{c} 34 \\ 174 \\ 25 \end{array} \right]$	13 14 15
															 			16 17 18 19
								1	2							1 1	2	20 21 22 23
····· 2 ·····			3	3	88	1 2	1 26 1	6 25	1 7 23				2	4 16	22 23	6 24 49	$15 \\ 171 \\ 66$	24 25
							1										1	26 27 28 29 30
													.,,,					31 32 33 34
• • • •								2 								2	1	35 36
••••								 								1	2 }	38 39
					4			····i					:		13	1	20 }	40
		j. :	١	1		· · · ·	1	2	469	l	l::::]		J	2		42

No. 8.—SUMMARY OF ACCIDENTS

	Name of Railway.	Mileage.	Passengers, Employees or thers.	Fell : Car Engi	s or	Jum on of Train Eng whe mot	r off ns or ines n`in
Number.				Killed.	Injured.	Killed.	Injured.
43 44 45 46	Montreal, Portland and Boston	40·60 23·60 55·00 36·00	Employee Employee		1 		2
47	Niagara Falls Park and River Electric Railway	13.68	Employees				1
48	Northern Pacific and Manitoba	265 64	Employees Others				
49 50 51	Nosbonsing and Nipissing Nova Scotia Central. Nova Scotia Steel Co., formerly New Glasgow Iron,	5·30 74·00					
52 53	Coal and Railway Co	12·50 26·50 54·60					
54	Ottawa, Arnprior and Parry Sound	144.00	{ Employees				
55 56 57 58 59 60	Ottawa Valley Parry Sound Colonization Pontiac Pacific Junction Philipsburg Railway and Quarry Co Port Arthur, Duluth and Western Qu'Appelle, Long Lake and Saskatchewan Quebec and Lake St. John.	7:00 40:00 70:60 6:75 85:50 253:96 242:00	Employee.				
62	Quebec Central	153.50	{ Employee Others				
63 64 65 66 67 68 69 70 71 72 73 74 75	Quebec, Montmorency and Charlevoix Salisbury and Harvey, including Harvey Branch Shore Line Stanstead, Shefford and Chambly. St. Catharines and Niagara Central St. Lawrence and Adirondack. South Shore, formerly Montreal and Sorel Sydney and Louisbourg Temiscousta Thousand Islands Toronto, Hamilton and Buffalo United Counties. Victoria and Sydney Dominion Atlantic, comprising— Windsor and Annapolis. 87 50 Cornwallis Valley. 14 00	16.26	Employees. Employees. Employee. Others. Employee.		1		
	Yarmouth and Annapolis 87 00 Windsor Branch of Intercolonial 32 00	220 · 50	Employees			<u> </u>	
		15,976.75		25	69	20	89

for the Year ended 30th June, 1895—Concluded.

on o T	work or near rack aking up rains.	An He ou	ting rms or ads t of ad'ws	C	ipling ars.	by th	isions, or Frains rown rom rack.	star ly bein	lking, iding, ving or or ag on cack.	•E	x- ions.		king lges.	Ot Cau	her ises.	Tot	als.	
Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Number.
	1				7		2	1						i	1 1 1 1 1 1 1	1 1 2	3 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	43 44 45 46 47 48 49 50 51 52 53 54 55 66 67 70 71 72 73 74
····	7		6	9	207	6	5	91	58			····		32	1 152	187	658	75

No. 9.—Lines of Railways owned by Coal and Iron Mines, for the year ended 30th June, 1895.

Name.	Length of Railway.	Gauge.	No. of Engines.	No. of Waggons.	Remarks.
Nova Scotia.	Miles.	Feet.			
Acadia Coal Mining Co	8.00 3.00	4·8½ 4·8½	2 4		Known as the Albion Mines Railway. Connecting Drummond Colliery with Intercolonial Railway and Granton
	3.20	4.81	2	26	Wharf, Pictou Harbour, N.S. From Londonderry Iron Co.'s works to Londonderry Station on I.C.R.
Londonderry Iron Co	4.00	4.81	····		From East Mines to East Mines Station.
Londonderry Iron Co	2.00	4.81		· • · · · ·	From Lanark Lime Quarry to Graham Siding, I.C.R.
	3.00	3.00	2	23	From West Mines to Londonderry Iron Co.'s works.
CAPE BRETON.	23.50		10	245	
General Mining Association—					
Sydney Mines	4 80	4.81	4	239	This railroad is used for colliery purposes only.
Dominion Coal Co.— Main Line	40.00	4.83	8	727	These lines are owned and operated by
Victoria Branch	5.00	4.81	2	150	the Dominion Coal Co., under the
Caledonia do	1.00	$\frac{4.81}{4.81}$	2	119 69	name of Sydney and Louisbourg
Reserve	10.00	3.0	4	228	Railway.
Gowrie	1.50	3.6	2	150	
	62.80		23	1,682	

No. 10.—Statement of Aid granted to Railways—Constructed and under Construction—by Governments, for the year ended 30th June, 1895.

Name of Railway.	Loan.	Total.	Bonus.	Total.	Subscrip- tion to Shares or Bonds.	ares	Total.
DOMINION GOVERNMENT.	& cts.	es cts.	.s. cts.	s cts.	66	cts.	60
Albert (now Salisbury and Harvey) Albert Southern	* 29,665 45		50,460 00	:00	~		
Atlantic and North-West Baie des Chaleurs Relleville and North Hastings—Grand Junction (now in Grand Trunk)			620,000 21,888				
Beauharnois Junction Brantford, Waterloo and Lake Erie (now Toronto, Hamilton and Buffalo).			62,400 00 57,600 00	0.00			
Brockville, Westport and Sault Ste. Marie			192,000 U				
Canada Atlantic			1,525,250 00	004			
stern Pacific				H 20 C			
Caraquet							
Central of New Brunswick			88,800 00	*0			
Cornwallis Valley (now in Dominion Atlantic).			44,800 00				
Drummond County Description Lime Company (now in Hereford Ry)			297,920 OK 15,360 OK	0.0			
Elgin and Havelock			c 82,652 82 96,000 00	8.0			
Esquimalt and Manaimo. Esquimalt and St. Mary's Railway and Bridge Commany.	300,000 00		30,000 00				
Grand Trunk	15,142,633 33	:	48 000 00				
Great Hastern							
Great Northern (exclusive of Ottawa Valley Section)			297,088 00				
Greelph Junction							
Hereford	:		55 007 939 40				
Intercolonial. International (Atlantic and North-west) C. P. R.			156,800 00			-	

No. 10.—Statement of Aid Granted to Railways by Governments—Continued.

Name of Railway.	Loan.	Total.	Bonus.	Total.	Subscrip- tion to Shares or Bonds.	Total.
DOMINION GOVERNMENT—Continued.	es cts.	es ots.	es cts.	es cts.	es cts.	es cts.
Fondale Bancroft and Ottawa		:	160,000 00		-	
Joggins (now Canada Coals and Railway Co.)	200 000		37,500 00			٠
Kent Northern	. 7 00,004 21		268,400 00			
Kingston, napanee and western Kingston and Pembroke			48,000 00			
Assemption			249,200 00			
Lake Erie and Detroit River			392,400 00	÷		
:			51.200 00		-	
Learnington and St. Clair (now in Canada Southern)			00 000,96			
Lotbiniere and Megantic.			217,600 00			
Montfort Colonization			105,600 00			
Montreal and Lake Maskinonge	:::::::::::::::::::::::::::::::::::::::		41,280 88,280 88,680 88,680 88,680			
Montreal and Champlain Junction		:	100,000			
Montreal and Ottawa	: : : : : : : : : : : : : : : : : : : :	:	93 757 57			
fontreal and Sorel (now South Shore).		:	361,270,00			
fontreal and Western			121,600 00			
Nakusp and Slocan			113,440 00			
lew Brunswick and Prince Edward Island			56,000 00			
INCH Glasgow Iron and Cost Co.			1,320,000 00			
Now Costs (Latte)			235,200 00			
Nova Scotia Southern	-		240,000 00			
Ontario and Quebec		: :::::::::::::::::::::::::::::::::::::	130,000 00			
Orford Mountain.			20,000			
Ottawa, Arnprior and Parry Sound		:				
	-	:				
Ottawa Valley (formerly part of Great Northern)			192,000,00		·	
arry Sound Colonization						
Philipsburg Railway and Quarry Co	· · · · · · · · · · · · · · · · · · ·	:	313,100,00			
ontiac Pacific Junction.	:		13,600 00			,
Pontiac and Kentrew.			271,200 00			
Fort Arthur, Duluth and Western			3,750,565 38			
Frince Edward Island			1,047,799 50			
Alebec and Lake Su John Lake Su			070 076			

do do do do do do Montreal to Ottawa	-				
90 3	do do determo			+1,500,000 00	
St. Catharines and Niagara Central	Montreal to Ottowas			147,200 00	
St. Louis and Richibucto.		000000	:	22,400 00	
St. John Bridge and Railway extension 24 John Volley and Rividge du Loun		000,000		48,000 00	
St. Lawrence and Adirondack				65,001 60	
St. Clair Tunnel		:		375,000 00	
Shuswap and Okanagan		:		163,200 00	
South Norfolk				89,600 00	
Sydney and Louisbourg				646,400 00	
Phonesand Islands				54,400 00	
Pobique Valley			:	182,400 00	
Coronto, Grey and Bruce		:		904 800 00	
United Counties				32,800 00	
West Ontario Pacific				90,000	
Western Counties (now in Dominion Atlantic).	lantic)			500,000	
Vindsor and Annapolis (now in Domin	ion Atlantic)	:	16 030 633 05	1,133,309 00	137,966,144,63
+ Dominion Government pays to	+ Dominion Government pays to Quebec Government 5 per cent inter est per annum on these two amounts.	est per annum	on these two	amounts.	
ONTARIO GOVERNMENT	ERNMENT.				
Brantford, Norfolk and Fort Burwell, in Grand Trunk	n Grand Trunk			270,000 00	
anada Central				1,479,000 00	
anada Southern.			:	147,858 65	
Central Ontario		00 000 96		18,740,00	
obourg, Biairton and Marmora		00,000,00		531,000 00	
rie and Humon				83,000 00	
rand Junction and Belleville & North	Hastings		:	224,660 00	
rand Trunk, Georgian Bay and Lake	Srie	:::::::::::::::::::::::::::::::::::::::	: : : : : : : : : : : : : : : : : : : :	336,000 00	
amilton and North-western		:	:	130,020,021	
ondale, Bancroft and Ottawa.		•	:	456.493 00	•
ingston and remotoke				90,000 00	
angson, trapanee and recommendation				178,630 00	
idland			:	168,350 00	
ontreal and Ottawa		: : : : : : : : : : : : : : : : : : : :	:	100,000	
orthern		:			
orth Simcoe					
Parry Sound Colonization					
∶≽					
Foronto and Nipissing.		:	:	105,212 00	

Name of Railway.	Loan.	Total.	Bonus,	Total.	Subscription to Shares or Bonds.	Total.
ONTARIO GOVERNMENT—Continued.	& cts.	& cts.	& cts.	es cts.	s cts.	& cts.
Toronto, Grey and Bruce. Victoria Wellington, Grey and Bruce. Whitby, Port Perry and Lindsay.		36.000.00	375,282 00 312,000 00 241,276 00 94,957 59	7,239,538 24		
QUEBRC GOVERNMENT.						
Baie des Chaleurs			988,546 00 179,073 00			
Beauharnois Junction Canada Atlantic			200,000 00			
P. Great Eastern			438,250 00			
Drummond County.	:		103,000 00			
International (now Atlantic and North-west—C.P.R.)			391,122 02			
Lake Champlain and St. Lawrence Junction	:		250,280 00 308,255 01			
Lake Temiscamingue Colonization Kaliway			3,675 00			
Lotbinière and Mégantic			87,500 00			
Lower Laurentian.			228,000 00			
Montford Colonization		:	73,500 00			
Montreal and Champlain Junction	:		150,060			
Montreal and Ottawa			231,122 00			
Montreal and Sorel (now South Shore)		:	226,645 00			
Montreal and Western	: : : : : : : : : : : : : : : : : : : :	:	472,500 00			
Montreal and Lake Maskinongé	:	:	154,730 00			
Orford Mountain			665,620 00			
Ottawa and Gabineau			25,390 00			
Philipshurg Ry, and Quarry Co.			25,720 00			
Pontiac Pacific Junction		:	237,080 00			
Pontiac and Renfrew	: : : : : : : : : : : : : : : : : : : :	:	2.748.000.00			
Quebec and Lake St. John			1 055,648 14			

including North Shore	3,722,956 00	727,000 00 192,000 00 497,007 10			•
South-eastern (now aronerea and Adamote) St. Lawrence and Adirondack		65,216 00 306,050 00			
United Counties. Waterloo and Magog (now Atlantic and North-west—C.P.R.)	3,722,956 00	210,000 00 92,000 00	12,740,159 27		
NEW BRUNSWICK GOVERNMENT.					
Albert (now Salisbury and Harvey)		455,000 00	•		
Albert Southern Buctonche and Moncton		96,000 00			
Caraquet Central of New Brunswick		139,000 00			
Chatham Branch (now part of Canada Eastern). Fredericton		230,000 00			
Grand Southern (now Shore Line)		413,000 00 9,000 00		_	
Kent Northern		135,200 00			
New Britiswick		575,000 00			
New Brunswick and Prince Edward Island.		105,000 00			
F Northern and Western (now Ganada Eastern).		107,500 00			
St. Martin's and Upham (now Central of New Brunswick)		145,600 00			
St. John Bridge and Railway Extension		88 500 08 00 00 00		300.000 00	
St. John Valley and Rivière du Loup.		195,000 00	· · · · · · · · · · · · · · · · · · ·		
St. Louis and Richibucto		21,000 00 66,000 00			
Temiscounta. Tobique Valley.		70,000 00	4,356,300 00		300,000 00
Nova Scotia Government.					
Cornwallis Valley (now in Dominion Atlantic). Joggins (now Canada Coals and Railway Co.). New Glasgow Iron, Coal and Railway Co. (now Nova Scotia Steel Co.)		44,800 00 35,200 00 40,000 00 432,361 08			
Nova Scotia Central Nova Scotia Souteral Nova Scotia Souteral Springhill and Parrsboro' (Cumberland Railway and Coal Co.). Stewiacke Valley and Lansdowne. Sydney and Louisbourg, Dominion Coal Co. Western Counties (now in Dominion Atlantic).		307,200 00 173,650 00 236,800 00 87,808 00 679,197 45	2,036,916 53		
Sydney and Louisbourg, Dominion Coal Co		679,197 45	2,036,916 53		

No. 10.—Statement of Aid granted to Railways by Governments—Concluded.

Name of Railway.	Loan.	Total.	Bonus.	Total.	Subscrip- tion to Shares or Bonds.	Total.	
MANITOBA GOVERNMENT.	& cts.	ee cts.	e cts.	* cts.	* cts.	s cts.	ı
Canadian Pacific. Manitoba and North-western. Manitoba South-western Colonization. Northern Pacific and Manitoba. Saskatchewan and Western	649, 934 27 900, 000 00 50, 000 00		237,377 50	770,677 50			
nnipeg and Hudson Bay, (now Winnipeg Great Northern) British Columbia Government.	1	1,855,934 27					
Canadian Pacific.	:	:	37,500 00	37,500 00			
Total aid granted by Governments		21,635,523 32		165,147,236 17		300,000 00	

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Railways by Munici
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granted to Rai
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LATEM
No. 10.—STATEMENT
No.

Name of Railway.
Bay of Quinté Ry. & Navigation Co. Brockville, Westport and Sault Ste.
Marie do do do do do do do do do do do do do do do
Buffalo and Lake Huron
Canada Southerndo do do do do do do do do do do do
Canadian Pacific. Cobourg, Blairton and Marmora. Central Counties. do do
doCentral Ontariodo
ор

Total.	ee .	
Subscription to Shares or Bonds.	→ cts.	
Total.	e cts.	1,085,000 00 257,500 00
Bonus.	es cts.	200,000 00 1135,000 00 175,000 00 350,000 00 350,000 00 20,000 00 110,000 00 115,000 00
Total.	e cts.	
Loan.	& cts.	
Name of Railway.		Credit Valley. do do do do do do do do do do do do do d
Municipalities.	ONTARIO-Continued.	

		50,000 00	20,000 00				
		50,000 00	:				
929,000 00	88 800 00			491.030.00		599.805 00	
29,000 00 (55,000 00 (75,000 00 7,500 00 3,000 00	150,000 00 5,000 00 15,000 00 35,000 00 8,000 00	:	170,000 00 318,000 00 3,000 00	99,733 00 11,289 00 30,974 00 354,077 00 12,084 00 22,592 00 20,740 00 2,500 00 2,500 00	20,336 00	20,000 00 15,000 00 10,000 00 10,000 00
			173,000 00				
			:				
	Frand Trunk, Owen Sound Branch do do do			mbroke do do do	rth-western do do do do do do do do do do do do	op op op	roit River.
පි රි පිදිපිදිපිදිපිළි	Frand Trunk, Ow do do	Grand Junction do do do do do do do do	Guelph Junction	Kingston and Penibroke. do do do do	Hamilton and North-western do	၀ ဝဝ	Lake Erie and Detroit River. do do do do do
Town of Harriston. Township of Normanly do Bentinck. do Brant. do Elderslie. do Arran. do Arran. do Amabel. do Kepyel do Albemarle Town of Mount Forest. Township of Egremont. Town of Durham.	Town of Owen Sound Township of Sarawak do Keppel		City of Guelph	County of Frontenar. City of Kingston. Village of Renfrew	Hamilton of Georgetown. of Peel Sinncoe of Collingwood ip of Innisfil. Woo house. Adjala Essa Tossoronto.	of Al nip of	South Colchester. Garfield. of Kingsville.
Town of Town of Town of the control of the control of the control of the control of the control of Town of Tow	Town Town	City of Village Townsh do do do	City o	Count City of Village	City of Village County do do do do do do do do do do do do do	do Village Townsł	do do Village Townsh

No. 10.-Statement of Aid granted to Railways by Municipalities-Continued.

Municipalities.	Name of Railway.	Loan.	Total.	Bonus.	Total.	Subscription to Shares or Bonds.	Total.
ONTABIO—Continued.		es cts.	e cts.	e cts.	& cts.	æ cts.	s cts.
Township of East Tilbury. do Raleigh. Village of Blenheim. do Ridgetown.	Lake Erie and Detroit River do do do do do do			5,000 00 10,000 00 5,000 00 12,500 00	60 00		
Township of East Gwillimbury Lake Simcoe Junction do do do do do do do do do do do do do	Lake Simcoe Junction			45,000 00 20,000 00 20,000 00	00°10		
do Whitechurch Village of Leamington	lair, in			15,000 00	100,000 00		
Township of Mersea.	do do do do			6,000 00	9	9 (44)	
nip of London	London, Huron and Bruce		:	15,000 00	99°490		
do Osborne.				25,000 15,000 00			
Goderich. E. Wawanosh				25,000 00 25,000 00 25,000 00			
Hallet Tuckersmith	90 go			10,000			
do Morris.				10,000 00			
of Clinton.	op			20,000 00 10,000 00			
do Kincardine	op op op			9,000 00	911 500 00		
Township of Thorah. Town of Port Hope. Townships of Orillia and Matchedash. Town of Orillia. Township of Tay Village of Omenee	Midlanddo			50,000 00 30,000 00 12,500 00 12,500 00 21,370 85 2,000 00	on one tree	<u> </u>	

Township of Mara Town of Peterborough.	op		12,500 00 4,000 00	30 000		
do Napanee. Village of Newburgh. Township of Camden. Sheffield do Loughborough City of Kingston.	Kingston, Napanee and Westerndo do do do do do do do do do do do do d		30,000 00 17,500 00 15,000 00 15,000 00 75,000 00	144,870 85		
	Northern do		100,000,000	102,500 00	190,000 00	
Town of Barrie do Orillia Townships of Collingwood, Euphrasia			30,000 00 12,500 00	:	0000000	
and St. Vincent.	ор		99,480 00	00 000 110		CO CARD COR.
Town of Smith's Falls do Merrickville. Township of West Winchester. do Thamesford	Ontario and Quebec.		25,000 00 10,000 00 15,000 00 3,500 00	241,300 00		ow, two
City of Ottawa. Township of Huntley do Hagarty	Ottawa, Arnprior and Parry Sound.		100,000 00 4,392 00	52,500 00	2 000	
Town of Arnprior				104,392 00	30,000 00	
do Port Arthur	Port Arthur, Duluth and Western do	•	25,000 00 15,000 00			35,000 00
Town of Sincoe Township of Charlotteville do South Walsingham	South Norfolk do do		20,000 00	40,000 00		
City of St. Catharines	St. Catharines and Niagara Central 80,	80,000 00		65,000 00	80,000 00	
Town of Thorold	op op	80,000 00	:		20,000 00	
City of Ottawa	St. Lawrence and Ottawa do do 100,	200,000 00 100,000 00			60,000 00	100,000 00
do Gananoque City of Toronto Township of Scarboro do Markham do Warkham do Scott do Brock do Eldon	Thousand Islands. Toronto and Nipissing. do do do do do do do do do do do do do do do do do do do do do	300,000 60	150,000 10,000 30,000 50,000 10,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000	10,000 00		90,000 90

No. 10.—Statement of Aid granted to Railways by Municipalities—Continued.

Subscrip- Total. tion to Shares Total. or Bonds.	\$ cts. \$ cts.	388,500 00		00 000 886	25,000 00 25,000 00 25,000 00
Bonus. T	& Cts.	88 88 88888	25,000 00 25,000 00 30,000 00 25,000 00 35,000 00 35,000 00		25,000 00 5,000 00 5,000 00 5,000 00 4,000 00 4,000 00 225,000 00 4,000 00 26
Total.	& cts.				
Loan.	& cts.				
Name of Railway.		Toronto and Nipissing	ද ඉදුල් ඉදුල්	do do do do do do do do do do Toronto, Hamilton and Buffalo, com-	Lake Erie
Municipalities.	ONTARIO—Concluded.		Ora P Or Gro	do Gorrie and Wroxeter. Village of Teeswater Township of Culross do Turnbury.	fownship of Oakland Village of Waterford City of Hamilton Township of South Grimsby

		740 500 00	749,500 00		
	47,000 00	25,000 00	9,481,142 78	00 500	20,000 00
28,000 96 7,000 00 10,000 00 2,000 00	10,000 00 10,000 00 10,000 00 10,000 00 278,000 00 278,000 00 278,000 00 278,000 00 28,000 00 118,000 00 118,000 00 118,000 00 88,000 00 88,000 00 88,000 00 88,000 00	70,000 00 15,000 00 30,000 00 2,000 00 85,000 00 20,000 00		600 000 000 000 000 000 000 000 000 000	10,000 00 5,000 00 10,000 00 10,000 00
		6	553,000 00		
do do do do do do do do do do do do do d	Wellington, Grey and Brucedo do do do do do do do do do do do do d	West Ontario Pacific. Whitby, Port Perry and Lindsay do do do do do do do do do do do do do d		Baie des Chaleurs. do do do do do do do do do do do do do d	Canadian Pacific Drummond County do Great Eastern do
Waterloo Junction Waterloo Junction do do do do do do do do do do do do do d		West (Whitb do do do do do do do do do do do do do	•		:::::
Township of Woolwich. Section of Peel. Village of Elluirs. do St. Jacobs	Fergus Peel Peel Riora. Ejora. Maryboro' Nichol Walhace Winto Bruce Howick Listowel Cirey Elma Morris W. Wawanosh Asthield Turnbury. Kincardine.	City of London Town of Whitby Township of Whitby On do Reach do Scugog County of Victoria. Village of Port Perry Manufacturing Co	QUEBEC.	Caplin New Richmond. Maria. Carleton. Nouvelle and Shoolbred. Paspebiac. Hamilton.	Farnham. Town of Nicolet. Municipality of St. Leonard Parish of St. Antoine do St. Denis.

No. 10.-Statement of Aid granted to Railways by Municipalities-Continued.

Total.	85, 000 00 00 00 85, 000 00 00 85, 000 00 00 00 85, 000 00 00 00 00 85, 000 00 00 00 00 00 00 00 00 00 00 00 0
Subscription to Shares or Bonds.	25, 600 00 00 00 ccf.
Total.	51,000 00 00 1,500 00 1,500 00 25,000 00 25,000 00 101,000 0
Bonus.	10,000 00 1,000 00 10,000 00 10,000 00 11,900 00 1,500 00 1,500 00 1,500 00 1,000 00 1,000 00 1,000 00
Total.	±±±±±±±±±±±±±±±±±±±±±±±±±±±±±±±±±±±±±±
Loan.	र्यु इ
Name of Railway.	Great Northern. do International, now in Atlantic and North-west, C.P.R. Law Champlain & St. Lawrence. do do do L'Assomption. Lower Laurentian. Massawippi Valley. Missisquoi & Black River Valley, now in Atlantic & North-west, C. P.R. do do do do do do do do do do do do do d
Municipalities.	Parish of Ste. Sophie. Village of New Glasgow. Country of Compton. St. Pie. L'Ange Gardien. St. Paul. Philipsburg. Town of L'Ascomption City of Three Rivers. Ascot. Hatley Township of Melbourne and Brompton God Bolton Ormstown. St. Constant. St. Constant. St. Philomene. LaPrairie Huntingdon. St. Prindore Huntingdon. St. Prindore Dewittsville. Municipality of Rigaud Parish of Rigaud Parish of Rigaud Powit tsville. Chambly Canton do Basin. Country of Pontiac.

No. 10,—Statement of Aid granted to Railwaye by Municipalities—Concluded.

Municipalities.	Name of Railway.	Loan.	Total.	Bonus,	Total.	Subscrip- tion to Shares or Bonds.	Total.
NEW BRUNSWICK.		& cts.	e cts.	& cts.	& cts.	se cts.	s cts.
Hillsboro', Hopewell and Harvey Parishes. Coverdale, Hillsboro', Hopewell and Harvey do Harvey Parishes.	Albert, now Salisbury and Harvey.			40,000 00			
City of St. John City of Fredericton County of York.	Canadian Pacific Fredericton do			50,000 00	40,000 00		
Parish of St. George do Pennfeld.	Grand Southern, now Shore Line do do do	2,000 00 500 00 500 00	900		90,000,00		
Fairfield	New Brunswickdo		3,000 000	12,000 00	90		
City of Calais do Houlton do St. Stephen	New Brunswick and Canada do do do do do			12,500 00 22,000 00 13,000 00	23,000 00		
Town of Chatham	Northern and Western of New Brunswick, now Canada Eastern Elgin, Petitcodiac and Havelock		20,000 00		13,000 00		
ity of St. John	St. John and Maine	:	:				60,000 00
Nova Scotia.			23,000 00	1 1	273,500 00	' ' <u>.</u> .	00 000,00
County of King's	Cornwallis Valley	:			27,685 00	•	
	Western Counties, now Dominion Atlantic		:		150,000 00	· · · · · · · · · · · · · · · · · · ·	
	way Co St. wiacke Valley and Lansdowne. Nova Scotia Southern			50,000 00	8,000 90 8,000 00		

00 000 08	269,685 00	07.000.07.0	00 (00)(0) 2 to	10,000 00	595,600 00	37,500 00	Lapsed.
25,000 00 5,000 00	!	200,000 00 35,000 00 35,000 00 100,000 00	75.000 00 50,000 00 30,000 00 20,000 00 40,000 00 600 00		<u>!</u> . !		

			th-western do do do do do do do do do do do do do	Western			nd Qu'Appelle.
do do		Canadian Pacificde	Manitoba and North-western do do do do do do do do do	Saskatchewan and Western		Canadian Pacific.	Wood Mountain and Qu'Appelle.
Queen's. Lunenburg	Manitoba.	City of Winnipeg. County of Selkirk. Township of St. Andrews. Town of Morris.	County of Westborne Town of Portage la Prairie do Minnedosa Municipality of Shoal Lake do Strathclair	Rapid City	. Вытлян Социмвіл.	City of New Westminster	North-west Territories. Qu'Appelle
do do		City of V County of Townshij	County c Town of do Municipé do do do	Rapid Ci		City of N	Noi Qu'Appel

No. 10.—Summary of Aid granted to Railways, constructed and under construction, by Governments and Municipalities, 30th June, 1895.

SUMMARY.

Grand Total.	s ets.	16,352,001 78
	\$ cts. 153,996,777 68 7,265,538,24 16,463,115,27 4,666,300 2,636,916,53 2,636,611,77	10,783,642,78 4,309,074,00 354,500,00 269,685,00 365,600 37,500,00
Total.	% Cf8.	2,202,500 00
Subscription to Shares or Bonds.	% cts.	749,500 00 1,383,000 00 60,000 00
Total.	8 cts.	11,139,501 78 176,286,737 95
Bonus.	8 cts. 137,066,144 f3 7,239,538 24 4,356,300 00 2,036,916 53 770,677 50 37,500 00	9,481,142.78 482,074 (N 273,560 (0 263,685 (0 555,600 (0 37,500 (0)
Total.	A cts.	3,010,000 00
Loan.	7. cts. 26,000 00 3,722,956 00 1,855,934 27	2,434,000 00 2,434,000 00 23,600 00
1	Dominion Ontario Ontario Ontario Ontario New Brunswick Nova Scotiu Manitoba British Columbia. Manitoba Manitoba Manitoba	Ontario Quebec New Brunswick Nova Scotia. Manitola British Columbia. North-west Territories.

APPENDIX No. 17.

MEMORANDUM ON RAILWAY PROGRESS IN THE DOMINION OF CANADA AND ITS BENEFICIAL EFFECT ON THE ECONOMIC DEVELOPMENT OF THE COUNTRY, MORE PARTICULARLY IN THE PROVINCES AND TERRITORIES WEST OF LAKE SUPERIOR.

By the Hon. SIR CHARLES TUPPER, BARONET, G.C.M.G., C.B.,

HIGH COMMISSIONER FOR CANADA IN LONDON, FORMERLY MINISTER OF RAILWAYS AND CANALS, MINISTER OF FINANCE OF THE DOMINION OF CANADA, ETC., ETC.

(See the accompanying Map of the Railway System of Canada.)

The endeavour to trace in the history of the development of Canada the proportion of its advance fairly attributable, directly, to the extension of its railway system, is a matter of difficulty, in view of the exceptional facilities for communication by water which the country possesses, and which, even in the present day, must be regarded as a main factor of its commercial prosperity. A water way which extends from the mouth of the River St. Lawrence to Port Arthur at the head of Lake Superior, a distance of 2,260 miles (3,637 kilometres) made navigable by a system of canals, has constituted an independent element of advancement which must be considered in dealing with the general question, while immense internal rivers and innumerable lakes have borne in the past, and still bear, their share in the progress of the country. The proximity of these water ways, however, formed the limitation to general settlement.

It is not until the vast extent of territory west of Lake Superior is reached, that the paramount importance of railway communication, if these great fertile plains and valleys are ever to be utilized for the public good, is realized. The extent of this section may be understood from the single statement that it has required the construction of 2,257 miles (3,632 kilometres) of railway to span the dis-

tance between Lake Superior and the waters of the Pacific.

But though this generous and ready means of water communication exists, it exists only for the warmer portions of the year, and for the long winter months, from the end of November to the end of March, the whole interior of the country would be in a state of isolation, and trade would be dormant or paralysed were it not for the railways, which now, from east to west, with their ramifications to the north and south, pierce the country in every direction, collecting and distributing the products of the forest, the field, and the factory, through the length and breadth of the land, and giving ready access to and from all the centres of population, without heed to the restrictions and barriers of the winter climate. For Canada, in a greater degree than for any other country, the presence of the railway is for this reason absolutely essential to the maintenance of its prosperity and the continuance of its growth.

Important Epochs.

For the purpose of briefly indicating the beneficial effects produced in this country by railway construction, it will be well, perhaps, to glance at Canada's position at three or four epochs, bearing in mind always that the results shown are not in all cases clearly defined or definable as direct results of railway enterprise,

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ard that other causes may have been at work contemporaneously to produce them: to the railway nevertheless is unquestionably due a large and perhaps the largest share of the present status.

These epochs may be the following:

1st. The commencement of railway construction in Canada in 1836.

2nd. The completion of the Grand Trunk Railway from Rivière du Loup to Sarnia, in 1860.

3rd. The Confederation of Canada, in 1867.

4th. The completion of the Intercolonial Railway main line from Halifax to Lévis, in 1876.

5th. The commencement, in 1877, and the completion, in 1886, of the Canadian Pacific Railway main line from Montreal to the Pacific.

6th. The present date, 1894-1895.

It must be remembered that Canada, as at present constituted, is of recent birth, the following being the dates of important changes. From 1791 to 1841 four distinct divisions exist with separate governments, laws and archives, viz.:—Nova Scotia, New Brunswick, Lower Canada (now Quebec) and Upper Canada (now Ontario.) In 1841 Upper and Lower Canada were united under the name of the province of Canada, In 1867 the confederation of these four provinces occurred; since which date the gathering of statistical information is less difficult. In 1870 the North-west Territories were acquired and the province of Manitoba was created. In 1871 British Columbia and in 1873 Prince Edward Island joined the Dominion.

First Railway Built.

The first railway enterprise in the country was the construction of a short section of road, 46 miles long, between Laprairie and St. Johns, in what is now the province of Quebec but at that time called Lower Canada. This was opened in July, 1836, with horse traction, locomotive power being adopted the following year. It was part of the Montreal and Champlain Railway, which was completed in 1851, giving communication between Caughnawaga, on the south side of the River St. Lawrence, above Montreal, and Rouse's Point near the boundary line of the United States.

Between 1837 and 1850 but little was done in the direction of railway works, there being in the year 1847 only 54 miles (87 kilometres) of railway in operation, all in Lower Canada. The principal means of communication was by water, which was made available by the construction of the system of canals on the River St. Lawrence, opened in 1848, the Welland Canal, giving access from Lake Ontario to Lake Huron, having been opened in 1829.

Grand Trunk Railway commenced.

The decade between 1850 and 1860, however, was one of considerable activity. It saw the commencement, in 1852, and completion, in 1860, of the Grand Trunk Railway system, a total of 872 miles (1,403 kilometres) in Canada; the main line extending from Rivière du Loup, on the east, to Sarnia on the Detroit River, the western limit.

The portion between Montreal and Toronto was completed and opened by the middle of 1856, while by the construction of the Victoria Bridge over the St. Lawrence, opened in December, 1859, direct railway communication was had with the southern terminus of the line at the harbour of Portland; in the state of Maine, U.S.

Intercolonial Railway surveys.

In the provinces of Nova Scotia and New Brunswick not much, it is true, was actually done in railway construction, but the importance of a line of railway which

should connect the Canadian Atlantic seaboard with Quebec, a scheme first proposed as early as 1832, was so manifest that in 1836-1837, a survey was made of the country between St. Andrews, on the Bay of Fundy, and Lévis, opposite Quebec, towards the expense of which the Imperial Government contributed £10,000 (250,000 francs). In view of the objections of the United States, based on the unsettled boundary between Canada and the state of Maine, the question was not settled until 1842, when the decision was adverse to Canada, and necessitated a new survey, made in 1844, which, by a considerable detour, avoided the territory in dispute, which had been crossed by the original location.

In New Brunswick, in the year 1852, the railway between St. John and Shediac, on the Gulf of St. Lawrence, was commenced, and was opened for traffic in 1860.

The length was 108 miles (174 kilometres).

Meantime, in the province of Nova Scotia a line of railway, commenced in 1854 and completed by the close of 1858, had been constructed between Halifax and Truro, 61 miles (98 kilometres).

This was the nucleus of what is now the Intercolonial Railway.

Railway statistics of 1860.

In the year 1860 a systematic attempt was made for the first time by Government to collect and arrange information respecting railway matters. In that year there were 16 railway companies, operating, in the province of Canada, 1,880 miles (3,026 kilometres), or with the addition of the connecting lines owned by them in the United States, a total of 2,107 miles (3,391 kilometres). Of this total, the cost of 1,974 miles (3,176 kilometres), with equipment, was \$97,179,641 (485,898,208 francs) towards which the Government had contributed assistance to the extent of \$20,246,247 (101,231,235 francs). In the year 1860, 2,030 miles (3,267 kilometres) earned \$5,722.666 (33,613,332 francs), the expenses of their operation being \$5.675,511 (28,377,557 francs). The number of passengers was 1,825,755, and 1,459,446 tons (1,459,446 tons met.) of freight were carried; as to freight, however, 5 lines of minor importance, comprising 91 miles (146 kilometres), do not make The average speed of express trains was 243 miles (391 kilometres) per hour, including stops. The total number of persons employed on all the railways At the end of the year 1859 there were on all the railways 384 locomotives. The Grand Trunk Railway owned 217. The rails were of iron, all single track, and the fuel used for the locomotives was wood.

Intercolonial Railway commenced.

By the Act of 1867 confederating the four separate provinces of Canada, it was an express stipulation that the Intercolonial Railway should be built by the Dominion Government to give the desired connection between the Maritime Provinces and central Canada.

The work was accordingly at once taken in hand, and the railway was completed and in July, 1876, was opened as a through line up to Rivière du Loup, where it joined the section of the Grand Trunk running between that point and Lévis opposite Quebec; the Government purchased this section in 1879. Meantime, in 1871, British Columbia, and in 1873, Prince Edward Island, had been admitted into the Dominion.

By the completion of the Intercolonial Railway and the connections thereby made with the existing systems, direct communication was obtained between the two Canadian Atlantic ports of Halifax in Nova Scotia and Saint John, New Brunswick, and a number of lake ports at the head of Lake Ontario, the head of Lake Erie and on Lake Huron, making connection with the American lines from the west and south and tapping the traffic of the great lakes at various points.

The 1st of July, 1876, therefore, marks the beginning of a new epoch in the rail-way history of the country, and the statistics of the fiscal year 1875-1876, which closed on the 30th of June, 1876, are of importance for purposes of comparison.

Railway statistics for 1875-1876.

The number of railways in operation at that date was 37, including Government roads (the Intercolonial and the Prince Edward Island Railways) with a total length of 5,157 miles (8,299 kilometres), from which is to be deducted for mileage of the Grand Trunk Railway in the United States, 228 miles (367 kilometres), leaving 4,929 miles (7,932 kilometres) operated in Canada. With the exception of 79 miles (127.8 kilometres) of the Great Western, all were single track lines, 2,373 miles (3,819 kilometres) were laid with steel, 2,758 miles (4,438 kilometres) with iron, and, in the case of one line, 25½ miles (41 kilometres) with wooden rails. The total "paid up capital" of railways in operation and under construction amounted to \$333,886,047 (1,669,430,238 francs), of which there was expended by the Dominion Government \$60,283,026 (301,415,131 francs).

6,331,757 tons (6,433,065 tons met.) of freight and 5,544,814 passengers were carried. The earnings aggregated \$19,358,084 (96,790,420 francs) and the cost of operating \$15,802,721 (79,013,607 francs). There were 1,000 locomotives, 773 passenger cars, and 13,647 box freight and cattle cars. The above figures do not include certain short lines operated by coal companies for shipping purposes, of which

there were in Nova Scotia 15, aggregating 111 miles (1786 kilometres).

Besides the railways in operation there was much work of construction in progress, both by Government and by private companies. Published official returns for the previous year show that on the 30th of June, 1875, there were under construction, but not opened, 2,275 miles (3,661 kilometres) of road. These included work on the railway in contemplation to connect Canada west of the great lakes with the waters of the Pacific, which ultimately took completed form under the name of the Canadian Pacific Railway.

General position of railway construction in 1876.

Before considering this great work, and the new epoch which its construction inaugurated, it would be well to note to how limited an extent the interior of the country had so far been touched by railways. A map which accompanied the Departmental Report of 1876, shows, indeed, a through line connecting the principal cities of the Dominion and communicating with American lines to the south and west, but this through line bordered closely on the River Saint Lawrence, and with the exception of a line of the Grand Trunk Railway to Ottawa, about 50 miles (80 kilometres) north on the river, and another about 120 miles (193 kilometres) long, from a point on the main line to the River Ottawa at Pembroke, there was practically nothing to pierce the dense forests with which the interior of the country was covered beyond a few more or less difficult and sometimes impassable roads and paths, and these of but limited extent. Quebec had, it is true, communication by ferry, with the railway across the river, but none to the east, west or north. Montreal had no railway to the north or east, though by means of the Victoria bridge she had ample connection with the south.

This condition of things was, however, being rapidly altered. A line of railway was in course of construction on the north side of the Saint Lawrence between Quebec and Ottawa, and the building of a railway to connect the railway systems of eastern and central Canada with the Pacific (expressly stipulated for as a condition of the entry of British Columbia into confederation) was making progress. Surveys of the whole intermediate country had been simultaneously commenced at

either end by parties starting in June and July, 1871.

Position of communication west of the Great Lakes prior to the building of the Canadian Pacific Railway.

A brief glance at the position of traffic communication between Canada East and Canada West of Lake Superior prior to the advent of the railway will be of interest.

Up to the head of Canadian waters on Lake Superior, namely, to Prince

Arthur's Landing, Thunder Bay, boats and steamers gave access.

Between Prince Arthur's Landing (now Port Arthur) and the Red River settlement at Fort Garry (afterwards known as Winnipeg), the route followed by the woyageur, known "as the old canoe route," constituted the sole means of communication. It utilized the most convenient stretches of water navigation afforded by the rivers and lakes of this region, and over the whole distance of 451 miles (726 kilometres) only eleven short portages, of a total of 8 miles (12.9 kilometres), were rendered necessary. Along this route in 1870, the troops under Colonel, now Lord, Wolseley, were forwarded to suppress a Half-breed and Indian rising in Manitoba. This route, however, proved impracticable for the transportation of emigrants and was abandoned.

Surveys for the Canadian Pacific Railway.

The surveys for the Pacific Railway, commenced in 1871, involved an immense amount of work and extended over several years. The data obtained, however, were of great value, and afforded a mass of information as to the capabilities of the country both in the interior and on the Pacific coast, which has been of much service in its subsequent development. In 1877, the railway was commenced as a public work, but it was soon found advisable that it should be constructed by private enterprise, supplemented by Government aid. It was, accordingly, placed in the hands of a company, the Canadian Pacific Railway Company, in 1881, the contract calling for completion in 1891. In aid of the work, the Dominion-gave \$25,000,000 (125,000,000 francs) in money and 25,000,000 acres (10,116,600 hectares) of land, together with about 640 miles (1,030 kilometres) of completed railway which the Government had then under contract, the cost of which, including the surveys, was some \$33,000,000 (165,000,000 francs).

Canadian Pacific Railway commenced and completed.

With this subsidy the company commenced operations, and carried on their works with such energy that the road was built by 1886, five years in advance of the expiry of the time stipulated in the contract, the first through train from Mon-

treal to Vancouver, running in June of that year.

Since that date, the development of railways west of Winnipeg on the part of the company and on the part of other companies, whose enterprises have been rendered possible by the construction of the main line, has been of enormous extent. Far outlying districts in the north and south have been opened up, and the fertile plains of Manitoba and the great North-west, together with the rich valleys and mining districts of British Columbia, have been placed in communication by railway with the Atlantic and Pacific seaboards and with the American railway systems to the south.

Towards this development, and towards the corresponding extension of railway enterprise in the older sections of Canada, the policy of the Dominion, adopted in 1882, of aiding companies by limited grants of money and lands, given under rigid restrictions as to the quality of the work, has largely conduced.

Railway statistics for 1885-1886.

The following general statistics for the year 1885-1886 are full of interest, as marking the position of railway matters in the Dominion at the commencement

of the period of through communication from ocean to ocean.

There were 11,523 miles (18,544 kilometres) of track laid, and 10,697 miles (17,215 kilometres) of railway in operation. 10,303 miles (16,581 kilometres) were laid with steel rails. The paid up capital amounted to \$653,376,144 (3,266,880,720 francs), in which is included bonuses given and expenditure

made by the Dominion Government to the amount of \$124,966,467 (624,832,337 francs). The aggregate of earnings was \$33,389,382 (166,946,910 francs), and of working expenses \$24,177,582 (120,887,910 francs). The number of passengers was 9,861,024, and of freight 15,670,460 tons (15,921,187 tons met.) were carried.

There were 1,567 locomotives, 1,305 passenger and 23,645 box freight and cattle cars. The lines owned by coal and iron mining companies are not included in the above. Of these, there were in Nova Scotia 113 miles (182 kilometres) owned by

13 companies.

The Canadian Pacific Railway Company, in the year 1886, owned or controlled 4,533 miles (7,295 kilometres) of railway in Canada, of which there were in operation 3,769 miles (6,065 kilometres). The Grand Trunk Railway owned or controlled 2,598 miles (4,181 kilometres).

General position of railway progress from 1886 to date.

During the period between 1886 and the present date, railway construction. with all its attendant developments, has actively proceeded year by year, tunnel under the River Saint Clair, completed in 1891, the Grand Trunk Company obtained a new link of direct railway communication with the railway systems of Michigan, and by the close of 1890, the government had completed the extension of the Intercolonial to the eastern harbour of Sydney, Cape Breton, increasing to 1,142 miles (1,838 kilometres) the total mileage of that road. By the end of 1888, a direct line of railway had been constructed, giving a shorter route between Montreal and Saint John, New Brunswick, crossing the state of Maine and com municating with Montreal by a new bridge over the Saint Lawrence. This railway is part of the Canadian Pacific Railway system. North from Quebec 242 miles (389 kilometres) of railway have been built, giving access to the fine agricultural district of the Lake Saint John. Northward from Ottawa, another agricultural district of promise is about to be opened up, 56 miles (90 kilometres) of railway having been constructed: further west, a line, of which 25 miles (40.2 kilometres) are built, is about to pierce the district at the head of the River Ottawa: west of Winnipeg, the country to the northward is being opened up by railways touching the main line of the Canadian Pacific. Already one line extends 250 miles (402 kilometres), another 254 miles (409 kilometres), and a third near the eastern slope of the Rocky Mountains, 191 miles (307 kilometres) long, give access to sections of valuable country, while to the south extensive coal districts are being served by more that one road, and connection is made with American railway systems.

In the older provinces of Ontario and Quebec, the southern portions are covered with a network of lines. At the present date six lines of railway centre at Quebec, seven lines at Montreal, seven at Toronto, six at Ottawa, and nine at Winnipeg.

Railway Statistics, 1893-94.

As before observed, the Dominion and Provincial governments and municipalities have largely assisted railway enterprise by grants of money and lands. Un to the end of June, 1894, the Dominion government, apart from the construction of its own roads and aid to the Canadian Pacific, had assisted construction of 71 railways to the extent of over 11½ million dollars (56,250,000 francs) in cash. The various Provincial governments had assisted railway entreprise to the extent of nearly 30 million dollars (150 million francs) and municipalities nearly 16 million dollars (80 million francs).

In the fiscal year ended on the 30th June, 1894, not including private coal and iron mining companies lines, the number of miles of completed railway was 15,768 (25,376 kilometres), of which 15,368 (25,376) were laid with steel rails: the number of miles in operation was 15,627 (25,250 kilometres). The amount of the paid up capital was 887,975,020 dollars (4,439,875,100 francs). The gross earnings amounted

to \$49,552,528 (247,762,640 francs), and the working expenses to \$35,218,433 (176,092,165 francs), leaving the net earnings \$14,334,095 (71,670,475 francs). The number of passengers carried was 14.402,498 and 20,721,116 tons (21,052,654 tons met) of freight, about one million tons less than in the previous year. The number of miles run by trains was 43,770,029 (70,439,526 trains-kilometres). The number of controlling companies was 72, besides the two lines, the Intercolonial and the Prince Elward Island owned by the government. The Canadian Pacific Railway Company owned or controlled 6,127 miles (9,860 kilometres), and the Grand Trunk Railway 3,158 miles (5,082 kilometres).

Of the total mileage of track laid, the following shows the share each province had in railway enterprise (omitting f actions of a mile); Ontario, 6,267 miles (10,085 kilometres); Quebec, 3,024 (4,866 kilometres); New Brunswick, 1,396 (2,247 kilometres); Nova Scotia, 825 (1,328 kilometres); Prince Edward Island, 210 (338 kilometres); Manitoba, 1,471 (2,367 kilometres); the Territories, 1.772 (2,852 kilometres), and British Columbia, 800 (1.287 kilometres). Of the freight carried, there were 11,169,833 barrels or 1,112,885 tons (11,306,911 tons met.) of flour, and 100,402,828 bushels or 2,567,594 tons (2,608,676 tons met.) of grain, and 3,609,313 tons (3.667,062 tons met.) of lumber: of live stock 4,245,172 were carried, and 2,921,373 tons (2,968,115 tons met.) of manufactured goods.

The rolling stock operating this traffic comprised 2,002 locomotives, 1,861 passenger cars, 636 baggage mail and express cars, 35,852 freight cars (box and cattle)

and 19,603 flat and other cars.

Results of Railway construction.

It remains to indicate, so far as may be done, the effect produced upon the country by the construction of railways throughout its various sections; and for this purpose the statistics afforded by the census returns, those of customs, agriculture, and immigration, the statistics of the post office, of banking institutions, of trade and navigation, and municipal assessments are available. Besides these sources of information, the returns made by the railway companies themselves to the government, already quoted, are of special value.

Census Statistics of 1861 to 1891.

First as to the population:

In 1861 the population of Uper Canada (Ontario) was 1,396,091, of Lower Canada (Quebec), 1,111,566, of New Brunswick 252,047, of Nova Scotia 330,857, of Prince Edward Island 80,857. The North-west Territories and British Columbia are not included not being in the Dominion at that date. Manitoba at this time had no separate existence, having been formed out of the North-west Territories in 1870, after their acquisition by the Dominion. Records of population in respect of these three sections of the country are not available but, apart from the Indian tribes, population was practically non existent.

In 1871 the first census of the Dominion was taken.

The population of the country at that time was 3,689,257. It comprised, British Columbia 36,247 (including 25,661 Indians, Manitoba 25,228, New Brunswick 285,594, Nova Scotia 387,800, Ontario 1,620,851, Prince Edward Island 94,021, Quebec 1,191,516, the Territories (covering four districts west from Manitoba to the Rocky Mountains, and embracing an area of 394,981 square miles (763,971 square kilometres), 18,000, the unorganized territories, which comprised 2,076,500 square miles (5,377,927 square kilometres), 30,000.

In 1871, the percentages of the urban and the rural population were as follows: In Ontario, urban 19.4, rural 80.6; Quebec, urban 19.5, rural 80.5; Nova Scotia, urban 14.0, rural 86.0; New Brunswick, urban 24.3, rural 75.7; Manitoba, urban 1.2, rural 98.8; British Columbia, urban 8.9, rural 91.1; Prince Edward Island, urban, 11.5, rural 88.5, the totals for Canada being, urban, 18.8, rural 81.2 the total urban population being 686,019. Of the urban population, Montreal had 107,-

225, Toronto 56,092, Quebec 59,699, Ottawa 21,543. Winnipeg had only 241 inhabitants, and in British Columbia, Victoria had only 3,270, while Vancouver and New Westminster had no existence.

Passing over the census of 1881, that taken in 1891 shows population as fol-

lows :-

Total population of Canada 4,833,239, comprising British Columbia, 98,173; Manitoba, 152,506; New Brunswick, 321,263; Nova Scotia, 450,396; Ontario, 2,114,321; Prince Edward Island, 109,078; Quebec, 1,488,535; the four organized districts of "The Territories," 66,799, and the unorganized territories, 32,168. The

population is now estimated at 5,000,000.

The percentages of the urban and rural populations in 1891 were as follows:—Ontario, urban 33.2, rural 66.8; Quebec, urban 29.2, rural 70.8; Nova Scotia, urban 21.2, rural 78.8; New Brunswick, urban 19.4, rural 80.6; Manitoba, urban 22.5, rural 77.5; British Columbia, urban 42.5, rural 57.5; Prince Edward Island, urban 13.0, rural 87.0; the Territories, urban 5.6, rural 94.4. For the whole of Canada, urban 28.7, rural 71.3. The aggregate urban population for the whole of Canada was 1,390,910.

Of cities and towns with a population of 100,000 and upwards there were two,

Montreal with 216,650, and Toronto with 181,220.

With 25,000 and less than 70,000, there were 7, including Winnipeg, 25,642, a growth of 221.1 per cent for that city in the decade.

With 10,000 and less than 25,000, there were 11, including Vancouver 13,685

and Victoria, 16,841, 184.2 per cent increase for that city.

With 5,000 and less than 10,000 there were 26, including New Westminster, 6,641, 342.7 per cent increase in the decade. There were 46 towns with populations between 3,000 and 5,000, including Springhill, Nova Scotia, 4,813, an increase of 434.7 per cent. Nanaimo, on Vancouver Island, 4,595, an increase of 179.3 per cent. Calgary, Brandon and Portage la Prairie, towns on the western section of the Canadian Pacific Railway had sprung into existence, and had populations respectively of 3,876, 3,778 and 3,363.

Turning to the occupations of the population, there were 408,738 farmers, or with their sons engaged in agriculture, 649,506. This does not include farm

labourers.

Of the last total, British Columbia had 5,874, an increase compared with 1881 of 146.7 per cent; Manitoba had 29,014, an increase of 115 per cent; and the Northwest Territories 10,837 as against 1,011 in 1881, an increase of 971.9 per cent.

west Territories 10,837 as against 1,011 in 1881, an increase of 971.9 per cent.

In 1891 there were 28,537,242 acres (11,547,994 hectares) of improved land against 21,899,180 acres (8,856,763) in 1881, and 17,335,818 acres (7,015,181 hectares) in 1871

The growth of the industrial interests of the country may be followed in the subjoined table.

	1871.	1881.	1891.
Number of establishments		49,923	75,768
Capital invested	{ \$77,964,020 (389,820,100 fr.)	\$165,302,623 (826,513,115 fr.)	\$353,836,817 (1,769,184,085 fr.)
Number of employees	187,942	254,935	367,865
Wages paid	\$40,851,019 (204,255,095 fr.)	\$59,429,002 (297,145,010 fr.)	\$99,762,441 (498,812,205 fr.)
Cost of raw material	(\$124,907,846 (624,539,230 fr.)	\$179,918,593 (899,592,965 fr.)	\$255,983,219 (1,279,916,095 fr.)
Value of products	(1,108,088,865 fr.)	\$309,676,068 (1,548,380,340 fr.)	\$475,445,705 (2,377,228,525 fr.)

In 1891 British Columbia had 770 establishments with an output valued at \$11,999,928 (59,999,640 francs); Manitoba 1,031, with an output of \$10,155,182 (50,575,910 francs), and the Territories 375, with an output of \$1,827,310 (9,136,550 francs).

British Columbia had 59 establishments, each producing to the value of \$50,000 (250,000 francs) and over, against 13 establishments in 1881, and 18 produ-

cing to the value of \$100,000 (500,000 francs) and over against 4 in 1881.

Manitoba had 39 establishments each producing to the value of \$50,000 (250,000 francs) and over, against 13 in 1881, and 26 establishments whose output was \$100,000 (500,000 francs) and over, against 5 in 1881.

The Territories had 7 establishments each producing to the value of \$50,000 (250,000 francs) and over, there having been none in 1881; of these 3 produced

to the value of \$100,000 (500,000 francs) and over.

Of the total number of establishments in Canada, 1,675 had an output of \$50,000-(250,000 francs) and over; 899 of \$50,000 to \$100,000 (250,000 to 500,000 francs); 776 of 100,000 (500,000 francs), and two produced \$1,000,000 (5,000,000 francs)

In 1891 there were 23,552 persons engaged in steam railway employment, of whom 4,204 were locomotive engineers and firemen. There were 13,417 miners, of whom 5,660 were in Nova Scotia, and 4,591 in British Columbia; 12,319 lumbermen and raftsmen, of whom 1,521 were in Nova Scotia, 1,240 in New Brunswick, and 1,119 in British Columbia, and 27,079 fishermen, of whom 14,478 were in Nova Scotia, 2,926 in New Brunswick, and 3,798 in British Columbia.

Statistics of development in other directions can be given for a date considerably more recent than that of the last census, and the following for the year ended on the 30th of June, 1894, will furnish suggestive information almost up to the pre-

sent date.

Trade and commerce statistics, 1894.

In the year ended on the 30th of June, 1894, the total import and export trade of Canada amounted to (1) \$240,999,889 (1,204,999,445 francs), against a total in 1868 of \$131,027,532 (655,137,660 francs). Of this the following centres of railway communication had share, in round figures, Halifax, \$13,500,000 (67,500,000 francs); St. John, \$7,000,000 (35,000,000 francs); Quebec, \$8,700,000 (43,500,000 francs); Montreal, \$96,400,000 (482,000,000 francs); Toronto, \$22,000,000 (110,000,000 francs); Winnipeg (the only entry port of Manitoba) \$4,200,000 (21,000,000 francs); Vancouver, \$2,100,000 (10,500,000 francs); Victoria, \$5,900,000 (29,500,000 francs). The total for the whole of British Columbia in 1894 was \$13,412,181 (67,060,905 francs), against a total in 1872 of \$3,652,459 (18,262,295 francs) and a total in 1886 of \$6,906,915 (34,534,575 francs). In 1872 the total for Winnipeg was only \$1,027,788 (5,138,940 francs).

The value of the interprovincial trade of the Dominion, that is the products of one province required by another, is now estimated at \$100,000,000 (500,000,000 francs). It was only \$4,000,000 (20,000,000 francs) in 1868. This development

is entirely owing to the railway progress.

In 1893-1894, Canada exported of her coal produce 996,000 tons (1,011,936 tons met.), Nova Scotia sending away 241,000 tons (244,586 tons met.), and British Columbia 716,000 (727,456 tons met.) while the inland coal of the Territories was exported to the extent of 34,000 tons (34,554 tons met.). No great quantity of either iron or copper ore is sent out of the country, but at the newly developed nickel

⁽¹⁾ Values alone do not give the true measure of this increase. Prices have fallen since 1868 fully 333 per cent. On the basis of 1868 the trade returns for 1894 should stand at \$305,000,000 (1,525), million francs. The increased volume of trade may be inferred from this statement.

mines at Sudbury, on the line of the Canadian Pacific Railway, the ore having been discovered in making a cutting for that railway line, there was produced for export, in 1893-1894, 4,205 tons (4,205 tons met.), the value being \$808,799 (3,043,995 francs).

Statistics of urvan population and advance in the West.

At the present date, 1895, the following is the estimated population of the principal cities, towns and villages along the line of the Canadian Pacific Railway and its connections, in Manitoba, the Territories, and British Columbia. With populations of from 300 to 1,000 there are 9; from 2,000 to 5,000, 15; while the present estimate of Winnipeg is 30,000, of New Westminster 9,000, and of Vancouver 20,000.

The assessments of certain of these cities for 1893 are as follows:—

Calgary, \$1,400,000 (7,000,000 francs); Vancouver, \$18,655,000 (93,275,000 francs); New Westminster, \$7,504,132 (37,520,660 francs); Winnipeg, \$21,692,700 (108,463,500 francs) (in 1882 it was \$8,000,000—40,000,000 francs); Brandon,

\$5,218,838 (15,594,190 francs).

North Bay, Sudbury, Fort William, Rat Portage, Keewatin, Deloraine, Medicine Hat, Regina, Dunmore, Moose Jaw, Edmonton, Prince Albert and a long list of other towns show valuations ranging from \$125,000 to \$500,000 (625,000 to 2,500,000 francs). While Kamloops, Yale, Port Moody, Nelson, and a dozen other towns in British Columbia swell the figures by millions.

Of the 38 chartered banks of Canada (making, with their several branches, 516 institutions) no less than 10 had branches in Winnipeg, 3 in Brandon, Calgary, Edmonton, Vancouver, New Westminster, and 2 in some 15 to 20 other points, apart from private banks. In Winnipeg it was found necessary in 1893 to establish a clearing house, making the fifth in Canada, its recorded transactions for the first half year amounted to \$4,974,267 (24,871,135 francs). It may be noted here that the transactions of the five clearing houses, Montreal, Toronto, Halifax, Hamilton and Winnipeg, amounted for the year 1895 to \$981,137,563 (4,905,687,815 francs).

The total area surveyed by the Dominion Government for settlement in Manitoba, the Territories and British Columbia up to June, 1894, aggregated 77,839,695 acres (31,498,922 hectares), which divided into farms of 160 acres (64,746 hectares) each would give an available total of 486,494 farms. Accommodation there-

fore for a vast additional population is amply provided for.

Along the main line of the Canadian Pacific from Ottawa to Vancouver, there are 206 stations, the centres of population they serve being, with but very few exceptions, due absolutely to the construction of the railway, and all, without exception owing their development to its presence. At various points along the immense distance traversed, these have become the nuclei of various important mining,

lumbering, manufacturing and agricultural industries.

It must not of course be imagined, that any large proportion of these stations on the line are in themselves more than merely stopping places, accommodating out-lying farm or mining settlements, but at the same time in all the towns of larger extent, a high degree of modern comfort and convenience is attained. Electrical lighting and transport, good streets, large public buildings, water works, fine hotels, handsome well filled stores, and commodious private residences, churches, schools, and theatres, place these prairie and coast towns in a position of advancement undreamt of in cities of the older world with many times their population.

From several hundred returns procured from points west of Ottawa it is possible to state that leaving aside the towns existing before the advent of the Canadian Pacific Railway, and without including the value of the farming lands, the value of the property of the new towns along the line aggregates over one hundred million dollars (500 million frames.) The value for purposes of taxation of

property, which was unavailable and useless in 1880, and which has been made of value by the construction of the Canadian Pacific Railway is four times the amount

of the expenditure by the country on account of that work.

Perhaps no more suggestive and conclusive statement can be put forward in evidence of the beneficial results of the railway policy of this country than the simple fact that to-day it is possible for any one to travel by rail the whole distance, 3,661 miles (5,892 kilometers), between Halifax, on the Atlantic, and Vancouver, on the Pacific coast, in 5½ days, at a cost, for fare, of \$53.50 (267.50 francs); while from Montreal, at the head of summer navigation, to Vancouver, the time occupied would be a little over four days, and the fare \$42 (210 francs). The time is the normal time taken, and implies a vast number of stoppages. It could of course, be greatly reduced on an emergency. Contrast this with the time taken, as above stated, by the first expedition of the troops under Sir Garnet Wolseley in 1870, when two months were required, even in circumstances needing all possible haste, for traversing the 452 miles (727 kilometers) between the head of Lake Superior and the present site of Winnipeg.

In these days, when, apart from personal travel, so much of the world's business is transacted by postal communication, it will be seen how enormously the railway by its rapid transport has benefited the country at large, while it must also be borne in mind that by the telegraph, the natural and necessary adjunct of the railway,

communication between the two oceans is practically instantaneous.

The following facts in relation to the postal development speaks volumes: Taking the year 1868, the year after confederation, there were 3,638 offices, and the number of letters was 18,100,000. In 1872, there were in Canada 4,135 offices and 20,600,000 letters and cards and 24,400,000 newspapers were posted. At that date Manitoba and the Territories had 27 offices, with 80,000 letters and cards, and British Columbia 38 offices and 160,000 letters and cards, 150,000 newspapers together. In 1894, there were in Canada 8,664 offices, dealing with 130,840,000 letters, cards and newspapers. Manitoba and the Territories had 692 offices with 8,845,000 letters and cards, and 1,300,000 newspapers, while British Columbia had 229 offices, the number of letters and cards being 3,880,000 and over 500,000 newspapers.

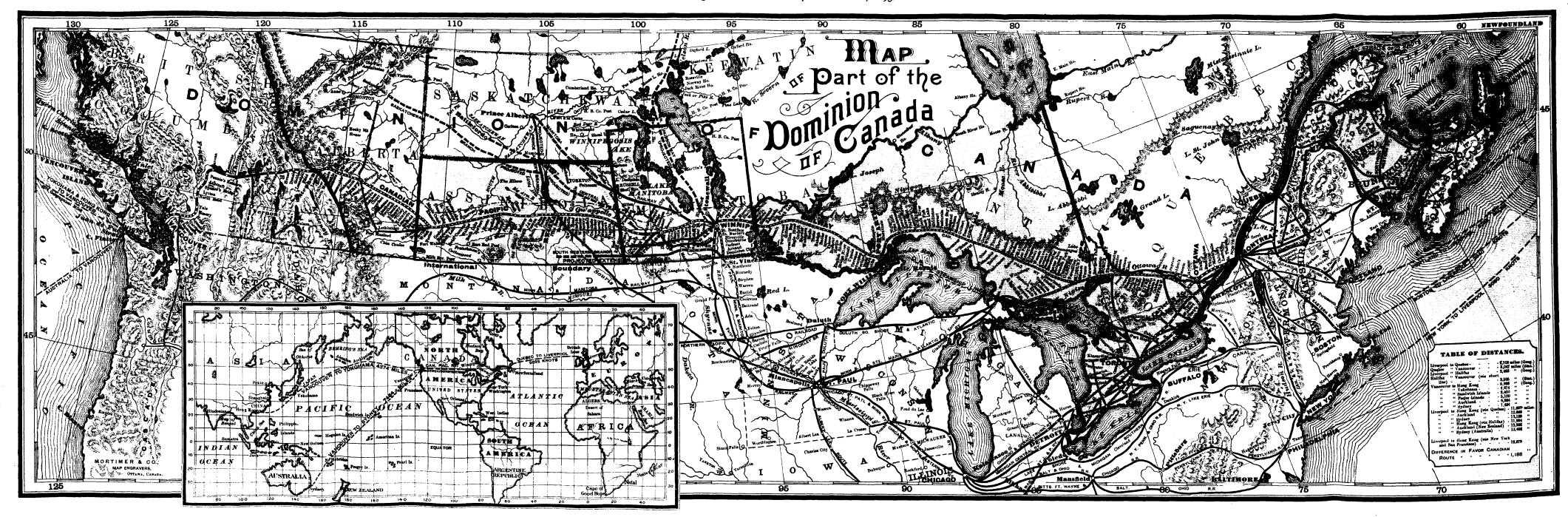
A further point has to be borne in mind in considering the construction of this great railway as an initial step from which developments may be obtained. It is solely due to the construction of this road that it has been possible to place on the Pacific Ocean, and from a terminus on British territory, a line of steamers belonging to the company communicating with Japan, China, and Australia by a route shorter than any previously existing. From Vancouver to Yokohama 11½ days only are required; to Hong Kong 19 days, and to Sydney 23 days, and these schedule times

are capable of considerable modification on emergency.

In view of the position as shown by the present memorandum it only remains to add that the Dominion Government alone, since confederation in 1867, has expended on the construction of its own roads and the subsidizing of private railway enterprise a total of \$124,614,140 (623,070,700 francs), and to draw the conclusion that this investment of public moneys has proved to be judicious and successful. In Canada, as in other parts of the world, notably in the United States, the policy of inducing settlement and creating trade and commerce by first affording the facilities for communication, is beyond question, the true policy in the interests of the country at large.

CONGRÈS INTERNATIONAL DES CHEMINS DE FER.

CINQUIÈME SESSION, LONDRES, 1895.



CARTE DES CHEMINS DE FER DU CANADA, POUR SERVIR D'ECLAIRCISSEMENT A LA NOTE DE L'HON. SIR CHARLES TUPPER. Map of the Railway System of Canada to accompany Paper by Sir Charles Tupper.